



Appendix B

Drilling Supervisor's Daily Reports

H.T. - H.P. W/L: _____

Field: _____

MUD				RATES				Well STATE 2-14				
Wt. <u>8.8</u>	lb/gal.	Penetration _____	ft/hr	No. days this well <u>1</u>	Date <u>10/24/85</u>							
Vis. <u>48</u>	Sec. <u>8</u> PV <u>24</u> YP	Bit Weight <u>4</u>	M.lbs	Operator <u>BECHTEL NATIONAL INC</u>								
W.L. <u>18.5</u>	cc/30 Sand <u>1/2</u> %	Rotary RPM <u>100</u>		Contractor <u>CLEVELAND DRG.</u>								
pH. <u>9.0</u>	Ca+ <u>120 T.H.</u> PPM	Pump psi <u>(50?)</u>		Today's depth <u>109</u>								
W.C. <u>2</u>	1/32" CL- <u>660</u> PPM	Pump SPM <u>55</u>		Yesterday's depth <u>0</u>								
Oil <u>NIL</u>	% Solids <u>4</u> %	Pump liners <u>7" x 16</u>		Drilled <u>109</u> ft. in <u>6</u> hrs.								
Temp. <u>78</u>	°F, Gels = <u>12</u> / <u>12</u>	Pump output = <u>494</u> GPM		Last casing <u>8</u> " Depth <u>8</u>								
ALK. (Pp) = <u>NIL</u>		Ann. Vel. = <u>20</u> ft/min.		Rotating Hrs. this report = <u>6</u>								
K+ion = _____	PPM	Hours Running _____		Cumulative rotating hours = <u>6</u>								
Na+ion = _____	PPM	Centrifuge = _____										
At Depth = _____	Ft.	Reduced Pump Rate: _____ SPM = _____ psi										

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION				
						FROM	TO				T	B	G		
1	17 1/2"	Reed		3-1/2	RT.	0	109	109	6						

BHA Length: 90.84 Ft., Consist of: 17 1/2" BIT - 26" H.D. - BIT Sub - 3 X 8" DC. - 8" Sub
1 X 5" H.W.D.P.

K.B. To G.L. 28.35'

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units
			Coordinates: _____ M.D. _____ TVD _____
			Present operations: <u>Drilling Ahead F/109 To 150' K.B.</u>
			Operations last 24 Hours:
			<u>18 Drill (wash RAT Hole) & Rig up</u>
			<u>6 m/u 26" Hole opener AND 17 1/2" BIT & Drill</u>
			<u>F/O To 109 @ 6:00 AM</u>

Daily Cost: \$ _____	
Cumulative Cost: \$ _____	
	<u>24 TOTAL</u>
Daily Mud Cost: \$ <u>3,036</u>	
Cum. Mud Cost: \$ <u>3,036</u>	

MUD & CHEMICALS USED	
Sack Barite:	
Bulk Barite:	
Gel:	<u>161 SX</u>
Caustic Soda:	
Lignite:	
<u>Lime</u>	<u>2 SX</u>
<u>Pep</u>	<u>4 Cns</u>

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD		RATES		Well <u>STATE 2-14</u>	
Wt. <u>9.5</u> lb/gal.	Penetration _____ ft/hr	No. days this well <u>2</u>	Date <u>10-25-85</u>		
Vis. <u>40</u> Sec. <u>6</u> PV <u>20</u> YP	Bit Weight <u>510</u> M.lbs	Operator <u>Bechtel National Inc.</u>			
W.L. <u>37.5</u> cc/30 Sand <u>1</u> %	Rotary RPM <u>120</u>	Contractor <u>Cleveland Drilling Co Rig #6</u>			
pH. <u>8.4</u> Ca+ <u>520</u> PPM	Pump psi <u>50</u>	Today's depth <u>150'</u>			
W.C. <u>3</u> /32" CL <u>2100</u> PPM	Pump SPM <u>56</u>	Yesterday's depth <u>109'</u>			
Oil <u>Nil</u> % Solids <u>8 1/2</u> % lb/B*	Pump liners <u>7"x16</u>	Drilled <u>41'</u> ft. in _____ hrs.			
Temp. _____ °F, Gels = <u>12.14</u>	Pump output = _____ GPM	Last casing <u>30"</u> " Depth <u>150'</u>			
ALK. (Pf) = _____	Ann. Vel. = _____ ft/min.				
K+ion = _____ PPM	Hours Running _____	Rotating Hrs. this report = <u>8</u>			
Nation = _____ PPM	Centrifuge = _____	Cumulative rotating hours = _____			
At Depth = _____ Ft.	Reduced Pump Rate: _____ SPM = _____ psi				

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
1	17 1/2	Reed AT8278		3-16	RT.	0'	150'	150'			1	1	I
1 H.O.	26"	Hole opener	Rock	3-20	N	0'	150'	150'			1	1	I
2 H.O.	42"	Hole opener	Rock	-	N	0'	150'	150'			1	1	I

BHA Length: 131.73 Ft., Consist of:

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units
	o			
				Coordinates: _____ M.D. _____ TVD _____
				Present operations: <u>Landing 30" Conductor</u>

HOURS	Operations last 24 Hours:
1	6-7 Cont. Drill 26" Hole F/ 109' TO 150'
4	7-11 Trip out & Lay Down D.C. & 26" H.O. - P/U 42" H.O.

Daily Cost: \$ _____	7	11-6 Open 26" Hole To 42" F/O' TO 150'
Cumulative Cost: \$ _____	1/2	6-6:30 Circ F/ 30" Csg @ 150'
Daily Mud Cost: \$ <u>687⁰⁰</u>	1/2	6:30-7 Trip out & Lay Down 42" Hole opener
Cum. Mud Cost: \$ <u>3,723⁰⁰</u>	4 1/2	7-11:30 R/U & Run 150'-30" 157.5' p/ft .500 Beveled Weld Csg To 150'

MUD & CHEMICALS USED	2 1/2	11:30-2 P/U & Run 2-Strings 2 7/8" Tbg outside of 30" Csg. @ 150' & R/U Cmt pump
Sack Barite:		
Bulk Barite:	2	2-4 Pumped 26 yds Redi Mix Concrete
Gel: <u>28 5x</u>		F/ 150' TO SURFACE w/ RETURNS - 85K
Caustic Soda:		CMT & SAND 6" Slump Slurry - C.I.P.
Lignite:		AT 4:00 AM 10/25/85 WITNESSED AND
<u>Pep 2 CNS</u>		Approved by D.O.G. Dick Corbaley
	2	4-6 Clean Celler AND Land 30" Cond. Csg @ 6:00 AM

Form = Sand & Clay

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD		RATES		Well <u>STATE 2-14</u>	
Wt. <u>9.5</u> lb/gal.	Penetration _____ ft/hr	No. days this well <u>3</u>		Date <u>10-26-85</u>	
Vis. <u>38</u> Sec. <u>8</u> PV <u>14</u> YP	Bit Weight _____ M.lbs	Operator <u>Bechtel</u>		Contractor <u>Cleveland Rig #6</u>	
W.L. <u>30</u> cc/30 Sand <u>1/2</u> %	Rotary RPM _____	Today's depth <u>150'</u>		Yesterday's depth <u>150'</u>	
pH. <u>8.4</u> Ca+ <u>648</u> PPM	Pump psi _____	Drilled <u>0</u> ft. in _____ hrs.		Last casing <u>30"</u> " Depth <u>150'</u>	
W.C. <u>3</u> 132" CL- <u>2260</u> PPM	Pump SPM _____	Rotating Hrs. this report = _____			
Oil <u>Nil</u> % Solids <u>9</u> % <u>30</u> lb/B°	Pump liners <u>7" X 16</u>	Cumulative rotating hours = _____			
Temp. <u>70</u> °F, Gels = <u>12, 14</u>	Pump output = _____ GPM				
ALK. (Pf) = _____	Ann. Vel. = _____ ft/min.				
K+ion = _____ PPM	Hours Running _____				
Na+ion = _____ PPM	Centrifuge = _____				
At Depth = _____ Ft.	Reduced Pump Rate = _____ SPM = _____ psi				

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	

BHA Length: _____ Ft., Consist of:

BHA Wt. In Mud: _____ Lb.

Total String Wt.: _____ Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units
	o	.		
				Coordinates: _____ M.D. _____ TVD _____
				Present operations: <u>FUNCTION TESTING DIVERTER</u>

HOURS Operations last 24 Hours:

24 CONT. LAND 30" CASING & NIPPLE UP 30"
DIVERTER SYSTEM - FABRICATING CHOKES &
KILL LINES - FUNCTION TESTING @ 6:00 AM

Daily Cost: \$ _____

Cumulative Cost: \$ _____

Daily Mud Cost: \$ 60.00

Cum. Mud Cost: \$ 3783.00

MUD & CHEMICALS USED

Sack Barite:

Bulk Barite:

Gel:

Caustic Soda:

Lignite:

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>9.7</u> lb/gal. Vis. <u>54</u> Sec. <u>10</u> PV <u>24</u> YP W.L. <u>18</u> cc/30 Sand <u>74</u> % pH. <u>8.12</u> Ca+ <u>180</u> PPM W.C. <u>2</u> /32" CL- <u>1450</u> PPM Oil <u>NIL</u> % Solids <u>10</u> % <u>32</u> lb/B° Temp. <u>107</u> °F, Gels = <u>18</u> /42 ALK. (Pf) = _____ K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>75</u> ft/hr Bit Weight <u>10</u> M.lbs Rotary RPM <u>120</u> Pump psi <u>200</u> Pump SPM <u>53</u> Pump liners <u>7" X 16</u> Pump output = <u>476</u> GPM Ann. Vel. = <u>42-52</u> ft/min. Hours Running Centrifuge = <u>MC-24</u> Reduced Pump Rate = _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well <u>4</u> Date <u>10-27-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>1000'</u> Yesterday's depth <u>150'</u> Drilled <u>850'</u> ft. in <u>16 1/2</u> hrs. Last casing <u>30"</u> " Depth <u>150'</u> Rotating Hrs. this report = <u>16 1/2</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>2</u>	<u>17 1/2</u>	<u>SPS ER5508</u>		<u>3-16</u>	<u>RT</u>	<u>150</u>	<u>1000</u>	<u>850</u>	<u>16 1/2</u>	<u>51.5</u>	<u>1</u>	<u>N</u>	<u>C</u>

BHA Length: 546.36 Ft., Consist of: 17 1/2" BIT - BIT Sub - 2 X 9" DC - 17 1/2" STAB - 1 X 9" DC - 17 1/2" STAB - 3 X 8" DC - 8" Sub - 12 X 5" HW.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 98,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas units at Ft. Avg. background gas <u>CO₂ 600 ppm</u> units
	<u>0</u>		Connection gas: Max. units at ' mud wt. lb./Gal.
<u>485</u>	<u>0° 15'</u>	<u>-</u>	Coordinates: M.D. TVD
			Present operations: <u>TRIP F/ 26" Hole opener</u>

HOURS	Operations last 24 Hours:
<u>2</u>	<u>6-8 CONT Nipple up B.O.P.E. (30')</u>
<u>2</u>	<u>8-10 TEST B.O.P.E. - WITNESSED & APPROVED</u>

Daily Cost: \$	
Cumulative Cost: \$	<u>1 10-11 M/U B.H.A. & R.I.H.</u>
Daily Mud Cost: \$ <u>16.52⁰⁰</u>	<u>6 1/2 11-5:30 Drill 17 1/2" Hole F/150' To 485'</u>
Cum. Mud Cost: \$ <u>54.35⁰⁰</u>	<u>1/2 5:30-6 Circ & Survey @ 485'</u>
	<u>3 1/2 6-9:30 Drill 17 1/2" Hole F/485' To 669'</u>
	<u>1 9:30-10:30 Wipe Hole F/669' To 150' No/Drag-No/kill</u>

MUD & CHEMICALS USED	Quantity	Description
Sack Barite:		<u>for time change</u>
Bulk Barite:	<u>1</u>	<u>4-5 Circ Bottoms up @ 1000' For Loggers</u>
Gel:	<u>30 3x</u>	<u>1/2 5-5:30 Survey @ 1000'</u>
Caustic Soda:	<u>1/2</u>	<u>5:30-6 P.O.H. F/ Hole opener (26")</u>
Lignite:		

Wellpak	<u>3</u>	<u>N/U B.O.P = 2 hours</u>
Soda Ash	<u>4</u>	<u>TEST " = 2</u>
TPIex	<u>2</u>	<u>TRIP = 2 1/2</u>
Sawdust	<u>4</u>	<u>Circ = 1</u>
Lo-Sol	<u>3</u>	<u>Survey = 1</u>
		<u>Drill = 16 1/2</u>
		<u>TOTAL = 2.5 hours</u>

FORMATION 150'-660 80-100% CLAY
 " " 0-20% SAND/SILT
660'-1000' 100% CLAY

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>9.7</u> lb/gal. Vis. <u>50</u> Sec. <u>10</u> PV <u>22</u> YP W.L. <u>16.0</u> cc/30 Sand <u>1/2</u> % pH. <u>8.34</u> Ca+ <u>124</u> PPM W.C. <u>2</u> /32" CL <u>1150</u> PPM Oil <u>Nil</u> % Solids <u>10</u> % <u>32</u> lb/B* Temp. <u>109</u> °F, Gels = <u>16.140</u> ALK. (Pfl) = _____ K-ion = _____ PPM Na-ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>5</u> ft/hr Bit Weight <u>10/15</u> M.lbs Rotary RPM <u>120</u> Pump psi <u>450</u> Pump SPM <u>33-33</u> Pump liners <u>7" X 16"</u> Pump output = <u>593</u> GPM Ann. Vel. = <u>22 X 24</u> ft/min. Hours Running Centrifuge = <u>24</u> Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well <u>5</u> Date <u>10-28-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>1028'</u> Yesterday's depth <u>1000</u> Drilled <u>28</u> ft. in <u>5</u> hrs. Last casing <u>30"</u> " Depth <u>150'</u> Rotating Hrs. this report = <u>20</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>2</u>	<u>17 1/2"</u>	<u>SPS</u>		<u>3-16</u>	<u>R.T.</u>	<u>150</u>	<u>1000</u>	<u>850</u>			<u>2</u>	<u>2</u>	<u>I</u>
<u>1 RE</u>	<u>17 1/2"</u>	<u>SPS</u>		<u>3-16</u>	<u>R.T.</u>	<u>150</u>	<u>1028</u>	<u>878</u>	<u>20</u>		<u>1</u>	<u>N</u>	<u>C</u>
<u>1 RE</u>	<u>26"</u>	<u>SPS Hole Opener</u>		<u>3-20</u>	<u>N</u>	<u>150</u>	<u>1028</u>	<u>878</u>	<u>20</u>		<u>1</u>	<u>N</u>	<u>C</u>

BHA Length: 595.44 Ft., Consist of: 17 1/2" BIT - 26" Hole opener - BIT sub - 1 X 9" NMDC
2 X 9" DC - 17 1/2" STAB - 1 X 9" DC - 17 1/2" STAB -
3 X 8" DC - 12 X 5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 110,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>400 PPM</u> emits _____
	°	'		Connection gas: Max. _____ units at _____ mud wt. <u>9.7</u> lb./Gal.
<u>1000</u>	<u>0</u>	<u>15'</u>		Coordinates: _____ M.D. _____ TVD _____
				Present operations: <u>CONT. Drilling To 1032'</u>

HOURS	Operations last 24 Hours:
<u>4</u>	<u>6-10 CONT. TRIP OUT - P/U NMDC & 26" H.O. & R.I.H.</u>
<u>15</u>	<u>10-1 AM OPEN 17 1/2" Hole To 26" F/150' TO 1000'</u>
<u>5</u>	<u>1-6 Deepen Hole T/1028' @ 6:00 AM TO FIT CASING</u>
Daily Cost: \$ _____	
Cumulative Cost: \$ _____	
Daily Mud Cost: \$ <u>1,963.00</u>	
Cum. Mud Cost: \$ <u>7,398.00</u>	

MUD & CHEMICALS USED	
Sack Barite:	<u>TRIP = 4</u>
Bulk Barite:	<u>O.H. = 15</u>
Gel:	<u>DRILL = 5</u>
Caustic Soda:	<u>TOTAL = 24 HOURS</u>
Lignite:	
<u>Lime</u>	<u>3</u>
<u>Wellpac</u>	<u>3</u>
<u>T-Plex</u>	<u>8</u>
<u>Lo-Sol</u>	<u>2</u>
<u>Soda Ash</u>	<u>3</u>
<u>Sawdust</u>	<u>2</u>
	<u>FORMATION = 1000-1028 100% CLAY</u>

D004

Drilling Super. Report.

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>9.9</u> lb/gal. Vis. <u>48</u> Sec. <u>14</u> PV <u>18</u> YP W.L. <u>12.6</u> cc/30 Sand <u>14</u> % pH. <u>8.5</u> Ca+ <u>112</u> PPM W.C. <u>2</u> /32" CL <u>1180</u> PPM Oil <u>Nil</u> % Solids <u>10 1/2</u> % <u>40</u> lb/B* Temp. <u>109</u> °F, Gels = <u>18</u> /44 ALK. (PT) = <u>Nil</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration _____ ft/hr Bit Weight <u>10/15</u> M.lbs Rotary RPM <u>120</u> Pump psi <u>450</u> Pump SPM <u>33-33</u> Pump liners <u>7" X 16"</u> Pump output = <u>494</u> GPM Ann. Vel. = <u>22-24</u> ft/min. Hours Running Centrifuge = <u>12</u> Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well <u>6</u> Date <u>10-29-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>1032</u> Yesterday's depth <u>1028</u> Drilled <u>4</u> ft. in _____ hrs. Last casing <u>20"</u> " Depth <u>1032'</u> Rotating Hrs. this report = <u>14</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>1^{RE}</u>	<u>17 1/2</u>	<u>SPS AT8278</u>		<u>3-16</u>	<u>RT.</u>	<u>150</u>	<u>1032</u>	<u>882</u>	<u>19 3/4</u>		<u>2</u>	<u>2</u>	<u>I</u>

BHA Length: 595.44 Ft., Consist of: N/C

BHA Wt. in Mud: _____ Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas units at Ft. Avg. background gas units Connection gas: Max. units at mud wt. lb./Gal. Coordinates: M.D. TVD Present operations: <u>LAY DOWN 30" BOPE</u>
	°	'		
<u>1032</u>	<u>0°</u>	<u>15'</u>	<u>S-73-E</u>	

HOURS	Operations last 24 Hours:
<u>1/4</u>	<u>6-6:15 CMT LOWER CASING POINT TO 1032'</u>
<u>3/4</u>	<u>6:15-7 CIRC. F/WIPER TRIP</u>
<u>1/2</u>	<u>7-7:30 Wipe Hole To 150' (Good Shape)</u>
<u>1 1/2</u>	<u>7:30-9 CIRC CLEAN F/20" Csg @ 1032'</u>
<u>1/2</u>	<u>9-9:30 SURVEY @ 1032'</u>
<u>1 1/2</u>	<u>9:30-11 P.D.H.</u>
<u>1</u>	<u>11-12 RIG UP TO RUN 20" CASING</u>
<u>6</u>	<u>12-6 RAN 25 JTS 20" Csg. AS follows - Howco float shoe @ 1032' - 11 JTS 133" K-55 BTIC - 13 JTS 94" K-55 BTIC - 1 JT 133" K-55 BTIC = 1034.99</u>

MUD & CHEMICALS USED	
Sack Barite:	
Bulk Barite:	<u>4</u> <u>6-10 RIG UP CMT HEAD - LINES & CIRC Csg. F/CMT.</u>
Gel:	<u>2</u> <u>10-12 CMT w/Howco AS follows - Preflush - 100% ET H2O - 500 Gal Flowback - 100% ET H2O - START MIX LEAD @ 10:25 PM - 1869 % ET. 1:1 G" + Pearlite + 40% silica flour + 3% Gel + .65% CER-2 - Tail 500 % ET G" + 40% silica flour + 1% CER-2 - STOP MIX @ 11:15 - DRIP TOP Plug @ 11:16 - START Displace w/mud 1936 % ET @ 11:17 - STAGE LAST 100 % ET - C.I.P. @ 12:04 - Had 536 % ET Good Cmt. RETURNS TO SURFACE - WITNESSED BY C.D.O.G.</u>
Caustic Soda:	
Lignite:	
T-Plex	<u>12</u>
	<u>4</u> <u>12-4 WAIT ON CEMENT</u>
	<u>1</u> <u>4-5 LAY DOWN CMT HEAD & RIG DOWN FLOOR</u>
	<u>1</u> <u>5-6 CUT OFF Csg. & LAY DOWN 30" B.O.P.E. @ 6:00 AM</u>

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD		RATES		Well <u>STATE 2-14</u>	
Wt. <u>Same as 10/29/85</u> lb/gal.	Penetration _____ ft/hr	No. days this well <u>7</u>	Date <u>10-30-85</u>	Operator <u>Bechtel</u>	
Vis. _____ Sec. _____ PV _____ YP _____	Bit Weight _____ M.lbs	Contractor <u>Cleveland Rig #6</u>		Today's depth <u>1032'</u>	
W.L. _____ cc/30 Sand _____ %	Rotary RPM _____	Yesterday's depth <u>1032'</u>		Drilled <u>0</u> ft. in <u>0</u> hrs.	
pH. _____ Ca+ _____ PPM	Pump psi _____	Last casing <u>20"</u> " Depth <u>1032'</u>		Rotating Hrs. this report = <u>0</u>	
W.C. _____ /32" CL- _____ PPM	Pump SPM _____	Cumulative rotating hours = _____			
Oil _____ % Solids _____ % lb/B°	Pump liners _____				
Temp. _____ °F, Gels = _____ /	Pump output = _____ GPM				
ALK. (Pf) = _____	Ann. Vel. = _____ ft/min.				
K+ion = _____ PPM	Hours Running _____				
N+ion = _____ PPM	Centrifuge = _____				
At Depth = _____ Ft.	Reduced Pump Rate: _____ SPM = _____ psi				

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET D/LD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	
<u>2RD</u>	<u>17 1/2"</u>	<u>SPS E85508</u>		<u>3-16</u>	<u>R.T.</u>							<u>1</u>	<u>N</u>	<u>C</u>

BHA Length: _____ Ft., consist of: MAKING UP

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units
	o			
				Connection gas: Max. _____ units at _____' mud wt. _____ lb./Gal.
				Coordinates: _____ M.D. _____ TVD _____
				Present operations: <u>R.I.H. w/ 17 1/2" BIT</u>

HOURS	Operations last 24 Hours:
<u>22</u>	<u>6-4AM L/D 30" B.O.P.E. + Cut off 30" Csg Flange</u> <u>Cut off 20" Csg and weld on 20" Csg Flange</u> <u>Stack + Nipple up 20" CLASS III B.O.P.E.</u> <u>(RSRA)</u>
<u>1</u>	<u>4-5 FUNCTION TEST B.O.P.E.</u>
<u>1</u>	<u>5-6 R/U FLOOR + M/U B.H.A. / R.I.H.</u>
Daily Cost: \$ _____	
Cumulative Cost: \$ _____	
Daily Mud Cost: \$ <u>N/chg.</u>	
Cum. Mud Cost: \$ <u>N/chg.</u>	

MUD & CHEMICALS USED	
Sack Barite: <u>None</u>	<u>Nipple up B.O.P. = 22 hours</u>
Bulk Barite:	<u>TEST = 1</u>
Gel:	<u>TRIP = 1</u>
Caustic Soda:	<u>TOTAL = 24</u>
Lignite:	

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>9.9</u> lb/gal. Vis. <u>50</u> Sec. <u>8</u> PV <u>22</u> YP W.L. <u>18.3</u> cc/30 Sand <u>1</u> % pH. <u>8.8</u> Ca+ <u>144</u> PPM W.C. <u>2</u> /32" CL- <u>2700</u> PPM Oil <u>NIL</u> % Solids <u>11</u> % <u>34</u> lb/B* Temp. <u>135</u> °F, Gels = <u>14</u> <u>140</u> ALK. (Pf) = <u>TR.</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.				RATES Penetration _____ ft/hr Bit Weight <u>10/15</u> M.lbs Rotary RPM <u>120</u> <u>80</u> Pump psi <u>850</u> <u>100</u> Pump SPM <u>52</u> <u>20</u> Pump liners <u>7-X16</u> Pump output = <u>180</u> GPM Ann. Vel. = <u>13-16</u> ft/min. Hours Running Centrifuge = <u>24</u> Reduced Pump Rate: _____ SPM = _____ psi				Well <u>STATE 2-14</u> No. days this well <u>8</u> Date <u>10/31/85</u> Operator <u>Bechtel</u> Contractor <u>CLEVELAND</u> Rig # <u>6</u> Today's depth <u>1576</u> Yesterday's depth <u>1032</u> Drilled <u>521'-23'</u> ft. in _____ hrs. Last casing <u>20"</u> " Depth <u>1032'</u> Rotating Hrs. this report = <u>13</u> Cumulative rotating hours = _____			
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>2nd</u>	<u>17/2</u>	<u>SPS</u>		<u>3-16</u>	<u>R.T.</u>	<u>1032</u>	<u>1553</u>	<u>521</u>	<u>9 1/2</u>		<u>2</u>	<u>2</u>	<u>I</u>

BHA Length: 851.63 Ft., Consist of: Core Bit - Core Bbl. - 3X8" DC - (8) - 245" HW.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 110,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	MAX Top gas <u>1000 ppm</u> units at _____ Ft. Avg. background gas <u>700 ppm</u> units
	<u>0°</u>		Connection gas: Max. _____ units at _____' mud wt. <u>9.8</u> lb./Gal.
<u>1336</u>	<u>0° 15'</u>	<u>N-51-E</u>	Coordinates: _____ M.D. _____ TVD _____
Present operations: _____			

HOURS	Operations last 24 Hours:
<u>3</u>	<u>6-9 m/u BHA. + R.I.H. 980'</u>
<u>1</u>	<u>9-10 Test B.O.P.E. witnessed + approved by DOG.</u>

Daily Cost: \$ _____	<u>1 1/2</u>	<u>10-11 Drill plug @ 989 - Cement + Shoe @ 1032'</u>
Cumulative Cost: \$ _____	<u>1/2</u>	<u>11-11:30 Circ out, Cmt. Contaminated mud</u>
	<u>5 1/2</u>	<u>11:30-5 Drill F/1032' To 1336'</u>
Daily Mud Cost: \$ <u>1789⁰⁰</u>	<u>1/2</u>	<u>5-5:30 Survey @ 1336'</u>
Cum. Mud Cost: \$ <u>10,672⁰⁰</u>	<u>1 1/2</u>	<u>5:30-7 Drill F/1336' To 1428'</u>
	<u>1/2</u>	<u>7-7:30 Wipe Hole F/1428' To 1032' (No Drag)</u>

MUD & CHEMICALS USED		
Sack Barite:		<u>1</u> <u>10-11 Circ Bottom up @ 1553'</u>
Bulk Barite:		<u>5</u> <u>11-4 P.O.H. 4D @ MDC - P/u + m/u Core Bbl. +</u>
Gel:		<u>m/u + R.I.H. w/ BHA.</u>
Caustic Soda:	<u>1</u>	<u>2</u> <u>4-6 Corring F/1553' To 1576'</u>
Lignite:		
T. Plex	<u>4</u>	
T. Lig	<u>12</u>	
Lime	<u>1</u>	
Bicarb	<u>6</u>	
KCL	<u>16</u>	

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>9.6</u> lb/gal. Vis. <u>36</u> Sec. <u>7</u> PV <u>20</u> YP W.L. <u>20.2</u> cc/30 Sand <u>74</u> % pH. <u>9.6</u> Ca+ <u>264</u> PPM W.C. <u>2</u> /32" CL- <u>2900</u> PPM Oil <u>Nil</u> % Solids <u>9 1/2</u> % <u>26</u> lb/B* Temp. <u>129</u> °F. Gels = <u>14</u> /38 ALK. (Pf) = <u>.03</u>		RATES Penetration <u>38</u> ft/hr Bit Weight <u>10/20</u> M.lbs Rotary RPM <u>120</u> Pump psi <u>1000</u> Pump SPM <u>50</u> Pump liners <u>7" X 16</u> Pump output = <u>450</u> GPM Ann. Vel. = <u>33-39</u> ft/min. Hours Running Centrifuge = <u>24</u> Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well <u>9</u> Date <u>11-1-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>1983'</u> Yesterday's depth <u>1569'</u> Drilled <u>414</u> ft. in _____ hrs. Last casing <u>20"</u> " Depth <u>1032'</u> Rotating Hrs. this report = <u>14</u> Cumulative rotating hours = _____	
K+ion = _____ PPM Na-ion = _____ PPM At Depth = _____ Ft.					

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
1 ^{CH}	9 7/8"	N.C. RC-476	Rock Core	TFA10	N	1553	1577	24	3	8	1	N	C
3	17 1/2"	Reed E-85927	V-11	9-1 1/2	R.T.	1577	1983	406	13	31.2	1	N	C
1 ^{CH}	9 7/8"	N.C. RC-476	Rock Core	TFA10	R-R	1983	—						

BHA Length: 851.63 Ft., Consist of: 9 7/8" Core Head - Core Bbl - 3 X 8" DC - (2) Sub 24 X 5 HWDP.

BHA Wt. In Mud: 110,000 Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	MAX CO2 Trip gas <u>600 PPM</u> units at _____ Ft. Avg. background gas <u>550 PPM</u> units Connection gas: Max. _____ units at _____ ' mud wt. _____ lb./Gal. Coordinates: _____ M.D. _____ TVD _____ Present operations: <u>R.I.H. w/ CORE Assembly</u>
	<u>1646</u> <u>0° 15'</u> <u>N-15-E</u>		

HOURS	Operations last 24 Hours:
1	6-7 CONT Core F/ 1569' To 1577'
3	7-10 P.O.H. w/ CORE - Service Core Bbl - Recovered Core (100% Recovery)

Daily Cost: \$	
Cumulative Cost: \$	<u>1 1/2</u> 10-11:30 m/u Drilling Assembly & R.I.H. T/ 1523'
	<u>1/2</u> 11:30-12 Ream Core Hole F/ 1523' To 1577'
Daily Mud Cost: \$ <u>2702.00</u>	<u>3</u> 12-3 Drill F/ 1577' To 1646'
Cum. Mud Cost: \$ <u>13,374.00</u>	<u>1/2</u> 3-3:30 Survey @ 1646'
	<u>6 1/2</u> 3:30-10 Drill F/ 1646' To 1865'

MUD & CHEMICALS USED	QUANTITY	OPERATIONS
Sack Barite:	<u>3 1/2</u>	10:30-2 Drill F/ 1865' To 1983'
Bulk Barite:	<u>1</u>	2-3 Circ Bottom up F/ Loggers
Gel:	<u>3</u>	3-6 P.O.H. & m/u Core Bbl & R.I.H. @ 6:00 AM
Caustic Soda:		
Lignite:		
T-Plex	<u>6</u>	
T-Lig	<u>8</u>	
NaOH	<u>4</u>	
CaOH	<u>1</u>	
KCL	<u>10</u>	FORMATION = SDSTN - SITSN - CLYSTN.
ProTemp	<u>6</u>	w/ TR. Anhydrite

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>9.6</u> lb/gal. Vis. <u>45</u> Sec. <u>10</u> PV <u>26</u> YP W.L. <u>20.8</u> cc/30 Sand <u>14</u> % pH. <u>10.0</u> Ca+ <u>312</u> PPM W.C. <u>2</u> /32" CL- <u>3700</u> PPM Oil Nil % Solids <u>9 1/2</u> % <u>22</u> lb/B" Temp. <u>130</u> °F, Gels = <u>18</u> <u>140</u> ALK. (Pt) = <u>.03</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>23'</u> ft/hr Bit Weight <u>10/20</u> M.lbs Rotary RPM <u>120</u> Pump psi <u>1000</u> Pump SPM <u>50</u> Pump liners <u>2" x 1 1/2"</u> Pump output = <u>450</u> GPM Ann. Vel. = <u>33-39</u> ft/min. Hours Running Centrifuge = <u>24</u> Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well <u>10</u> Date <u>11-2-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>2360'</u> Yesterday's depth <u>1983'</u> Drilled <u>377'</u> ft. in _____ hrs. Last casing <u>20"</u> " Depth <u>1032'</u> Rotating Hrs. this report = <u>15 1/2</u> Cumulative rotating Hrs = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
#1 CH	9 7/8	Chais RC-476	Rock Core	TFA 1.0	N	1983	2013	30	4	7.5			
3 RE	17 1/2	Reed E-85927	Y-11	2-14 1-18	RT	1983	2360	377	11 1/2	32.7	I	N	C

BHA Length: 723.96 Ft., Consist of: 17 1/2" BIT-MONEL-1x9" DC-17 1/2" STAB-1x9" DC
17 1/2" STAB-Ø - 3x8" DC-Ø - 24x5" HAIDP

BHA Wt. In Mud: 135,000 Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	MAX CO ₂ Trip gas <u>60.0 PPM</u> units at _____ Ft. Avg. background gas <u>40.0 PPM</u> units
<u>2012</u>	<u>1° 0"</u>	<u>N-41-E</u>	Connection gas: Max. _____ units at _____' mud wt. _____ lb./Gal.
<u>2279</u>	<u>1° 45'</u>	<u>N-38-E</u>	Coordinates: _____ M.D. _____ TVD _____
Present operations: <u>Drilling AHEAD F/2360'</u>			

HOURS	Operations last 24 Hours:
<u>1/2</u>	<u>6-6:30 R.I.H. w/ Core Assembly To 1983'</u>
<u>4</u>	<u>6:30-10:30 Core F/1983' To 2013'</u>

Daily Cost: \$	<u>5</u>	<u>10:30-3:30 P.O.H. - Recover Core (Recovery ~100%)</u>
Cumulative Cost: \$		<u>Service Core Bbl & L/D - mlu 17 1/2" Drill Assembly & R.I.H. T/1983'</u>
Daily Mud Cost: \$ <u>3,089.00</u>	<u>1</u>	<u>3:30-4:30 Ream Core Hole F/1983' To 2013'</u>
Cum. Mud Cost: \$ <u>16,463.00</u>	<u>1</u>	<u>4:30-5:30 Drill F/2013' To 2052'</u>
	<u>1/2</u>	<u>5:30-6 Survey @ 2012'</u>

MUD & CHEMICALS USED	<u>9</u>	<u>6-3 Drill F/2052' To 2360'</u>
Sack Barite:	<u>1/2</u>	<u>3-3:30 Survey @ 2279'</u>
Bulk Barite:	<u>1</u>	<u>3:30-4:30 Wipe Hole F/2329' To 1069' (good shape)</u>
Gel:	<u>1 1/2</u>	<u>4:30-6 Drill F/23 9' To 2360' @ 6:00 AM</u>
Caustic Soda:		
Lignite:		
Wellpac	<u>2</u>	
T-Plex	<u>6</u>	<u>24 TOTAL</u>
T-Lig	<u>12</u>	
NaOH	<u>4</u>	
KCL	<u>8</u>	
Sandust	<u>2</u>	
Pro-Temp	<u>6</u>	

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>9.4</u> lb/gal. Vis. <u>40</u> Sec. <u>10</u> PV <u>16</u> YP W.L. <u>17.2</u> cc/30 Sand <u>1/4</u> % pH. <u>9.8</u> Ca+ <u>320</u> PPM W.C. <u>2</u> 132" CL <u>4000</u> PPM Oil <u>Nil</u> % Solids <u>8</u> % <u>22</u> lb/B* Temp. <u>125</u> °F, Gels = <u>8</u> <u>124</u> ALK. (Pf) = <u>.02</u>		RATES Penetration <u>17</u> ft/hr Bit Weight <u>10/20</u> M.lbs Rotary RPM <u>120</u> Pump psi <u>600</u> Pump SPM <u>51</u> Pump liners <u>3" X 16</u> Pump output = <u>467</u> GPM Ann. Vel. = <u>34-41</u> ft/min. Hours Running Centrifuge = <u>24</u> Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>11-3-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland</u> Rig # <u>6</u> Today's depth <u>2551'</u> Yesterday's depth <u>2360'</u> Drilled <u>191</u> ft. in <u>8 1/2</u> hrs. Last casing <u>20"</u> " Depth <u>1232'</u> Rotating Hrs. this report = _____ Cumulative rotating hours = _____	
K-ion = _____ PPM Na-ion = _____ PPM At Depth = _____ Ft.					

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	
<u>3RD</u>	<u>17 1/2</u>	<u>Reed E-85927</u>	<u>y-11</u>	<u>2-14</u> <u>1-18</u>	<u>RT.</u>	<u>1983</u>	<u>2447</u>	<u>464</u>	<u>13 1/2</u>			<u>2</u>	<u>5</u>	<u>I</u>
<u>1ST</u>	<u>9 7/8</u>	<u>Cheis RC-476</u>	<u>Rock Core</u>	<u>TFA-10</u>	<u>N.</u>	<u>2447</u>	<u>2477</u>	<u>30</u>	<u>3 1/2</u>	<u>8.5</u>				
<u>4TH</u>	<u>17 1/2</u>	<u>HTC KH-078</u>	<u>3AJ</u>	<u>1-18</u> <u>2-20</u>	<u>RT.</u>	<u>2477</u>	<u>-</u>					<u>1</u>	<u>N</u>	<u>C</u>

BHA Length: 723.96 Ft., consist of: 17 1/2" BIT-9" NMDG-1X9" DC-17 1/2" STAB-1X9" DC-17 1/2" STAB-1X9" DC-3X8" DC-24X5" HWDP

BHA Wt. In Mud: 145,000 Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>300ppm.</u> units
	<u>1° 30'</u>		<u>N-18-E</u>
<u>2447</u>			Coordinates: _____ M.D. _____ TVD _____
			Present operations: <u>Drilling ahead @ 2551'</u>

HOURS	Operations last 24 Hours:
<u>4 1/2</u>	<u>6-10:30 Drill F/2360' To 2447'</u>
<u>1</u>	<u>10:30-11:30 Circulate F/Loggers @ 2447'</u>
<u>1/2</u>	<u>11:30-12 Survey @ 2447'</u>

Daily Cost: \$	<u>1/2</u>	<u>11:30-12 Survey @ 2447'</u>
Cumulative Cost: \$	<u>5</u>	<u>12-5 P.O.H. (SLM. N/A) - P/U + M/U Core Bbl. + R.I.H. T/2447'</u>
Daily Mud Cost: \$ <u>3937⁰⁰</u>	<u>3 1/2</u>	<u>5-8:30 Core F/2447' To 2477'</u>
Cum. Mud Cost: \$ <u>29400⁰⁰</u>	<u>4 1/2</u>	<u>8:30-1 P.O.H. - Service Core Bbl. - Recover Core (Recovery 100%) - M/U B.H.A. + R.I.H. T/2447'</u>

MUD & CHEMICALS USED	
Sack Barite:	<u>1</u> <u>1-2</u> <u>Ream F/2447' To 2477'</u>
Bulk Barite:	<u>4</u> <u>2-6</u> <u>Drill F/2477' To 2551' @ 6:00 AM</u>
Gel:	<u>3</u>
Caustic Soda:	
Lignite:	

Well Pac	<u>4</u>	<u>24</u>	<u>TOTAL Hours</u>
T-Plex	<u>6</u>		
T-Lig	<u>10</u>		
NaOH	<u>4</u>		
KCL	<u>10</u>		
Prep Temp	<u>6</u>		
T-TROL III	<u>1</u>		

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD		RATES		Well <u>STATE 2-14</u>	
Wt. <u>9.4</u> lb/gal.	Penetration <u>40</u> ft/hr	No. days this well _____ Date <u>11-4-85</u>		Operator <u>Bechtel</u>	
Vis. <u>42</u> Sec. <u>12</u> PV <u>18</u> YP	Bit Weight <u>10</u> M.lbs	Contractor <u>Cleveland Rig #6</u>		Today's depth <u>3010'</u>	
W.L. <u>14.2</u> cc/30 Sand <u>14</u> %	Rotary RPM <u>50</u>	Yesterday's depth <u>2551'</u>		Drilled <u>459'</u> ft. in _____ hrs.	
pH. <u>10.2</u> Ca+ <u>340</u> PPM	Pump psi <u>400</u>	Last casing <u>20"</u> " Depth <u>1032'</u>		Rotating Hrs. this report = <u>15 1/2</u>	
W.C. <u>2</u> 132" CL <u>3600</u> PPM	Pump SPM <u>25</u>	Cumulative rotating hours = _____			
Oil <u>Nil</u> % Solids <u>8</u> % <u>18</u> lb/B*	Pump liners <u>7" X 16"</u>				
Temp. <u>138</u> °F, Gels = <u>6.128</u>	Pump output = <u>243</u> GPM				
ALK. (Pf) = <u>.03</u>	Ann. Vel. = <u>18-21</u> ft/min.				
K+ion = _____ PPM	Hours Running Centrifuge = <u>24</u>				
Na+ion = _____ PPM	Reduced Pump Rate: _____ SPM = _____ psi				
At Depth = _____ Ft.					

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>4</u>	<u>1 7/8"</u>	<u>HTC KH-078</u>	<u>3AJ</u>	<u>1-1/8</u> <u>2-20</u>	<u>R.I.</u>	<u>2477'</u>	<u>2970'</u>	<u>493</u>	<u>17 1/2</u>	<u>28.1</u>	<u>2</u>	<u>2</u>	<u>I</u>
<u>1 RR</u>	<u>9 7/8"</u>	<u>Chais RC-476</u>	<u>ROCK CORE</u>		<u>N</u>	<u>2970'</u>	<u>3010'</u>	<u>40</u>	<u>2</u>	<u>20'</u>	<u>INC</u>		

BHA Length: _____ Ft., Consist of: 9 7/8" Core Bit - 66' x 9" Core Bbl. - 3 x 8" DC - 24 x 5" H.W.D.P.

BHA Wt. in Mud: 130,000 Lb.

Total String Wt.: _____ Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>300 PPM</u> units
	°	'		Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
<u>2771'</u>	<u>10°</u>	<u>15'</u>	<u>1562F</u> <u>N-22-E</u>	Coordinates: _____ M.D. _____ TVD _____
<u>2970'</u>	<u>2°</u>	<u>15'</u>	<u>1480F</u> <u>N-18-E</u>	Present operations: <u>CORE F/ 3010</u>

HOURS	Operations last 24 Hours:
<u>6</u>	<u>6-12 Drill F/ 2551' To 2771'</u>
<u>1/2</u>	<u>12-12:30 Survey @ 2771'</u>

Daily Cost: \$ _____	<u>2</u>	<u>12:30-2:30 Drill F/ 2771' To 2820'</u>
Cumulative Cost: \$ _____	<u>1</u>	<u>2:30-3:30 Circ Bottom-up F/ Logger @ 2820'</u>
Daily Mud Cost: \$ <u>5569.72</u>	<u>5 1/2</u>	<u>3:30-9 Drill F/ 2820' To 2970'</u>
Cum. Mud Cost: \$ <u>20,247.05</u>	<u>1</u>	<u>9-10 Circ Bottom-up F/ Logger @ 2970'</u>
<u>Adjusted</u>	<u>1/2</u>	<u>10-10:30 Survey @ 2970'</u>
	<u>5 1/4</u>	<u>10:30-3:45 P.D.H. - P/U Core Bbl. + Space Out 60' Bbl. R.I.H. To 2970'</u>

MUD & CHEMICALS USED	Quantity	Description
Sack Barite:	<u>1</u>	<u>1/4 3:45-4 Circ @ 2970'</u>
Bulk Barite:	<u>2</u>	<u>4-6 Core F/ 2970' - 3010' w/ Connections @ 2980'</u>
Gel:	<u>71</u>	<u>3008'</u>
Caustic Soda:		
Lignite:	<u>24</u>	<u>TOTAL</u>
Wellpac:	<u>16</u>	
T-Plex:	<u>10</u>	
T-Lig:	<u>7</u>	
NaOH:	<u>2</u>	
CaOH:	<u>1</u>	
KCl:	<u>2</u>	
ProTemp:	<u>7</u>	
T-Trol III:	<u>2</u>	
Al-Ster:	<u>1</u>	
Co-Sol:	<u>1</u>	

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>9.4</u> lb/gal. Vis. <u>38</u> Sec. <u>12</u> PV <u>16</u> YP W.L. <u>12.8</u> cc/30 Sand <u>1/4</u> % pH. <u>8.9</u> Ca+ <u>400</u> PPM W.C. <u>2</u> /32" CL- <u>4100</u> PPM Oil <u>NIL</u> % Solids <u>8</u> % <u>18</u> lb/B" Temp. <u>138</u> °F, Gels = <u>8</u> <u>128</u> ALK. (Pf) = <u>NIL</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.				RATES Penetration _____ ft/hr Bit Weight <u>1020</u> M.lbs Rotary RPM <u>120</u> Pump psi <u>1200</u> Pump SPM <u>34-34</u> Pump liners <u>7" X 16"</u> Pump output = <u>611</u> GPM Ann. Vel. = <u>45-53</u> ft/min. Hours Running Centrifuge = <u>10</u> Reduced Pump Rate: _____ SPM = _____ psi				Well <u>STATE 2-14</u> No. days this well <u>11</u> Date <u>11-5-85</u> Operator <u>Bechtel</u> Contractor <u>CLEVELAND Rig #6</u> Today's depth <u>3030'</u> Yesterday's depth <u>3010'</u> Drilled <u>Beam 10'</u> ft. in <u>1 1/2</u> hrs. Last casing <u>20"</u> " Depth <u>1032'</u> Rotating Hrs. this report = <u>2 1/2</u> Cumulative rotating hours = _____			
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>1 RE</u>	<u>9 7/8</u>	<u>Chais RC-476</u>	<u>Rock Core</u>		<u>N</u>	<u>2970</u>	<u>3030'</u>	<u>60</u>	<u>3</u>	<u>20</u>	<u>1</u>	<u>1</u>	<u>I</u>
<u>4 RE</u>	<u>17 1/2</u>	<u>HTC KH-078</u>	<u>3AJ</u>	<u>1-18 2-20</u>	<u>RT.</u>	<u>2477</u>	<u>3000'</u>	<u>523</u>	<u>19</u>		<u>2</u>	<u>2</u>	<u>I</u>

BHA Length: _____ Ft., Consist of: Logging

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units
	o	.		
				Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
				Coordinates: _____ M.D. _____ TVD _____
				Present operations: <u>Re-run Caliper Log #3</u>
				HOURS Operations last 24 Hours:
				<u>1 6-7 CONT. CORE F/3010' TO 3030'</u>
				<u>4 1/2 7-11:30 P.D.H. - Recover Core (Recovery 95%)</u>

Daily Cost: \$ _____				<u>Service Core Bbl. - M/U 17 1/2" BHA. & R.I.H.</u>
Cumulative Cost: \$ _____				<u>T/ 2970'</u>
Daily Mud Cost: \$ <u>1703.02</u>	<u>1 1/2</u>	<u>11:30-1</u>	<u>17 1/2"</u>	<u>Ream 9 7/8 T/17 1/2" F/2970' TO 3000'</u>
Cum. Mud Cost: \$ <u>21,950.02</u>	<u>2 1/2</u>	<u>2:30-5</u>		<u>P.D.H.</u>
	<u>13</u>	<u>5-6am</u>		<u>Rig up Schlumberger & Run - D.I.L./FDC</u>

MUD & CHEMICALS USED			
Sack Barite:	<u>3</u>		<u>Run Sonic F/3000' T/1032'</u>
Bulk Barite:			<u>Run Caliper (2 Runs N.G.) F/3000'</u>
Gel:	<u>23</u>		<u>T/1032' - Running #3 @ 6:00am</u>
Caustic Soda:			
Lignite:			
Wellpak	<u>4</u>	<u>24</u>	<u>TOTAL</u>
T-Plex	<u>1</u>		
T-Lig	<u>2</u>		
NaOH	<u>1</u>		
KCL	<u>2</u>		<u>Loss of 200 Bbls. mud to Hole & mud cleaners</u>
ProTemp	<u>2</u>		<u>w/ Running E-Logs @ 3000'</u>
T-Troll III	<u>1</u>		
Omni	<u>2</u>		

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD			RATES			Well <u>STATE 2-14</u>		
Wt. <u>9.4</u> lb/gal.	Penetration _____ ft/hr	No. days this well <u>14</u>	Date <u>11-6-85</u>	Vis. <u>40</u> Sec. <u>10</u> PV <u>16</u> YP	Bit Weight _____ M.lbs	Operator <u>Bechtel</u>	Contractor <u>Cleveland Rig #6</u>	Today's depth <u>3030'</u>
W.L. <u>16</u> cc/30 Sand <u>1/2</u> %	Rotary RPM _____	Yesterday's depth <u>3030'</u>	Pump psi <u>1200</u>	pH. <u>8.4</u> Ca+ <u>400</u> PPM	Pump SPM <u>34-34</u>	Drilled _____ ft. in _____ hrs.	Last casing <u>20"</u> " Depth <u>1032'</u>	Rotating Hrs. this report = _____
W.C. <u>2</u> 132" CL- <u>4100</u> PPM	Pump liners <u>7" x 16"</u>	Cumulative rotating hours = _____	Pump output = <u>588</u> GPM	Oil <u>Nil</u> % Solids <u>8</u> % <u>18</u> lb/B*	Ann. Vel. = <u>43-51</u> ft/min.	Hours Running _____	Centrifuge = <u>6</u>	Reduced Pump Rate = _____ SPM = _____ psi
Temp. _____ °F, Gels = <u>6</u> /30	At Depth = _____ Ft.							
ALK. (Pf) = <u>A</u>								
K+ion = _____ PPM								
Na+ion = _____ PPM								

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	

BHA Length: _____ Ft., Consist of: _____

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units
	°	'		

Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
 Coordinates: _____ M.D. _____ TVD _____
 Present operations: CONT. RUNNING GEOPHYSICAL LOGS.

HOURS	Operations last 24 Hours:
<u>2</u>	<u>6-8 RERUN CALIPER (4 ARM) F/3000 TO 1032' (AVG. 19.5")</u>
<u>1/2</u>	<u>8-8:30 Rig Down Schlumberger Wire Line Unit</u>
<u>5 1/2</u>	<u>8:30-2 Rig up USGS wire line unit & Run B.H.T. (200°F) 3 ARM Caliper F/3000 TO 1032' & R/D</u>
<u>1</u>	<u>2-3 m/u BHA. (17 1/2") & R.T.H. T/3000 (NO FILL)</u>
<u>2</u>	<u>3-5 Circ & Cool mud F/E Logs (OUT @ 210°F) Flowline</u>
<u>1 1/2</u>	<u>5-6:30 P.O.H.</u>
<u>11 1/2</u>	<u>6:30-6am Rig up USGS Wire Line Unit & Run Gamma Ray & Spectrum F/3000 TO 1032' - Temp & Spectrum 3-ARM Caliper w/CENT.</u>
<u>24</u>	<u>TOTAL</u>

MUD & CHEMICALS USED

Sack Barite:	
Bulk Barite:	
Gel:	
Caustic Soda:	
Lignite:	
<u>NaOH</u>	<u>4</u>

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD		RATES		Well <u>STATE 2-14</u>	
Wt. <u>9.4</u> lb/gal.	Penetration _____ ft/hr	No. days this well <u>15</u>	Date <u>11-7-85</u>		Operator <u>Bechtel</u>
Vis. <u>40</u> Sec. _____ PV _____ YP _____	Bit Weight _____ M.lbs	Contractor <u>Cleveland Rig #6</u>		Today's depth <u>3030'</u>	
W.L. _____ cc/30 Sand _____ %	Rotary RPM _____	Yesterday's depth <u>3030'</u>		Drilled <u>0</u> ft. in <u>0</u> hrs.	Last casing <u>20"</u> Depth <u>1032'</u>
pH. _____ Ca+ _____ PPM	Pump psi _____	Pump output = _____ GPM		Rotating Hrs. this report = <u>0</u>	
W.C. _____ /32" CL _____ PPM	Pump SPM _____	Ann. Vel. = _____ ft/min.			Cumulative rotating hours = _____
Oil _____ % Solids _____ % lb/B°	Pump liners _____	Hours Running			
Temp. _____ °F, Gels = _____ /	Pump output = _____ GPM	Centrifuge = _____			
ALK. (Pf) = _____	Ann. Vel. = _____ ft/min.	Reduced Pump Rate: _____ SPM = _____ psi			
K+ion = _____ PPM	Hours Running				
Na+ion = _____ PPM	Centrifuge = _____				
At Depth = _____ Ft.	Reduced Pump Rate: _____ SPM = _____ psi				

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	

BHA Length: _____ Ft., Consist of: _____

BHA Wt. In Mud: _____ Lb.

Total String Wt.: _____ Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas units at Ft. Avg. background gas units
			Connection gas: Max. units at mud wt. lb./Gal.
			Coordinates: M.D. TVD
			Present operations: <u>CONT. Logging</u>

HOURS	Operations last 24 Hours:
2	6-8 <u>w/ USGS Wireline Unit - RAN</u> <u>Temp Survey & Caliper</u>
Daily Cost: \$	4 8-12 <u>RUN Acoustic & Televiewer</u>
Cumulative Cost: \$	6 12-6 <u>RUN Temp Survey & Caliper</u>
	9 6-3 <u>RUN SONIC</u>
Daily Mud Cost: \$ <u>283.00</u>	3 3-6 <u>RUN Temp Survey & Caliper</u>
Cum. Mud Cost: \$ <u>22,402.87</u>	<u>369°F in RAT Hole</u>

MUD & CHEMICALS USED	
Sack Barite:	<u>24 HOURS TOTAL</u>
Bulk Barite:	
Gel:	
Caustic Soda:	
Lignite:	

Tommy Aducci

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>9.3</u> lb/gal. Vis. <u>34</u> Sec. <u>8</u> PV <u>10</u> YP W.L. <u>17.6</u> cc/30 Sand <u>14</u> % pH. <u>9.2</u> Ca+ <u>324</u> PPM W.C. <u>2</u> /32" CL <u>3400</u> PPM Oil <u>Nil</u> % Solids <u>7</u> % <u>18</u> lb/B* Temp. <u>158</u> °F, Gels = <u>6.128</u> ALK. (PH) = <u>.03</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>12</u> ft/hr Bit Weight <u>15720</u> M.lbs Rotary RPM <u>120</u> Pump psi <u>1200</u> Pump SPM <u>56</u> Pump liners <u>7" x 16"</u> Pump output = <u>485</u> GPM Ann. Vel. = <u>35-42</u> ft/min. Hours Running Centrifuge = <u>12</u> Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well <u>16</u> Date <u>11-8-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>3028'</u> Yesterday's depth <u>3030'</u> Drilled <u>48'</u> ft. in <u>5 1/2</u> hrs. Last casing <u>20"</u> " Depth <u>1032'</u> Rotating Hrs. this report = <u>7</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>4^{EE}</u>	<u>17 1/2</u>	<u>HTC KHO18</u>	<u>3AJ</u>	<u>1-18</u> <u>2-20</u>	<u>RT</u>	<u>3000</u>	<u>3028'</u>	<u>78</u>	<u>7</u>	<u>11.8</u>	<u>LOST</u>	<u>2</u>	<u>CONCS</u>

BHA Length: 955.34 Ft., Consist of: 17 1/2" Bit-Bit Sub - 9" NMDc - 2 - 1 x 9" DC.
17 1/2" Stab - 1 x 9" DC - 17 1/2" Stab - 1 x 9" DC
2 - 3 x 8" DC - 24 x 5" H.W.D.P.

BHA Wt. In Mud: 40,000 Lb.
 Total String Wt.: 155,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas <u>5000 ppm</u> units at <u>0.02</u> Ft. <u>Methane</u> background gas <u>60 ppm</u> units
			Connection gas: Max. _____ units at _____' mud wt. _____ lb./Gal.
Coordinates: _____ M.D. _____ TVD _____			Present operations: <u>WAIT ON FISHING TOOLS</u>

HOURS	Operations last 24 Hours:
<u>9</u>	<u>6-3 CONT. RUN Temp & Caliper w/ USGS</u> <u>Wire Line Unit & Rig Down</u>
<u>2</u>	<u>3-5 M/U 17 1/2" BIT #485 & B.H.P. - R.I.H</u> <u>To 3000'</u>
<u>1</u>	<u>5-6 Circ & Cool mud - F/21 °F To 180 °F</u>
<u>1 1/2</u>	<u>6-7:30 Ream 9 3/8" Hole F/3000' To 3030'</u> <u>To 17 1/2"</u>
<u>5 1/2</u>	<u>7:30-1 Drill F/ 3030' To 3078'</u>

MUD & CHEMICALS USED	
Sack Barite:	<u>3</u> <u>3-6</u> <u>WAIT ON FISHING TOOLS.</u>
Bulk Barite:	
Gel:	<u>10</u>
Caustic Soda:	
Lignite:	
Well Pac	<u>1</u>

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>9.2</u> lb/gal. Vis. <u>34</u> Sec. <u>6</u> PV <u>9</u> YP W.L. <u>17.0</u> cc/30 Sand <u>1/4</u> % pH. <u>9.5</u> Ca+ <u>208</u> PPM W.C. <u>2</u> /32" CL- <u>2600</u> PPM Oil <u>N1</u> % Solids <u>6 1/2</u> % <u>18</u> lb/B* Temp. <u>147</u> °F, Gels = <u>4</u> /16 ALK. (Pf) = <u>.02</u> K-ion = _____ PPM Na-ion = _____ PPM At Depth = _____ Ft.				RATES Penetration _____ ft/hr Bit Weight <u>115</u> M.lbs Rotary RPM <u>50/60</u> Pump psi <u>1200</u> Pump SPM <u>56</u> Pump liners <u>2" X 1 1/2"</u> Pump output = <u>485</u> GPM Ann. Vel. = <u>35.42</u> ft/min. Hours Running _____ Centrifuge = <u>10</u> Reduced Pump Rate: _____ SPM = _____ psi				Well <u>STATE 2-14</u> No. days this well <u>17</u> Date <u>11-9-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>3078'</u> Yesterday's depth <u>3078'</u> Drilled <u>0</u> ft. in <u>0</u> hrs. Last casing <u>20"</u> " Depth <u>1032'</u> Rotating Hrs. this report = _____ Cumulative rotating hours = _____			
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	
1	1 3/4	N.L. Acme	Magnet	-	N	3078	3078	-	1/4	-	(No Rec)			
1	1 7/2	N.L. Acme	mill	-	N	3018	3078	60	milled	(Ream)				

BHA Length: 862.56 Ft., consist of: 17 1/2" Mill - Junk Sub - 1 X 9" D.C.
3 X 8" DC - 24 X 5" H.W.D.P.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 115,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>300 ppm</u> units
	o		Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
			Coordinates: _____ M.D. _____ TVD _____
			Present operations: <u>Reaming F/ 3018'</u>

HOURS	Operations last 24 Hours:
2	6-8 CONT. WAIT ON FISHING TOOLS
3	8-11 RIGGED UP USGS WIRELINE & RAN SANDIA Temp Survey - 1600'
Daily Cost: \$	
Cumulative Cost: \$	4 11-3 Pick up 1 3/4" Magnet & R.I.H. - WORK OVER JUNK @ 3078' & CHAIN OUT OF Hole (NO RECOVERY)
Daily Mud Cost: \$ <u>302.30</u>	
Cum. Mud Cost: \$ <u>23,033.22</u>	2 1/2 3-5:30 RIGGED UP USGS WIRELINE & RAN SANDIA Temp Survey ^{INT.} ^{FIN} 212°F
MUD & CHEMICALS USED	8 1/2 5:30-2 WAIT ON 1 7/2" JUNK MILL & REVERSE CIRC. BASKET
Sack Barite:	
Bulk Barite:	1 2-3 UNLOAD & MEASURE FISHING TOOLS
Gel: <u>5</u>	1 3-4 M/U 1 7/2" CONCAVE JUNK MILL & JUNK Sub
Caustic Soda:	
Lignite:	2 4-6 R.I.H. w/ JUNK MILL & Sub
WellPac <u>1</u>	
NaOH <u>1</u>	
	24 TOTAL

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>9.3</u> lb/gal. Vis. <u>38</u> Sec. <u>9</u> PV <u>10</u> YP W.L. <u>14.8</u> cc/30 Sand <u>1/4</u> % pH. <u>10.6</u> Ca+ <u>160</u> PPM W.C. <u>2</u> /32" CL <u>2600</u> PPM Oil <u>NIL</u> % Solids <u>7</u> % <u>18</u> lb/B* Temp. _____ °F, Gels = <u>6</u> /32 ALK. (Pt) = <u>.05</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>1.5</u> ft/hr Bit Weight <u>6/8</u> M.lbs Rotary RPM <u>50</u> Pump psi <u>700</u> Pump SPM <u>40-40</u> Pump liners <u>7" X 16"</u> Pump output = <u>692</u> GPM Ann. Vel. = <u>60-75</u> ft/min. Hours Running Centrifuge = <u>12</u> Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well <u>18</u> Date <u>11-10-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>3087</u> Yesterday's depth <u>3078</u> Drilled <u>Milled</u> <u>9'</u> ft. in <u>12</u> hrs. Last casing <u>20"</u> " Depth <u>1032'</u> Rotating Hrs. this report = <u>12</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
	<u>14 3/4</u>	<u>Acme</u>	<u>Globe BASKET</u>	<u>-</u>		<u>3080'</u>	<u>3087'</u>	<u>7</u>	<u>4</u>				
	<u>17 1/2</u>	<u>Acme</u>	<u>JUNK mill</u>	<u>-</u>		<u>3078'</u>	<u>3080'</u>	<u>2</u>	<u>4</u>				<u>Ringed out</u>

BHA Length: 863.77 Ft., Consist of: JUNK BASKET-Ø - JUNK Sub-Ø - 1X9" DC-Ø - 3X8" D.C. -Ø - 24X5" H.W.B.P.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 140,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas units at Ft. Avg. background gas <u>CO2 300.ppm</u> units
	o		Connection gas: Max. units at ' mud wt. lb./Gal.
			Coordinates: M.D. TVD
			Present operations: <u>4/D fish. Tools / m/u 17 1/2" Drill Assembly</u>

HOURS	Operations last 24 Hours:
<u>1</u>	<u>6-7 Repair Leak in Drilling Nipple</u>
<u>2</u>	<u>7-9 Ream w/ JUNK mill F/ 3078' to 3078'</u>
<u>4</u>	<u>9-1 Mill on JUNK F/ 3078' to 3080'</u>
<u>4 1/2</u>	<u>1-5:30 P.O.H. 4/D mill (Center Ringed out smooth w/ cone impression) - P/U JUNK BASKET & JUNK Sub & R.I.H.</u>
<u>2</u>	<u>5:30-7:30 WORK OVER JUNK F/ 3080' to 3083'</u>
<u>5 1/2</u>	<u>7:30-1 P.O.H. - Service JUNK BASKET & Sub - Recovered</u>

MUD & CHEMICALS USED			
Sack Barite:			<u>Dress JUNK BASKET & RERUN</u>
Bulk Barite:	<u>2</u>	<u>1-3</u>	<u>WORK OVER JUNK F/ 3083' to 3087'</u>
Gel:	<u>15</u>	<u>3</u>	<u>3-6 P.O.H. - Service JUNK BASKET & Sub - Recovered</u>
Caustic Soda:			<u>2' FORMATION & NO JUNK - 4/D fishing</u>
Lignite:			<u>Tools @ 6:00AM</u>
<u>HTS</u>	<u>35</u>		
<u>WellPAK</u>	<u>3</u>	<u>24</u>	<u>TOTAL Hours</u>
<u>NRBH</u>	<u>3</u>		
<u>CRDH</u>	<u>1</u>		
<u>Lo-Sol</u>	<u>4</u>		

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>9.3</u> lb/gal. Vis. <u>36</u> Sec. <u>6</u> PV <u>8</u> YP W.L. <u>15.4</u> cc/30 Sand <u>1/4</u> % pH. <u>9.8</u> Ca+ <u>208</u> PPM W.C. <u>2</u> /32" CL- <u>3200</u> PPM Oil <u>Nil</u> % Solids <u>7</u> % <u>18</u> lb/B° Temp. <u>143</u> °F, Gels = <u>4</u> <u>122</u> ALK. (Pf) = <u>.02</u> K-ion = _____ PPM Na-ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>35</u> ft/hr Bit Weight <u>15/20</u> M.lbs Rotary RPM <u>70</u> Pump psi <u>400</u> Pump SPM <u>23</u> Pump liners <u>7"X16"</u> Pump output = <u>200</u> GPM Ann. Vel. = <u>17-22</u> ft/min. Hours Running Centrifuge = <u>12</u> Reduced Pump Rate: _____ SPM = _____ psi		Well: <u>STATE 2-14</u> No. days this well <u>19</u> Date <u>11-11-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>3087</u> Yesterday's depth <u>3167</u> Drilled <u>80</u> ft. in <u>4</u> hrs. Last casing <u>20"</u> " Depth <u>1032'</u> Rotating Hrs. this report = <u>4</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>5</u>	<u>17 1/2</u>	<u>Sec 435538</u>	<u>S-35J</u>	<u>3-1/8</u>	<u>N</u>	<u>3087</u>	<u>3107</u>	<u>20</u>	<u>1/2</u>	<u>40</u>	<u>1</u>	<u>N</u>	<u>C</u>
<u>1</u>	<u>9 7/8</u>	<u>Chris</u>	<u>Rock Core</u>	<u>TFA1.0</u>	<u>RE</u>	<u>3107</u>	<u>3167</u>	<u>60</u>	<u>2 1/2</u>	<u>24</u>			

BHA Length: 955.34 Ft., Consist of: 17 1/2" BIT-BITsub-9" Manel-1x9" DC-17 1/2" Stab
1x9" DC-17 1/2" Stab-1x9" DC-Ø 3x8" DC-
Ø - 24x5" H.W.D.P.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 150,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas units at Ft. Avg. background gas <u>CO2 300.ppm.</u> units
	°		Connection gas: Max. units at mud wt. lb./Gal.
			Coordinates: M.D. TVD
			Present operations: <u>REAMING CORE Hole F/3107'</u>

Operations last 24 Hours:
5 6-11 Load out fish Tools - m/u 17 1/2" BIT #5^{RR}
+ B.H.R. + Repair Drilling Nipple + R.I.H.

Daily Cost: \$ _____
 Cumulative Cost: \$ _____
1 11-12 Ream F/3080' To 3087' + WORK JUNK
Sub
1/2 12-12:30 Drill F/ 3087' To 3107'
 Daily Mud Cost: \$ 1851⁷³
 Cum. Mud Cost: \$ 25,967²⁴
1 12:30-1:30 Circ Bottom-up F/ Loggers
3 1/2 1:30-5 P.D.H. - P/U + SCR Core Bbl + R.I.H.
2 1/2 5-7:30 Core F/ 3107' To 3167' #6

MUD & CHEMICALS USED		HOURS	Operations last 24 Hours:
Sack Barite:	<u>4</u>	<u>6</u>	<u>10-4 Rig up USGS Wireline Unit + Run</u>
Bulk Barite:			<u>Temp Survey</u>
Gel:	<u>57</u>		<u>+ Rig Down</u>
Caustic Soda:		<u>2</u>	<u>4-6 m/u 17 1/2" BIT #5^{RR} + R.I.H. T/ 3107'</u>
Lignite:			
Well Pac	<u>4</u>		
T-Plex	<u>1</u>	<u>24</u>	<u>TOTAL Hours</u>
KCL	<u>3</u>		
Sawdust	<u>10</u>		
Co-Sol	<u>9</u>		

H.T. - H.P. W/L: _____

Field: SALTON

MUD		RATES		Well <u>STATE 2-14</u>	
Wt. <u>9.3</u> lb/gal.	Penetration <u>20</u> ft/hr	No. days this well <u>20</u>	Date <u>11-12-85</u>	Operator <u>Bechtel</u>	
Vis. <u>40</u> Sec. <u>11</u> PV <u>14</u> YP	Bit Weight <u>25</u> M.lbs	Contractor <u>Cleveland Rig #6</u>		Today's depth <u>3470'</u>	
W.L. <u>10.2</u> cc/30 Sand <u>14</u> %	Rotary RPM <u>120</u>	Yesterday's depth <u>3167'</u>		Drilled <u>303</u> ft. in <u>15</u> hrs.	
pH. <u>10.2</u> Ca+ <u>216</u> PPM	Pump psi <u>1300</u>	Last casing <u>20"</u> " Depth <u>1032</u>		Rotating Hrs. this report = <u>17</u>	
W.C. <u>2</u> /32" CL <u>3600</u> PPM	Pump SPM <u>34-34</u>	Cumulative rotating hours = _____		Ann. Vel. = <u>53-66</u> ft/min.	
Oil <u>Nil</u> % Solids <u>6 1/2</u> % <u>18</u> lb/B*	Pump liners <u>7" X 16"</u>	Hours Running <u>24</u>		Centrifuge = _____	
Temp. <u>147</u> °F, Gels = <u>6.134</u>	Pump output = <u>606</u> GPM	Reduced Pump Rate = _____ SPM = _____ psi		At Depth = _____ Ft.	
ALK. (Pf) = <u>0.05</u>	Ann. Vel. = _____ ft/min.	K-ion = _____ PPM		N-ion = _____ PPM	

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>5^{EA}</u>	<u>17 1/2"</u>	<u>Sec 435538</u>	<u>S35J</u>	<u>3-18</u>	<u>N</u>	<u>3167'</u>	<u>3431'</u>	<u>264</u>	<u>13</u>	<u>20.3</u>	<u>5</u>	<u>6</u>	<u>0 1/4</u>
<u>6</u>	<u>17 1/2"</u>	<u>Sec 985668</u>	<u>S4TJ</u>	<u>3-18</u>	<u>RT</u>	<u>3431'</u>	<u>3470'</u>	<u>39</u>	<u>2</u>	<u>19.5</u>	<u>1</u>	<u>N</u>	<u>C</u>

BHA Length: 952.61 Ft., Consist of: 17 1/2" BIT - Monel - 1 X 9" DC - 17 1/2" STAB - 1 X 9" DC - 17 1/2" STAB - 1 X 9" DC - 3 X 8" DC - 24 X 5" H.W.D.P.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 160,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas units at Ft. Avg. background gas <u>CO2 300 PPM</u> units
	°	'		
<u>3192</u>	<u>3°</u>	<u>-</u>	<u>N-15-E</u>	Coordinates: M.D. TVD
<u>3358</u>	<u>3°</u>	<u>30'</u>	<u>N-28-E</u>	Present operations: <u>SURVEY @ 3470'</u>

HOURS	Operations last 24 Hours:
<u>1 1/2</u>	<u>6-7:30 REAM F/ 3107' TO 3167' (CORE HOLE)</u>
<u>2 1/2</u>	<u>7:30-10 DRILL F/ 3167' TO 3232'</u>
Daily Cost: \$	<u>1/2 10-10:30 SURVEY @ 3232' (3192')</u>
Cumulative Cost: \$	<u>7 1/2 10:30-6 DRILL F/ 3232' TO 3398'</u>
	<u>1/2 6-6:30 SURVEY @ 3398' (3358')</u>
Daily Mud Cost: \$ <u>2788³²</u>	<u>3 6:30-9:30 DRILL F/ 3398' TO 3431'</u>
Cum. Mud Cost: \$ <u>28,756¹³</u>	<u>4 1/2 9:30-2 TRIP F/ BIT # 6 @ 3431'</u>
	<u>1/2 2-2:30 REAM F/ 3400' TO 3431'</u>
MUD & CHEMICALS USED	<u>2 2:30-4:30 DRILL F/ 3431' TO 3470'</u>
Sack Barite:	<u>1 1/2 4:30-6 Circ BOTTOM-UP F/Loggers @ 3470'</u>
Bulk Barite:	<u>@ 6:00 AM</u>
Gel: <u>94</u>	
Caustic Soda: <u>24</u>	<u>TOTAL HOURS</u>

Lignite:	
Wellpac	<u>5</u>
T-Plex	<u>2</u>
T-Liq	<u>8</u>
Pro-Temp	<u>2</u>
KCL	<u>2</u>
NaOH	<u>1</u>
CaOH	<u>1</u>
Lo-Sol	<u>2</u>
PeP	<u>6</u>

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>9.3</u> lb/gal. Vis. <u>40</u> Sec. <u>9</u> PV <u>10</u> YP W.L. <u>12.6</u> cc/30 Sand <u>14</u> % pH. <u>10.6</u> Ca+ <u>200</u> PPM W.C. <u>2</u> 1/32" CL- <u>3100</u> PPM Oil Nil % Solids <u>6 1/2</u> % <u>20</u> lb/B* Temp. <u>136</u> °F, Gels = <u>6</u> <u>136</u> ALK. (PH) = <u>.04</u> K-ion = _____ PPM Na-ion = _____ PPM At Depth = _____ Ft.				RATES Penetration <u>9</u> ft/hr Bit Weight <u>25</u> M.lbs Rotary RPM <u>120</u> Pump psi <u>1300</u> Pump SPM <u>34-34</u> Pump liners <u>7" x 16"</u> Pump output = <u>554</u> GPM Ann. Vel. = <u>48-60</u> ft/min. Hours Running Centrifuge = <u>24</u> Reduced Pump Rate: _____ SPM = _____ psi				Well <u>STATE 2-14</u> No. days this well <u>21</u> Date <u>11-13-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>3515'</u> Yesterday's depth <u>3470'</u> Drilled <u>45'</u> ft. in <u>3 1/2</u> hrs. Last casing <u>20"</u> " Depth <u>1032'</u> Rotating Hrs. this report = <u>9</u> Cumulative rotating hours = _____			
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>1^{RR}</u>	<u>9 7/8</u>	<u>N. Meis Core</u>	<u>R 476</u>	<u>TFH 1.0</u>	<u>RR</u>	<u>3470'</u>	<u>3505'</u>	<u>35'</u>	<u>5 1/2</u>	<u>6.3</u>			
<u>6^{RR}</u>	<u>17 1/2</u>	<u>Sec 985668</u>	<u>S4TJ</u>	<u>3-18</u>	<u>R.T.</u>	<u>3505'</u>	<u>3515'</u>	<u>10'</u>	<u>1 1/2</u>	<u>6.6</u>	<u>1</u>	<u>N</u>	<u>C</u>

BHA Length: 952.61 Ft., Consist of: 17 1/2" Bit - 9" Monel - 1x9" DC - 17 1/2" Stab - 1x9" DC - 17 1/2" Stab - 1x9" DC - (X) - 3x8" DC - (X) - 24x5" H.W.D.P.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 160,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2 300ppm</u> units
	o		Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
<u>3470'</u>	<u>3° 45'</u>	<u>N-33-E</u>	Coordinates: _____ M.D. _____ TVD _____
	<u>Temp 164°F</u>		Present operations: <u>Circ F/E-Log.s @ 3515'</u>

HOURS	Operations last 24 Hours:
<u>1/2</u>	<u>6-6:30 Survey @ 3470'</u>
<u>2 1/2</u>	<u>6:30-9 P.D.H. F/CORE Bbl.</u>

Daily Cost: \$ _____	<u>2</u>	<u>9-11 P/U & R.I.H. w/ Core Bbl T/ 3470'</u>
Cumulative Cost: \$ _____	<u>5 1/2</u>	<u>11-4:30 Core F/3470' To 3505' (Jammed) #7</u>
Daily Mud Cost: \$ <u>1958⁵⁵</u>	<u>2 1/2</u>	<u>4:30-7 P.D.H. & Service Core Bbl & Recover Core (34' 97%)</u>
Cum. Mud Cost: \$ <u>30614⁶⁸</u>	<u>5 1/2</u>	<u>7-12:30 Rig up USGS Wireline Unit & RAN Temp Survey & Rig Down. MAX 268°F</u>

MUD & CHEMICALS USED	QUANTITY	OPERATIONS
Sack Barite:	<u>2</u>	<u>12:30-2:30 M/U 17 1/2" Drill Assy & R.I.H. T/ 3470'</u>
Bulk Barite:	<u>2</u>	<u>2:30-4:30 Ream 9 7/8" Core Hole T/ 17 1/2" F/ 3470' To 3505'</u>
Gel:	<u>1 1/2</u>	<u>4:30-6:00 Drill F/ 3505' To 3515' @ 6:00 AM.</u>

Caustic Soda:		
Lignite:		
T-Plex	<u>6</u>	<u>24 TOTAL HOURS</u>
T-Lig	<u>16</u>	
T-Trol	<u>1</u>	
Pro Temp	<u>5</u>	
KCL	<u>2</u>	
NaOH	<u>3</u>	
CaOH	<u>3</u>	

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD		RATES		Well <u>STATE 2-14</u>	
Wt. _____ lb/gal.	Penetration _____ ft/hr	No. days this well <u>22</u> Date <u>11-14-85</u>		Operator <u>Bechtel</u>	
Vis. _____ Sec. _____ PV _____ YP _____	Bit Weight _____ M.lbs	Rotary RPM _____		Contractor <u>Cleveland Rig #6</u>	
W.L. _____ cc/30 Sand _____ %	Pump psi _____	Pump SPM _____		Today's depth <u>3515'</u>	
pH. _____ Ca+ _____ PPM	Pump liners <u>7" X 16"</u>	Pump output = _____ GPM		Yesterday's depth <u>3515'</u>	
W.C. _____ /32" CL _____ PPM	Ann. Vel. = _____ ft/min.	Hours Running _____		Drilled _____ ft. in _____ hrs.	
Oil _____ % Solids _____ % lb/B*	Hours Running _____	Centrifuge = _____		Last casing <u>20"</u> " Depth <u>1032'</u>	
Temp. _____ °F, Gels = _____ / _____	Reduced Pump Rate: _____ SPM = _____ psi	Rotating Hrs. this report = _____		Cumulative rotating hours = _____	
ALK. (Pf) = _____					
K+ion = _____ PPM					
Na+ion = _____ PPM					
At Depth = _____ Ft.					

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	
<u>6^{RA}</u>	<u>17 1/2</u>	<u>Sec 985668</u>	<u>SHTJ</u>	<u>3-18</u>	<u>R.T.</u>	<u>3515'</u>	<u>-</u>	<u>-</u>	<u>Circ.</u>					

BHA Length: 952.61 Ft., Consist of: 17 1/2" BIT - 9" Monel - 1x9" DC - 17 1/2" STAB - 1x9" DC - 17 1/2" STAB - 1x9" DC - 3x8" DC - 24x5" H.W.D.P.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 160,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units
	°	'		
<u>3515'</u>	<u>4°</u>	<u>15'</u>	<u>N-31-E</u>	Coordinates: _____ M.D. _____ TVD _____
	Temp <u>164°F</u>			Present operations: <u>R.I.H. T/COND mud F/Csg.</u>

HOURS	Operations last 24 Hours:
<u>2</u>	<u>6-8 Circ & Cond mud F/E-LOGS</u>
<u>1/2</u>	<u>8-8:30 Survey @ 3515'</u>
<u>1 1/2</u>	<u>8:30-10 P.D.H.</u>
<u>14</u>	<u>10-12 Rig up Schlumberger & Run D.T.L. - FDC/CNL/GR - Sonic & G.R.</u>
	<u>RAN 4 ARM CALIPER - Temp 235°F</u>
	<u>Rig Down Schlumberger FIN 276°F</u>
<u>5 1/2</u>	<u>12-5:30 Rig up USGS Wireline Unit & Run Temp Survey & Rig Down</u>
<u>1/2</u>	<u>5:30-6 M/U 17 1/2" BIT #6^{RS} & Drill Assembly & R.I.H. @ 6:00 AM</u>
<u>24</u>	<u>TOTAL HOURS</u>

MUD & CHEMICALS USED	
Sack Barite:	
Bulk Barite:	
Gel:	
Caustic Soda:	
Lignite:	
T-Plex	<u>6</u>
P-Temp	<u>3</u>

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD		RATES		Well <u>STATE 2-14</u>	
Wt. _____ lb/gal.	Penetration _____ ft/hr	No. days this well _____ Date <u>11-15-85</u>		Operator <u>Bechtel</u>	
Vis. _____ Sec. _____ PV _____ YP _____	Bit Weight _____ M.lbs	Rotary RPM _____		Contractor <u>CLEVELAND Rig #6</u>	
W.L. _____ cc/30 Sand _____ %	Pump psi _____	Pump SPM _____		Today's depth <u>3515'</u>	
pH. _____ Ca+ _____ PPM	Pump liners _____	Pump output = _____ GPM		Yesterday's depth <u>3515'</u>	
W.C. _____ /32" CL- _____ PPM	Pump output = _____ GPM	Ann. Vel. = _____ ft/min.		Drilled _____ ft. in _____ hrs.	
Oil _____ % Solids _____ % lb/B*	Hours Running _____	Centrifuge = _____		Last casing <u>13 3/8"</u> " Depth <u>3515'</u>	
Temp. _____ °F, Gels = _____ / _____	Reduced Pump Rate: _____ SPM = _____ psi	Rotating Hrs. this report = _____		Cumulative rotating hours = _____	
ALK. (Pf) = _____					
K+ion = _____ PPM					
Na+ion = _____ PPM					
At Depth = _____ Ft.					

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	

BHA Length: _____ Ft., Consist of: _____

MULTI ShoT = M.D. 3501 3° 30' N-38° E TVD=3499.92 CO-ORDINATES
N-43.03 E 20.93

BHA Wt. In Mud: _____ Lb.

Total String Wt.: _____ Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units	
			Connection gas: Max. _____ units at _____' mud wt. _____ lb./Gal.	
			Coordinates: _____ M.D. _____ TVD _____	
			Present operations: _____	
HOURS			Operations last 24 Hours:	
			1 6-7 CONT R.I.H. T/3515'	
			2 1/2 7-9:30 Circ & Cond Mud F/13 3/8" Csg.	
			3 9:30-12:30 Deep MULTI ShoT & P.D.H.	
Daily Cost: \$			10 12:30-10:30 Rig up & RUN 12 JTS=472.66' of 13 3/8" 72" N-80 R-3 BT&C Csg & 70 JTS = 3041.33' of 13 3/8" 68" C-95 R-3 BT&C Csg. w/Howco Super Seal Flat shoe @ 3515' - Howco Super Seal Flat collar @ 3474' - (25 centralizers) - Ripped up CMT Head & Rig Down Tongs & P/U Machine	
Cumulative Cost: \$			4 1/2 10:30-3 Circ Csg. F/CMT.	
Daily Mud Cost: \$ <u>85.00</u>			3 3-6 w/Howco - pumped Preflush = 100 gal. H ₂ O - 500 Gal. Flowcheck - 100 gal. H ₂ O - Deeped BotTampLug - Lead = 3570 gal "G" + Perlite 1:1 + 40% Silica Flour + 3% Gel + 0.65% BLOFR-2 + 0.5% Halad-22A	
Cum. Mud Cost: \$ <u>31,617.84</u>			Tail = 500 gal "G" + 40% Silica Flour + 1% CFR-2 + 0.75% Halad-22A - Deeped Top plug & Displaced w/ 2950 gal of mud - Bumped plug w/ 1400 psi. (Flat Hold) No Returns - (Lost All Returns @ 2200 gal Displaced) C.I.P. @ 6:00 AM	
MUD & CHEMICALS USED			24 TOTAL HOURS	
Sack Barite:				
Bulk Barite:				
Gel:				
Caustic Soda:				
Lignite:				

H.T. - H.P. W/L: _____

Field: SALTON SEA

<p style="text-align: center;">MUD</p> <p>Wt. _____ lb/gal. Vis. _____ Sec. _____ PV _____ YP _____ W.L. _____ cc/30 Sand _____ % pH. _____ Ca+ _____ PPM W.C. _____ /32" CL _____ PPM Oil _____ % Solids _____ % lb/B" Temp. _____ °F, Gels = _____ / _____ ALK. (Pf) = _____ K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.</p>	<p style="text-align: center;">RATES</p> <p>Penetration _____ ft/hr Bit Weight _____ M.lbs Rotary RPM _____ Pump psi _____ Pump SPM _____ Pump liners _____ Pump output = _____ GPM Ann. Vel. = _____ ft/min. Hours Running _____ Centrifuge = _____ Reduced Pump Rate: _____ SPM = _____ psi</p>	<p>Well <u>STATE 2-14</u> No. days this well <u>24</u> Date <u>11-16-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>3515'</u> Yesterday's depth <u>3515'</u> Drilled <u>0</u> ft. in <u>0</u> hrs. Last casing <u>13 3/8"</u> " Depth <u>3515'</u> Rotating Hrs. this report = _____ Cumulative rotating hours = _____</p>
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	

BHA Length: _____ Ft., Consist of: _____

BHA Wt. In Mud: _____ Lb.

Total String Wt.: _____ Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas units at Ft. Avg. background gas units
	o	.		

Connection gas: Max. units at ' mud wt. lb./Gal.
 Coordinates: M.D. TVD
 Present operations:

HOURS	Operations last 24 Hours:
4 1/2	6-10:30 W.D.C.
6 1/2	10:30-5: Release 13 3/8" Casing + 4" D 20" B.O.P.S. + Cut off 13 3/8" Csg.

Daily Cost: \$	
Cumulative Cost: \$	1 5-6 P/U + RUN 180' 1" Pipe F/Top Job
Daily Mud Cost: \$	1 6-7 w/ Howco mix + Pump 200 GAT of G" + Peelite 1:1 + 40% Silica flour + 3% Gel
Cum. Mud Cost: \$	+ .65% CER-2 - Good RETURNS / surface C.I.P. @ 7:00 P.M.

MUD & CHEMICALS USED	HOURS	Operations last 24 Hours:
Sack Barite:	7 1/2	9-4:30 Cut off 20" Csg Flange + 13 3/8" Csg.
Bulk Barite:		+ Weld on 13 3/8" 900 series SDW
Gel:		wellhead
Caustic Soda:	4:30-6	STACK B.O.P.S. (13 3/8" 900 series)
Lignite:		

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>9.2</u> lb/gal. Vis. <u>32</u> Sec. <u>9</u> PV <u>7</u> YP W.L. <u>16.8</u> cc/30 Sand <u>1/4</u> % pH. <u>9.6</u> Ca+ <u>120</u> PPM W.C. <u>2</u> /32" CL- <u>2600</u> PPM Oil <u>Nil</u> % Solids <u>6</u> % <u>16</u> lb/B* Temp. _____ °F, Gels = <u>418</u> ALK. (Pf) = <u>.10</u> K-ion = _____ PPM Na-ion = _____ PPM At Depth = _____ Ft.				RATES Penetration <u>30</u> ft/hr Bit Weight <u>10</u> M.lbs Rotary RPM <u>120</u> Pump psi <u>1100</u> Pump SPM <u>50</u> Pump liners <u>7" X 16"</u> Pump output = <u>433</u> GPM Ann. Vel. = <u>85-154</u> ft/min. Hours Running Centrifuge = <u>4</u> Reduced Pump Rate: _____ SPM = _____ psi				Well <u>STATE 2-14</u> No. days this well <u>25</u> Date <u>11-17-85</u> Operator <u>Bechtel</u> Contractor <u>CLEVELAND Rig #6</u> Today's depth <u>3530'</u> Yesterday's depth <u>3515'</u> Drilled <u>15'</u> ft. in _____ hrs. Last casing <u>1338</u> " Depth <u>3515'</u> Rotating Hrs. this report = <u>1 1/2</u> Cumulative rotating hours = _____			
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
7	12 1/4	Sec EK2792	FDT	2-13 1-13	R.T.	3474	3515'	41	1	<u>CMT Shoe</u>	I	N	C
7	12 1/4	Sec EK2792	FDT	2-13 1-13	R.T.	3515'	3530'	15	1/2	30'	I	N	C

BHA Length: _____ Ft., consist of: 12 1/4" BIT-Bit Sub-Manel - 3 X 9" DC.
⊗ - 3 X 8" DC - ⊗ - 24 X 5" H.W.D.P.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units	
			Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.	Coordinates: _____ M.D. _____ TVD _____
			Present operations: <u>Circ @ 3530 F/C.B.L.</u>	

HOURS	Operations last 24 Hours:
18	6-12 midnt <u>CONT STACK ROPE & Nipple up. (1338 900 Series)</u>
2 1/2	12-2:30 <u>R/U Floor & m/u 12 1/4" Bit & R.I.H. T/3474'</u>
1	2:30-3:30 <u>Circ & Cool mud @ 3474'</u>
1/2	3:30-4 <u>TEST B.O.P.E. T/1500 PSI - witness & approved by C.D.O.G.</u>
1 1/2	4-5:30 <u>Drill out float @ 3474' - CMT-Shoe @ 3515' & Drill F/3515' to 3530'</u>
1/2	5:30-6 <u>Circ & Cond mud F/ C.B.L @ 3530'</u>

MUD & CHEMICALS USED	
Sack Barite:	
Bulk Barite:	
Gel:	
Caustic Soda:	
Lignite:	<u>24 TOTAL Hours.</u>
Bicarb	<u>12</u>
ProTemp	<u>6</u>

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>9.2</u> lb/gal. Vis. <u>39</u> Sec. <u>12</u> PV <u>10</u> YP W.L. <u>17.4</u> cc/30 Sand <u>14</u> % pH. <u>10.0</u> Ca+ <u>96</u> PPM W.C. <u>2</u> /32" CL- <u>2900</u> PPM Oil <u>Nil</u> % Solids <u>6 1/2</u> % <u>18</u> lb/B° Temp. _____ °F, Gels = <u>4</u> <u>138</u> ALK. (Pf) = <u>.12</u> K-ion = _____ PPM Na-ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>16</u> ft/hr Bit Weight <u>20/25</u> M.lbs Rotary RPM <u>90/120</u> Pump psi <u>1500</u> Pump SPM <u>40</u> Pump liners <u>7" X 16</u> Pump output = <u>346</u> GPM Ann. Vel. = <u>68-123</u> ft/min. Hours Running Centrifuge = <u>16</u> Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well <u>26</u> Date <u>11-18-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>3650</u> Yesterday's depth <u>3530</u> Drilled <u>120</u> ft. in <u>7</u> hrs. Last casing <u>13 3/8"</u> " Depth <u>3515'</u> Rotating Hrs. this report = <u>7</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>8</u>	<u>12 1/4</u>	<u>Varel 6142</u>	<u>L-114</u>	<u>1-11</u> <u>2-12</u>	<u>N</u>	<u>3530</u>	<u>3650</u>	<u>120</u>	<u>7</u>	<u>17.1</u>	<u>1</u>	<u>N</u>	<u>C</u>

BHA Length: 957.60 Ft., Consist of: 12 1/4" BIT - BIT Sub - @ - 9" Monel - 1x9" DC - STab
1x9" DC - STab - 1x9" DC - @ - 3x8" DC - @
24x5" H.W.D.P.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 160,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2 300PPM</u> units Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal. Coordinates: _____ M.D. _____ TVD _____ Present operations: <u>Drilling Ahead F/ 3650'</u>
	o		
		<u>None</u>	

HOURS	Operations last 24 Hours:
<u>1</u>	<u>6-7 CONT. Circ & Cond. Mud F/ C.B.L. @ 3530'</u>
<u>8 1/2</u>	<u>7-3:30 P.O.H. - Magnetic particle inspection of all B.H.A. & Subs.</u>
<u>2 1/2</u>	<u>3:30-6 Rig up Schlumberger & Run C.B.L. F/ 3515' To Surface</u>
<u>4 1/2</u>	<u>6-10:30 4D Monel & P/4 new monel - m/l 12 1/4" BIT & 60'-90' B.H.A. & R.I.H. T/ 3530'</u>
<u>1/2</u>	<u>10:30-11 Break Circulation</u>

Daily Cost: \$ _____	
Cumulative Cost: \$ _____	
Daily Mud Cost: \$ <u>85.00</u>	
Cum. Mud Cost: \$ <u>32,720.50</u>	
MUD & CHEMICALS USED	<u>7 11-6 Drill F/ 3530' To 3650' @ 6:00 AM</u>
Sack Barite:	
Bulk Barite:	<u>None</u>
Gel:	<u>Used</u>
Caustic Soda:	
Lignite:	
	<u>Losses @ 7 Bbls p/hr.</u>

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>9.4</u> lb/gal. Vis. <u>40</u> Sec. <u>12</u> PV <u>10</u> YP W.L. <u>14.0</u> cc/30 Sand <u>14</u> % pH. <u>9.8</u> Ca+ <u>224</u> PPM W.C. <u>2</u> 132" CL- <u>2800</u> PPM Oil <u>Nil</u> % Solids <u>6 1/2</u> % lb/B* Temp. <u>155</u> °F, Gels = <u>6.138</u> ALK. (Pf) = <u>.04</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>18.6</u> ft/hr Bit Weight <u>20/25</u> M.lbs Rotary RPM <u>120</u> Pump psi <u>1500</u> Pump SPM <u>40</u> Pump liners <u>7"X16"</u> Pump output = _____ GPM Ann. Vel. = <u>68-123</u> ft/min. Hours Running Centrifuge = <u>20</u> Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well <u>27</u> Date <u>11-19-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>3790'</u> Yesterday's depth <u>3650'</u> Drilled <u>140'</u> ft. in <u>7 1/2</u> hrs. Last casing <u>13 3/8"</u> Depth <u>3515'</u> Rotating Hrs. this report = <u>7 1/2</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
8	12 1/4	VAAR1 6142	L-114	2-1 1/2	N	3530'	3790'	260'	14 1/2	17.9	6	6	I

BHA Length: 957.60 Ft., Consist of: 12 1/4" BIT-BIT Sub-⊗ - Maxwell - 1X9" DC-STAB
1X9" DC-STAB - 1X9" DC-⊗ - 3XB" DC-⊗ -
24X5" HANDP.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 165,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>C02 300ppm</u> units Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal. Coordinates: _____ M.D. _____ TVD _____ Present operations: <u>Rig Down W.L.U. & M/U Core assembly</u>
	°		
<u>3663'</u>	<u>3° 30'</u>	<u>N-33-E</u>	Temp <u>196°F</u> Present operations: _____
<u>3740'</u>	<u>3° 30'</u>	<u>N-38-E</u>	
	Temp		

HOURS	Operations last 24 Hours:
<u>2</u>	<u>6-8 CONT Drill 12 1/4" Hole F/ 3650' To 3703'</u>
<u>1/2</u>	<u>8-8:30 Survey @ 3663'</u>
<u>5</u>	<u>8:30-1:30 Drill F/ 3703' To 3784'</u>
<u>1</u>	<u>1:30-2:30 Circ F/ Logger @ 3784'</u>
<u>1/2</u>	<u>2:30-3 Drill F/ 3784' To 3790'</u>
<u>1</u>	<u>3-4 Circ F/ Logger @ 3790'</u>
<u>1/2</u>	<u>4-4:30 Survey @ 3740'</u>
<u>1 1/2</u>	<u>4:30-6 P.O.H.</u>
<u>12</u>	<u>6-6 Rig up USGS wireline unit & Run Temp Survey @ 6:00 AM 400°F</u>
	<u>24 TOTAL HOURS</u>

MUD & CHEMICALS USED	
Sack Barite:	
Bulk Barite:	
Gel:	<u>8</u>
Caustic Soda:	
Lignite:	
T-Gel	<u>30</u>
T-Lig	<u>8</u>
T-Teal III	<u>4</u>
WELDAC	<u>2</u>
Pro Temp	<u>2</u>
KCL	<u>2</u>
Naoh	<u>2</u>
CaOH	<u>2</u>

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>9.3</u> lb/gal. Vis. <u>37</u> Sec. <u>12</u> PV <u>10</u> YP W.L. <u>10.1</u> cc/30 Sand <u>14</u> % pH. <u>10.1</u> Ca+ <u>320</u> PPM W.C. <u>2</u> /32" CL <u>3500</u> PPM Oil <u>NIL</u> % Solids <u>7</u> % <u>18</u> lb/B° Temp. _____ °F, Gels = <u>8</u> <u>128</u> ALK. (Pf) = <u>.03</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>19</u> ft/hr Bit Weight <u>80.25</u> M.lbs Rotary RPM <u>120</u> Pump psi <u>1100</u> Pump SPM <u>20</u> Pump liners _____" Pump output = <u>246</u> GPM Ann. Vel. = <u>68.23</u> ft/min. Hours Running Centrifuge = <u>24</u> Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well <u>28</u> Date <u>11-20-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>4007'</u> Yesterday's depth <u>3790'</u> Drilled <u>217'</u> ft. in <u>12 1/2</u> hrs. Last casing <u>1378</u> " Depth <u>3515'</u> Rotating Hrs. this report = <u>12 1/2</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
8	12 1/4	Varel	L-114	1 1/4 2 1/2	N		3790'				5	2	I
2 nd	9 7/8	M.C. 0112308	RC-476	1 1/4 1 1/2	N	3790'	3850'	60'	5 1/2				
9	12 1/4	Varel 6120	L-114	1 1/4 2 1/2	N	3850'	4007'	157'	7				INC

BHA Length: 957.60 Ft., consist of: 12 1/4 BIT - BIT sub-D - Monel - 1x9" DC - 12 1/4 STAB
1x9" DC - 12 1/4 STAB - 1x9" DC - 3x8" DC - 24x5" H.W.D.P.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 165,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2 300 ppm</u> units
	o	.		Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
<u>3921</u>	<u>3°</u>	<u>45</u>	<u>N-31-E</u>	Coordinates: _____ M.D. _____ TVD _____
				Present operations: <u>P.O.H. F/ CORE</u>

HOURS	Operations last 24 Hours:
<u>2 1/2</u>	<u>6-8:30 P/U & R.I.H. Core Bbl. T/ 3790'</u>
<u>5 1/2</u>	<u>8:30-2 CUT Core *8 F/ 3790' To 3850'</u>

Daily Cost: \$ _____
 Cumulative Cost: \$ _____
2 2-4 P.O.H.
1 4-5 Service Core Bbl. & Recover 56.6 CORE
= 94 % Recovery

Daily Mud Cost: \$ 2,525.42
 Cum. Mud Cost: \$ 37,566.21
2 1/2 5-7:30 M/U BIT #9 & R.I.H.
1 7:30-8:30 Ream 3790' To 3850'
3 8:30-11:30 Drill F/ 3850' To 3921'

MUD & CHEMICALS USED
1/2 11:30-12:00 Survey @ 3921'
 Sack Barite: 4 12-4 Drill F/ 3921' To 4007'
 Bulk Barite: 1 1/2 4-5:30 Circ Bottom-up F/ Logger
 Gel: 1/2 5:30-6 P.O.H. F/ CORE @ 6:00 AM
 Caustic Soda:
 Lignite:

T-Lig	<u>12</u>	<u>24</u>	<u>TOTAL HOURS</u>
T-Plex	<u>4</u>		
T-Teol III	<u>4</u>		
PaoTemp	<u>3</u>		
KCL	<u>6</u>		
NaOH	<u>3</u>		
CaOH	<u>3</u>		

H.T. - H.P. W/L: _____

Field: SALTON SEA

Wt. <u>9.4</u> MUD lb/gal. Vis. <u>37</u> Sec. <u>13</u> PV <u>12</u> YP W.L. <u>18.2</u> cc/30 Sand <u>14</u> % pH. <u>9.5</u> Ca+ <u>296</u> PPM W.C. <u>2</u> /32" CL- <u>3400</u> PPM Oil <u>NIL</u> % Solids <u>8</u> % <u>16</u> lb/B* Temp. _____ °F, Gels = <u>4.134</u> ALK. (Pf) = <u>.05</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>20</u> ft/hr Bit Weight <u>20/25</u> M.lbs Rotary RPM <u>120</u> Pump psi <u>1250</u> Pump SPM <u>48</u> Pump liners <u>7" X 16"</u> Pump output = <u>415</u> GPM Ann. Vel. = <u>81-147</u> ft/min. Hours Running Centrifuge = <u>24</u> Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>11-21-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>4195'</u> Yesterday's depth <u>4007'</u> Drilled <u>188'</u> ft. in <u>12</u> hrs. Last casing <u>13 3/8"</u> " Depth <u>3515'</u> Rotating Hrs. this report = <u>12</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
9	12 1/4"	Varel 6120	L-114	2-12 1-11	N	3850'	4007'	157	7	22.4	4	4	I
2 ^{CH}	9 7/8"	N.C. 0112308	RC-476	TFA-10	N	4007'	4067'	60	5	12			
10	12 1/4"	Reed 146812	11J	1 1/2-12	R.T.	4067'	4195'	128	6	21.3	1	N	C

BHA Length: 957.60 Ft., Consist of: 12 1/4" BIT - Bit Sub-⊗ - Manel - 12 1/4" Stab - 1 X 9" DC. - 12 1/4" Stab - 2 X 9" DC. - ⊗ - 3 X 8" DC. - ⊗ - 24 X 5" HWDP

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 165,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2 300 ppm</u> units Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal. Coordinates: _____ M.D. _____ TVD _____ Present operations: <u>Drill F/ 4195'</u>
	°	'		
4067'	3°	45'	N-26-E	

HOURS	Operations last 24 Hours:
1/2	6-6:30 CONT. P.O.H.
3 1/2	6:30-10 P/U & R.I.H. w/ Core Bbl.
5	10-3 CUT CORE #9 F/4007' TO 4067'
3	3-6 P.O.H. w/ CORE #9
1	6-7 RECOVER CORE #9 (100%) & SERVICE CORE BBL.
3 1/2	7-10:30 M/U BIT #10 & CHG B.H.A. (30'-60') & R.I.H. T/ 4007'
1	10:30-11:30 REAM CORE HOLE F/4007' TO 4067'
1 1/2	11:30-1 DRILL F/4067' TO 4107'
1/2	1-1:30 SURVEY @ 4067'
4 1/2	1:30-6 DRILL F/4107' TO 4195' @ 6:00 AM

MUD & CHEMICALS USED		
Sack Barite:		4
Bulk Barite:		
Gel:		
Caustic Soda:		
Lignite:		
T-Gel	15	24 TOTAL HOURS
T-Plex	4	
T-Teal III	4	
Pro-Temp	2	
KCL	2	
SANDUST	6	
NaOH	2	

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>9.4</u> lb/gal. Vis. <u>35</u> Sec. <u>10</u> PV <u>10</u> YP W.L. <u>12.0</u> cc/30 Sand <u>1/4</u> % pH. <u>10.6</u> Ca+ <u>232</u> PPM W.C. <u>2</u> /32" CL- <u>3200</u> PPM Oil <u>NIL</u> % Solids <u>2 1/2</u> % <u>18</u> lb/B° Temp. _____ °F, Gels = <u>2</u> /14 ALK. (Pf) = <u>.11</u>		RATES Penetration <u>18</u> ft/hr Bit Weight <u>10/15</u> M.lbs Rotary RPM <u>60</u> Pump psi <u>375</u> Pump SPM <u>20</u> Pump liners <u>7" X16</u> Pump output = <u>173</u> GPM Ann. Vel. = <u>34</u> ft/min. Hours Running Centrifuge = <u>24</u> Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>11-22-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>4334'</u> Yesterday's depth <u>4195'</u> Drilled <u>139'</u> ft. in <u>10 1/2</u> hrs. Last casing <u>13 3/8"</u> " Depth <u>3515'</u> Rotating Hrs. this report = <u>10 1/2</u> Cumulative rotating hours = _____	
K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.					

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
10	12 1/4	Reed 146812	11 J	11-12-16	R.T.	4067'	4241'	174	9	19.3	5	7	I
2 nd	9 7/8	N.C. 0112308	RC-476	—	N	4241'	4334'	93	7 1/2	12.4			Run-in
11	12 1/4	Vaerel			N	4334'	—	—	—	—			1 NC

BHA Length: 957.60 Ft., Consist of: No. Chg F/ 11-21-85

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 168,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CD2 300 PPM</u> units
	o			Connection gas: Max. _____ units at _____ ' mud wt. _____ lb./Gal.
<u>4067'</u>	<u>3°</u>	<u>45'</u>	<u>N-30-E</u>	Coordinates: _____ M.D. _____ TVD _____
				Present operations: <u>R.I.H. w/ BIT #11</u>

HOURS	Operations last 24 Hours:
1/2	6-6:30 Drill F/ 4195' To 4202'
1/2	6:30-7 Survey @ 4162'
2 1/2	7-9:30 Drill F/ 4202' To 4241'
1	9:30-10:30 Circ Bottom-up @ 4241'
4	10:30-2:30 P.O.H. - P/U & R.I.H. Core Bbl. T/ 4241'
4 1/2	2:30-7 Cut Core #10 F/ 4241' To 4301' = 60'
4 1/2	7-11:30 P.O.H. - Service Core Bbl. & Recover Core = 58.6' (97% Recovery) - Re-run Core Bbl. T/ 4301'
3	11:30-2:30 Cut Core #11 F/ 4301' To 4334' = 33'
2	2:30-4:30 P.O.H. w/ Core #11
1	4:30-5:30 Retrieve Core #11 = ' (% Recovery)
	1 Service Core Bbl.
1/2	5:30-6:00 M/U BIT #11 & R.I.H.
	T-Gel 1
	T-Dlex 3
	T-Tool III 7
	Welpac 1
	Pop-Temp 2
	KCL 3
	NaOH 5
	24 TOTAL HOURS

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD				RATES				Well <u>STATE 2-14</u>			
Wt. <u>9.3</u>	lb/gal.	Penetration <u>11</u>	ft/hr	No. days this well _____	Date <u>11-24-85</u>	Operator <u>Bechtel</u>		Contractor <u>Cleveland Rig #6</u>		Today's depth <u>4641'</u>	
Vis. <u>38</u>	Sec. <u>11</u> PV <u>11</u> YP	Bit Weight <u>25/35</u>	M.lbs	Rotary RPM <u>5460</u>		Pump psi <u>1400</u>		Pump SPM <u>40</u>		Yesterday's depth <u>4590'</u>	
W.L. <u>11.2</u>	cc/30 Sand <u>1/4</u> %	Pump liners <u>7" X 1 1/2"</u>		Pump output = <u>346</u> GPM		Ann. Vel. = <u>68-123</u> ft/min.		Drilled <u>51'</u> ft. in <u>5</u> hrs.		Last casing <u>1338</u> " Depth <u>3515'</u>	
pH. <u>10.6</u>	Ca+ <u>180</u> PPM	Hours Running Centrifuge = <u>24</u>		Reduced Pump Rate: _____ SPM = _____ psi		Rotating Hrs. this report = <u>9 1/2</u>		Cumulative rotating hours = _____			
W.C. <u>2</u>	1/32" CL- <u>4200</u> PPM	At Depth = _____ Ft.									
Oil <u>Nil</u>	% Solids <u>7</u> % <u>18</u> lb/B°										
Temp. <u>120</u>	°F, Gels = <u>4.18</u>										
ALK. (Pf) = <u>.08</u>											
K+ion = _____	PPM										
Na+ion = _____	PPM										

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
11	12 1/4	Varel 19898	V517	3-12	N	4334'	4641'	307	22	13.9	6-8	3	0 1/8
12	12 1/4	Varel 20576	L-126	3-12	N	4276'	4432'	156	4 1/2	34.6	Reaming		

BHA Length: 976.90 Ft., Consist of: 12 1/4" BIT - JUNK Sub - 12 1/4" N.B. Stab - 9" Shack Sub -
Ø - Manel - 12 1/4" Stab - 1 X 9" DC - 12 1/4" Stab - 2 X 9" DC
Ø - 3 X 8" DC - Ø - 2 X 5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 180,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2 300 ppm</u> units
	°		Connection gas: Max. _____ units at _____ mud wt. <u>9.3</u> lb./Gal.
<u>4561</u>	<u>4°</u>	<u>N-9-E</u>	Coordinates: _____ M.D. _____ TVD _____
			Present operations: <u>Ream F/4432'</u>

HOURS	Operations last 24 Hours:
<u>2</u>	<u>6-8 Drill F/4590' To 4609'</u>
<u>1/2</u>	<u>8-8:30 Survey @ 4561'</u>

Daily Cost: \$ _____	<u>3</u>	<u>8:30-11:30 Drill F/4609' To 4641'</u>
Cumulative Cost: \$ _____	<u>1</u>	<u>11:30-12:30 Circ Bottom-up F/Logger @ 4641'</u>
	<u>2</u>	<u>12:30-2:30 P.O.H.</u>
Daily Mud Cost: \$ <u>1,689 46</u>	<u>2 1/2</u>	<u>2:30-5 install & R/U Kelly Spinner</u>
Cum. Mud Cost: \$ <u>47,467 23</u>	<u>1</u>	<u>5-6 Slip & Cut Delg line (100')</u>
	<u>4</u>	<u>6-10 Rig up USGS wire line unit & Run</u>

MUD & CHEMICALS USED		HOURS	Operations last 24 Hours:
Sack Barite:		<u>3 1/2</u>	<u>10-1:30 m/u Bit - Junk Sub & Shack Sub &</u>
Bulk Barite:			<u>R.I.H. T/4276'</u>
Gel:		<u>4 1/2</u>	<u>1:30-6 Ream Tight Hole F/4276' T/4432'</u>
Caustic Soda:			<u>@ 6:00 AM</u>
Lignite:			

T-Gel	<u>34</u>		
T-Plex	<u>2</u>	<u>24</u>	<u>TOTAL Hours</u>
WelPac	<u>6</u>		
Sawdust	<u>12</u>		
NaOH	<u>9</u>		
Bicarb	<u>1</u>		
ALST	<u>1</u>		

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>9.2</u> lb/gal. Vis. <u>38</u> Sec. <u>8</u> PV <u>9</u> YP W.L. <u>10.0</u> cc/30 Sand <u>1/4</u> % pH. <u>10.9</u> Ca+ <u>120</u> PPM W.C. <u>2</u> /32" CL- <u>3100</u> PPM Oil <u>NIL</u> % Solids <u>6 1/2</u> % <u>18</u> lb/B* Temp. <u>120</u> °F. Gels = <u>2</u> /12 ALK. (Pf) = <u>.09</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>13</u> ft/hr Bit Weight <u>15/20</u> M.lbs Rotary RPM <u>60</u> Pump psi <u>400</u> Pump SPM <u>20</u> Pump liners <u>7" X 16"</u> Pump output = <u>173</u> GPM Ann. Vel. = <u>34-61</u> ft/min. Hours Running Centrifuge = <u>18</u> Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well <u>33</u> Date <u>11-25-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>4676'</u> Yesterday's depth <u>4641'</u> Drilled <u>35'</u> ft. in <u>4 1/4</u> hrs. Last casing <u>13 3/8</u> " Depth <u>3515'</u> Rotating Hrs. this report = <u>7 3/4</u> Cumulative rotating hours = _____
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRILD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
3	9 7/8	N.C. 0111961	MC201	-	N	4643'	4676'	33'	4	8.2			

BHA Length: 740.98 Ft. Consist of: 9 7/8" Core Bit - Core Bbl. - 24 X 5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 150,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2 300 ppm</u> units
	°		Connection gas: Max. _____ units at _____ mud wt. <u>14.1</u> lb./Gal.
			Coordinates: _____ M.D. _____ TVD _____
			Present operations: <u>RUN Temp Survey</u>

HOURS	Operations last 24 Hours:
3 1/2	6-9:30 CONT. RCM TO 4641'
1/4	9:30-9:45 Drill F/ 4641' TO 4643'
1	9:45-10:45 Circ F/ Loggers @ 4643'
2 1/4	10:45-1 P.O.H.
2 1/2	1-3:30 P/U Core Bbl & R.I.H. T/ 4643'
4	3:30-7:30 CORE F/ 4643' TO 4676' #12 = 33'
2 1/2	7:30-10 P.O.H. Service Core Bbl & Recover CORE = 33' (100%)
8	10-6 Rig up U.S.G.S. Wireline Unit & Run B.H.T. & CONT. Temp Survey @ 4676' @ 6:00 AM
24	TOTAL Hours

MUD & CHEMICALS USED	
Sack Barite:	
Bulk Barite:	
Gel:	
Caustic Soda:	
Lignite:	
T-Gel	27
T-TR6L III	3
WELPAC	3
KCL	3
NaOH	3
CaOH	3

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD		RATES		Well <u>STATE 2-14</u>	
Wt. <u>9.2</u> lb/gal.	Penetration <u>10</u> ft/hr	No. days this well _____	Date <u>11-26-85</u>	Operator <u>Bechtel</u>	
Vis. <u>34</u> Sec. <u>10</u> PV <u>10</u> YP	Bit Weight <u>10/15</u> M.lbs	Contractor <u>Cleveland Rig #6</u>		Today's depth <u>4710'</u>	
W.L. <u>10.8</u> cc/30 Sand <u>1/4</u> %	Rotary RPM <u>100/120</u>	Pump psi <u>1600</u>		Yesterday's depth <u>4676'</u>	
pH. <u>10.4</u> Ca+ <u>166</u> PPM	Pump SPM <u>49</u>	Pump liners <u>7" X 16"</u>		Drilled <u>34'</u> ft. in <u>2 3/4</u> hrs.	
W.C. <u>2</u> /32" CL <u>4100</u> PPM	Pump output = <u>424</u> GPM	Ann. Vel. = <u>83-150</u> ft/min.		Last casing <u>13 3/8"</u> " Depth <u>3515'</u>	
Oil <u>Nil</u> % Solids <u>6</u> % <u>18</u> lb/B*	Hours Running _____	Centrifuge = <u>12</u>		Rotating Hrs. this report = <u>3 3/4</u>	
Temp. <u>120</u> °F, Gels = <u>4</u> <u>118</u>	Reduced Pump Rate = _____ SPM = _____ psi	Cumulative rotating hours = _____			
ALK. (Pf) = <u>.06</u>					
K-ion = _____ PPM					
Nation = _____ PPM					
At Depth = _____ Ft.					

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>3RD</u>	<u>9 7/8</u>	<u>N.C. 011961</u>	<u>MC201</u>	<u>TFA 1.55</u>	<u>N</u>	<u>4676'</u>	<u>4686'</u>	<u>10</u>	<u>1 1/4</u>	<u>8</u>			
<u>13</u>	<u>12 1/4</u>	<u>VAREL 20571</u>	<u>L-126</u>	<u>3-12</u>	<u>N</u>	<u>4686'</u>	<u>4710'</u>	<u>24</u>	<u>1 1/2</u>	<u>16</u>	<u>5</u>	<u>1</u>	<u>0 1/16</u>

BHA Length: 961.20 Ft., Consist of: 12 1/4" BIT-JUNK Sub-BIT Sub-⊗-9" Monel-
12 1/4" STAB-1X9" DC-12 1/4" STAB-2X9" DC-⊗ 3X8" DC-
⊗-24X5" H.W.D.P.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 180,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2 300 ppm</u> units
			Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
			Coordinates: _____ M.D. _____ TVD _____
			Present operations: <u>M/U BIT & R.I.H. w/ D.P. (ONLY)</u>

HOURS	Operations last 24 Hours:
<u>5 1/2</u>	<u>6-11:30 CONT RUN Temp Survey & Caliper (3-ARM) & Rig Down. max 414°F</u>
<u>2 1/2</u>	<u>11:30-2 P/U Core Bbl & R.I.H. T/ 4676'</u>
<u>1 1/4</u>	<u>2-3:15 Core F/ 4676' To 4686' - #13 Bbl Jammed.</u>
<u>3/4</u>	<u>3:15-4 Circ @ 4686'</u>
<u>3</u>	<u>4-7 P.O.H. - & Service Core Bbl - Recover Core - 3' (33.3% Recovery)</u>
<u>3 1/2</u>	<u>7-10:30 M/U BIT #13 & JUNK Sub & R.I.H. T/ 4643'</u>
<u>1</u>	<u>10:30-11:30 Ream Core Hole F/ 4643' To 4686'</u>
<u>1 1/2</u>	<u>11:30-1 Drill F/ 4686' To 4710'</u>
<u>1 1/2</u>	<u>1-2:30 WORK JUNK Sub & TRY TO DRILL - excessive Torque.</u>
<u>3 1/2</u>	<u>2:30-6 P.O.H. = (STAB @ 60'/1-Blade LEFT in Hole / STAB @ 30'/3-Blades LEFT in Hole</u>
<u>24</u>	<u>TOTAL HOURS.</u>

Note: Losing 6 Bbls. Air. F/ 4676' To 4710'

H.T. - H.P. W/L: _____

Field: SALTON SEA

Wt. <u>9.2</u> MUD lb/gal. Vis. <u>43</u> Sec. <u>12</u> PV <u>16</u> YP W. i. <u>13.2</u> cc/30 Sand <u>1/4</u> % pH. <u>9.8</u> Ca+ <u>188</u> PPM W.C. <u>2</u> /32" CL- <u>4500</u> PPM Oil <u>NIL</u> % Solids <u>6</u> % <u>18</u> lb/B* Temp. <u>120</u> °F, Gels = <u>4</u> <u>124</u> ALK. (Pf) = <u>.04</u> K-ion = _____ PPM Na-ion = _____ PPM At Depth = _____ Ft.		RATES Penetration _____ ft/hr Bit Weight <u>416</u> M.lbs Rotary RPM <u>50/60</u> Pump psi <u>400</u> Pump SPM <u>40</u> Pump liners <u>7" x 16"</u> Pump output = <u>346</u> GPM Ann. Vel. = <u>68-123</u> ft/min. Hours Running Centrifuge = <u>12</u> Reduced Pump Rate = _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>11-27-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>4710'</u> Yesterday's depth <u>4710'</u> Drilled <u>0</u> ft. in <u>0</u> hrs. Last casing <u>133/8</u> " Depth <u>3515'</u> Rotating Hrs. this report = <u>0</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	
<u>12 RR</u>	<u>12 1/4</u>	<u>Varel 20576</u>	<u>L-126</u>	<u>OUT</u>	<u>RR</u>	<u>4710'</u>	<u>-</u>	<u>-</u>						
	<u>11 3/4</u>	<u>Globe</u>	<u>JUNK BASKET</u>	<u>-</u>		<u>4710'</u>	<u>-</u>	<u>-</u>						
	<u>12 1/4</u>	<u>Acme Mill</u>	<u>mill</u>	<u>-</u>	<u>N</u>	<u>4710'</u>								

BHA Length: _____ Ft., Consist of: 12 1/4" JUNK Mill - Bit Sub - Float Sub - Monel - 3X8"
D.C. - @ - 3X8" DC - @ - 24X5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 175,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units
	o	.		
				Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
				Coordinates: _____ M.D. _____ TVD _____
				Present operations: <u>Mill on JUNK</u>
HOURS				Operations last 24 Hours:
				<u>4 6-10 m/u Bit #12 RR Bit Sub, Float Sub - R.I.H. w/ D.P. (only) To 4707'</u>

Daily Cost: \$ _____	<u>1 1/2 10-11:30 Spot 200 Bbls H2O w/ 2% KCL across</u>
Cumulative Cost: \$ _____	<u>open Hole</u>
Daily Mud Cost: \$ <u>611.62</u>	<u>1/2 11:30-12 P.O.H. into Shoe @ 3515'</u>
Cum. Mud Cost: \$ <u>50,006.33</u>	<u>1 12-1 Conduct injectivity test - would not inject</u>
	<u>1/2 1-1:30 R.I.H. T/ 4707'</u>

MUD & CHEMICALS USED		QUANTITY	TIME	REMARKS
Sack Barite:		<u>2</u>	<u>3-5</u>	<u>P.O.H.</u>
Bulk Barite:		<u>4 1/2</u>	<u>5-9:30</u>	<u>w/d. Fishing Tools</u>
Gel:		<u>2</u>	<u>9:30-11:30</u>	<u>m/u Globe Junk Basket & R.I.H. T/ 4710'</u>
Caustic Soda:		<u>1/2</u>	<u>11:30-12:00</u>	<u>Circ @ 4710'</u>
Lignite:		<u>2</u>	<u>12:00-2</u>	<u>w/over JUNK @ 4710'</u>
KCL	<u>16</u>	<u>2</u>	<u>2: - 4</u>	<u>P.O.H. (NO Recovery)</u>
		<u>2</u>	<u>4 - 6</u>	<u>L/D Globe Basket & m/u JUNK Mill 12 1/4" & R.I.H. T/ 4710'</u>
		<u>24</u>		<u>TOTAL Hours</u>

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD		RATES		Well <u>STATE 2-14</u>	
Wt. <u>9.1</u> lb/gal.	Penetration _____ ft/hr	No. days this well <u>36</u> Date <u>11-28-85</u>		Operator <u>Bechtel</u>	
Vis. <u>42</u> Sec. <u>10</u> PV <u>14</u> YP	Bit Weight <u>0/5</u> M.lbs	Contractor <u>Cleveland Rig #6</u>		Today's depth <u>4718'</u>	
W.L. <u>10.8</u> cc/30 Sand <u>72</u> %	Rotary RPM <u>70/80</u>	Yesterday's depth <u>4710' (Milled)</u>		Drilled <u>8'</u> ft. in <u>10 3/4</u> mill hrs.	
pH. <u>10.4</u> Ca+ <u>152</u> PPM	Pump psi <u>400</u>	Last casing <u>13 3/8"</u> " Depth <u>3515'</u>		Rotating Hrs. this report = <u>10 3/4</u>	
W.C. <u>2</u> /32" CL <u>4000</u> PPM	Pump SPM <u>40</u>	Cumulative rotating hours = _____			
Oil <u>Nil</u> % Solids <u>5 1/2</u> % <u>18</u> lb/B*	Pump liners <u>7" x 16"</u>				
Temp. <u>120</u> °F, Gels = <u>6</u> /28	Pump output = <u>346</u> GPM				
ALK. (PF) = <u>.04</u>	Ann. Vel. = <u>68-123</u> ft/min.				
K-ion = _____ PPM	Hours Running _____				
Na-ion = _____ PPM	Centrifuge = <u>24</u>				
At Depth = _____ Ft.	Reduced Pump Rate: _____ SPM = _____ psi				

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
1	12 1/4	Acme	Junk mill	-	N	4710'	-	-	5 1/2	-	WORN OUT		
2	"	"	"	-	"	4710'	4718'	8	4 1/2	-	1/2 WORN OUT		
3	"	"	"	-	"	4718'	-	-	-	-	INC		

BHA Length: 952.87 Ft., Consist of: 12 1/4" Mill - JUNK Sub - BIT Sub - MONEL - 3x9" D.C. - 3x8" D.C. - 24x5" HWL.

BHA Wt. in Mud: _____ Lb.
 Total String Wt.: 180,000 Lb. Drilling Supervisor: G. W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units
	o			
				Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
				Coordinates: _____ M.D. _____ TVD _____
				Present operations: <u>R.I.H. w/ JUNK Mill #3</u>
HOURS				Operations last 24 Hours:
				<u>1/2 6-6:30 CONT. R.I.H. w/ JUNK Mill #1</u>
				<u>5/4 6:30-11:45 Mill on JUNK @ 4710'</u>

Daily Cost: \$ _____	<u>1/4 11:45-12 Circ.</u>
Cumulative Cost: \$ _____	<u>3/2 12-3:30 P.D.H. 4/D JUNK Mill #1 & m/u JUNK Mill #2 & R.I.H. T/4710'</u>
Daily Mud Cost: \$ <u>1905¹³</u>	<u>1/2 3:30-4 Circ.</u>
Cum. Mud Cost: \$ <u>5,811⁴⁶</u>	<u>4/2 4-8:30 Mill on JUNK F/4710' To 4718'</u>
	<u>4/2 8:30-1 P.D.H. 4/D JUNK Mill #2 - SERVICE JUNK Sub (Recovered 6-Small pieces IRON) & m/u BOWEN REVERSE CIRC BASKET & R.I.H. T/4718'</u>

MUD & CHEMICALS USED				
Sack Barite:				
Bulk Barite:				
Gel:	<u>16</u>	<u>1</u>	<u>1-2</u>	<u>WORK OVER JUNK @ 4718'</u>
Caustic Soda:		<u>3</u>	<u>2-5</u>	<u>P.D.H. & 4/D BOWEN JUNK BASKET (Recovered 6" CORE - NO IRON)</u>
Lignite:				
T _g Gel:	<u>68</u>	<u>1</u>	<u>5-6</u>	<u>m/u JUNK Mill #3 & JUNK Sub - R.I.H.</u>
T-Trol III:	<u>2</u>			
WELPAC:	<u>4</u>	<u>24</u>	<u>TOTAL HOURS</u>	
KCL:	<u>2</u>			<u>WEAR INDICATIONS ON JUNK BASKET (OUTSIDE)</u>
NaOH:	<u>2</u>			<u>REASON F/RUNNING Mill #3.</u>
CaOH:	<u>2</u>			

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>9.2</u> <u>OUT</u> lb/gal. Vis. <u>46</u> Sec. <u>14</u> PV <u>14</u> YP W.L. <u>14.4</u> cc/30 Sand <u>1/2</u> % pH. <u>10.5</u> Ca+ <u>120</u> PPM W.C. <u>2</u> 132" CL- <u>4300</u> PPM Oil <u>Nil</u> % Solids <u>6</u> % <u>18</u> lb/B* Temp. <u>134</u> °F, Gels = <u>6</u> <u>132</u> ALK. (Pf) = <u>.16</u>		RATES Penetration <u>16</u> ft/hr Bit Weight <u>30/35</u> M.lbs Rotary RPM <u>60/70</u> Pump psi <u>1400</u> Pump SPM <u>40</u> Pump liners <u>7" X 16"</u> Pump output = <u>346</u> GPM Ann. Vel. = <u>68-123</u> ft/min. Hours Running Centrifuge = <u>24</u> Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>11-29-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>4861'</u> Yesterday's depth <u>4718'</u> Drilled <u>143'</u> ft. in <u>10 1/2</u> hrs. Last casing <u>13 3/8</u> " Depth <u>3515'</u> Rotating Hrs. this report = <u>10 1/2</u> Cumulative rotating hours = _____	
K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.					

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
3	12 1/4	Acme -	JUNK Mill	-	N	4718	4722	4	1/2	8			
14	12 1/4	Sec 318488	S-44G	3-12	N	4722	4861	139	10	13.9			INC

BHA Length: 1026.55 Ft. Consist of: 12 1/4" BIT-JUNK Sub-12 1/4" N.B.-10' L.C.-12 1/4" STAB-

⊗ - Manel-12 1/4" STAB-1x9" DC-12 1/4" STAB-2x9" DC
⊗ - 1x8" DC - D JARS - U JARS - 2x8" DC - ⊗ - 24x5" HWL

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 190,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas ^{CO2} <u>300 ppm</u> units
	0		Connection gas: Max. _____ units at _____ mud wt. <u>9.2</u> lb./Gal.
<u>4764</u>	<u>4° 15'</u>	<u>N-13-E</u>	Coordinates: _____ M.D. _____ TVD _____
Temp = <u>209°F</u>			Present operations: <u>Drill Ahead F/ 4861'</u>

HOURS	Operations last 24 Hours:
<u>2 1/2</u>	<u>6-8:30 R.I.H. w/ 12 1/4" JUNK Mill #37/ 4718'</u>
<u>1/2</u>	<u>8:30-9 Mill ON JUNK F/4718' TO 4722'</u>

Daily Cost: \$ _____
 Cumulative Cost: \$ _____

Daily Mud Cost: \$ 334.61
 Cum. Mud Cost: \$ 52,146.07

MUD & CHEMICALS USED	<u>1 6-7 Ream Tight SPOTS ^{Spice} F/ 4175' TO 4237'</u>
Sack Barite:	<u>1/2 7-7:30 CONT. R.I.H. T/ 4722'</u>
Bulk Barite:	<u>5 7:30-12:30 Drill F/ 4722' TO 4804'</u>
Gel:	
Caustic Soda:	<u>24 TOTAL HOURS</u>
Lignite:	
T-Gel	<u>8</u>
Wellpac	<u>1</u>
KCL	<u>1</u>
Nash	<u>1</u>
Caoh	<u>1</u>

LOSING 4-5 Bbls/hr F/ 4722' TO 4850'

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD		RATES		Well <u>STATE 2-14</u>	
Wt. <u>8.9</u> lb/gal.	Penetration <u>9</u> ft/hr	No. days this well _____ Date <u>11-30-85</u>			
Vis. <u>42</u> Sec. <u>16</u> PV <u>12</u> YP	Bit Weight <u>15/35</u> M.lbs	Operator <u>Bechtel</u>			
W.L. <u>10.0</u> cc/30 Sand <u>Nil</u> %	Rotary RPM <u>50/60</u>	Contractor <u>Cleveland Rig #6</u>			
pH. <u>10.8</u> Ca+ <u>100</u> PPM	Pump psi <u>1500</u>	Today's depth <u>5007'</u>			
W.C. <u>2</u> 132" CL- <u>4200</u> PPM	Pump SPM <u>50</u>	Yesterday's depth <u>4861'</u>			
Oil <u>6</u> % Solids <u>6</u> % <u>18</u> lb/B*	Pump liners <u>7" x 16"</u>	Drilled <u>146</u> ft. in <u>18 1/2</u> hrs.			
Temp. <u>132</u> °F. Gels = <u>2</u> 126	Pump output = <u>433</u> GPM	Last casing <u>13 3/8"</u> " Depth <u>3515'</u>			
ALK. (Pf) = <u>.24</u>	Ann. Vel. = <u>85-154</u> ft/min.	Rotating Hrs. this report = <u>19</u>			
K-ion = _____ PPM	Hours Running _____	Cumulative rotating hours = _____			
Na-ion = _____ PPM	Centrifuge = <u>24</u>				
At Depth = _____ Ft.	Reduced Pump Rate: _____ SPM = _____ psi				

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
14	12 1/4	Sec 318488	S 446	3-12	N	4722	4943	221	18 1/2		8	4	0 3/16
15	12 1/4	Yarel 20658	V-517	3-13	N	4943	5007	64	10	6.4	1	N/C	

BHA Length: N/C hq Ft. Consist of: N/C hq.

BHA Wt. in Mud: _____ Lb.
 Total String Wt.: 195,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2 300 PPM</u> units
	°	'		
4899	4°	15'	N-23-E	Connection gas: Max. _____ units at _____ mud wt. <u>8.9</u> lb./Gal.
Temp			212°F	Coordinates: _____ M.D. _____ TVD _____
4972'	4°	15'	N-28-E	Present operations: <u>P.O.H.</u>

HOURS	Operations last 24 Hours:
4	6-10 Drill F/ 4861' To 4939'
1/2	10-10:30 Survey @ 4899'
4 1/2	10:30-3 Drill F/ 4939' To 4943'
1/2	3-3:30 Circ F/TRIP
3 1/2	3:30-7 P.O.H. Chg BIT & R.I.H.
1/2	7-7:30 Ream F/ 4890' To 4943'
10	7:30-5:30 Drill F/ 4943' To 5007'
1/2	5:30-6 Survey @ 4972'

MUD & CHEMICALS USED	
Sack Barite:	24 TOTAL Hours
Bulk Barite:	
Gel:	8
Caustic Soda:	
Lignite:	
T-Gel	54
T-Trol III	4
Wellpac	4
P-Temp	2
KCL	3
NaOH	3
CaOH	3

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>9.0</u> lb/gal. Vis. <u>44</u> Sec. <u>12</u> PV <u>12</u> YP W.L. <u>9.4</u> cc/30 Sand <u>14</u> % pH. <u>10.5</u> Ca+ <u>140</u> PPM W.C. <u>2</u> /32" CL <u>4400</u> PPM Oil <u>6</u> % Solids <u>8</u> % <u>20</u> lb/B* Temp. <u>120</u> °F, Gels = <u>2</u> <u>128</u> ALK. (Pf) = <u>.12</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.				RATES Penetration <u>16</u> ft/hr Bit Weight <u>25/35</u> M.lbs Rotary RPM <u>50/60</u> Pump psi <u>1600</u> Pump SPM <u>50</u> Pump liners <u>7" X 16"</u> Pump output = <u>433</u> GPM Ann. Vel. = <u>85-154</u> ft/min. Hours Running Centrifuge = <u>24</u> Reduced Pump Rate: _____ SPM = _____ psi				Well <u>STATE 2-14</u> No. days this well _____ Date <u>12-1-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland</u> Rig # <u>6</u> Today's depth <u>5188'</u> Yesterday's depth <u>5007</u> Drilled <u>181</u> ft. in <u>12 1/2</u> hrs. Last casing <u>1338</u> " Depth <u>3515'</u> Rotating Hrs. this report = <u>13</u> Cumulative rotating hours = _____			
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
15	12 1/4	Varel 20658	V-517	3-13	N	4943	5188	245	22 1/2	10.8	2	2	I

BHA Length: 1008.49 Ft., Consist of: No/Chg.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 195,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trips gas _____ units at _____ Ft. Avg. background gas <u>CO2 300 PPM</u> units
<u>5056</u>	<u>4° 0'</u>	<u>N-37-E</u>	Connection gas: Max. _____ units at _____ mud wt. <u>9.0</u> lb./Gal.
Temp	=	<u>210° F</u>	Coordinates: _____ M.D. _____ TVD _____
			Present operations: <u>R.T.H. w/ Core Bbl.</u>

DEPTH	DEV.	DIRECTION	HOURS	Operations last 24 Hours:
<u>5138</u>	<u>3° 45'</u>	<u>N-45-E</u>		
Temp	=	<u>210° F</u>	<u>6</u>	<u>6-12 P.O.H. 4/D (J.S. - N.B. Stab - L.C. - Stab)</u>

Daily Cost: \$	<u>1/2</u>	<u>12-12:30</u>	<u>Ream F/ 4970' TO 5007'</u>
Cumulative Cost: \$	<u>5 1/2</u>	<u>12:30-6</u>	<u>Drill F/ 5007' TO 5096'</u>
Daily Mud Cost: \$ <u>3001.21</u>	<u>1/2</u>	<u>6-6:30</u>	<u>Survey @ 5056'</u>
Cum. Mud Cost: \$ <u>62,624.55</u>	<u>7</u>	<u>6:30-1:30</u>	<u>Drill F/ 5096' TO 5188'</u>
	<u>1 1/4</u>	<u>1:30-2:45</u>	<u>Circ Bottom-up F/ Logger @ 5188'</u>
	<u>1/2</u>	<u>2:45-3:15</u>	<u>Survey @ 5138'</u>

MUD & CHEMICALS USED		HOURS	Notes
Sack Barite:			
Bulk Barite:			
Gel:	<u>25</u>	<u>24</u>	<u>HOURS TOTAL</u>
Caustic Soda:			
Lignite:			
T-Gel	<u>96</u>		<u>Losses 4-6 Bbl/hr.</u>
T-Plex	<u>2</u>		
T-Trol III	<u>4</u>		<u>Temp @ 5188' 123 (IN) 158 (OUT)</u>
Well Pac	<u>4</u>		
P-Temp	<u>1</u>		
KCL	<u>3</u>		
NaOH	<u>2</u>		
CaOH	<u>3</u>		
Lo-Sol	<u>2</u>		

H.T. - H.P. W/L:

Field: SALTON SEA

MUD		RATES		Well <u>STATE 2-14</u>	
Wt. <u>9.0</u> lb/gal.	Penetration <u>3.3</u> ft/hr	No. days this well _____ Date <u>12-2-85</u>			
Vis. <u>40</u> Sec. <u>12</u> PV <u>10</u> YP	Bit Weight <u>10</u> M.lbs	Operator <u>Bechtel</u>			
W.L. <u>9.6</u> cc/30 Sand <u>1/4</u> %	Rotary RPM <u>80/100</u>	Contractor <u>Cleveland Rig #6</u>			
pH. <u>10.1</u> Ca+ <u>144</u> PPM	Pump psi <u>1500</u>	Today's depth <u>5218'</u>			
W.C. <u>2</u> /32" CL <u>4200</u> PPM	Pump SPM <u>40</u>	Yesterday's depth <u>5188'</u>			
Oil <u>4 1/2</u> % Solids <u>6</u> % <u>18</u> lb/B*	Pump liners <u>7" x 16"</u>	Drilled <u>Core</u> <u>30</u> ft. in <u>9</u> hrs.			
Temp. <u>120</u> °F, Gels = <u>2</u> <u>124</u>	Pump output = <u>346</u> GPM	Last casing <u>13 3/8</u> " Depth <u>3515'</u>			
ALK. (Pf) = <u>.09</u>	Ann. Vel. = <u>68-123</u> ft/min.	Rotating Hrs. this report = <u>11 1/2</u>			
K-ion = _____ PPM	Hours Running _____	Cumulative rotating hours = _____			
Na-ion = _____ PPM	Centrifuge = <u>24</u>				
At Depth = _____ Ft.	Reduced Pump Rate: _____ SPM = _____ psi				

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>3^{RE}</u>	<u>9 7/8</u>	<u>N.C. 0111961</u>	<u>MC261</u>	<u>-</u>	<u>N</u>	<u>5188'</u>	<u>5218'</u>	<u>30</u>	<u>9</u>	<u>3.3</u>			
<u>16</u>	<u>12 1/4</u>	<u>VAREL 19488</u>	<u>L-114</u>	<u>3-12</u>	<u>N</u>	<u>5146'</u>	<u>5218'</u>	<u>72</u>	<u>2 1/2</u>	<u>28.8</u>	<u>1</u>	<u>1</u>	<u>I</u>
<u>15^{RE}</u>	<u>12 1/4</u>	<u>VAREL 20658</u>	<u>V-517</u>	<u>3-13</u>	<u>N</u>	<u>5218'</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>1</u>	<u>NC</u>	

BHA Length: 1008.49 Ft., Consist of: N/Chg

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 195.000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2 300 ppm</u> units
	o			
			<u>None</u>	Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
				Coordinates: _____ M.D. _____ TVD _____
				Present operations: <u>R.I.H. w/ BIT # RE 15</u>

HOURS	Operations last 24 Hours:
<u>3</u>	<u>6-9 P/U Core Bbl. & R.I.H. T/ 5188'</u>
<u>9</u>	<u>9-6 CORE F/ 5188' TO 5218'</u>
<u>5</u>	<u>6-11 P.O.H. - Service Core Bbl. & Recover Core 15* (100% Recovery) - M/U BIT # 16 & R.I.H. T/ 5146'</u>
<u>2 1/2</u>	<u>11-1:30 REAM F/ 5146' TO 5218'</u>
<u>1 1/4</u>	<u>1:30-2:45 CIRC & Cool mud @ 5218'</u>
<u>3 1/4</u>	<u>2:45-6 P.O.H. - M/U BIT # RE 15 - R.I.H. @ 6:00AM</u>

MUD & CHEMICALS USED	
Sack Barite: <u>10</u>	<u>24 TOTAL HOURS</u>
Bulk Barite:	
Gel: <u>13</u>	
Caustic Soda:	
Lignite:	
T-Gel <u>10</u>	<u>Losses = 5 Bbls/hr.</u>
T-Plex <u>2</u>	
T-Trol III <u>1</u>	
ProTemp <u>1</u>	
KCL <u>3</u>	
Bicarb <u>1</u>	
Lo-Sol <u>2</u>	
Al-ST <u>1</u>	
Sawdust <u>10</u>	

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>9.0</u> lb/gal. Vis. <u>48</u> Sec. <u>14</u> PV <u>11</u> YP W.L. <u>14.8</u> cc/30 Sand <u>14</u> % pH. <u>10.2</u> Ca+ <u>220</u> PPM W.C. <u>2</u> /32" CL <u>3800</u> PPM Oil <u>4</u> % Solids <u>5 1/2</u> % <u>20</u> lb/B* Temp. <u>120</u> °F, Gels = <u>6</u> /30 ALK. (Pf) = <u>.06</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>13</u> ft/hr Bit Weight <u>15/20</u> M.lbs Rotary RPM <u>80/85</u> Pump psi <u>1500</u> Pump SPM <u>50</u> Pump liners <u>7" X 16"</u> Pump output = <u>433</u> GPM Ann. Vel. = <u>85-154</u> ft/min. Hours Running Centrifuge = <u>24</u> Reduced Pump Rate = _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>12-3-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland</u> Rig # <u>6</u> Today's depth <u>5418</u> Yesterday's depth <u>5218</u> Drilled <u>200</u> ft. in <u>16</u> hrs. Last casing <u>13 3/8</u> " Depth <u>3515</u> Rotating Hrs. this report = <u>18</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>15RD</u>	<u>12 1/4</u>	<u>Varel 20658</u>	<u>V-517</u>	<u>3-13</u>	<u>N</u>	<u>4943</u>	<u>5386</u>	<u>438</u>	<u>32</u>	<u>13.6</u>	<u>2</u>	<u>2</u>	<u>I</u>
<u>17</u>	<u>12 1/4</u>	<u>Sec 323875</u>	<u>S-33</u>	<u>3-13</u>	<u>N</u>	<u>5381</u>	<u>5418</u>	<u>37</u>	<u>5</u>	<u>7.4</u>	<u>1</u>	<u>NC</u>	

BHA Length: 1008.49 Ft., Consist of: 12 1/4" BIT-Flat Sub-Ø - Monel-12 1/4" STAB-Shock
Sub-1 X 9" DC-12 1/4" STAB-2 X 9" DC-Ø-1 X 8" DC
DJARS-UJARS-2 X 8" DC-Ø-24 X 5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 200,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2 300 ppm</u> units
<u>5228'</u>	<u>4° 45'</u>	<u>N-58-E</u>	Connection gas: Max. _____ units at _____ mud wt. <u>9.0</u> lb./Gal.
Temp _____	=	<u>220°F</u>	Coordinates: _____ M.D. _____ TVD _____
<u>5336'</u>	<u>6° 15'</u>	<u>N-73-E</u>	Present operations: <u>Circ Carbide @ 5418</u>
Temp _____	=	<u>224°F</u>	

HOURS	Operations last 24 Hours:
<u>1</u>	<u>6-7 Ream F/5188' To 5218'</u>
<u>4</u>	<u>7-11 Drill F/5218' To 5248'</u>
<u>1/2</u>	<u>11-11:30 Survey @ 5228'</u>
<u>6 1/2</u>	<u>11:30-6 Drill F/5248' To 5376'</u>
<u>1/2</u>	<u>6-6:30 Survey @ 5336'</u>
<u>1/2</u>	<u>6:30-7 Drill F/5376' To 5381'</u>
<u>5</u>	<u>7-12 P.O.H. Chg BHA + BIT + R.I.H.</u>
<u>1</u>	<u>12-1 Ream F/5326' To 5381'</u>
<u>5</u>	<u>1-6 Drill F/5381' To 5418' @ 6:00 AM</u>

Daily Cost: \$ _____	
Cumulative Cost: \$ _____	
Daily Mud Cost: \$ <u>781.13</u>	
Cum. Mud Cost: \$ <u>64,730⁰²</u>	
MUD & CHEMICALS USED	
Sack Barite:	
Bulk Barite:	<u>24 TOTAL HOURS</u>
Gel: <u>30</u>	
Caustic Soda:	
Lignite:	
T-Plex <u>3</u>	<u>Loses 3 Bbl/hr.</u>
WelPac <u>1</u>	
KCL <u>2</u>	
Caoh <u>3</u>	

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD.		RATES		Well <u>STATE 2-14</u>	
Wt. <u>2% KCL H₂O</u> lb/gal.	Penetration <u>2.6</u> ft/hr	No. days this well _____ Date <u>12-4-85</u>		Operator <u>Bechtel</u>	
Vis. _____ Sec. _____ PV _____ YP _____	Bit Weight <u>15/20</u> M.lbs	Rotary RPM <u>80/85</u>		Contractor <u>Cleveland Rig #6</u>	
W.L. _____ cc/30 Sand _____ %	Pump psi <u>1300</u>	Pump SPM <u>50</u>		Today's depth <u>5422'</u>	
pH. _____ Ca+ _____ PPM	Pump liners <u>7" X 1 1/2"</u>	Pump output = _____ GPM		Yesterday's depth <u>5418'</u>	
W.C. _____ /32" CL _____ PPM	Ann. Vel. = _____ ft/min.	Hours Running _____		Drilled <u>4</u> ft. in <u>1 1/2</u> hrs.	
Oil _____ % Solids _____ % lb/B"	Centrifuge = _____	Reduced _____		Last casing <u>13 3/8</u> " Depth <u>3515'</u>	
Temp. _____ °F, Gels = _____ / _____	Pump Rate: _____ SPM = _____ psi	Rotating Hrs. this report = <u>1 1/2</u>		Cumulative rotating hours = _____	
ALK. (Pf) = _____					
K+ion = _____ PPM					
Na+ion = _____ PPM					
At Depth = _____ Ft.					

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
17	12 1/4	Sec 323875	5-33	3-13	N	5381	5422	41	6 1/2	6.3	4	4	I

BHA Length: _____ Ft., Consist of: _____

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO₂ 300ppm</u> units
	°		
<u>5410'</u>	<u>7° 30'</u>	<u>N-75-E</u>	Coordinates: _____ M.D. _____ TVD _____
Temp	=	<u>202°F</u>	Present operations: <u>CONT. RUN CONT. SURVEY (TEMP)</u>

HOURS	Operations last 24 Hours:
1 1/2	6-7:30 Circ Carbide (check F/wash-out) @ 5418'
1 1/2	7:30-9 Drill F/5418' To 5422'
1/2	9-9:30 Survey @ 5410'
1	9:30-10:30 P.O.H. T/3515'
2 1/2	10:30-1 Rig up & Run Injection Test - 80 Bbls. 9.0ppg mud
1	1-2 R.I.H. T/5422' Tag Bottom (No fill)
5	2-7 P.O.H. & m/u Bit #17 ^{RE} - Float Sub #8 - D.P. & R.I.H. To 5422'
1	7-8 Break Circ & Circ @ 5422'
2	8-10 Mix 1500 Bbls 2% KCL H ₂ O - & Displace Hole To 2% KCL H ₂ O.
3 1/2	10-1:30 P.O.H. & Rig up To inject
1	1:30-2:30 Did injection test of open hole w/ H ₂ O w/ 2% KCL (1000 Bbls) max press 1500psi @ 85 spm
2	2:30-4:30 W.D. Temp Build-up & R/U USGS water Resource wire line unit
1 1/2	4:30-6 Run CONT. TEMP SURVEY F/5422 To 1600 3515' @ 6:00 AM.
24	TOTAL HOURS
	Losses 3-4 Bbls./hr.

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>8.9</u> lb/gal. Vis. <u>37</u> Sec. <u>7</u> PV <u>10</u> YP W.L. <u>18</u> cc/30 Sand <u>14</u> % pH. <u>10.0</u> Ca+ <u>320</u> PPM W.C. <u>2</u> /32" CL <u>5300</u> PPM Oil <u>2</u> % Solids <u>6</u> % <u>18</u> lb/B* Temp. <u>120</u> °F, Gels = <u>4.126</u> ALK. (PT) = <u>.06</u> K-ion = _____ PPM Na-ion = _____ PPM At Depth = _____ Ft.		RATES Penetration _____ ft/hr Bit Weight <u>30/35</u> M.lbs Rotary RPM <u>60/70</u> Pump psi <u>1500</u> Pump SPM <u>50</u> Pump liners <u>7" X 16"</u> Pump output = <u>433</u> GPM Ann. Vel. = <u>85-154</u> ft/min. Hours Running _____ Centrifuge = <u>12</u> Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well <u>4</u> Date <u>12-5-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>5424'</u> Yesterday's depth <u>5422'</u> Drilled <u>2</u> ft. in <u>1/4</u> hrs. Last casing <u>13 3/8"</u> " Depth <u>3515'</u> Rotating Hrs. this report = <u>4</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
17 ^{RE}	12 1/4"	Sec 323875	S-33	3-13	N	5422'	5422'	-	-	-	Clean-out		
18	12 1/4"	Varel 21571	V-627	3-13	N	5422'	5424'	2	1/4	8	Pinched by JARS		

BHA Length: 1010.35 Ft., Consist of: 12 1/4" BIT - 12 1/4" N.B. - Manel - 12 1/4" Stab - Shock Sub - 1X9" DC - 12 1/4" Stab - 2X9" DC - 1X8" DC - D JAR - U JAR - 2X8" DC - 1X5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 195,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2 300 ppm</u> units
			Connection gas: Max. _____ units at _____ mud wt. <u>8.9</u> lb./Gal.
			Coordinates: _____ M.D. _____ TVD _____
			Present operations: <u>R.I.H. w/ OVERSHOT & GRAPPLE</u>

HOURS	Operations last 24 Hours:
7 1/2	6-1:30 CONT RUN Temp Survey & Rig/Down USGS WATER RESOURCE WIRELINE UNIT
1 1/2	1:30-3 R.I.H. w/ 12 1/4" BIT # 17 ^{RE} & FLOAT Sub H.W. To 5422' (NO FILL)
2	3-5 Circ - & Displace Hole F/ H2O To Mud 9.0 ppm.
5 1/2	5-10:30 P.O.H. m/u BIT # 18 & Chg B.H.A. & R.I.H. T/ 5029'
3 1/4	10:30-1:45 Ream F/ 5029' To 5422'
1/4	1:45-2 Drill F/ 5422' - 5424'
4	2-6 P.O.H. - LID 1 JT H.W. & m/u 11 3/4"
0	OVERSHOT & 6 1/4" GRAPPLE & R.I.H.
	Top Fish @ 5107.89'
	Length Fish 316.86
	BIT - N.B. - Manel - Stab - Shock Sub - 1X9" DC
	Stab - 2X9" DC - 1X8" DC - D-JAR - U JAR -
	2X8" DC - 1X5" H.W.
24	TOTAL Hours
	Bottom-up while displacing H2O w/ mud
	CH4 = 60 ppm HAS = 0
	CO2 = 10,000 ppm Temp = 186 °F

H.T. - H.P. W/L: _____

Field: _____

Wt. <u>8.9</u> MUD lb/gal. Vis. <u>40</u> Sec. <u>8</u> PV <u>12</u> YP W.L. <u>17.6</u> cc/30 Sand <u>Nil</u> % pH. <u>9.1</u> Ca+ <u>284</u> PPM W.C. <u>2</u> /32" CL <u>5000</u> PPM Oil <u>2</u> % Solids <u>5</u> % <u>18</u> lb/B° Temp. <u>120</u> °F, Gels = <u>6</u> <u>124</u> ALK. (Pf) = <u>.03</u> K-ion = _____ PPM Na-ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>25</u> ft/hr Bit Weight <u>30/35</u> M.lbs Rotary RPM <u>65/20</u> Pump psi <u>1400</u> Pump SPM <u>55</u> Pump liners <u>7" x 16"</u> Pump output = <u>476</u> GPM Ann. Vel. = <u>93-169</u> ft/min. Hours Running Centrifuge = <u>8</u> Reduced Pump Rate: _____ SPM = _____ psi		Well <u>SALTON SEA</u> No. days this well <u>44</u> Date <u>12-6-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>5433'</u> Yesterday's depth <u>5424</u> Drilled <u>9</u> ft. in _____ hrs. Last casing <u>13 3/8"</u> Depth <u>3515'</u> Rotating Hrs. this report = _____ Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
18	12 1/4	VARCL 21571	V-627	3-13	N	5422	5424	2	1/4				Pinched
19	12 1/4	VARCL 20659	V-517	3-13	N	5424	5433	9	1				1 NC

BHA Length: 892.30 Ft., Consist of: BIT-N.B.-MOMEL-STAB-Stack Sub-1X9" DC - STAB - 2X9" DC - 1X8" DC - D JARS - 4 JARS - 2X8" DC - 20X5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 195,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas units at Ft. Avg. background gas <u>CO2 300ppm</u> units
	o			
				Coordinates: M.D. TVD
				Present operations: <u>Drill F/ 5424'</u>

HOURS	Operations last 24 Hours:
5	6-11 R.I.H. w/ OVERSHOT & WORK OVER FISH @ 5107.86 & P.O.H. w/ FISH & L/O HW JTS # 23-24 -
18	11-5am Rig up Reco & INSPECT ALL B.H.A. Tools - Chg out MOMEL & D JARS m/u B.H.A. & R.I.H. T/5422' (NO FILL)
1	5-6 DRILL F/ 5422' TO 5424'

MUD & CHEMICALS USED	24 TOTAL HOURS.
Sack Barite:	
Bulk Barite:	
Gel:	
Caustic Soda:	
Lignite:	
T-Gel	17
T-Ten III	1
WCI PAC	2
Pro-Temp	1
NACK	1
ANTI FORM	3

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>8.9</u> lb/gal. Vis. <u>34</u> Sec. <u>8</u> PV <u>8</u> YP W.L. <u>14.4</u> cc/30 Sand <u>1/4</u> % pH. <u>10.6</u> Ca+ <u>120</u> PPM W.C. <u>2</u> /32" CL <u>5300</u> PPM Oil <u>2</u> % Solids <u>6</u> % <u>18</u> lb/B° Temp. <u>120</u> °F, Gels = <u>4</u> /16 ALK. (Pf) = <u>.16</u> K-ion = _____ PPM Na-ion = _____ PPM At Depth = _____ Ft.				RATES Penetration <u>13</u> ft/hr Bit Weight <u>30</u> M.lbs Rotary RPM <u>60</u> Pump psi <u>800</u> Pump SPM <u>30</u> Pump liners <u>7" x 1 1/2"</u> Pump output = <u>260</u> GPM Ann. Vel. = <u>51-92</u> ft/min. Hours Running Centrifuge = <u>12</u> Reduced Pump Rate: _____ SPM = _____ psi				Well <u>STATE 2-14</u> No. days this well _____ Date <u>12-7-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>5591</u> Yesterday's depth <u>5433'</u> Drilled <u>158'</u> ft. in <u>13 1/2</u> hrs. Last casing <u>13 3/8</u> " Depth <u>3515'</u> Rotating Hrs. this report = <u>13 1/2</u> Cumulative rotating hours = _____			
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
19	12 1/4	VAREL 20659	V-517	3-13	N	5424'	5574'	150	7	21.4	1	1	I
3 ^{RE}	9 7/8	N.C. 0111961	MC201	TFR.55	N	5574'	5580'	6	2 1/2	2.4			

BHA Length: 671.94 Ft., Consist of: 9 7/8" Core Bit - Core Bbl. - 1 x 8" DC - @ - 20 x 5" Hubs

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 170,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2 300ppm</u> units
	°	'		
5471'	7°	15'	N-77-E	Coordinates: _____ M.D. _____ TVD _____
Temp		=	256°F	Present operations: <u>Cont. P.O.H. w/ Core #16</u>
5564'	7°	30'	N-76-E	
Temp		=	256°F	

HOURS	Operations last 24 Hours:
3	6-9 Drill F/5433' To 5511'
1/2	9-9:30 Survey @ 5471'
3 1/2	9:30-1 Drill F/5511' To 5574'
1 1/2	1-2:30 Circ Bottom-up @ 5574'
1/2	2:30-3 Survey @ 5564'
6 1/2	3-9:30 P.O.H. P/U Core Bbl. & P.I.H. 7/ 5574'
7	9:30-4:30 Out Core # 16 F/ 5574' To 5591'
1 1/2	4:30-6 P.O.H.

MUD & CHEMICALS USED	
Sack Barite:	24 TOTAL HOURS
Bulk Barite:	
Gel:	15
Caustic Soda:	
Lignite:	Lozng 6 Bbl/hr.
T-Gel	96
T-Plex	8
T-Trol III	4
WeiPac	1
Pro-Temp	2
Naoh	5
LO-Sol	2

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>9.0</u> lb/gal. Vis. <u>36</u> Sec. <u>9</u> PV <u>6</u> YP W.L. <u>15.6</u> cc/30 Sand <u>1.4</u> % pH. <u>10.0</u> Ca+ <u>152</u> PPM W.C. <u>2</u> /32" CL- <u>4400</u> PPM Oil <u>11</u> % Solids <u>7</u> % <u>18</u> lb/B* Temp. <u>125</u> °F, Gels = <u>4</u> <u>114</u> ALK. (Pf) = <u>.11</u>		RATES Penetration <u>14.6</u> ft/hr Bit Weight <u>30/35</u> M.lbs Rotary RPM <u>60/70</u> Pump psi <u>1300</u> Pump SPM <u>45</u> Pump liners <u>7" X 16"</u> Pump output = <u>390</u> GPM Ann. Vel. = <u>76-138</u> ft/min. Hours Running Centrifuge = <u>24</u> Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>12-8-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>5760'</u> Yesterday's depth <u>5591'</u> Drilled <u>169</u> ft. in <u>11 1/2</u> hrs. Last casing <u>13 3/8"</u> " Depth <u>3515'</u> Rotating Hrs. this report = <u>12 1/2</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>16^{RR}</u>	<u>12 1/4</u>	<u>Varel 19488</u>	<u>V-114</u>	<u>3-12</u>	<u>N</u>	<u>5591'</u>	<u>5642'</u>	<u>51'</u>	<u>4 1/2</u>	<u>11.3</u>	<u>4</u>	<u>7</u>	<u>I</u>
<u>19^{RR}</u>	<u>12 1/4</u>	<u>Varel 20659</u>	<u>V-517</u>	<u>3-13</u>	<u>N</u>	<u>5424'</u>	<u>5760'</u>	<u>336'</u>	<u>14</u>	<u>24</u>	<u>1</u>	<u>NC</u>	

BHA Length: 874.25 Ft., Consist of: 12 1/4" BIT - 12 1/4" NEAR BIT - Mandel - 12 1/4" STAB - Shock
Sub - 1 X 9" DC - 12 1/4" STAB - 2 X 9" DC - @ - 1 X 8" DC
U JARS - 2 X 8" DC - @ - 20 X 5" HW.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 202,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO₂ 300 PPM</u> units
	°	'		
<u>5642'</u>	<u>7°</u>	<u>45'</u>	<u>N-76-E</u>	Coordinates: _____ M.D. _____ TVD _____
Temp	= <u>240°F</u>			Present operations: <u>Drilling ahead F/5760'</u>

HOURS	Operations last 24 Hours:
<u>2</u>	<u>6-8 P.D.H. w/ core #16 - Service Core Bbl. Recover Core (100% Recovery)</u>
<u>2</u>	<u>8-10 m/ja BIT #16^{RR} + R.I.H. T/5542'</u>
<u>1</u>	<u>10-11 Ream F/5542' to 5591'</u>
<u>4 1/2</u>	<u>11-3:30 Drill F/5591' to 5642'</u>
<u>1 1/2</u>	<u>3:30-5 Circ Bottom-up @ 5642'</u>
<u>5 1/2</u>	<u>5-10:30 P.D.H. (CK F/Wash-out) Chg Bits + Lay Down (Down Jars) + R.I.H. T/5642'</u>
<u>2 1/2</u>	<u>10:30-1 Drill F/5642' to 5682'</u>
<u>1/2</u>	<u>1-1:30 Survey @ 5642'</u>
<u>4 1/2</u>	<u>1:30-6 Drill F/5682' to 5760'</u>

MUD & CHEMICALS USED		
Sack Barite:		
Bulk Barite:		
Gel:	<u>20</u>	
Caustic Soda:		<u>24 TOTAL HOURS</u>
Lignite:		
T-Gel	<u>68</u>	<u>Losing 3 Bbl/hr.</u>
T-Plex	<u>4</u>	
T-Trol III	<u>1</u>	
Well Pac	<u>2</u>	
Pro-Temp	<u>2</u>	
Norb	<u>3</u>	
CAOH	<u>1</u>	
Lo-Sol	<u>1</u>	

H.T. - H.P. W/L: _____

Field: SALTON SEA

<p>MUD</p> <p>Wt. <u>9.1</u> lb/gal.</p> <p>Vis. <u>34</u> Sec. <u>6</u> PV <u>8</u> YP</p> <p>W.L. <u>12.4</u> cc/30 Sand <u>1/4</u> %</p> <p>pH. <u>9.9</u> Ca+ <u>200</u> PPM</p> <p>W.C. <u>2</u> /32" CL <u>4700</u> PPM</p> <p>Oil <u>1</u> % Solids <u>6</u> % <u>18</u> lb/B°</p> <p>Temp. <u>120</u> °F, Gels = <u>2</u> 1/4</p> <p>ALK. (Pfl) = <u>.04</u></p> <p>K-ion = _____ PPM</p> <p>Na-ion = _____ PPM</p> <p>At Depth = _____ Ft.</p>				<p>RATES</p> <p>Penetration <u>17</u> ft/hr</p> <p>Bit Weight <u>30/35</u> M.lbs</p> <p>Rotary RPM <u>60/50</u></p> <p>Pump psi <u>1300</u></p> <p>Pump SPM <u>46</u></p> <p>Pump liners <u>7" X 16"</u></p> <p>Pump output = <u>398</u> GPM</p> <p>Ann. Vel. = <u>78-141</u> ft/min.</p> <p>Hours Running <u>24</u></p> <p>Centrifuge = <u>24</u></p> <p>Reduced Pump Rate = _____ SPM = _____ psi</p>				<p>Well <u>STATE 2-14</u></p> <p>No. days this well _____ Date <u>12-9-85</u></p> <p>Operator <u>Bechtel</u></p> <p>Contractor <u>CLEVELAND Rig #6</u></p> <p>Today's depth <u>6000'</u></p> <p>Yesterday's depth <u>5760'</u></p> <p>Drilled <u>240</u> ft. in <u>16</u> hrs.</p> <p>Last casing <u>13 3/8</u> " Depth <u>3515'</u></p> <p>Rotating Hrs. this report = <u>16</u></p> <p>Cumulative rotating hours = _____</p>			
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>19th</u>	<u>12 1/4</u>	<u>Varel 20659</u>	<u>V-517</u>	<u>3-13</u>	<u>N</u>	<u>5492</u>	<u>6000</u>	<u>508'</u>	<u>29</u>	<u>17.5</u>	<u>3</u>	<u>7</u>	<u>0/8</u>

BHA Length: 874.25 Ft., Consist of: 12 1/4" BIT-12 1/4" N.B. - Monel - Shock Sub-12 1/4" Stab-
1 X 9" DC-12 1/4" Stab-2 X 9" D.C. - @ - 1 X 8" DC-
JAS- 2 X 8" DC - @ - 20 X 5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 208,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas		Avg. background gas	
			units at _____ Ft.	_____ units	_____ units	_____ units
<u>5767</u>	<u>8°</u>	<u>0° N-78-E</u>	Temp <u>250°F</u>	Connection gas: Max. _____ units at _____ mud wt. <u>9.1</u> lb./Gal.	Coordinates: _____ M.D. _____ TVD _____	Present operations: <u>Rig up Schlumberger</u>
<u>5861</u>	<u>8°</u>	<u>0° N-78-E</u>	Temp <u>224°F</u>			
<u>6000</u>	<u>8°</u>	<u>15° N-78-E</u>	Temp <u>240°F</u>	<p>HOURS Operations last 24 Hours:</p> <p><u>3</u> <u>6-9</u> <u>Drill F/5760' To 5807'</u></p> <p><u>1/2</u> <u>9-9:30</u> <u>Survey @ 5767'</u></p> <p><u>6</u> <u>9:30-3:30</u> <u>Drill F/5807' To 5901'</u></p> <p><u>1/2</u> <u>3:30-4</u> <u>Survey @ 5861'</u></p> <p><u>7</u> <u>4-11</u> <u>Drill F/5901' To 6000'</u></p> <p><u>1 1/2</u> <u>11-12:30</u> <u>Circ Bottom-up @ 6000'</u></p> <p><u>1</u> <u>12:30-1:30</u> <u>Wipe Hole F/6000' To 5000'</u></p> <p><u>1</u> <u>1:30-2:30</u> <u>Circ F/E-Logs @ 6000'</u></p> <p><u>1/2</u> <u>2:30-3</u> <u>Survey @ 6000'</u></p>		

Daily Cost: \$ _____	<u>6</u> <u>9:30-3:30</u> <u>Drill F/5807' To 5901'</u>
Cumulative Cost: \$ _____	<u>1/2</u> <u>3:30-4</u> <u>Survey @ 5861'</u>
Daily Mud Cost: \$ <u>3,390.00</u>	<u>7</u> <u>4-11</u> <u>Drill F/5901' To 6000'</u>
Cum. Mud Cost: \$ <u>78,160.51</u>	<u>1 1/2</u> <u>11-12:30</u> <u>Circ Bottom-up @ 6000'</u>
MUD & CHEMICALS USED	<u>1</u> <u>12:30-1:30</u> <u>Wipe Hole F/6000' To 5000'</u>
Sack Barite:	<u>1</u> <u>1:30-2:30</u> <u>Circ F/E-Logs @ 6000'</u>
Bulk Barite:	<u>1/2</u> <u>2:30-3</u> <u>Survey @ 6000'</u>
Gel: <u>10</u>	<u>3</u> <u>3-6</u> <u>P.O.H. (wet-looking F/wash-out) - L/D</u>
Caustic Soda: <u>24</u>	<u>2</u> <u>JTS washed H.W. @ 6:00AM</u>
Lignite:	
T-Gel <u>36</u>	
T-Treat <u>8</u>	
WelPac <u>1</u>	<u>Losing 3 Bbl/hr.</u>
Pro-Temp <u>3</u>	
NaOH <u>3</u>	
CaOH <u>3</u>	

NO REPORT

REICH DRILLING SUPERVISOR
REPORT

12-10-85

— REICH OFF SITE —

DT Rabb
12/10/85

No Reports

¹²~~10~~/11/85 from:

Profco

Mud Logger

GEOTHERM Ex

Drilling SUPERVISOR

DWM 12/11/85

12/12/85

No reports from: Profco

Ex-Log

Drilling Supervisor

Geotherm Ex

USGS Logging All Day

DT Pab

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>8.8</u> lb/gal. Vis. <u>40</u> Sec. <u>13</u> PV <u>9</u> YP W.L. <u>24.2</u> cc/30 Sand <u>1</u> % pH. <u>8.4</u> Ca+ <u>288</u> PPM W.C. <u>3</u> /32" CL <u>3800</u> PPM Oil <u>1</u> % Solids <u>5</u> % <u>18</u> lb/B° Temp. <u>120</u> °F, Gels = <u>6</u> /18 ALK. (Pf) = <u>.02</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration _____ ft/hr Bit Weight _____ M.lbs Rotary RPM _____ Pump psi <u>1200</u> Pump SPM <u>46</u> Pump liners <u>2" X 1 1/2"</u> Pump output = <u>398</u> GPM Ann. Vel. = <u>78-141</u> ft/min. Hours Running Centrifuge = <u>12</u> Reduced Pump Rate = _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well <u>51</u> Date <u>12-13-85</u> Operator <u>Bechtel</u> Contractor <u>CLEVELAND RIG #6</u> Today's depth <u>6000'</u> Yesterday's depth <u>6000'</u> Drilled <u>0</u> ft. in <u>0</u> hrs. Last casing <u>13 3/8</u> " Depth <u>3515'</u> Rotating Hrs. this report = <u>0</u> Cumulative rotating hours = _____
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	
16 ^{RE}	12 1/4	Varel 20659	V-517	3-13	RR	6000'	6000'	Circ F/ 9 5/8" Csg.						

BHA Length: 813.19 Ft., Consist of: 12 1/4" BIT - N.B. - Manel - STAB - Shack Sub -
1 X 9" DC - STAB - 2 X 9" DC - 1 X 8" DC - JARS -
2 X 8" DC - 1 X 5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 205,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas units at Ft. Avg. background gas units	Connection gas: Max. units at ' mud wt. lb./Gal.	Coordinates: M.D. TVD	Present operations: <u>Rig up To 4 P.D.C.</u>
	0						

DAILY COST:	CUMULATIVE COST:	DAILY MUD COST:	CUM. MUD COST:	HOURS		OPERATIONS LAST 24 HOURS:
\$		\$ <u>785⁴⁴</u>	\$ <u>80,454²⁵</u>	7	11-6	R/U USGS wire line & Run Caliper & Neutron Logs & R/D
				1 1/2	6-7:30	R.I.H. w/ BIT #16 ^{RE} T/6000'
				5 1/2	7:30-1	Circ & Cand mud F/9 5/8" Csg @6000'
				4 1/2	1-5:30	P.O.H. w/ mult. Shot Survey
					5:30-6	R/U P/U - 4/D machine @6:00AM

MUD & CHEMICALS USED	
Sack Barite:	
Bulk Barite:	
Gel:	<u>4</u>
Caustic Soda:	
Lignite:	
J-Plex	<u>4</u>
Naph	<u>6</u>
Caoh	<u>1</u>

H.T. - H.P. W/L: _____

Field: SALTAN SEA

<p style="text-align: center;">MUD</p> <p>Wt. <u>8.9</u> lb/gal. Vis. <u>32</u> Sec. <u>4</u> PV <u>8</u> YP W.L. <u>23.4</u> cc/30 Sand <u>1/4</u> % pH. <u>9.2</u> Ca+ <u>216</u> PPM W.C. <u>2</u> /32" CL- <u>3000</u> PPM Oil <u>72</u> % Solids <u>5</u> % <u>18</u> lb/B* Temp. <u>120</u> °F, Gels = <u>2.18</u> ALK. (Pf) = <u>.04</u> K-ion = _____ PPM Na-ion = _____ PPM At Depth = _____ Ft.</p>	<p style="text-align: center;">RATES</p> <p>Penetration _____ ft/hr Bit Weight _____ M.lbs Rotary RPM _____ Pump psi _____ Pump SPM _____ Pump liners _____ Pump output = _____ GPM Ann. Vel. = _____ ft/min. Hours Running _____ Centrifuge = _____ Reduced Pump Rate: _____ SPM = _____ psi</p>	<p>Well <u>STATE 2-14</u> No. days this well _____ Date <u>12-14-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>6000'</u> Yesterday's depth <u>6000'</u> Drilled <u>9</u> ft. in <u>9</u> hrs. Last casing <u>9 5/8</u> " Depth <u>6000'</u> Rotating Hrs. this report = <u>9</u> Cumulative rotating hours = _____</p>
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	

BHA Length: _____ Ft., Consist of: _____

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: G. W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units
	°			

Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
 Coordinates: N 45°48' E M.D. 5979 TVD 5967.46
 Present operations: Rig up & Cement w/ Howco

HOURS	Operations last 24 Hours:
<u>2 1/2</u>	<u>6-8:30 CONT. Rig up 4/D machine & 4/D 9" DCs - Menel- STabs. - Shack Sub-TARS.</u>

Daily Cost: \$ _____	
Cumulative Cost: \$ _____	<u>10 1/2</u> <u>8:30-7 R/U & RUN 9 5/8" CASING T/3500'</u>
Daily Mud Cost: \$ <u>85.00</u>	<u>2</u> <u>7-9 Chg. elevators (250 Ton) & Repair ROTATING HEAD RISER (weld studs)</u>
Cum. Mud Cost: \$ <u>80,539.25</u>	<u>2</u> <u>9-11 Circ To Cool @ 3500'</u>
	<u>3 1/2</u> <u>11-2:30 CONT RUN 137 JOINTS (5995.99) of 9 5/8"</u>

MUD & CHEMICALS USED	
Sack Barite:	<u>47 #PT C-95 R-3 CASING w/ Shack/6000' - CMT BASKET @ 3446' - STAGE COLLAR @ 3315' FLOAT COLLAR @ 5905' - 19 CENTRALIZERS</u>
Bulk Barite: <u>None/used</u>	
Gel:	<u>3</u> <u>2:30-5:30 R/U & Circ @ 6000' To Cool mud T/176°F</u>
Caustic Soda:	<u>1/2</u> <u>5:30-6:00 R/U TO CEMENT @ 6000 @ 6:00 AM</u>
Lignite:	

<u>22</u> Hours Rig Time
<u>2</u> Hours Downtime
<u>24</u> TOTAL Hours

Closure Distance: 240.09'
 " Direction: N 45°48' E
 Coord: N-167.38
E-172.12

H.T. - H.P. W/L:

Field: SALTON SEA

MUD				RATES				Well <u>STATE 2-14</u>			
Wt. _____ lb/gal.	Penetration _____ ft/hr	No. days this well _____		Date <u>12-15-85</u>		Operator <u>Bechtel</u>		Contractor <u>Cleveland Rig #6</u>		Today's depth <u>6000'</u>	
Vis. _____ Sec. _____ PV _____ YP _____	Bit Weight _____ M.lbs	Rotary RPM _____		Pump psi _____		Pump SPM _____		Pump liners _____		Yesterday's depth <u>6000'</u>	
W.L. _____ cc/30 Sand _____ %	Pump output = _____ GPM	Ann. Vel. = _____ ft/min.		Hours Running _____		Centrifuge = _____		Reduced Pump Rate: _____ SPM = _____ psi		Drilled _____ ft. in _____ hrs.	
pH. _____ Ca+ _____ PPM	Hours Running _____	Centrifuge = _____		Reduced Pump Rate: _____ SPM = _____ psi		Rotating Hrs. this report = _____		Cumulative rotating hours = _____		Last casing <u>9 5/8"</u> " Depth <u>6000'</u>	
W.C. _____ /32" CL _____ PPM	Ann. Vel. = _____ ft/min.	Hours Running _____		Centrifuge = _____		Reduced Pump Rate: _____ SPM = _____ psi		Rotating Hrs. this report = _____		Cumulative rotating hours = _____	
Oil _____ % Solids _____ % lb/B*	Ann. Vel. = _____ ft/min.	Hours Running _____		Centrifuge = _____		Reduced Pump Rate: _____ SPM = _____ psi		Rotating Hrs. this report = _____		Cumulative rotating hours = _____	
Temp. _____ °F, Gels = _____ l	Ann. Vel. = _____ ft/min.	Hours Running _____		Centrifuge = _____		Reduced Pump Rate: _____ SPM = _____ psi		Rotating Hrs. this report = _____		Cumulative rotating hours = _____	
ALK. (Pf) = _____	Ann. Vel. = _____ ft/min.	Hours Running _____		Centrifuge = _____		Reduced Pump Rate: _____ SPM = _____ psi		Rotating Hrs. this report = _____		Cumulative rotating hours = _____	
K+ion = _____ PPM	Ann. Vel. = _____ ft/min.	Hours Running _____		Centrifuge = _____		Reduced Pump Rate: _____ SPM = _____ psi		Rotating Hrs. this report = _____		Cumulative rotating hours = _____	
Na+ion = _____ PPM	Ann. Vel. = _____ ft/min.	Hours Running _____		Centrifuge = _____		Reduced Pump Rate: _____ SPM = _____ psi		Rotating Hrs. this report = _____		Cumulative rotating hours = _____	
At Depth = _____ Ft.	Ann. Vel. = _____ ft/min.	Hours Running _____		Centrifuge = _____		Reduced Pump Rate: _____ SPM = _____ psi		Rotating Hrs. this report = _____		Cumulative rotating hours = _____	

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLO.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	

BHA Length: _____ Ft., Consist of: _____

BHA Wt. In Mud: _____ Lb.

Total String Wt.: _____ Lb.

Drilling Supervisor: G. W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units
	o	.		

Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
 Coordinates: _____ M.D. _____ TVD _____
 Present operations: N/U B.O.P.E.

Operations last 24 Hours:

Daily Cost: \$	3	6-9 CEMENT 9 5/8" Csg - 1 st STAGE = 150' @ 1/2" H ₂ O Dye - 500 GAL Flack K - 150' @ 1/2" H ₂ O - 200' @ 1/2" "G" + 40% S.F. + 75% CFR-2 + 1% HR-7 - 1053' @ 1/2" "G" + Spheralite Blend + 1% HR-7 - 500' @ 1/2" mud - Did not Bump plug @ 35' over Dis. - Deep opening Bomb @ 9:00 AM - open @ 1400 psi. C.I.P. @ 9:00 AM.
Cumulative Cost: \$	4 1/2	9-1:30 CIRC F/ 2 nd STAGE Through D.V. @ 3315' = 194°F
Daily Mud Cost: \$	2 1/2	1:30-4 CEMENT 9 5/8" Csg 2 nd STAGE = 56' @ 1/2" H ₂ O - 100' @ 1/2" Preflush Spheralite (S.F. + ThermGel) - 1280' @ 1/2" "G" + 40% S.F. + 3% Gel + 1% CFR-2 + 0.1% HR-7 - Deep Closing plug - Displace w/ 1474' @ 1/2" mud - Bumped plug w/ 2000 psi. (1000 psi over pump Pressure) - D.V. Held - C.I.P. @ 4:00 PM
Cum. Mud Cost: \$	5	4-9 W.O.C. - N/D B.O.P.
MUD & CHEMICALS USED	4	9-1 Pick up B.O.P. - 1 INSTALL 9 5/8" CENTRALIZER - CUT OFF 9 5/8" Csg (32.43) - L/D B.O.P.E. + MASTER VALVE (133 3/8")
Sack Barite:	1	1-2 Recut 9 5/8" Csg + Dress
Bulk Barite:	4	2-6 Set in expansion Spool - 10" 5M MASTER VALVE + @ Spool - N/U @ 6:00 AM
Gel: <u>Name Used</u>	24	TOTAL HOURS
Caustic Soda:		Before 2 nd STAGE - Pressure TESTED 9 5/8" X 13 3/8" ANNULUS T/ 600 psi. (Held)
Lignite:		

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>8.9</u> lb/gal. Vis. <u>38</u> Sec. <u>10</u> PV <u>5</u> YP W.L. <u>26.0</u> cc/30 Sand <u>1/4</u> % pH. <u>10.8</u> Ca+ <u>200</u> PPM W.C. <u>2</u> /32" CL- <u>3000</u> PPM Oil <u>78</u> % Solids <u>4 1/2</u> % <u>18</u> lb/B* Temp. <u>100</u> °F, Gels = <u>2</u> <u>118</u> ALK. (Pf) = <u>.13</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.				RATES Penetration _____ ft/hr Bit Weight <u>10/20</u> M.lbs Rotary RPM <u>60/80</u> Pump psi <u>400</u> Pump SPM <u>45</u> Pump liners <u>7" X 16"</u> Pump output = <u>389</u> GPM Ann. Vel. = _____ ft/min. Hours Running <u>8</u> Centrifuge = _____ Reduced Pump Rate: _____ SPM = _____ psi				Well <u>STATE 2-14</u> No. days this well _____ Date <u>12-16-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>6000'</u> Yesterday's depth <u>6000'</u> Drilled <u>0</u> ft. in <u>0</u> hrs. Last casing <u>9 5/8</u> " Depth <u>6000'</u> Rotating Hrs. this report = <u>1</u> Cumulative rotating hours = _____			
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>18</u>	<u>8 1/2"</u>	<u>Varel</u>	<u>L-126</u>	<u>OUT</u>	<u>N</u>	<u>3315'</u>	<u>3316'</u>	<u>1</u>	<u>1</u>	<u>STAGE TOOL</u>			

BHA Length: 913.30 Ft., Consist of: 8 1/2" BIT-FLAT Sub-12 X 6 1/4" DC-18 X 5" HWL

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 180,000 Lb. Drilling Supervisor: G. W. Reich

DEPTH	DEV.	DIRECTION	HOURS	Operations last 24 Hours:	
				TRIP GAS	CONNECTION GAS
				Trip gas _____ units at _____ Ft. Avg. background gas _____ units	Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
				Coordinates: _____ M.D. _____ TVD _____	Present operations: <u>Circ T/Cool mud - R/U 40 machine</u>
			<u>15</u>	<u>6-9pm</u>	<u>CANT. N/U 13 3/8" 3m BOP</u>
			<u>1/2</u>	<u>9-9:30</u>	<u>TEST C 50 @ 1500 psi. (OK)</u>
Daily Cost: \$			<u>4 1/2</u>	<u>9:30-2</u>	<u>m/u BIT #18 + P/U 12 X 6 1/4" DC + R.I.H.</u>
Cumulative Cost: \$					<u>Tag Plug @ 3200' - INSTALLED ROTATING HEAD</u>
Daily Mud Cost: \$ <u>85.00</u>			<u>1/2</u>	<u>2-2:30</u>	<u>Push plug T/ 3315'</u>
Cum. Mud Cost: \$ <u>80,709.25</u>			<u>1</u>	<u>2:30-3:30</u>	<u>Drill OUT STAGE TOOL @ 3315'</u>
			<u>1/2</u>	<u>3:30-4</u>	<u>PRESSURE TEST STAGE TOOL PORTS</u>
MUD & CHEMICALS USED					<u>T/ 1500 psi. F/15min. (OK)</u>
Sack Barite:			<u>1</u>	<u>4-5</u>	<u>R.I.H. T/ 5258' (Tag Bottom plug) = 147' High</u>
Bulk Barite: <u>None Used</u>			<u>1</u>	<u>5-6</u>	<u>Circ To Cool mud @ 5258'</u>
Gel:					
Caustic Soda:			<u>24</u>		<u>TOTAL HOURS</u>
Lignite:					

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>8.9</u> lb/gal. Vis. <u>32</u> Sec. <u>4</u> PV <u>4</u> YP W.L. <u>30</u> cc/30 Sand <u>TR</u> % pH. <u>10.0</u> Ca+ <u>144</u> PPM W.C. <u>2</u> /32" CL <u>2800</u> PPM Oil <u>TR</u> % Solids <u>4</u> % <u>16</u> lb/B° Temp. <u>110</u> °F, Gels = <u>2.16</u> ALK. (Pf) = <u>.11</u> K-ion = _____ PPM Na-ion = _____ PPM At Depth = _____ Ft.		RATES Penetration _____ ft/hr Bit Weight <u>10/20</u> M.lbs Rotary RPM <u>80/100</u> Pump psi <u>1300</u> Pump SPM <u>50</u> Pump liners <u>7" x 16"</u> Pump output = <u>433</u> GPM Ann. Vel. = <u>224-309</u> ft/min. Hours Running Centrifuge = <u>8</u> Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well <u>55</u> Date <u>12-17-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>6000'</u> Yesterday's depth <u>6000'</u> Drilled <u>9</u> ft. in _____ hrs. Last casing <u>958</u> " Depth <u>6000'</u> Rotating Hrs. this report = <u>3</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>18</u>	<u>8 1/2</u>	<u>Varrel 18172</u>	<u>L-126</u>	<u>3-16</u>	<u>N</u>	<u>6000'</u>	<u>-</u>						

BHA Length: 892.32 Ft., Consist of: 8 1/2" Bit - N.B. - Manel - Stab - 12 x 6 1/4" DC
⊗ - 16x5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 185,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units
	°	'		
				Coordinates: _____ M.D. _____ TVD _____
				Present operations: <u>CONT. Drill CMT + Slog</u>
HOURS				Operations last 24 Hours:
				<u>1/2 6-6:30 CONT. Circ T/cool mud</u>
				<u>5 6:30-11:30 P.D.H. 4/D D.P.</u>
Daily Cost: \$				<u>1 11:30-12:30 TEST B.O.P.E T/1500psi - ANNULAR</u>
Cumulative Cost: \$				<u>PREVENTOR T/1000psi - WITNESSED & APPROVED BY C.D.O.G.</u>
Daily Mud Cost: \$ <u>1377.86</u>				<u>4 12:30-4:30 Mag particle inspect H.W.D.P.</u>
Cum. Mud Cost: \$ <u>82,087.11</u>				<u>10 1/2 4:30-3 M/U B.H.A. & R.I.H. - measure & P/U 5" D.P. - Rig/Down P/U machine</u>
MUD & CHEMICALS USED				<u>3 3-6 DRILL OUT CMT F/5758 - FLOAT COLLAR @ 5905 @ 6:00 AM</u>
Sack Barite:				
Bulk Barite:				
Gel:				<u>24 TOTAL Hours</u>
Caustic Soda:				
Lignite:				
T-Lig				<u>8</u>
T-Plex				<u>6</u>
P-Temp				<u>2</u>
Bicarb				<u>12</u>

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>8.7</u> lb./gal. Vis. <u>34</u> Sec. <u>8</u> PV <u>4</u> YP W.L. <u>14.0</u> cc/30 Sand <u>8</u> % pH. <u>9.5</u> Ca+ <u>140</u> PPM W.C. <u>2</u> /32" CL <u>2900</u> PPM Oil <u>8 1/2</u> % Solids <u>4</u> % <u>16</u> lb/B* Temp. <u>133</u> °F, Gels = <u>2</u> /6 ALK. (Pf) = <u>.10</u>			RATES Penetration <u>3</u> ft/hr Bit Weight <u>30</u> M.lbs Rotary RPM <u>60</u> Pump psi <u>1400</u> Pump SPM <u>45</u> Pump liners <u>7" x 16" #2</u> Pump output = <u>389</u> GPM Ann. Vel. = <u>302-378</u> ft/min. Hours Running Centrifuge = <u>24</u> Reduced Pump Rate: _____ SPM = _____ psi			Well <u>STATE 2-14</u> No. days this well _____ Date <u>12-18-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>6044'</u> Yesterday's depth <u>6000</u> Drilled <u>44</u> ft. in <u>14 1/2</u> hrs. Last casing <u>9 5/8"</u> " Depth <u>6000'</u> Rotating Hrs. this report = <u>14 1/2</u> Cumulative rotating hours = _____		
K+ion = _____ PPM Nation = _____ PPM At Depth = _____ Ft.								

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
18	8 1/2	Vaerl 18172	L-126	3-16	N	6000	6026	26	3 1/2	7.4	8	1	0 1/2
4 ^c	8 1/2	N.C. 0111813		TFA.45	N	6024	6044	18	11	1.6			

BHA Length: 891.75 Ft., Consist of: 8 1/2" Core Bit - 6 1/4" Core Bbl. - 12 x 6 1/4" OC
⊗ - 16 x 5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 190,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas		Avg. background gas	
			units at	_____ Ft.	_____ units	_____ units
			Connection gas: Max. _____ units at _____' mud wt. <u>8.7</u> lb./Gal.		Coordinates: _____ M.D. _____ TVD _____	
			Present operations: <u>P.O.H.</u>			

HOURS	Operations last 24 Hours:
1/2	6-6:30 CONT. Drill Cmt. & Shoe @ 6000'
3 1/2	6:30-10 Drill F/6000' TO 6026'
4 1/2	10-5:30 P.O.H. - L/D Manel - P/U Core Bbl & M/U Alum. inner Bbl & R.I.H. T/6026'
1/2	5:30-6 Circ & Drop Ball
11	6-5 Core F/6026' TO 6044' - 18' LOST Pump pressure - Picked up - LOST APPROX. 20,000* STRING WT.
	MUD & CHEMICALS USED
1	5-6 P.O.H.

Sack Barite:	
Bulk Barite:	
Gel:	
Caustic Soda:	
Lignite:	
T-Gel	12 Add - 120 Bbl. Diesel Oil T/mud
T-Liq	4
T-Trol III	8 Temp @ 6040' IN-133° OUT-161° F
P-Temp	1
ANTI foam	1
XC-Polymer	3
H2-Less	4

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD				RATES				Well <u>STATE 2-14</u>				
Wt. <u>8.7</u> lb/gal.	Penetration _____ ft/hr	Bit Weight _____ M.lbs		No. days this well _____		Date <u>12-19-85</u>		Operator <u>Bechtel</u>		Contractor <u>Cleveland Rig # 6</u>		
Vis. <u>34</u> Sec. <u>6</u> PV <u>8</u> YP	Rotary RPM _____	Pump psi _____		Today's depth <u>6044'</u>		Yesterday's depth <u>6044'</u>		Drilled _____ ft. in _____ hrs.		Last casing <u>9 5/8"</u> " Depth <u>6000</u>		
W.L. <u>12.4</u> cc/30 Sand <u>TR.</u> %	Pump SPM _____	Pump liners _____		Pump output = _____ GPM		Ann. Vel. = _____ ft/min.		Hours Running _____		Centrifuge = _____		
pH. <u>9.3</u> Ca+ <u>212</u> PPM	Reduced Pump Rate: _____ SPM = _____ psi	Hours Running _____		Rotating Hrs. this report = _____		Cumulative rotating hours = _____		At Depth = _____ Ft.		ALK. (Pf) = <u>.08</u>		
W.C. <u>2</u> /32" CL- <u>2900</u> PPM	K+ion = _____ PPM		Na+ion = _____ PPM		At Depth = _____ Ft.		K+ion = _____ PPM		Na+ion = _____ PPM		At Depth = _____ Ft.	
Oil <u>8 1/2</u> % Solids <u>4</u> % <u>16</u> lb/B*	K+ion = _____ PPM		Na+ion = _____ PPM		At Depth = _____ Ft.		K+ion = _____ PPM		Na+ion = _____ PPM		At Depth = _____ Ft.	
Temp. <u>110</u> °F, Gels = <u>2.18</u>	K+ion = _____ PPM		Na+ion = _____ PPM		At Depth = _____ Ft.		K+ion = _____ PPM		Na+ion = _____ PPM		At Depth = _____ Ft.	
ALK. (Pf) = <u>.08</u>	K+ion = _____ PPM		Na+ion = _____ PPM		At Depth = _____ Ft.		K+ion = _____ PPM		Na+ion = _____ PPM		At Depth = _____ Ft.	

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>49</u>	<u>8 1/2</u>	<u>NC. 0111813</u>		<u>TEA.45</u>	<u>N</u>	<u>6026'</u>	<u>6044'</u>	<u>17'</u>	<u>11</u>	<u>1.5</u>			
<u>19</u>	<u>8 1/2</u>	<u>Sec 888510</u>	<u>M-44N</u>	<u>OUT</u>	<u>N</u>	<u>6044'</u>	<u>-</u>	<u>TURBO</u>					

BHA Length: 810.40 Ft., consist of: 8 1/2" Bit - Turbo - 1 1/2" Kick Sub - Manel - 9 x 6 1/4" D.C. - (X) - 16 x 5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 185,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	TRIP GAS	
	0			units at _____ Ft.	Avg. background gas _____ units
				Connection gas: Max. _____ units at _____ ' mud wt. <u>8.7</u> lb./Gal.	Coordinates: _____ M.D. _____ TVD _____
				Present operations: <u>CONT. R.I.H. w/ TURBO DRILL.</u>	

HOURS	OPERATIONS LAST 24 HOURS:
<u>1</u>	<u>6-7 CONT. P.O.H. (Twist-off Box DCX 10) TOP fish @ 5703' (341')</u>
<u>11</u>	<u>7-6 Rig up Schlumberger & Run CBL & CTS E/5700' TO SURFACE & Rig DOWN</u>
<u>7</u>	<u>6-1 m/u 7 3/4" OVERSHOT & 6 1/4" GRAPPLE & R.I.H. WORKOVER fish @ 5703' & P.O.H. (100% RECOVER)</u>
<u>1</u>	<u>1-2 SER CORE BBL. RECOVERED CORE 17' (100%) & 4/D CORE BBL.</u>
MUD & CHEMICALS USED	
<u>1</u>	<u>2-3 m/u mud motor (Turbo) + B.H.A. & R.I.H.</u>
<u>2</u>	<u>3-5 R.I.H. inspecting 6 1/4" DC. 4D 1 DC</u>
<u>1</u>	<u>5-6 R.I.H. @ 6:00 AM</u>
Gel:	
Caustic Soda:	
Lignite: <u>24 TOTAL HOURS</u>	

<u>T-TRAIL III</u>	<u>1</u>
<u>Pre-Temp</u>	<u>1</u>
<u>XC-polymer</u>	<u>1</u>

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD		RATES		Well <u>STATE 2-14</u>	
Wt. <u>8.7</u> lb/gal.	Penetration <u>3.3</u> ft/hr	No. days this well _____ Date <u>12-20-85</u>		Operator <u>Bechtel</u>	
Vis. <u>32</u> Sec. <u>5</u> PV <u>6</u> YP	Bit Weight <u>5110</u> M.lbs	Contractor <u>Cleveland Rig #6</u>		Today's depth <u>6079'</u>	
W.L. <u>15.0</u> cc/30 Sand <u>Nil</u> %	Rotary RPM _____	Yesterday's depth <u>6044'</u>		Drilled <u>35</u> ft. in <u>10</u> hrs.	
pH. <u>9.8</u> Ca+ <u>160</u> PPM	Pump psi <u>1700</u>	Last casing <u>9 5/8"</u> " Depth <u>6000'</u>		Rotating Hrs. this report = <u>10</u>	
W.C. <u>2</u> /32" CL- <u>3100</u> PPM	Pump SPM <u>40-40</u>	Cumulative rotating hours = _____			
Oil <u>7</u> % Solids <u>4</u> % <u>16</u> lb/B*	Pump liners <u>6"-7" x 16"</u>				
Temp. <u>110</u> °F, Gels = <u>2.6</u>	Pump output = <u>598</u> GPM				
ALK. (Pf) = <u>.06</u>	Ann. Vel. = <u>310-427</u> ft/min.				
K+ion = _____ PPM	Hours Running _____				
Na+ion = _____ PPM	Centrifuge = <u>24</u>				
At Depth = _____ Ft.	Reduced Pump Rate: _____ SPM = _____ psi				

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
19	8 1/2	Sec BB-8510	m-44N	OUT	N	6044'	6046'	2'	4	1/2	1	1	I
20	8 1/2	Varel 20855	V-527	OUT	N	6046'	6079'	33'	6	5.5	7	8	0 1/2
21	8 1/2	Varel	V-527	OUT	N	6079'	-	0	0		1	NC	

BHA Length: 810.57 Ft. Consist of: 8 1/2" Bit-Turbo-1 1/2" Kick Sub-9x6 1/4" DC
2" Sub-1 1/2 x 5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 190,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2 300 PPM</u> units
			Connection gas: Max. _____ units at _____ mud wt. <u>8.7</u> lb./Gal.
			Coordinates: _____ M.D. _____ TVD <u>6</u>
			Present operations: <u>R.I.H.</u>

HOURS	Operations last 24 Hours:
1	6-7 CONT. R.I.H. T/6044'
1 1/2	7-8:30 Circ & Cool mud

Daily Cost: \$ _____	1/2	8:30-9 ORIENT Turbo Drill
Cumulative Cost: \$ _____	4	9-1 Turbo Drill F/6044' To 6046'
Daily Mud Cost: \$ <u>1311.44</u>	4	1-5 P.O.H. & LD Turbo (NOT TURNING) P/U
Cum. Mud Cost: \$ <u>93,996.23</u>	1	5-6 CUT & Slip Drill Line 100'
	1 1/2	6-7:30 CONT. R.I.H. 6000'

MUD & CHEMICALS USED	Quantity	Operations
Sack Barite:	1	7:30-8:30 Ream w/ Turbo Drill F/6000' To 6046'
Bulk Barite:	1/2	8:30-9 ORIENT Turbo Drill
Gel:	4	9-1 Turbo Drill F/6046' To 6071'
Caustic Soda:	1/2	1-1:30 Survey @ 6024'
Lignite:	2	1:30-3:30 Turbo Drill F/6071' To 6079'
T-Gel	2 1/2	3:30-6 P.O.H. & Chg BITS @ 6:00AM
T-Trol III	12	
SX-L	2	24 TOTAL Hours
Naoh	4	1 Rig Repair
Caoh	2	23 Rig Time
H-2 Less	1	
	2	

H.T. - H.P. W/L: OUT

Field: SALTON SEA

MUD Wt. <u>8.7</u> lb/gal. Vis. <u>38</u> Sec. <u>8</u> PV <u>7</u> YP W.L. <u>21.6</u> cc/30 Sand <u>TR.</u> % pH. <u>8.9</u> Ca+ <u>272</u> PPM W.C. <u>3</u> /32" CL- <u>4200</u> PPM Oil <u>7</u> % Solids <u>4</u> % /16 lb/B* Temp. <u>102</u> °F, Gels = <u>2.16</u> ALK. (Pf) = <u>.07</u> K-ion = _____ PPM Nation = _____ PPM At Depth = _____ Ft.		RATES Penetration _____ ft/hr Bit Weight <u>5</u> M.lbs Rotary RPM <u>100</u> Pump psi <u>1400</u> Pump SPM <u>40</u> Pump liners <u>7"x16"</u> Pump output = <u>346</u> GPM Ann. Vel. = <u>179-247</u> ft/min. Hours Running Centrifuge = <u>12</u> Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>12-21-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>6112'</u> Yesterday's depth <u>6079'</u> Drilled <u>33'</u> ft. in <u>3 1/2</u> hrs. Last casing <u>9 5/8"</u> " Depth <u>6000'</u> Rotating Hrs. this report = <u>5 1/2</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>21</u>	<u>8 1/2"</u>	<u>Varel 20845</u>	<u>V-527</u>	<u>OUT</u>	<u>N</u>	<u>6079'</u>	<u>6112'</u>	<u>33'</u>	<u>3 1/2</u>	<u>9.4</u>	<u>7</u>	<u>7</u>	<u>0 1/2</u>
<u>19^{EE}</u>	<u>8 1/2"</u>	<u>Sec BB8510</u>	<u>M44N</u>	<u>3-13</u>	<u>N</u>	<u>6040</u>	<u>-</u>			<u>Reaming</u>			

BHA Length: 792.79 Ft., Consist of: 8 1/2" BIT-8 1/2" Near Bit-Manel-9x6 1/4" DC
Ø - 16x5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 190,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2 300ppm</u> units
	o		Connection gas: Max. _____ units at _____ mud wt. <u>8.7</u> lb./Gal.
			Coordinates: _____ M.D. _____ TVD _____
			Present operations: <u>Ream F/ 6080'</u>

HOURS	Operations last 24 Hours:
<u>2</u>	<u>6-8 R.I.H. w/ BIT #21</u>
<u>1</u>	<u>8-9 Ream F/ 6009' To 6079'</u>

Daily Cost: \$ _____	<u>1/2</u>	<u>9-9:30 Orient Turbo Drill</u>
Cumulative Cost: \$ _____	<u>3</u>	<u>9:30-12:30 Drill w/ Turbo F/ 6079' To 6100'</u>
	<u>1/2</u>	<u>12:30-1 Survey @ 6060'</u>
Daily Mud Cost: \$ <u>1051.56</u>	<u>1/2</u>	<u>1-1:30 Drill w/ Turbo F/ 6079' To 6112'</u>
Cum. Mud Cost: \$ <u>95,047.29</u>	<u>2 1/2</u>	<u>1:30-4 P.O.H. (Lost BIT & Turbo mandrel in Hole) - L/D Turbo</u>

MUD & CHEMICALS USED	QUANTITY	DESCRIPTION
Sack Barite:	<u>11</u>	<u>6-5 m/u Fish Tools & R.I.H. (overshot w/ 3 1/8" Grapple) - Work over Fish @ 6109'</u>
Bulk Barite:		<u>& P.O.H. - L/D Fish Tools (100% Rec.)</u>
Gel:		<u>m/u BIT #19^{EE} - plus manel & B.H.A. & BIT #1/6040'</u>
Caustic Soda:		
Lignite:		
T-Gel	<u>12</u>	<u>1 5-6 Ream F/ 6040' To 6080' @ 6:00 AM</u>
T-Teal III	<u>2</u>	
SXL	<u>2</u>	<u>24 TOTAL HOURS</u>
NaOH	<u>2</u>	
CaOH	<u>1</u>	
AL STR.	<u>1</u>	<u>Temp @ 6110 14-121°F OUT-153°F</u>
H-2 Less	<u>1</u>	

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>8.7</u> lb/gal. Vis. <u>34</u> Sec. <u>5</u> PV <u>5</u> YP W.L. <u>12.0</u> cc/30 Sand <u>TR</u> % pH. <u>10.2</u> Ca+ <u>200</u> PPM W.C. <u>2</u> /32" CL <u>3400</u> PPM Oil <u>7</u> % Solids <u>4</u> % <u>18</u> lb/B° Temp. <u>120</u> °F, Gels = <u>218</u> ALK. (Pf) = <u>.05</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>8</u> ft/hr Bit Weight <u>5</u> M.lbs Rotary RPM _____ Turbo Pump psi <u>1800</u> Pump SPM <u>42-42</u> Pump liners <u>6"-7" X 16"</u> Pump output = <u>628</u> GPM Ann. Vel. = <u>326-449</u> ft/min. Hours Running _____ Centrifuge = <u>24</u> Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well <u>60</u> Date <u>12-22-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>6166'</u> Yesterday's depth <u>6112'</u> Drilled <u>54'</u> ft. in <u>8 1/2</u> hrs. Last casing <u>9 3/8</u> " Depth <u>6000'</u> Rotating Hrs. this report = <u>1 1/2</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
19 th	8 1/2	Sec BB8510	M44N	3-13	N	6112'	Ream		2 1/2				
22	8 1/2	Varel 20737	V-527	OUT	N	6112'	6146'	34	4 1/2		6	7	0 3/8
23	8 1/2	Varel 20856	V-527	OUT	N	6146'	6166'	20	3 1/2		6	7	0 1/2

BHA Length: 792.79 Ft., Consist of: 8 1/2" Bit - 8 1/2" N.B. - 6 1/4" Movel - X 6 1/4" DC

⊗ - 16 X 5" H.W.

24 8 1/2" Sec. BB8513 M44N - 3-13 N 6166' Reaming

BHA Wt. In Mud: _____ Lb.

Total String Wt.: 190,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2 300 ppm</u> units Connection gas: Max. _____ units at _____ mud wt. <u>8.7</u> lb./Gal. Coordinates: <u>N 120.38 E</u> M.D. <u>6121'</u> TVD <u>6108'</u> Present operations: <u>R.I.H. T/ Ream</u>
	°	'		
<u>6121</u>	<u>6°</u>	<u>15'</u>	<u>S-89-E</u>	
<u>6086</u>	<u>7°</u>	<u>15'</u>	<u>N-87-E</u>	

HOURS	Operations last 24 Hours:
<u>1 1/2</u>	<u>6:00 - 7:30 CONT. Reaming F/6080 To 6112'</u>
<u>1</u>	<u>7:30 - 8:30 Circ & Survey @ 6086'</u>
<u>4</u>	<u>8:30 - 12:30 P.D.H. - P/U Turbo & 1 1/2" K.S. & R.I.H. T/ 6112'</u>
<u>1/2</u>	<u>12:30 - 1 OREINT Turbo Drill @ 6112'</u>
<u>5</u>	<u>1 - 6 Turbo Drill F/ 6112' To 6146'</u>
<u>3 1/2</u>	<u>6 - 9:30 P.D.H. & Chg Bits & R.I.H. T/ 6146'</u>
<u>1/2</u>	<u>9:30 - 10:30 Circ & oreint Turbo @ 6146'</u>
<u>1/2</u>	<u>10:30 - 11 Ream F/ 6112' To 6146'</u>
<u>3 1/2</u>	<u>11 - 2:30 Turbo Drill F/ 6146' To 6166'</u>
<u>1/2</u>	<u>2:30 - 3 Circ & Survey @ 6121'</u>
<u>3</u>	<u>3 - 6 P.O.H. & LD Turbo - m/u BIT # 24 & R.I.H. @ 6:00 AM</u>

Daily Cost: \$ _____

Cumulative Cost: \$ _____

Daily Mud Cost: \$ 2,665.81

Cum. Mud Cost: \$ 97,713.60

MUD & CHEMICALS USED

Sack Barite: _____

Bulk Barite: _____

Gel: _____

Caustic Soda: _____

Lignite: _____

T-Gel 24 24 TOTAL Hours

T-Treat III 3

Pro-Temp 2

SXL 1 Lossing F/ 34-66 8bls/hr F/ 6119 To 6160'

Naoh 2

CAph 3

H-2 Less 2

XC-Polymer 2

H.T. - H.P. W/L: _____

Field: SALTON SEA

Wt. <u>8.7</u> MUD lb/gal. Vis. <u>34</u> Sec. <u>6</u> PV <u>4</u> YP W.L. <u>45.0</u> cc/30 Sand <u>TR.</u> % pH. <u>10.0</u> Ca+ <u>264</u> PPM W.C. <u>2</u> /32" CL- <u>4900</u> PPM Oil <u>7</u> % Solids <u>4</u> % <u>18</u> lb/B* Temp. <u>120</u> °F, Gels = <u>2</u> / <u>12</u> ALK. (Pf) = <u>.10</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>16</u> ft/hr Bit Weight <u>5</u> M.lbs Rotary RPM _____ Pump psi <u>1700</u> Pump SPM <u>40-40</u> Pump liners <u>6"-7" X 16"</u> Pump output = <u>598</u> GPM Ann. Vel. = <u>310-427</u> ft/min. Hours Running _____ Centrifuge = <u>24</u> Reduced Pump Rate = _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>12-23-85</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>6227'</u> Yesterday's depth <u>6166'</u> Drilled <u>61'</u> ft. in <u>4 1/2</u> hrs. Last casing <u>9 5/8</u> " Depth <u>6000'</u> Rotating Hrs. this report = <u>2 1/2</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
24	8 1/2	Sec BB8513	M44N	3-13	N	6166	REAM						
25	8 1/2	Varel 16926	V-617	OUT	N	6166	6227	61	4 1/2		7	7	D 1/4
24 th	8 1/2	Sec BB8513	M44N	3-13	N	6227	REAM						

BHA Length: 792.79 Ft., Consist of: 8 1/2" BIT - N.B. - Monel - 9x6 1/4" DC - 8
16x5" H.W.

BHA Wt. in Mud: _____ Lb.
 Total String Wt.: 190,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas units at Ft. Avg. background gas <u>CO2 300 ppm</u> units
	o	o		
6153	4°	30	S-86-E	Coordinates: M.D. TVD
6187	3°	30	S-64-E	Present operations: <u>Reaming</u>

HOURS	Operations last 24 Hours:
3 1/2	6-9:30 M/U BIT #24 & R.I.H. T/6112'
1 1/2	9:30-11 REAM F/6112' TO 6166'
1	11-12 Circ @ 6166'
1 1/2	12-1:30 Survey @ 6166'
4	1:30-5:30 P.O.H. & P/U Turbo-T/6166'
1/2	5:30-6 Circ @ 6166'
1/2	6-6:30 ORRINT Turbo
2	6:30-8:30 Turbo Drill F/6166'
1/2	8:30-9:00 Survey @ 6153'
2 1/2	9-11:30 Turbo Drill T/6227'
1/2	11:30-12 Survey @ 6187'
5	12-5 P.O.H. 4/P Turbo & M/U BIT #24 RE & R.I.H. T/6166'
1	5-6 REAM F/6166' TO 6227'

MUD & CHEMICALS USED	
Sack Barite:	
Bulk Barite:	
Gel:	
Caustic Soda:	
Lignite:	
T-Gel	20
T-Trip III	2
Pro-Temp	2
Nash	2
Caoh	2
24 TOTAL Hours	
Losing 2-20 Bbls p/hr.	

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD				RATES				Well <u>STATE 2-14</u>			
Wt. _____ lb/gal.	Penetration _____ ft/hr	No. days this well _____		Date <u>12-24-85</u>		Operator <u>Bechtel</u>		Contractor <u>Cleveland Rig #6</u>		Today's depth <u>6227'</u>	
Vis. _____ Sec. _____ PV _____ YP _____	Bit Weight _____ M.lbs	Rotary RPM _____		Pump psi _____		Yesterday's depth <u>6227'</u>		Drilled _____ ft. in _____ hrs.		Last casing <u>9 5/8"</u> " Depth <u>6000'</u>	
W.L. _____ cc/30 Sand _____ %	Pump SPM _____	Pump liners _____		Pump output = _____ GPM		Ann. Vel. = _____ ft/min.		Hours Running _____		Centrifuge = _____	
pH. _____ Ca+ _____ PPM	Pump SPM _____	Reduced Pump Rate: _____ SPM = _____ psi		Rotating Hrs. this report = _____		Cumulative rotating hours = _____					
W.C. _____ /32" CL _____ PPM	Temp. _____ °F. Gels = _____ / _____	ALK. (Pf) = _____		K+ion = _____ PPM		Na+ion = _____ PPM		At Depth = _____ Ft.			

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	

BHA Length: _____ Ft., Consist of: _____

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units							
	o	30		Connection gas: Max. _____ units at _____' mud wt. _____ lb./Gal.							
<u>6183</u>	<u>3°</u>	<u>30</u>	<u>S-64-E</u>	Coordinates: _____ M.D. _____ TVD _____							
				Present operations: <u>STANDBY SECURED</u>							

HOURS	Operations last 24 Hours:		
<u>1/2</u>	<u>6-6:30</u>	<u>CONT. REAM TO 6227'</u>	
<u>1/2</u>	<u>6:30-8</u>	<u>CIRC @ 6227'</u>	
	<u>1/2</u>	<u>8-8:30</u>	<u>SURVEY @ 6183'</u>
	<u>2</u>	<u>8:30-10:30</u>	<u>DISPLACE HOLE W/ H2O @ 6227'</u>
	<u>2</u>	<u>10:30-12:30</u>	<u>P.O.H. (SHUT IN MASTER VALVE)</u>
	<u>11 1/2</u>	<u>12:30-12</u>	<u>NIPPLE DOWN B.D.P.E. & NIPPLE UP</u>
	<u>4</u>	<u>12-4</u>	<u>R/U USGS & RUN TEMP SURVEY</u>
	<u>2</u>	<u>4-6</u>	<u>RIG ON STANDBY SECURED @ 4:00AM 12-24-85</u>
MUD & CHEMICALS USED			
Sack Barite:			
Bulk Barite:			
Gel:	<u>22</u> hours Rig Time		
Caustic Soda:	<u>2</u> STANDBY SECURED		
Lignite:	<u>24</u> TOTAL		

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. _____ lb/gal. Vis. _____ Sec. _____ PV _____ YP _____ W.L. _____ cc/30 Sand _____ % pH. _____ Ca+ _____ PPM W.C. _____ /32" CL _____ PPM Oil _____ % Solids _____ % lb/B* Temp. _____ °F, Gels = _____ / _____ ALK. (Pf) = _____ K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.				RATES Penetration _____ ft/hr Bit Weight _____ M.lbs Rotary RPM _____ Pump psi _____ Pump SPM _____ Pump liners _____ Pump output = _____ GPM Ann. Vel. = _____ ft/min. Hours Running Centrifuge = _____ Reduced Pump Rate: _____ SPM = _____ psi				Well <u>STATE 2-14</u> No. days this well _____ Date <u>12-25-85</u> Operator <u>Beechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>6227'</u> Yesterday's depth <u>6227'</u> Drilled <u>0</u> ft. in _____ hrs. Last casing <u>9 3/8"</u> Depth <u>6000'</u> Rotating Hrs. this report = _____ Cumulative rotating hours = _____			
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	

BHA Length: _____ Ft., Consist of: _____

BHA Wt. In Mud: _____ Lb.

Total String Wt.: _____ Lb.

Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas units at Ft. Avg. background gas units Connection gas: Max. units at ' mud wt. lb./Gal. Coordinates: M.D. TVD Present operations: <u>STand by Secured</u>
	°	'		

HOURS	Operations last 24 Hours:
<u>24</u>	<u>6-6 STAnd by Secured</u>

Daily Cost: \$ _____

Cumulative Cost: \$ _____

Daily Mud Cost: \$ _____

Cum. Mud Cost: \$ _____

MUD & CHEMICALS USED

Sack Barite:	
Bulk Barite:	
Gel:	
Caustic Soda:	
Lignite:	

H.T. - H.P. W/L: _____

Field: SALTON SEA

<p style="text-align: center;">MUD</p> <p>Wt. _____ lb/gal.</p> <p>Vis. _____ Sec. _____ PV _____ YP _____</p> <p>W.L. _____ cc/30 Sand _____ %</p> <p>pH. _____ Ca+ _____ PPM</p> <p>W.C. _____ /32" CL _____ PPM</p> <p>Oil _____ % Solids _____ % lb/B°</p> <p>Temp. _____ °F, Gels = _____ /</p> <p>ALK. (Pf) = _____</p> <p>K-ion = _____ PPM</p> <p>Na-ion = _____ PPM</p> <p>At Depth = _____ Ft.</p>	<p style="text-align: center;">RATES</p> <p>Penetration _____ ft/hr</p> <p>Bit Weight _____ M.lbs</p> <p>Rotary RPM _____</p> <p>Pump psi _____</p> <p>Pump SPM _____</p> <p>Pump liners _____</p> <p>Pump output = _____ GPM</p> <p>Ann. Vel. = _____ ft/min.</p> <p>Hours Running _____</p> <p>Centrifuge = _____</p> <p>Reduced Pump Rate: _____ SPM = _____ psi</p>	<p>Well <u>STATE 2-14</u></p> <p>No. days this well _____ Date <u>12-27-85</u></p> <p>Operator <u>Bechtel</u></p> <p>Contractor <u>Cleveland Rig #6</u></p> <p>Today's depth <u>6227'</u></p> <p>Yesterday's depth <u>6227'</u></p> <p>Drilled <u>0</u> ft. in _____ hrs.</p> <p>Last casing <u>95/8"</u> " Depth <u>6000'</u></p> <p>Rotating Hrs. this report = _____</p> <p>Cumulative rotating hours = _____</p>
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	

BHA Length: _____ Ft., Consist of: _____

BHA Wt. In Mud: _____ Lb.

Total String Wt.: _____ Lb. Drilling Supervisor: G. W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units
	o	.		
				Coordinates: _____ M.D. _____ TVD _____
				Present operations: <u>STAND by Secured</u>
				HOURS Operations last 24 Hours:
				<u>24 6-6 STAND by Secured</u>

Daily Cost: \$ _____

Cumulative Cost: \$ _____

Daily Mud Cost: \$ _____

Cum. Mud Cost: \$ _____

MUD & CHEMICALS USED

Sack Barite: _____

Bulk Barite: _____

Gel: _____

Caustic Soda: _____

Lignite: _____

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>8.6</u> lb/gal. Vis. <u>33</u> Sec. _____ PV _____ YP _____ W.L. _____ cc/30 Sand _____ % pH. _____ Ca+ _____ PPM W.C. _____ /32" CL _____ PPM Oil _____ % Solids _____ % lb/B* Temp. _____ °F, Gels = _____ l ALK. (Pf) = _____ K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration _____ ft/hr Bit Weight <u>0/5</u> M.lbs Rotary RPM <u>100</u> Pump psi <u>1600</u> Pump SPM <u>45</u> Pump liners <u>7" X 16"</u> Pump output = _____ GPM Ann. Vel. = _____ ft/min. Hours Running _____ Centrifuge = _____ Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>1-2-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>6227'</u> Yesterday's depth <u>6227'</u> Drilled <u>0</u> ft. in <u>0</u> hrs. Last casing <u>9 5/8</u> " Depth <u>6000'</u> Rotating Hrs. this report = <u>1/2</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>26</u>	<u>8 1/2</u>	<u>Sec BB8516</u>	<u>M44N</u>	<u>3-13</u>	<u>N</u>	<u>6105'</u>	<u>6227'</u>	<u>62'</u>	<u>1/2</u>	<u>Ream</u>			

BHA Length: 792.79 Ft., Consist of: 8 1/2 BIT - 8 1/2 Near Bit - Monel - 9X 6 1/4" DC
⊗ - 16 X 5" H.W.DP.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 190,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas		Avg. background gas	
			units at	_____ Ft.	_____ units	_____ units
			Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.		Coordinates: _____ M.D. _____ TVD _____	
			Present operations: <u>CIRC & Cond Mud @ 6227'</u>			

HOURS	Operations last 24 Hours:
<u>6</u>	<u>6-12 - CONT. REINJECT BRINE</u>
<u>1</u>	<u>12-1 - Bull Head 200 Bbls Fresh H2O</u>
<u>1</u>	<u>1-2 - Bull Head 420 Bbls Mud</u>
<u>13</u>	<u>2-3am - Shut in well w/ 10" Master Valve - Remove TEST TREE - SET IN 13 3/8 3-m B.O.P & Nipple up</u>
<u>1 1/2</u>	<u>3-4:30 - m/w BIT #26 & R.I.H. T/4427'</u>
<u>1/2</u>	<u>4:30-5 - BREAK CIRC @ 4427'</u>
<u>1/2</u>	<u>5-5:30 - CONT. R.I.H. T/6105'</u>
<u>1/2</u>	<u>5:30-6 - Ream F/6105' To 6227' (62' Fill)</u>
<u>24</u>	<u>TOTAL HOURS</u>

MUD & CHEMICALS USED	
Sack Barite:	
Bulk Barite:	<u>None Used</u>
Gel:	
Caustic Soda:	
Lignite:	

H.T. - H.P. W/L: _____

Field: SATON SEA

MUD Wt. <u>8.7</u> lb/gal. Vis. <u>40</u> Sec. <u>8</u> PV <u>14</u> YP W.L. <u>18.4</u> cc/30 Sand <u>TR</u> % pH. <u>8.8</u> Ca+ <u>768</u> PPM W.C. <u>2</u> /32" CL- <u>9200</u> PPM Oil <u>6</u> % Solids <u>4 1/2</u> % <u>16</u> lb/B* Temp. <u>100</u> °F, Gels = <u>6</u> <u>122</u> ALK. (Pf) = <u>.04</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.				RATES Penetration <u>20</u> ft/hr Bit Weight <u>0/10</u> M.lbs Rotary RPM <u>80</u> Pump psi <u>1600</u> Pump SPM <u>45</u> Pump liners <u>7" X 16"</u> Pump output = <u>390</u> GPM Ann. Vel. = <u>202-278</u> ft/min. Hours Running Centrifuge = <u>24</u> Reduced Pump Rate: _____ SPM = _____ psi				Well <u>STATE 2-14</u> No. days this well _____ Date <u>1-3-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>6316'</u> Yesterday's depth <u>6227'</u> Drilled <u>89'</u> ft. in <u>5 1/2</u> hrs. Last casing <u>9 5/8</u> " Depth <u>6000'</u> Rotating Hrs. this report = <u>1 1/2</u> Cumulative rotating hours = _____			
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
26	8 1/2	Sec BB8516	M44N	3-13	N	6105'	6227'	122'		REAM	2	2	I
27	8 1/2	Reed 890215	FP-51	OUT	N	6227'	6316'	89'	5 1/2	T.D.	7	7	I
28	8 1/2	HTC BB 8777	J-22	3-13	N	6227'	6316'	89'		REAM	1	N	C

BHA Length: 801.88 Ft., Consist of: 8 1/2" BIT - 8 1/2" 6 PT. REAMER - MONEL - 8 1/2"

STAB - 9 X 6 1/4" D.C. - (X) - 16 X 5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 195,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2 300ppm</u> units
	°	'		
6205	3°	30	S-64-E	Connection gas: Max. _____ units at _____ mud wt. <u>8.7</u> lb./Gal.
6223	3°	15	S-44-E	Coordinates: _____ M.D. _____ TVD _____
6255	3°	-	S-18-E	Present operations: <u>CONT. REAMING TO 6316'</u>

HOURS	Operations last 24 Hours:
1/2	6-6:30 CONT. Reaming To 6227'
2	6:30-8:30 Circ & Cond mud @ 6227'

Daily Cost: \$	1	8:30-9:30 P.O.H. T/6000 - R.I.H. T/6227'
Cumulative Cost: \$		CK-F/Fill N/Fill
Daily Mud Cost: \$ <u>1391.24</u>	1/2	9:30-10 SURVEY @ 6205
Cum. Mud Cost: \$ <u>100,369.24</u>	4 1/2	10-2:30 P.O.H. & P/U Turbo Drill & R.I.H. T/6227'
	1/2	2:30-3 BREAK CIRC @ 6227'

MUD & CHEMICALS USED		HOURS	Operations last 24 Hours:
Sack Barite: <u>3</u>	8	3:30-11:30	TURBO DRILL @ 6227'
Bulk Barite:			w/ SURVEYS @ 6223' & 6255'
Gel: <u>6</u>	5 1/2	11:30-5	P.O.H. & L/D TURBO DRILL - M/U BIT #28
Caustic Soda:			R.I.H. w/ BHA
Lignite:	1	5-6	REAM F/ 6227' TO 6272' @ 6:00 AM

T-Gel	24		
T-Lube	3	24	TOTAL HOURS.
ProTemp	3		
SXL	1		
KAL	21		LOSING 50/100 Bbls/hr F/ 6227' TO 6316'
NAOH	3		
CAOH	1		2-Coolers ON @ 6280'
ANTI-foam	8		
BACL2	1		
SANDUST	28		
XC-Polymer	1		

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD				RATES				Well <u>STATE 2-14</u>			
Wt. <u>8.6</u>	lb/gal.	Penetration <u>27</u>	ft/hr	No. days this well <u>73</u>	Date <u>1-4-86</u>	Operator <u>Bechtel</u>		Contractor <u>Cleveland Rig #6</u>		Today's depth <u>6517'</u>	
Vis. <u>34</u>	Sec. <u>6</u>	PV <u>6</u>	YP	Bit Weight <u>25</u>	M.lbs	Rotary RPM <u>60</u>		Pump psi <u>700</u>		Yesterday's depth <u>6316'</u>	
W.L. <u>20.6</u>	cc/30 Sand <u>TR.</u>	%		Pump SPM <u>40</u>		Pump liners <u>7" x 16"</u>		Pump output = <u>346</u>		Drilled <u>201'</u> ft. in <u>9</u> hrs.	
pH. <u>8.8</u>	Ca+ <u>420</u>	PPM		Ann. Vel. = <u>179-247</u>	ft/min.	Hours Running Centrifuge = <u>18</u>		Reduced Pump Rate = _____		Last casing <u>9 5/8"</u> " Depth <u>6000</u>	
W.C. <u>2</u>	1/32" CL <u>5800</u>	PPM				Rotating Hrs. this report = <u>10</u>		Cumulative rotating hours = _____			
Oil <u>4</u>	% Solids <u>4</u>	% <u>16</u>	lb/B°								
Temp. <u>120</u>	°F, Gels = <u>2.16</u>										
ALK. (Pf) = <u>.02</u>											
K-ion = _____	PPM										
Na-ion = _____	PPM										
At Depth = <u>6517'</u>	Ft.										

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>28</u>	<u>8 1/2</u>	<u>HTC 888777</u>	<u>J-22</u>	<u>3-13</u>	<u>N</u>	<u>6316'</u>	<u>6506'</u>	<u>190'</u>	<u>7</u>	<u>27.1</u>	<u>2</u>	<u>2</u>	<u>I</u>
<u>5^{CH}</u>	<u>8 1/2</u>	<u>N.C. 0111403</u>	<u>RC-476</u>	<u>TFA-60</u>	<u>N</u>	<u>6506'</u>	<u>6517'</u>	<u>11</u>	<u>2</u>	<u>5.5</u>	<u>Jammed</u>		
<u>29</u>	<u>8 1/2</u>	<u>Varel</u>	<u>627</u>	<u>3-13</u>	<u>N</u>	<u>6517'</u>	<u>-</u>	<u>0</u>			<u>I.N.C.</u>		

BHA Length: 793.88 Ft., Consist of: 8 1/2" Core Bit - Core Bbl. - 9 x 6 1/4" D.C. - 16 x 5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 195,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas ^{CO2} <u>300 ppm</u> units
	°	'		
<u>6324</u>	<u>4°</u>	<u>30</u>	<u>S-31-W</u>	Connection gas: Max. _____ units at _____ mud wt. <u>8.6</u> lb./Gal.
<u>6387</u>	<u>4°</u>	<u>30</u>	<u>S-39-W</u>	Coordinates: _____ M.D. _____ TVD _____
<u>6466</u>	<u>5°</u>	<u>0</u>	<u>S-38-W</u>	Present operations: <u>m/u BIT # 29 & B.H.A.</u>

HOURS	Operations last 24 Hours:
<u>1</u>	<u>6-7 CONT. Reaming To 6316'</u>
<u>2</u>	<u>7-9 Drill F/ 6316' To 6379'</u>
<u>1</u>	<u>9-10 Circ & Survey @ 6324'</u>
<u>2</u>	<u>10-12 Drill F/ 6379' To 6442'</u>
<u>1</u>	<u>12-1 Circ & Survey @ 6387'</u>
<u>3</u>	<u>1-4 Drill F/ 6442' To 6506'</u>
<u>1</u>	<u>4-5 Circ & Survey @ 6466'</u>
<u>3</u>	<u>5-8 P.D.H. & L/D Manel - 6PT. Reamer & Stab</u>
<u>1/2</u>	<u>8-8:30 Slip D.L. 50'</u>
<u>3</u>	<u>8:30-11:30 P/U Core Bbl & R.T.H. T/ 6506'</u>
<u>1/2</u>	<u>11:30-12 Circ @ 6506'</u>
<u>2</u>	<u>12-2 CUT CORE # 18 F/ 6506' To 6517'</u>
	<u>Core Bbl. (Jammed) 11'</u>
<u>3</u>	<u>2-5 P.O.H.</u>
<u>1</u>	<u>5-6 Service Core Bbl. & L/D Alum. inner Bbl.</u>
<u>10</u>	
<u>8</u>	<u>24 TOTAL Hours</u>
<u>4</u>	
<u>45</u>	<u>LOSING 15-20 Bbls./hr. (controlling w/ sawdust)</u>
<u>1</u>	
<u>3</u>	<u>Temp IN = 105°F @ 6517'</u>
	<u>OUT = 142°F @ 6517'</u>

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>8.6</u> lb/gal. Vis. <u>33</u> Sec. <u>5</u> PV <u>7</u> YP W.L. <u>22.2</u> cc/30 Sand <u>Nil</u> % pH. <u>10.4</u> Ca+ <u>56</u> PPM W.C. <u>2</u> /32" CL- <u>1400</u> PPM Oil <u>Nil</u> % Solids <u>2 1/2</u> % <u>16</u> lb/B" Temp. <u>62</u> °F, Gels = <u>4.18</u> ALK. (Pf) = <u>.06</u> K-ion = _____ PPM Na-ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>28</u> ft/hr Bit Weight <u>25</u> M.lbs Rotary RPM <u>80</u> Pump psi <u>1000</u> Pump SPM <u>30</u> Pump liners <u>7" X 16"</u> Pump output = <u>190</u> GPM Ann. Vel. = <u>98-135</u> ft/min. Hours Running Centrifuge = <u>10</u> Reduced Pump Rate = _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>1-5-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>6663'</u> Yesterday's depth <u>6517'</u> Drilled <u>146'</u> ft. in <u>6 1/2</u> hrs. Last casing <u>9 5/8"</u> " Depth <u>6000'</u> Rotating Hrs. this report = <u>6 1/2</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
31	8 1/2	Varel 20859	V-527	3-13	N	6517'	6663'	146'	6 1/2	22.4	1	N	C

BHA Length: 801.88 Ft., Consist of: 8 1/2" BIT - 6PT. Reamer - Manel - Stab - 9x6 1/4" DC
⊗ - 16 X 5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 202,000 Lb. Drilling Supervisor: _____

DEPTH	DEV.		DIRECTION	CO ₂ Trip gas <u>4000</u> ppm units at <u>6517'</u> Ft. Avg. background gas <u>CO₂ 3.0</u> ppm units
	°	°		
6513'	5°	0	5-38-W	Connection gas: Max. _____ units at _____ mud wt. <u>8.7</u> lb./Gal.
6577'	5°	30	5-40-W	Coordinates: _____ M.D. _____ TVD _____

Present operations: Drilling Ahead w/ H₂O - No Returns

HOURS	Operations last 24 Hours:
3 1/2	6-9:30 L/D Core Bbl. - m/u BIT #31 + R.I.H. T/6457'

Daily Cost: \$	1/2	9:30-10 Ream 60' F/6457' To 6517'
Cumulative Cost: \$	2	10-12 Drill F/6517' To 6568'
	1/2	12-12:30 Survey @ 6513'
Daily Mud Cost: \$2,632 ⁸²	3	12:30-3:30 Drill F/6568' To 6632'
Cum. Mud Cost: \$108,764 ¹⁰	1/2	3:30-4 Survey @ 6577'
	1/2	4-4:30 Drill F/6632' To 6637' - Lost Circ (100%)

MUD & CHEMICALS USED			
Sack Barite:		1	4:30-5:30 P.D.H. T/Shoe Mix LCM Pill (Sawdust - CSH - Gel) + SPOT ON BOTTOM - Pumped 70 Bbls H ₂ O On Annulus
Bulk Barite:		1	5:30-6:30 R.I.H. Try Circ (N.G.) - Mix LCM Pill (Hi Vis w/P-Gel)
Gel:	17		+ Pellets SPOT ON BOTTOM + P.D.H. T/Shoe
Caustic Soda:		1 1/2	6:30-8 Wait on LCM Pill
Lignite:		1/2	8:30-8:30 Run in Hole Try Circ (N.G.)
T-Gel	31	1	8:30-9:30 Mix + SPOT LCM Pill (Hi Vis w/P-Gel + Pellets + K-Seal)
T-Plex	2		+ P.D.H. T/Shoe
P-Temp	4	2	9:30-11:30 Wait on LCM Pill
SX-L	1	1 1/2	11:30-1 Try Circ @ Shoe (N.G.) - Mix LCM Pill (Hi Vis w/P-Gel)
NaOH	4		+ Pellets + K-Seal
Cash	1	1 1/2	1-2:30 R.I.H. T/6637' - SPOT LCM Pill + P.D.H. T/Shoe
Soda	1	1 1/2	2:30-4 Wait on LCM Pill
CSH	15	1/2	4-4:30 Try Circ @ Shoe (N.G.) - fill Annulus w/H ₂ O - falling
Lo-sol	4	1/2	4:30-5 R.I.H. T/6637'
Sawdust	32	1	5-6 Drill ahead w/H ₂ O + No Returns F/6637' To 6663'
H ₂ O Less	6		@ 6:00 AM
		24	TOTAL HOURS

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>WATER (LOST CIRC)</u> /gal.		RATES Penetration <u>30</u> ft/hr		Well <u>STATE 2-14</u>	
Vis. _____ Sec. _____ PV _____ YP _____	W.L. _____ cc/30 Sand _____ %	Bit Weight <u>25</u> M.lbs	Rotary RPM <u>80</u>	No. days this well _____ Date <u>1-6-86</u>	Operator <u>Bechtel</u>
pH. _____ Ca+ _____ PPM	W.C. _____ /32" CL _____ PPM	Pump psi <u>600</u>	Pump SPM <u>40</u>	Contractor <u>Cleveland Rig #6</u>	Today's depth <u>6772'</u>
Oil _____ % Solids _____ % lb/B*	Temp. _____ °F, Gels = _____ /	Pump liners <u>6" X 16"</u>	Pump output = <u>252</u> GPM	Yesterday's depth <u>6663'</u>	Drilled <u>109</u> ft. in <u>4 1/2</u> hrs.
ALK. (Pf) = _____	K-ion = _____ PPM	Ann. Vel. = <u>131-180</u> ft/min.	Hours Running Centrifuge = <u>No RETURNS</u>	Last casing <u>9 5/8</u> " Depth <u>6000'</u>	Rotating Hrs. this report = <u>4 1/2</u>
Na-ion = _____ PPM	At Depth = _____ Ft.	Reduced Pump Rate: _____ SPM = _____ psi	Cumulative rotating hours = _____		

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
31	8 1/2	Varel 20859	V-527	3-13	N	6517	6758	241	10 1/2		2	4	0 1/8
5 ^{ES}	8 1/2	N.C. 011403	RC-467	TFA-600	N	6758	6772	14	1/2				

BHA Length: _____ Ft., Consist of: open end D.P.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>No RETURNS</u> units
	o			Connection gas: Max. _____ units at _____ mud wt. <u>H2O</u> lb./Gal.
			Coordinates: _____ M.D. _____ TVD _____	
			Present operations: <u>SPOT LCM pill</u>	

HOURS	Operations last 24 Hours:
4	6-10 Drill F/ 6663 To 6758 w/ H2O & NO RETURNS

Daily Cost: \$	1	10-11 mix + spot LCM pill @ 6758'
Cumulative Cost: \$	8 1/2	11-7:30 P.O.H. 4/10 monel & Stabs - P/U Core Bbl & R.I.H. T/ 6758'
Daily Mud Cost: \$ <u>5,111.98</u>	1/2	7:30-8 Circ & Deep Ball
Cum. Mud Cost: \$ <u>113,876.00</u>	1/2	8-8:30 Core # 19 F/ 6758' To 6772' = 14'
	4 1/2	8:30-1 P.O.H. & SER Core Bbl & Lay Down

MUD & CHEMICALS USED		
Sack Barite:	3	1-4 R.I.H. (open end) T/ 6742'
Bulk Barite:	1/2	4-4:30 Circ @ 6742'
Gel:	7	1/2 4:30-5:30 SET LOST CIRC CMT Plug w/ BR Plug @ 6742' - w/ Howco mix 148°/ft of
Caustic Soda:		"G" Cmt + 40% silica flour + 3% Gel + 1:1
Lignite:		PreLite + 46 lbs. Floccle + CFR-2+HR-7
T-Gel	174	Displace w/ 633°/ft H2O
NaOH	1	
Pellets	47	1/2 5:30-6 P.O.H. T/ 6185' & mix LCM Pill
C.S.H.	53	Cotton Pellets + Gel + Fibretek + Kwik Seal
XC-Polymer	1	+ Wellpac = 80 Bbls
Wellpac	5	
Kwik Seal	16	24 TOTAL HOURS
Fibre Seal	4	

H.T. - H.P. W/L: _____

Field: SALTON SEA

<p>MUD</p> <p>Wt. _____ lb/gal.</p> <p>Vis. _____ Sec. _____ PV _____ YP _____</p> <p>W.L. _____ cc/30 Sand _____ %</p> <p>pH. _____ Ca+ _____ PPM</p> <p>W.C. _____ /32" CL⁻ _____ PPM</p> <p>Oil _____ % Solids _____ % lb/B^o</p> <p>Temp. _____ °F, Gels = _____ / _____</p> <p>ALK. (Pf) = _____</p> <p>K⁺ion = _____ PPM</p> <p>Na⁺ion = _____ PPM</p> <p>At Depth = _____ Ft.</p>	<p>RATES</p> <p>Penetration _____ ft/hr</p> <p>Bit Weight _____ M.lbs</p> <p>Rotary RPM _____</p> <p>Pump psi _____</p> <p>Pump SPM _____</p> <p>Pump liners _____</p> <p>Pump output = _____ GPM</p> <p>Ann. Vel. = _____ ft/min.</p> <p>Hours Running _____</p> <p>Centrifuge = _____</p> <p>Reduced Pump Rate: _____ SPM = _____ psi</p>	<p>Well <u>STATE 2-14</u></p> <p>No. days this well _____ Date <u>1-7-86</u></p> <p>Operator <u>Bechtel</u></p> <p>Contractor <u>Cleveland Rig #6</u></p> <p>Today's depth <u>6771'</u></p> <p>Yesterday's depth <u>6771'</u></p> <p>Drilled <u>2</u> ft. in _____ hrs.</p> <p>Last casing <u>9 5/8</u> " Depth <u>6000'</u></p> <p>Rotating Hrs. this report = _____</p> <p>Cumulative rotating hours = _____</p>
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	

BHA Length: _____ Ft., Consist of: _____

BHA Wt. In Mud: _____ Lb.

Total String Wt.: _____ Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units
	o	o		

Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.

Coordinates: _____ M.D. _____ TVD _____

Present operations: _____

HOURS	Operations last 24 Hours:
1/2	6-6:30 Spot LCM pill - CSH-Kwik seal Gel - Sandust Behind 1 st CMT Plug

Daily Cost: \$	
Cumulative Cost: \$	1 6:30-7:30 2 nd CMT. Plug = 246 cu ft - "G" + 40% Silica flour + 3% Gel + 1/1 perlite + 46 lbs. Flocele + CER-2 + HR-7
Daily Mud Cost: \$	
Cum. Mud Cost: \$	C.I.P @ 6:55 AM - Displaced w/538 cu ft H ₂ O.

MUD & CHEMICALS USED	QUANTITY	TIME	OPERATIONS
Sack Barite:			Behind 2 nd plug (CSH-Kwik seal Gel - Sandust)
Bulk Barite:			
Gel:	7 1/2	8:30-4	P.O.H. & Secure well @ 4:00pm
Caustic Soda:			1-6-86
Lignite:	14	4-6	Rig Secured

	10	Rig Time
	14	Secured
	24	TOTAL Hours

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>8.6</u> lb/gal. Vis. <u>27</u> Sec. <u>3</u> PV <u>2</u> YP W.L. <u>N/CON</u> cc/30 Sand <u>TR</u> % pH. <u>6.8</u> Ca+ <u>NIL</u> PPM W.C. <u>3</u> /32" CL <u>16,000</u> PPM Oil <u>NIL</u> % Solids <u>2</u> % <u>-</u> lb/B° Temp. <u>90</u> °F, Gels = <u>2</u> / <u>2</u> ALK. (Pf) = _____ K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration _____ ft/hr Bit Weight _____ M.lbs Rotary RPM _____ Pump psi _____ Pump SPM _____ Pump liners _____ Pump output = _____ GPM Ann. Vel. = _____ ft/min. Hours Running _____ Centrifuge = _____ Reduced Pump Rate = _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>1-11-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>6771'</u> Yesterday's depth <u>6771'</u> Drilled <u>0</u> ft. in _____ hrs. Last casing <u>9 5/8</u> " Depth <u>6000'</u> Rotating Hrs. this report = _____ Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>32</u>	<u>8 1/2</u>	<u>Varel</u>	<u>V-627</u>	<u>3-13</u>	<u>N</u>	<u>6410'</u>				<u>C/O C.M.T.</u>			

BHA Length: 801.88 Ft., Consist of: 8 1/2" Bit - 8 1/2" 6PT. Reamer - Manel - 8 1/2" Stab.
9 x 6 1/4" D.C. - @ - 16 x 5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 202,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas		Avg. background gas	
			units at	_____ Ft.	units	_____ units
			Connection gas: Max. _____ units at _____' mud wt. _____ lb./Gal.		Coordinates: _____ M.D. _____ TVD _____	
			Present operations: <u>C.M.T. R.I.H.</u>			

HOURS	Operations last 24 Hours:
<u>3 1/2</u>	<u>6-9:30 m/m Bit - float sub - Rotate Head & Strip in Hole T/2500'</u>
<u>1/2</u>	<u>9:30-10 Break Circ & Displace Hole T/mud</u>
<u>1</u>	<u>10-11 R.I.H. T/6000'</u>
<u>2</u>	<u>11-1 Circ @ 6000' & Displace Hole T/mud</u>
<u>3</u>	<u>1-4 R.I.H. & Tag Top C.M.T. plug @ 6410' & P.O.H.</u>
<u>12</u>	<u>4-4 Nipple Down B.O.P. Change out MASTER Valve & Nipple up B.O.P. - TEST RAMS</u>

MUD & CHEMICALS USED	
Sack Barite:	
Bulk Barite:	<u>2</u> <u>4-6 m/m B.H.A. & R.I.H. @ 6:00 AM</u>
Gel:	<u>36</u>
Caustic Soda:	<u>24</u> <u>TOTAL Hours</u>
Lignite:	
Prof-Gel	<u>20</u>
Welpac	<u>3</u>

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD				RATES				Well <u>STATE 2-14</u>			
Wt. <u>8.8</u>	lb/gal.	Penetration <u>30</u>	ft/hr	No. days this well _____	Date <u>1-12-86</u>	Operator <u>Bechtel</u>		Contractor <u>Cleveland Rig #6</u>		Today's depth <u>6850'</u>	
Vis. <u>30</u>	Sec. <u>3</u>	PV <u>3</u>	YP	Bit Weight <u>85</u>	M.lbs	Rotary RPM <u>80</u>		Pump psi <u>1200</u>		Yesterday's depth <u>6772'</u>	
W.L. <u>68</u>	cc/30 Sand <u>1/2</u>	%		Pump SPM <u>45</u>		Pump liners <u>7" x 16"</u>		Pump output = <u>389</u>		GPM	
pH. <u>8.7</u>	Ca+ <u>3000</u>	PPM		Ann. Vel. = <u>202-278</u>	ft/min.	Drilled <u>78'</u>		ft. in <u>3 1/2</u>		hrs.	
W.C. <u>3+</u>	1/32" CL <u>13800</u>	PPM		Reduced Pump Rate: _____	SPM = _____	Last casing <u>9 5/8</u>		" Depth <u>6000'</u>			
Oil Nil % Solids <u>3</u>	% <u>10</u>	lb/B*		Hours Running _____	Centrifuge = <u>A</u>	Rotating Hrs. this report = _____		Cumulative rotating hours = _____			
Temp. <u>95</u>	°F, Gels = <u>-1-</u>			At Depth = _____	Ft.						
ALK. (Pf) = <u>.13</u>											
K-ion = _____	PPM										
Na-ion = _____	PPM										

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION					
						FROM	TO				T	B	G			
32	8 1/2	Varel 17697	V-627	3-13	N	6772	6850	78'	3 1/2							

BHA Length: 835.42 Ft., Consist of: 8 1/2" BIT - 6 FT REAMER - MONEL - STAB - 9 X 6 1/4" D.C. - 4 JARS - 4 JARS - 16 X 5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 210,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>300-1500</u> ppm units
	°			
				Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
				Coordinates: _____ M.D. _____ TVD _____
				Present operations: <u>P.O.H.</u>

HOURS	Operations last 24 Hours:
1	6-7 R.I.H. T/6329'
5 1/2	7-12:30 Drill out Cmt. stringers F/6329' T/6410'

Daily Cost: \$ _____	Firm Cmt. F/6410' To 6772'
Cumulative Cost: \$ _____	2 1/2 12:30-3 Drill F/6772' To 6818' - Lost Total Returns @ 6803'
Daily Mud Cost: \$ <u>13,133²⁴</u>	12 3-3 P.O.H. T/shoe mix L.C.M.
Cum. Mud Cost: \$ <u>128,281⁵²</u>	1 3-4 R.I.H. T/6403' + Bak Circ - R.I.H. T/6778'
	Ream F/6778' To 6818'

MUD & CHEMICALS USED	QUANTITY	OPERATIONS
ANTI-FOAM	1	1 4-5 Drill F/6818' To 6850' w/PARTIAL RETURNS
FIBER	40	1 5-6 Mix L.C.M. @ SPOT @ 6850'
Gel: Feet	250	
Caustic Soda:		
Lignite: Nut Halls	40	
Therm-Gel	144	
T-Trol III	10	
NABH	9	
Pellets	26	
Sawdust	110	
Lo-Sol	1	
XC-Polymer	10	
H2 Less	1	
Csh	37	
Kwik Seal	32	
Caoh	8	
Well Pac	2	

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD				RATES				Well <u>STATE 2-14</u>				
Wt. <u>8.7</u> lb/gal.	Penetration _____ ft/hr	No. days this well _____ Date <u>1-13-86</u>		Operator <u>Bechtel</u>		Contractor <u>Cleveland Rig # 6</u>		Today's depth <u>6850</u>		Yesterday's depth <u>6850</u>		
Vis. <u>28</u> Sec. <u>3</u> PV <u>2</u> YP	Bit Weight _____ M.lbs	Rotary RPM _____		Pump psi _____		Pump SPM _____		Pump liners _____		Drilled _____ ft. in _____ hrs.		
W.L. <u>N/C</u> cc/30 Sand <u>1/8</u> %	Pump output = _____ GPM	Ann. Vel. = _____ ft/min.		Hours Running _____		Centrifuge = _____		Reduced Pump Rate = _____ SPM = _____ psi		Rotating Hrs. this report = _____		
pH. <u>7.4</u> Ca+ <u>2800</u> PPM	At Depth = _____ Ft.	K+ion = _____ PPM		Na+ion = _____ PPM		Cumulative rotating hours = _____						
W.C. _____ /32" CL- <u>13800</u> PPM												
Oil <u>Nil</u> % Solids <u>2</u> % - lb/B°												
Temp. <u>100</u> °F, Gels = <u>1</u>												
ALK. (Pf) = _____												

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	
<u>32</u>	<u>8 1/2</u>	<u>Varel 17697</u>	<u>V-627</u>	<u>3-13</u>	<u>N</u>	<u>6850</u>								

BHA Length: 934.42 Ft., Consist of: 8 1/2" BIT - 8 1/2" 6 PT. REAMER - MANCL - 8 1/2" STAB - 9 X 6 1/4" DC - D. JARS - U. JARS - (X) - 15-HW.

BHA Wt. in Mud: _____ Lb.

Total String Wt.: 210,000 Lb.

Drilling Supervisor: G. W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units	
			Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.	
Coordinates: _____ M.D. _____ TVD _____			Present operations: <u>W.D.C. & DRILL OUT CMT.</u>	
HOURS			Operations last 24 Hours:	
			<u>1/2</u>	<u>6-6:30 Pull T/shoe</u>
			<u>1</u>	<u>6:30-7:30 Mix LCM 9 1/1</u>
Daily Cost: \$			<u>5</u>	<u>7:30-12:30 P.O.H. & R.I.H. open ended D.P.</u>
Cumulative Cost: \$				<u>Hung @ 6670'</u>
Daily Mud Cost: \$ <u>1885⁸⁸</u>			<u>1 1/2</u>	<u>12:30-2 Rigup Howco - mix & pump 1st LAST Circ</u>
Cum. Mud Cost: \$ <u>130167⁴⁰</u>				<u>Plug - 119 %/ft of "G" + 40% silica flour + 1:1 Perlite + 3% Gel + .65% CER-2 + .3% HR-7 + 1/4" /SK Floccle - Displaced w/ 636 @ H2O</u>
MUD & CHEMICALS USED				<u>C.I.P. @ 1:45 PM</u>
Sack Barite:			<u>6 1/2</u>	<u>2-8:30 P.O.H. (LID 9 JTS. DP CMTd) & R.I.H. w/</u>
Bulk Barite:				<u>open ended D.P. T/ 6322'</u>
Gel:	<u>20</u>		<u>1 1/2</u>	<u>8:30-10 Circ T/cool mud @ 6322'</u>
Caustic Soda:			<u>1/2</u>	<u>10-10:30 Rigup Howco - mix & pump 2nd LAST Circ plug-</u>
Lignite:				<u>158 %/ft of "G" + 40% silica flour + 1:1 Perlite + 3%</u>
Pellets	<u>15</u>			<u>Gel + .65% CER-2 + .3% HR-7 + 1/4" /SK Floccle</u>
Bicarb	<u>14</u>			<u>Displaced w/ 590 %/ft H2O - C.I.P. @ 10:16 PM</u>
CSH	<u>15</u>		<u>1/2</u>	<u>10:30-11 P.O.H. T/ 5692'</u>
NUT HULLS	<u>15</u>		<u>1/2</u>	<u>11-11:30 Circ @ 5692'</u>
			<u>5</u>	<u>11:30-4:30 P.O.H. & M/U BIT & B.H.A. & R.I.H. - TAG</u>
				<u>CMT @ 5749'</u>
			<u>1 1/2</u>	<u>4:30-6 Slip & Cut Drill Line & W.D.C.</u>
			<u>24</u>	<u>TOTAL HOURS</u>

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD		RATES		Well <u>STATE 2-14</u>	
Wt. <u>8.9</u> lb/gal.	Penetration <u>65</u> ft/hr	No. days this well	Date <u>1-14-86</u>		
Vis. <u>27</u> Sec. <u>3</u> PV <u>3</u> YP	Bit Weight <u>10/15</u> M.lbs	Operator <u>Bechtel</u>	Contractor <u>Cleveland Rig #6</u>		
W.L. <u>N/C</u> cc/30 Sand <u>1/2</u> %	Rotary RPM <u>70/80</u>	Today's depth <u>PAD 6576'</u> <u>6772'</u>	Yesterday's depth <u>5749</u> <u>6772'</u>		
pH. <u>7.5</u> Ca+ <u>3904</u> PPM	Pump psi <u>500</u>	Drilled <u>827' cmT.</u> ft. in <u>10 1/2</u> hrs.	Last casing <u>9 5/8</u> " Depth <u>6000</u>		
W.C. <u>5 1/16</u> 100" CL <u>25,300</u> PPM	Pump SPM <u>55-40</u>	Hours Running	Rotating Hrs. this report = <u>10 1/2</u>		
Oil <u>Nil</u> % Solids <u>3</u> % Nil lb/B°	Pump liners <u>7" - 6" x 16"</u>	Centrifuge = <u>12</u>	Cumulative rotating hours = _____		
Temp. <u>108</u> °F, Gels = <u>0.2</u>	Pump output = <u>347</u> GPM	Reduced			
ALK. (Pf) = <u>.02</u>	Ann. Vel. = <u>180 - 248</u> ft/min.	Pump Rate: _____ SPM = _____ psi			
K+ion = _____ PPM	Hours Running				
Na+ion = _____ PPM	Centrifuge = _____				
At Depth = _____ Ft.					

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>32^{RE}</u>	<u>8 1/2</u>	<u>Varec 17697</u>	<u>V-627</u>	<u>OUT</u>	<u>N</u>	<u>5749</u>	<u>6576</u>	<u>827</u>	<u>10 1/2</u>	<u>C/O CmT.</u>			

BHA Length: 801.98 Ft., Consist of: 8 1/2" BIT - 8 1/2" 6 PT. REAMER - MONEL - 8 1/2" STAB
9 x 6 1/4" D.C. - @ - 16 x 5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 195,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas units at Ft. Avg. background gas <u>CO2 300 ppm</u> units
	o			Connection gas: Max. units at mud wt. <u>8.1.9</u> lb./Gal.
			Coordinates: M.D. TVD	
			Present operations: <u>CONT. C/O CmT. F/ 6576'</u>	

HOURS	Operations last 24 Hours:
<u>1/2</u>	<u>6-6:30 Circ. @ 5749'</u>
<u>9</u>	<u>6:30-3:30 Drill out CmT Plug F/ 5749' To 6324'</u>
<u>5 1/2</u>	<u>3:30-9 P.D.H. (LOOK F/WASH OUT) - Had CmT. Chunks</u>
	<u>Plugging H.W. - 4/D JARS. - R.I.H. T/ 6324'</u>
<u>1/2</u>	<u>9-9:30 Filled pipe - Plugged</u>
<u>7</u>	<u>9:30-4:30 P.D.H. 4/D plugged monel - p/u New monel</u>
	<u>+ R.I.H. w/ BIT #32^{RE} T/ 6324'</u>
<u>1 1/2</u>	<u>4:30-6 Drill out CmT Plug F/ 6324' To 6576'</u>
	<u>@ 6:00 AM</u>

MUD & CHEMICALS USED	
Sack Barite:	
Bulk Barite:	<u>24 TOTAL Hours</u>
Gel: <u>Peftco 18</u>	
Caustic Soda:	
Lignite:	
<u>Therm Gel 130</u>	<u>Temp @ 6536' IN = 108°F</u>
<u>Soda Ash 20</u>	<u>OUT = 136°F</u>
<u>Bicarb 10</u>	<u>No Loses</u>

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD				RATES				Well <u>STATE 2-14</u>			
Wt. <u>H₂O</u>	lb/gal.	Penetration _____	ft/hr	No. days this well _____	Date <u>1-15-86</u>						
Vis. _____	Sec. _____	PV _____	YP _____	Bit Weight <u>10/15</u>	M.lbs	Operator <u>Bechtel</u>		Contractor <u>Cleveland Rig #6</u>		Today's depth <u>6889</u>	
W.L. _____	cc/30 Sand _____	%	Rotary RPM <u>40/80</u>	Pump psi <u>600</u>		Yesterday's depth <u>6850</u>		Drilled <u>39</u> ft. in <u>2 1/2</u> hrs.		Last casing <u>9 5/8</u> " Depth <u>6000</u>	
pH. _____	Ca+ _____	PPM	Pump SPM <u>40</u>	Pump liners <u>7" x 16</u>		Ann. Vel. = <u>179-247</u> ft/min.		Rotating Hrs. this report = <u>2 1/2</u>		Cumulative rotating hours = _____	
W.C. _____	/32" CL _____	PPM	Pump output = <u>346</u> GPM	Hours Running _____		Centrifuge = _____					
Oil _____	% Solids _____	% lb/B ³	Temp. _____ °F, Gels = _____	Reduced Pump Rate: _____ SPM = _____ psi							
ALK. (Pf) = _____			K+ion = _____ PPM								
N+ion = _____ PPM			At Depth = _____ Ft.								

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>32nd</u>	<u>8 1/2</u>	<u>VAREL 17697</u>	<u>V-627</u>	<u>OUT</u>	<u>N</u>	<u>6850'</u>	<u>6880'</u>	<u>30</u>	<u>1 1/2</u>				
<u>5th</u>	<u>8 1/2</u>	<u>N.C. 0111403</u>	<u>RC476</u>	<u>RE</u>	<u>N</u>	<u>6880'</u>	<u>6889'</u>	<u>9</u>	<u>1</u>				

BHA Length: _____ Ft., Consist of: _____

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units	
			Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.	
			Coordinates: _____ M.D. _____ TVD _____	
			Present operations: <u>W.O.C. + Circ @ 6000'</u>	
			HOURS	Operations last 24 Hours:
			<u>4 1/2</u>	<u>6-10:30 CONT. CLEAN OUT CMT. F/ 6576' To 6850'</u>
Daily Cost: \$			<u>1 1/2</u>	<u>10:30-12 Drill F/ 6850' To 6880'</u>
Cumulative Cost: \$			<u>1/2</u>	<u>12-12:30 Ream + Circ. F/ 6850' To 6880'</u>
			<u>5 1/2</u>	<u>12:30-6 P.D.H. + P/U Core Bbl. + R.I.H. T/ 6880'</u>
Daily Mud Cost: \$			<u>1/2</u>	<u>6-6:30 Circ @ 6880'</u>
Cum. Mud Cost: \$			<u>1</u>	<u>6:30-7:30 Core # 20 w/ H₂O + No RETURNS F/ 6880' To 6889' - Jammed</u>
MUD & CHEMICALS USED			<u>7</u>	<u>7:30-2:30 P.D.H. - Service Core Bbl. - 44% Recovery + L/P Core Bbl. - R.I.H. w/ open end D.P. T/ 6773'</u>
Sack Barite:				
Bulk Barite:				
Gel: <u>Peefco</u>	<u>36</u>	<u>1 1/2</u>	<u>2:30-4</u>	<u>Mix 50 Bbl. LCM Pill (w/ Cotton Seed Hulls - Cedar Fiber - Kwik Seal) w/ 355X</u>
Caustic Soda:				<u>Portland CMT + 3% Gel + 15K Lime + .5% Retarder + Displace w/ 451% H₂O - Calc Tap CMT. @ 6243' - C.I.P @ 4:00am</u>
Lignite:				
Team Gel	<u>80</u>			
Soda Ash	<u>4</u>			
Bicarb	<u>8</u>			
C.S.H	<u>48</u>	<u>1/2</u>	<u>4-4:30</u>	<u>P.D.H. T/ Shoe @ 6000'</u>
Kwik Seal	<u>100</u>	<u>1 1/2</u>	<u>4:30-6</u>	<u>Circ @ 6000' + W.O.C.</u>
Welpac	<u>2</u>			
			<u>24</u>	<u>TOTAL HOURS</u>

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD		RATES		Well <u>State 2-14</u>	
Wt. <u>8.8</u> lb/gal.	Penetration <u>23</u> ft/hr	No. days this well _____	Date <u>1-16-86</u>		
Vis. <u>26</u> Sec. <u>3</u> PV <u>2</u> YP	Bit Weight <u>20/25</u> M.lbs	Operator <u>Bechtel</u>			
W.L. <u>N/C</u> cc/30 Sand <u>1/2</u> %	Rotary RPM <u>50/60</u>	Contractor <u>Cleveland Rig #6</u>			
pH. <u>8.7</u> Ca+ <u>3.112</u> PPM	Pump psi <u>500</u>	Today's depth <u>7100'</u>			
W.C. <u>5/16</u> 100" CL <u>15.600</u> PPM	Pump SPM <u>40</u>	Yesterday's depth <u>6889'</u>			
Oil <u>Nil</u> % Solids <u>2 1/2</u> % <u>4-6</u> lb/B*	Pump liners <u>7" X 16"</u>	Drilled <u>211</u> ft. in <u>10</u> hrs.			
Temp. <u>100</u> °F, Gels = <u>0.10</u>	Pump output = <u>346</u> GPM	Last casing <u>9 5/8</u> " Depth <u>6000'</u>			
ALK. (Pf) = <u>.11</u>	Ann. Vel. = <u>179-247</u> ft/min.	Rotating Hrs. this report = <u>10</u>			
K+ion = _____ PPM	Hours Running _____	Cumulative rotating hours = <u>71</u>			
Na+ion = _____ PPM	Centrifuge = <u>12</u>				
At Depth = _____ Ft.	Reduced Pump Rate = _____ SPM = _____ psi				

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	
<u>33</u>	<u>8 1/2</u>	<u>VAREL 4861</u>	<u>V-527</u>	<u>OUT</u>	<u>N</u>	<u>6889'</u>	<u>7100'</u>	<u>211</u>	<u>10</u>	<u>21.1</u>	<u>INC</u>			

BHA Length: 1078.57 Ft., Consist of: 8 1/2" BIT - 8 1/2" 6 PT. REAMER - MONEL - 8 1/2" STAB.
9 X 6 1/4" DC - 4 JARS - 4 JARS - 3 X 6 1/4" DC -
21 X 5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 222,000 Lb. Drilling Supervisor: G. W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>300-1000</u> ppm units
	o		Connection gas: Max. _____ units at _____ mud wt. <u>8.8</u> lb./Gal.
			Coordinates: _____ M.D. _____ TVD _____
			Present operations: <u>P.O.H. F/ CORE #21</u>

HOURS	Operations last 24 Hours:
<u>6 1/2</u>	<u>6-12:30 CIRC @ Shoe (6000') & W.D.C.</u> <u>@ 9:00 AM Squeezed 10 Bbls @ 450psi.</u> <u>12 spm</u>
	<u>10:00 AM Squeezed 10 Bbls @ 475 psi.</u> <u>12 spm</u>
	<u>12:30 PM Squeezed 10 Bbls @ 500 psi.</u> <u>12.50 PM</u>
<u>6</u>	<u>12:30-6:30 P.O.H. & M/LU BIT #33 - P/LU 3 X 6 1/4" DC</u> <u>2-JARS - 5 X 5" H.W. & R.I.H. T/6640'</u>

MUD & CHEMICALS USED		HOURS	Operations last 24 Hours:
Sack Barite: <u>4</u>	<u>1/2</u>	<u>6:30-7</u>	<u>C/O CMT F/ 6640' To 6670'</u>
Bulk Barite: <u>T-Foil III 4</u>	<u>1/2</u>	<u>7-7:30</u>	<u>R.I.H. - Ream F/ 6880' To 6889'</u>
Gel: <u>Peafco 83</u>	<u>10</u>	<u>7:30-5:30</u>	<u>Drill F/ 6889' To 7100'</u>
Caustic Soda: <u>Lo Sal 10</u>	<u>1/2</u>	<u>5:30-6</u>	<u>CIRC @ 7100' F/CORE #21</u>
Lignite: <u>mica C 9</u>			
Therm Gel <u>29</u>	<u>24</u>	<u>TOTAL HOURS</u>	
XC-Poly <u>1</u>			
Welpac <u>7</u>			
NaOH <u>1</u>			<u>Loses w/Drilling 6900 - 6970 = 10/15 Bbls/hr</u>
CaOH <u>1</u>			<u>6970 - 7030 = 50/60 Bbls/hr.</u>
H2 Less <u>7</u>			<u>7030 - 7100 = 80/90 Bbls/hr.</u>
Alum STEAR <u>1</u>			
Anti foam <u>3</u>			
Pellets <u>100</u>			
Kwik Seal <u>3</u>			
Cedar fiber <u>11</u>			
Sawdust <u>41</u>			

H.T. - H.P. W/L: _____

Field: SALTON SEA

Wt. <u>8.5</u> MUD lb/gal. Vis. <u>28</u> Sec. <u>4</u> PV <u>4</u> YP W.L. <u>122</u> cc/30 Sand <u>14</u> % pH. <u>8.2</u> Ca+ <u>1444</u> PPM W.C. <u>3/8</u> 1/32" CL <u>11000</u> PPM Oil <u>Nil</u> % Solids <u>2</u> % <u>8</u> lb/B° Temp. <u>100</u> °F, Gels = <u>2</u> <u>8</u> ALK. (Pf) = <u>.04</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>22</u> ft/hr Bit Weight <u>25</u> M.lbs Rotary RPM <u>50/60</u> Pump psi <u>500</u> Pump SPM <u>55</u> Pump liners <u>6" x 16"</u> Pump output = <u>346</u> GPM Ann. Vel. = <u>179-247</u> ft/min. Hours Running Centrifuge = <u>10</u> Reduced Pump Rate = _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>1-17-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>7262'</u> Yesterday's depth <u>7100'</u> Drilled <u>162'</u> ft. in <u>9 1/2</u> hrs. Last casing <u>9 3/8</u> " Depth <u>6000'</u> Rotating Hrs. this report = <u>10</u> Cumulative rotating hours = <u>81</u>	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	
<u>33^{EX}</u>	<u>8 1/2</u>	<u>Varec-4861</u>	<u>V-527</u>	<u>OUT</u>	<u>N</u>	<u>7109'</u>	<u>7262'</u>	<u>153</u>	<u>8</u>	<u>19.1</u>	<u>INC</u>			

BHA Length: 1078.69 Ft., Consist of: 8 1/2" BIT- 6PT Reamer - Monel - Stab - 9x6 1/4" DC Jars - 3x6 1/4" DC - 21x5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 222,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas units at Ft. Avg. background gas <u>CO2 300 ppm</u> units
	°	'		
<u>7116'</u>	<u>5°</u>	<u>0</u>	<u>S-18-W</u>	Coordinates: M.D. TVD
<u>7196'</u>	<u>4°</u>	<u>45</u>	<u>S-10-W</u>	Present operations: <u>Drilling F/ 7262'</u>

HOURS	Operations last 24 Hours:
<u>5</u>	<u>6-11 P.D.H. (Chg-out Jars EW #62-2083) - P/U Core Bbl. & R.I.H. T/ Shoe - 6000'</u>
<u>1</u>	<u>11-12 Mix & Pump Hivis Pill</u>
<u>1/2</u>	<u>12-12:30 CONT. R.I.H. T/ 7100'</u>
<u>1 1/2</u>	<u>12:30-2 Core F/ 7100' To 7109' Core #21</u>
<u>6 1/2</u>	<u>2-8:30 P.O.H. - See Core Bbl. (Recovered 6' 66 2178%) M/U B.H.A. & Chg out 6PT. Reamer & R.I.H. T/ 7100'</u>
<u>1/2</u>	<u>8:30-9 Ream F/ 7100' To 7109'</u>
<u>2</u>	<u>9-11 Drill F/ 7109' To 7156'</u>
<u>1/2</u>	<u>11-11:30 Survey @ 7116'</u>
<u>5 1/2</u>	<u>11:30-5 Drill F/ 7156' To 7251'</u>
<u>1/2</u>	<u>5-5:30 Survey @ 7196'</u>
<u>1/2</u>	<u>5:30-6 Drill F/ 7251' To 7262' @ 6:00 AM.</u>
MUD & CHEMICALS USED Sack Barite: _____ Bulk Barite: _____ Gel: <u>Proteo 20</u> Caustic Soda: _____ Lignite: _____ TheemGel <u>117</u> T-Trol III <u>3</u> XC-Poly <u>3</u> Mud Losses <u>10 Bbl./Hr.</u> WelPac <u>6</u> Temp @ <u>7262'</u> IN = <u>111°F</u> OUT = <u>135°F</u> P-Temp SX <u>1</u> H-2 Less <u>3</u> <u>7090-7240 40-90% Ch3TA</u> CSH <u>10</u> <u>10-60% Anhydrite</u> Cedar Fiber <u>10</u> Sandust <u>7</u>	

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>8.7</u> lb/gal. Vis. <u>30</u> Sec. <u>4</u> PV <u>6</u> YP W.L. <u>N/C</u> cc/30 Sand <u>1/4</u> % pH. <u>7.4</u> Ca+ <u>1200</u> PPM W.C. <u>1/4</u> 132" CL- <u>6500</u> PPM Oil <u>Nil</u> % Solids <u>2 1/2</u> % - lb/B" Temp. <u>146</u> °F, Gels = <u>4</u> / 18 ALK. (Pf) = <u>-</u> K+ion = _____ PPM Nation = _____ PPM At Depth = _____ Ft.				RATES Penetration <u>11</u> ft/hr Bit Weight <u>10/20</u> M.lbs Rotary RPM <u>50/90</u> Pump psi <u>1800</u> Pump SPM <u>50</u> Pump liners <u>7" X 16"</u> Pump output = <u>433</u> GPM Ann. Vel. = <u>224-309</u> ft/min. Hours Running Centrifuge = <u>10</u> Reduced Pump Rate: _____ SPM = _____ psi				Well <u>STATE 2-14</u> No. days this well <u>87</u> Date <u>1-18-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>7349'</u> Yesterday's depth <u>7262'</u> Drilled <u>87</u> ft. in <u>8</u> hrs. Last casing <u>9 5/8</u> " Depth <u>6000</u> Rotating Hrs. this report = <u>8 1/2</u> Cumulative rotating hours = <u>89 1/2</u>			
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
33 RD	8 1/2	Yarel 4861	V-527	OUT	N	7109'	7300'	191	10	19.1	2	5	I
6 TH	8 1/2	N.C. 0111878	SC226	-	N	7300'	7313'	13	2	6.5			
34	8 1/2	N.C. 011058	R-419	TPA04	N	7313'	7349'	36	4 1/2	8			INC

BHA Length: 1092.64 Ft., Consist of: 8 1/2" BIT - 6 FT. REAMER - LEAD COLLAR - 3 FT. REAMER
MANE - 8 1/2" STAB - 9 X 6 1/4" DC - JARS - 3 X 6 1/4" D.C.
Q - 2 X 5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 225,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas units at Ft. Avg. background gas ^{CO2} <u>300 ppm</u> units
	o	.		
				Coordinates: M.D. TVD
				Present operations: <u>Drill ahead F/ 7349'</u>

HOURS	Operations last 24 Hours:
1 1/2	6-7:30 Drill F/ 7262' To 7300'
1	7:30-8:30 Circ @ 7300'

Daily Cost: \$	3 1/2	8:30-12 P.O.H. - P/U Core Bhl. + R.I.H.
Cumulative Cost: \$	1	12-1 Slip + Cut Drill Line
	2	1-3 CONT R.I.H. T/ 7300'
Daily Mud Cost: \$ <u>3545.24</u>	1/2	3-3:30 Circ F/ CORE #22
Cum. Mud Cost: \$ <u>150941.44</u>	2	3:30-5:30 Core F/ 7300' To 7313'
	7 1/2	5:30-1 P.O.H. - Ser. Core Bhl. (85% Recovery)

MUD & CHEMICALS USED		
Sack Barite:	1/2	1-1:30 Ream F/ 7300' To 7313'
Bulk Barite:	4 1/2	1:30-6 Drill F/ 7313' To 7349' @ 6:00 AM
Gel: <u>Peafco</u>	35	
Caustic Soda:	24	TOTAL HOURS
Lignite:		
Therm Gel	178	
T-Trail III	3	Mud Losses 50/60 Bbls/hr.
Welpac	5	
Naoh	2	7240 - 7340 80-100% CRYSTA.
Pellets	6	0-20% SILTSTONE
Kwik Seal	28	
Sawdust	22	Temp @ 7340 IN = 112°F
		OUT = 155°F

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD		RATES		Well <u>STATE 2-14</u>	
Wt. <u>8.7</u> lb/gal.	Penetration <u>25</u> ft/hr	No. days this well _____ Date <u>1-19-86</u>		Operator <u>Bechtel</u>	
Vis. <u>40</u> Sec. <u>6</u> PV <u>10</u> YP	Bit Weight <u>30/40</u> M.lbs	Rotary RPM <u>60/70</u>		Contractor <u>Cleveland Rig #6</u>	
W.L. <u>59</u> cc/30 Sand <u>14</u> %	Pump psi <u>1500</u>	Pump SPM <u>52</u>		Today's depth <u>7537</u>	
pH. <u>8.7</u> Ca+ <u>328</u> PPM	Pump liners <u>7" x 16</u>	Pump output = <u>450</u> GPM		Yesterday's depth <u>7349</u>	
W.C. <u>14</u> /32" CL <u>2000</u> PPM	Pump output = <u>450</u> GPM	Ann. Vel. = <u>233-321</u> ft/min.		Drilled <u>188</u> ft. in <u>10</u> hrs.	
Oil <u>Nil</u> % Solids <u>3</u> % <u>-</u> lb/B*	Hours Running _____	Reduced Pump Rate: _____ SPM = _____ psi		Last casing <u>9 5/8</u> " Depth <u>6000</u>	
Temp. <u>135</u> °F, Gels = <u>8</u> /22	Centrifuge = <u>10</u>	Rotating Hrs. this report = <u>10</u>		Cumulative rotating hours = _____	
ALK. (Pt) = <u>.06</u>	Pump Rate: _____ SPM = _____ psi				
K+ion = _____ PPM					
Na+ion = _____ PPM					
At Depth = _____ Ft.					

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	
35	8 1/2	Varcl 6948	V-527	3-16	N	7356	7537	181	8 1/2	21.2				

BHA Length: 1092.40 Ft., Consist of: 8 1/2" BIT - 8 1/2" 6PT REAMER - Lead Collar - 8 1/2" 3PT REAMER - MONEL - 8 1/2" STAB - 9x6 1/4" D.C. JARS - 3x6 1/4" DC - 21x5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 225,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2 300 PPM</u> units	
7341	5° E	S-02-E	Connection gas: Max. _____ units at _____ mud wt. <u>8.7</u> lb./Gal.	Coordinates: _____ M.D. _____ TVD _____
7414	5° E	S-03-W	Present operations: <u>DRILL AHEAD F/ 7537'</u>	
7478	5° -	S-07-E		

HOURS	Operations last 24 Hours:
1 1/2	6-7:30 CONT. DRILL F/ 7349' TO 7356'
6	7:30-1:30 P.O.H. + CHG BITS + R.T.H. w/ BIT #35 T/ 7356'

Daily Cost: \$ _____	2	1:30-3:30 DRILL F/ 7356' TO 7391'
Cumulative Cost: \$ _____	1	3:30-4:30 SURVEY @ 7341'
Daily Mud Cost: \$ <u>4562.31</u>	2 1/2	4:30-7. DRILL F/ 7391' TO 7432'
Cum. Mud Cost: \$ <u>155503.32</u>	6	7-1 P.O.H. (LOOK F/WASHOUT - NONE FOUND) - R.T.H. T/ 7432'

MUD & CHEMICALS USED	Quantity	Operations
Sack Barite:	1/2	1-2 DRILL F/ 7432' TO 7464'
Bulk Barite:	2	2-2:30 SURVEY @ 7414'
Gel: <u>Profco</u>	30	2 2:30-4:30 DRILL F/ 7464' TO 7528'
Caustic Soda:	1	1/2 4:30-5 SURVEY @ 7478'
Lignite:	1	5-6 DRILL F/ 7528' TO 7537' @ 6:00 AM

Thermagel	140	24 TOTAL HOURS
Xc-Poly	4	
Weldpac	5	
NaOH	9	Mud Losses 20-30 Bbl/hr.
Hz Less	4	
Anti Foam	2	Temp @ 2500 IN = 137°F
Soda Ash	12	OUT = 175°F

H.T. - H.P. W/L: _____

Field: SALTWATER

MUD Wt. <u>8.8</u> lb/gal. Vis. <u>40</u> Sec. <u>11</u> PV <u>9</u> YP W.L. <u>30</u> cc/30 Sand <u>18</u> % pH. <u>8.8</u> Ca+ <u>153</u> PPM W.C. <u>3</u> /32" CL <u>6200</u> PPM Oil Nil % Solids <u>3</u> % - lb/B* Temp. <u>120</u> °F, Gels = <u>2</u> <u>120</u> ALK. (PF) = <u>0.5</u> K-ion = _____ PPM Na-ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>19</u> ft/hr Bit Weight <u>40</u> M.lbs Rotary RPM <u>30</u> Pump psi <u>900</u> Pump SPM <u>40</u> Pump liners <u>7" X 16"</u> Pump output = <u>347</u> GPM Ann. Vel. = <u>179-247</u> ft/min. Hours Running _____ Centrifuge = <u>8</u> Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>1-20-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>7623'</u> Yesterday's depth <u>7537'</u> Drilled <u>136</u> ft. in <u>8</u> hrs. Last casing <u>9 5/8</u> " Depth <u>6000'</u> Rotating Hrs. this report = <u>8 1/2</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
35 ^{RE}	8 1/2	Varel 6948	V-527	3-16	N	6948	7547	191	9	21.2	3	3	I
6 ^{CD}	8 1/2	N.C. 0111878	SC226		N	7547	7577	30	3 1/2	8.5			
35 ^{RE}	8 1/2	Varel 6948	V-527	3-16	N	7577	7673	96	4	24	1	N	C

BHA Length: 1092.40 Ft., Consist of: 8 1/2" BIT - 8 1/2" 6 PT. REAMER - LEAD COLLAR - 8 1/2" 3 PT. REAMER - MONEL - 8 1/2" STAB - 9 X 6 1/4" DC JARS - 3 X 6 1/4" DC - 21 X 5" HW.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 226,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2 300 PPM</u> units
	o			
<u>7549'</u>	<u>5</u>	<u>2</u>	<u>S-17-E</u>	Coordinates: _____ M.D. _____ TVD _____
<u>7609'</u>	<u>4</u>	<u>45</u>	<u>S-26-E</u>	Present operations: <u>Drill Ahead F/ 7673'</u>

HOURS	Operations last 24 Hours:
<u>1/2</u>	<u>6-6:30 Drill F/ 7537' To 7547'</u>
<u>1/2</u>	<u>6:30-7 Circ @ 7547'</u>
<u>6</u>	<u>7-1 P.O.H. P/U Core Bbl. + R.I.H. T/ 7547'</u>
<u>3 1/2</u>	<u>1-4:30 Core F/ 7547' To 7577' Core #23</u>
<u>7 1/2</u>	<u>4:30-12 P.O.H. - Service Core Bbl. (92% Recovery) 40 Core Bbl. + P/U B.H.A. - R.I.H. w/ Bit # 35^{RE} T/ 7547'</u>
<u>1/2</u>	<u>12-12:30 Ream F/ 7547' To 7577'</u>

MUD & CHEMICALS USED		
Sack Barite:		<u>1/2 12:30-1 Survey @ 7549'</u>
Bulk Barite:		<u>2 1/2 1-3:30 Drill F/ 7577' To 7659'</u>
Gel: <u>Peafco</u>	<u>3</u>	<u>1 1/2 3:30-4:30 Survey @ 7609'</u>
Caustic Soda:		<u>1 1/2 4:30-6 Drill F/ 7659' To 7673' @ 6:00 AM</u>
Lignite:		<u>24 TOTAL HOURS</u>
ThermGel	<u>44</u>	
T-Trol III	<u>3</u>	<u>Mud Losses 5-10 Bbl/hr.</u>
XC-Poly	<u>5</u>	
T-Plex	<u>2</u>	<u>Temp @ 7650 IN = 130°F</u>
Pro Temp sx	<u>2</u>	<u>OUT = 165°F</u>
Naoh	<u>4</u>	
Soda Ash	<u>2</u>	<u>7490-7650 40-100% ClsTN.</u>
Sawdust	<u>5</u>	<u>0-50% SITsTN.</u>
		<u>0-20% SdsTN.</u>

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>8.8</u> lb/gal. Vis. <u>33</u> Sec. <u>8</u> PV <u>4</u> YP W.L. <u>40</u> cc/30 Sand <u>1/4</u> % pH. <u>8.4</u> Ca+ <u>260</u> PPM W.C. <u>3</u> 1/32" CL- <u>6100</u> PPM Oil <u>Nil</u> % Solids <u>3</u> % - lb/B° Temp. <u>120</u> °F, Gels = <u>2</u> 1/2 ALK. (Pf) = <u>TR.</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>15</u> ft/hr Bit Weight <u>3110</u> M.lbs Rotary RPM <u>TURBO</u> Pump psi <u>1600</u> Pump SPM <u>56</u> Pump liners <u>7" x 16</u> Pump output = <u>485</u> GPM Ann. Vel. = <u>251-346</u> ft/min. Hours Running Centrifuge = <u>8</u> Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>1-21-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>7734'</u> Yesterday's depth <u>7673'</u> Drilled <u>61</u> ft. in <u>5</u> hrs. Last casing <u>95/8</u> " Depth <u>6000'</u> Rotating Hrs. this report = <u>7</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>35^{RE}</u>	<u>8 1/2</u>	<u>Varel 6948</u>	<u>V-527</u>	<u>3-16</u>	<u>N^{RE}</u>	<u>7577'</u>	<u>7704'</u>	<u>127</u>	<u>6</u>	<u>21.1</u>	<u>4</u>	<u>4</u>	<u>I</u>
<u>6^{CH}</u>	<u>8 1/2</u>	<u>N.C. 011878</u>	<u>SC226</u>	<u>-</u>	<u>N^{RE}</u>	<u>7704'</u>	<u>7734'</u>	<u>30</u>	<u>3</u>	<u>10</u>	<u>-</u>	<u>-</u>	<u>-</u>
<u>36</u>	<u>8 1/2</u>	<u>Varel 5038</u>	<u>V-527</u>	<u>OUT</u>	<u>N</u>	<u>7734'</u>	<u>7734'</u>	<u>0</u>	<u>-</u>	<u>-</u>	<u>1</u>	<u>N</u>	<u>C</u>

BHA Length: 1087.08 Ft., Consist of: 8 1/2" BIT - Turbo - K.S. 1 1/2" - MANE1 - 9x6 1/4" DC JARS (EW) - 3x6 1/4" DC - (X) - 21x5" H.W.

BHA Wt. in Mud: _____ Lb.
 Total String Wt.: 225,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas units at Ft. Avg. background gas <u>CO2 300.ppm</u> units
	<u>0</u>		Connection gas: Max. units at ' mud wt. <u>8.7</u> lb./Gal.
<u>7654'</u>	<u>6° 15'</u>	<u>S-47-E</u>	Coordinates: M.D. TVD
			Present operations: <u>TRY TO KICK START Turbo @ 7734'</u>

HOURS	Operations last 24 Hours:
<u>2</u>	<u>6-8 Drill F/7673' To 7704'</u>
<u>1/2</u>	<u>8-8:30 Survey @ 7654'</u>
<u>2 1/2</u>	<u>8:30-11 P.D.H. - P/U Core Bbl. & R.I.H.</u>
<u>1</u>	<u>11-12 Slip & Cut Drill Line 170'</u>
<u>3</u>	<u>12-3 R.I.H. T/ 7704'</u>
<u>3</u>	<u>3-6 Core #24 F/7704' To 7734'</u>
<u>8</u>	<u>6-2 P.D.H. - Service Core Barrel (100% Rec) & L/D Core Bbl - P/U Turbo & R.I.H. w/ BIT #36 (NEW E.W. JARS)</u>

MUD & CHEMICALS USED		
Sack Barite:	<u>1</u>	<u>2-3 Break Circ @ Shoe & CK Turbo</u>
Bulk Barite:	<u>1</u>	<u>3-4 R.I.H. T/ 7704'</u>
Gel: <u>Profo</u>	<u>11</u>	<u>1 4-5 Ream Core Hole F/7704' To 7734'</u>
Caustic Soda:	<u>1</u>	<u>5-6 Ream & WORK Turbo (TRY TO KICK START Turbo @ 6AM)</u>
Lignite:		
<u>Thermogel</u>	<u>56</u>	
<u>T-TRALITE</u>	<u>2</u>	<u>24 TOTAL HOURS</u>
<u>XC-Poly</u>	<u>6</u>	
<u>T-Plex</u>	<u>2</u>	<u>Mud Loses 5 Bbl/hr.</u>
<u>P-Temp SX</u>	<u>2</u>	
<u>P-Temp L</u>	<u>2</u>	<u>7650'-7730' 100% CLY3TH</u>
<u>NaOH</u>	<u>3</u>	
<u>Soda Ash</u>	<u>2</u>	<u>Temp @ 7730' IN = 129°F</u> <u>OUT = 168°F</u>

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>9.0</u> lb/gal. Vis. <u>35</u> Sec. <u>7</u> PV <u>8</u> YP W.L. <u>17.8</u> cc/30 Sand <u>14</u> % pH. <u>9.6</u> Ca+ <u>160</u> PPM W.C. <u>2</u> /32" CL- <u>6000</u> PPM Oil Nil % Solids <u>5</u> % <u>16</u> lb/B* Temp. <u>120</u> °F, Gels = <u>2</u> /18 ALK. (Pf) = <u>.10</u> K-ion = _____ PPM Nation = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>12</u> ft/hr Bit Weight <u>15/20</u> M.lbs Rotary RPM <u>Turbo</u> Pump psi <u>2200</u> Pump SPM <u>42 - 42</u> Pump liners <u>6" - 7"</u> Pump output = <u>628</u> GPM Ann. Vel. = <u>326 - 449</u> ft/min. Hours Running Centrifuge = <u>10</u> Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>1-22-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>7794'</u> Yesterday's depth <u>7734'</u> Drilled <u>60</u> ft. in <u>6</u> hrs. Last casing <u>9 5/8</u> " Depth <u>6000'</u> Rotating Hrs. this report = <u>1 1/2</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
36	8 1/2	Varel 5038	527	OUT	N	7734'	7759'	25	3	8.3	8	5	0 1/8
37	8 1/2	Varel 17685	627	OUT	N	7759'	7794'	35	3	11.6	4	7	0 1/8
38	8 1/2	Varel 19014	737	OUT	N	7794'	-	0	-	-	-	-	INC

BHA Length: 1087.08 Ft., Consist of: 8 1/2" BIT - Turbo - 1 1/2" Kick Sub - Monel - 9X6 1/4" DC

Jars(EW) - 3X6 1/4" DC - 21X5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 230,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas units at Ft. Avg. background gas <u>CO2 300 PPM</u> units
	o	.		Connection gas: Max. units at mud wt. <u>9.0</u> lb./Gal.
Coordinates: M.D. TVD				Present operations: <u>R.I.H. w/ BIT #38 & Turbo</u>

HOURS	Operations last 24 Hours:
1	6-7 Ream & Try Kick off Turbo @ 7734'
1/2	7-7:30 Pull T/shoe

Daily Cost: \$	2	7:30-9:30 WORK ON #1 Pump
Cumulative Cost: \$	1	9:30-10:30 R.I.H. F/shoe To 7734'
	1	10:30-11:30 ORIENT Turbo
Daily Mud Cost: \$ <u>2,512.93</u>	3	11:30-2:30 Drill w/ Turbo F/7734' To 7759'
Cum. Mud Cost: \$ <u>166,510.65</u>	6	2:30-8:30 P.O.H. chg BITS & R.I.H. w/ BIT #37
	1/2	8:30-9 Ream F/ 7722' To 7759'

MUD & CHEMICALS USED		HOURS	Operations last 24 Hours:
Sack Barite: <u>29</u>	3	9:30-12:30 Drill w/ Turbo F/7759' To 7794'	
Bulk Barite: _____	5 1/2	12:30-6 P.O.H. - chg BITS & Turb - R.I.H. T/shoe	
Gel: <u>Proteo</u> <u>12</u>			
Caustic Soda: _____	24	TOTAL HOURS	
Lignite: _____			

<u>ThermGel</u> <u>91</u>	<u>Mud Losses</u> <u>5/10 Bbl/hr.</u>
<u>T-Trol III</u> <u>5</u>	
<u>Wel Pac</u> <u>10</u>	<u>7730-7790</u> <u>70-80% ClysTN</u>
<u>T-Plex</u> <u>7</u>	<u>10-20% SIT3TN</u>
<u>P-Temp SX</u> <u>2</u>	<u>10-20% SdsTN</u>
<u>NaOH</u> <u>1</u>	
<u>H2 Less</u> <u>9</u>	<u>Temp @ 7790</u> <u>IN = 158°F</u>
<u>Al-STAR</u> <u>1</u>	<u>OUT = 195°F</u>
<u>ANTI-Foam</u> <u>2</u>	
<u>Soda Ash</u> <u>5</u>	
<u>Kwik Seal</u> <u>60</u>	
<u>Sawdust</u> <u>4</u>	

H.T. - H.P. W/L:

Field: SALTON SEA

MUD		RATES		Well <u>STATE 2-14</u>	
Wt. <u>9.0</u> lb/gal.	Penetration <u>25</u> ft/hr	No. days this well	Date <u>1-23-86</u>	Operator <u>Bechtel</u>	
Vis. <u>40</u> Sec. <u>19</u> PV <u>10</u> YP	Bit Weight <u>1015</u> M.lbs	Contractor <u>Cleveland Rig #6</u>		Today's depth <u>7908'</u>	
W.L. <u>17.5</u> cc/30 Sand <u>14</u> %	Rotary RPM <u>Turbo</u>	Yesterday's depth <u>7794'</u>		Drilled <u>114'</u> ft. in <u>6 1/2</u> hrs.	
pH. <u>9.4</u> Ca+ <u>160</u> PPM	Pump psi <u>2300</u>	Last casing <u>9 5/8"</u> " Depth <u>6000'</u>		Rotating Hrs. this report = <u>1</u>	
W.C. <u>2</u> /32" CL <u>5400</u> PPM	Pump SPM <u>40-37</u>	Cumulative rotating hours = _____			
Oil <u>Nil</u> % Solids <u>5</u> % <u>16</u> lb/B°	Pump liners <u>6" - 7"</u>				
Temp. <u>137</u> °F, Gels = <u>4</u> <u>128</u>	Pump output = <u>572</u> GPM				
ALK. (Pf) = <u>.09</u>	Ann. Vel. = <u>297-409</u> ft/min.				
K-ion = _____ PPM	Hours Running _____				
Na-ion = _____ PPM	Centrifuge = <u>8</u>				
At Depth = _____ Ft.	Reduced Pump Rate = _____ SPM = _____ psi				

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
38	8 1/2	Varel 19014	V-737	OUT	N	7794	7860	66	3 1/2	18.8	8	8	0 1/2
39	8 1/2	Varel 18000	V-627	OUT	N	7860	7908	48	3	16	8	7	0 1/2
40	8 1/2	Varel 18601	V-627	OUT	N	7908	-	0	0				INC

BHA Length: 1087.18 Ft., Consist of: 8 1/2" BIT - Turbo - 1 1/2" Kick Sub - Manel - 9 X 6 1/4" DC. - JARS (EW) - 3 X 6 1/4" DC - @ - 21 X 5" HW

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 230,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2</u> <u>300</u> PPM units
	°	'		
7785'	4°	30'	S-38-E	Coordinates: _____ M.D. _____ TVD _____
7849'	2°	15'	S-2-E	Present operations: <u>Reaming F/7849'</u>

MUD & CHEMICALS USED		Operations last 24 Hours:	
Daily Cost: \$		1	6-7 R.I.H. To 7760'
Cumulative Cost: \$		1/2	7-7:30 Ream F/7760 To 7794'
Daily Mud Cost: \$ <u>3,522</u> ³⁶		1	7:30-8:30 Orient Turbo
Cum. Mud Cost: \$ <u>170,033</u> ⁰¹		1	8:30-9:30 Drill w/Turbo F/7794 To 7825'
		1/2	9:30-10 Orient Turbo @ 7825'
		1	10-11 Drill w/Turbo F/7825 To 7857'
		1/2	11-11:30 Orient Turbo @ 7857'
		1 1/2	11:30-1 Drill w/Turbo F/7857 To 7860'
Sack Barite:		5	1-6 P.O.H. Chg Bits + R.I.H. w/BIT # 39 T/7830'
Bulk Barite:		1/2	6-6:30 Ream F/7830 To 7860'
Gel: <u>Profo</u>	<u>11</u>	1	6:30-7:30 Orient Turbo @ 7860'
Caustic Soda:		1 1/2	7:30-9 Drill w/Turbo @ 7860 To 7889'
Lignite:		1	9-10 Survey @ 7849'
Therm Gel	<u>79</u>	1 1/2	10-11:30 Drill w/Turbo F/7889 To 7908'
T-Tool III	<u>4</u>	4 1/2	11:30-4 P.O.H. Chg Bits R.I.H. w/BIT # 40 T/Shoe
Well Pac	<u>2</u>	1	4-5 Break Circ @ Shoe - Chg Swivel Packing
T-Plex	<u>2</u>	1	5-6 R.I.H. T/7849' @ 6:00 AM
R-Temp L	<u>8</u>	24	TOTAL HOURS
Naoh	<u>8</u>		
H2-Less	<u>2</u>		Mud Losses 10-20 Bbl/hr
Sawdust	<u>6</u>		Temp @ 7900' IN = 144°F OUT = 181°F
			7790-7820 70-90% ChgSta 10-30% SITSta
			7820-7900 20-80% ChgSta 10-30% SITSta 10-70% SdSta

H.T. - H.P. W/L:

Field: SALTON SEA

MUD		RATES		Well <u>STATE 2-14</u>	
Wt. <u>9.0</u> lb/gal.	Penetration <u>14</u> ft/hr	No. days this well _____ Date <u>1-24-86</u>		Operator <u>Bechtel</u>	
Vis. <u>39</u> Sec. <u>9</u> PV <u>8</u> YP	Bit Weight <u>25</u> M.lbs	Contractor <u>Cleveland Rig #6</u>		Today's depth <u>7972'</u>	
W.L. <u>16.5</u> cc/30 Sand <u>18</u> %	Rotary RPM <u>80</u>	Yesterday's depth <u>7908'</u>		Drilled <u>64'</u> ft. in <u>5 1/2</u> hrs.	
pH. <u>9.7</u> Ca+ <u>160</u> PPM	Pump psi <u>1000</u>	Last casing <u>9 5/8</u> " Depth <u>6000'</u>		Rotating Hrs. this report = <u>8 1/2</u>	
W.C. <u>2</u> /32" CL <u>5200</u> PPM	Pump SPM <u>40 *2</u>	Cumulative rotating hours = _____			
Oil <u>11.1</u> % Solids <u>5</u> % <u>16</u> lb/B°	Pump liners <u>7" X 16"</u>				
Temp. <u>127</u> °F, Gels = <u>2</u> <u>122</u>	Pump output = <u>346</u> GPM				
ALK. (Pf) = <u>.08</u>	Ann. Vel. = <u>179-247</u> ft/min.				
K+ion = _____ PPM	Hours Running _____				
Na+ion = _____ PPM	Centrifuge = <u>10</u>				
At Depth = _____ Ft.	Reduced Pump Rate: _____ SPM = _____ psi				

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
40	8 1/2	VAREL 18601	V-627	OUT	N	7908'	7935'	27	2	13.5	6	7	0 3/4
41	8 1/2	SEC BARSIS M44N	3-16		N	7935'	7972'	37	3 1/2	10.5	3	4	I
42	8 1/2	VAREC 5061	V-527	OUT	N	7972'	-	0	0				1 NC

BHA Length: 1087.21 Ft., Consist of: 8 1/2" BIT-Turbo - 1 1/2" Kick Sub - 9 X 6 1/2" DC JARS(EW) - 3 X 6 1/4" DC - (X) - 21 X 5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 229,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>300 ppm</u> units
	°	'		
<u>7849'</u>	<u>2°</u>	<u>15'</u>	<u>5-2-W</u>	Coordinates: _____ M.D. _____ TVD _____
<u>7880'</u>	<u>3°</u>	<u>45'</u>	<u>5-5-W</u>	Present operations: <u>R.I.H. F/shoe</u>
<u>7932'</u>	<u>4°</u>	<u>45'</u>	<u>5-13-W</u>	

HOURS	Operations last 24 Hours:	
1	6-7 Ream F/7849' To 7908'	
1/2	7-7:30 Orient Turbo @ 7908'	
1	7:30-8:30 Drill w/Turbo F/7908' To 7920'	
1/2	8:30-9 Survey @ 7880'	
1	9-10 Drill w/Turbo F/7920' To 7935'	
6 1/2	10-4:30 P.O.H. 40 Turbo - P/U BIT #41 - m/u B.H.A. R.I.H. T/7690'	
3	4:30-7:30 Ream Turbo Hole F/7690' To 7935'	
3 1/2	7:30-11 Drill F/7935' To 7972'	
1/2	11-11:30 Survey @ 7932'	
5 1/2	11:30-5 P.O.H. - 40 Reamer-Stub-Lead Collar- P/U Turbo - Chg BITS - R.I.H. w/Bit #42 T/shoe	
1/2	5-5:30 Break Circ @ Shoe	
1/2	5:30-6 Slip D.L. 50' @ shoe	
Thermael	54	
T-Trol III	4	
Mel Pac	4	
T-Plex	3	Mud Loses 5/10 Bbls/hr.
P-Temp L	8	
NaOH	7	7900' - 7970' 70-100% Clysta
H2 Less	2	0-30% SITSTA
Pellets	6	
Sawdust	6	Temp @ 7970' IN = 142°F OUT = 174°F

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>8.9</u> lb/gal. Vis. <u>40</u> Sec. <u>12</u> PV <u>11</u> YP W.L. <u>19.6</u> cc/30 Sand <u>18</u> % pH. <u>10.0</u> Ca+ <u>176</u> PPM W.C. <u>2</u> /32" CL <u>5000</u> PPM Oil <u>nil</u> % Solids <u>5</u> % <u>16</u> lb/B° Temp. <u>120</u> °F, Gels = <u>4</u> <u>136</u> ALK. (Pf) = <u>.25</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>16</u> ft/hr Bit Weight <u>10/15</u> M.lbs Rotary RPM <u>Turbo</u> Pump psi <u>2300</u> Pump SPM <u>40-37</u> Pump liners <u>6" - 7" x 16"</u> Pump output = <u>572</u> GPM Ann. Vel. = <u>297-409</u> ft/min. Hours Running Centrifuge = <u>12</u> Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>1-25-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>8043'</u> Yesterday's depth <u>7972'</u> Drilled <u>71'</u> ft. in <u>6 1/2</u> hrs. Last casing <u>9 5/8</u> " Depth <u>6000</u> Rotating Hrs. this report = _____ Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
42	8 1/2	Varec 5061	V-527	OUT	N	7972'	8017'	45'	3	15	7	8	0 3/8
43	8 1/2	Varec 5060	V-527	OUT	N	8017'	8027'	10'	2	5	7	8	I
34 ^{RE}	8 1/2	N.C. 011058	R-419	OUT	R.R.	8027'	8043'	16'	1 1/2	10.6	INC		

BHA Length: 1087.39 Ft., Consist of: 8 1/2" BIT-Turbo - 1 1/2" Kick Sub - 9 x 6 1/4" DC - JAR (EW) - 3 x 6 1/4" DC - (X) - 21 x 5" H.W. - Manel

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 132,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2 300 ppm</u> units
	o		Connection gas: Max. _____ units at _____ mud wt. <u>8.9</u> lb./Gal.
<u>7987'</u>	<u>4° 15'</u>	<u>5-23-W</u>	Coordinates: _____ M.D. _____ TVD _____
			Present operations: <u>Drilling w/ Turbo F/ 8043'</u>

HOURS	Operations last 24 Hours:
1/2	6-6:30 CONT R.I.H. T/ 7940'
1/2	6:30-7 BREAK Circ @ 7940'
1	7-8 REAM F/ 7940' TO 7972'
1/2	8-8:30 ORIENT Turbo @ 7972'
1 1/2	8:30-10 Drill w/ Turbo F/ 7972' TO 8002'
1/2	10-10:30 Survey @ 7987'
1 1/2	10:30-12 Drill w/ Turb F/ 8002' TO 8017'
5 1/2	12-5:30 P.O.H. - Chg BITS - R.I.H. w/ BIT # 43

MUD & CHEMICALS USED	
Sack Barite:	1/2 5:30-6 REAM F/ 7950' TO 8017'
Bulk Barite:	1 6-7 Survey & ORIENT Turbo @ 8017'
Gel: <u>Proteo 12</u>	2 7-9 Drill w/ Turbo F/ 8017 TO 8027'
Caustic Soda:	6 9-3 P.O.H. - 4/D Turbo - P/U New Turbo - Chg
Lignite:	BITS - R.I.H. w/ BIT # 34 ^{RE} T/ shoe
Therm Gel <u>42</u>	1/2 3-3:30 BREAK Circ @ shoe
T-Troll III <u>3</u>	1/2 3:30-4 CONT R.I.H. T/ 8000'
T-Plex <u>4</u>	1/2 4-4:30 REAM F/ 8000' TO 8027'
P-Temp L <u>6</u>	1 1/2 4:30-6 Drill w/ Turbo F/ 8027 TO 8043 @ 6:00AM
NaOH <u>6</u>	
Pellets <u>3</u>	24 TOTAL HOURS
Sawdust <u>3</u>	
7970- 8030 90-100% Chy-TN 0-10% SIT-TN.	
Mud Losses 5-10 Bbls/hr.	
Temp @ 8030' IN = 148°F OUT = 190°F	

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>8.9</u> lb/gal. Vis. <u>38</u> Sec. <u>8</u> PV <u>14</u> YP W.L. <u>19.0</u> cc/30 Sand <u>14</u> % pH. <u>10.5</u> Ca+ <u>124</u> PPM W.C. <u>2</u> /32" CL- <u>4600</u> PPM Oil <u>NIL</u> % Solids <u>4</u> % <u>16</u> lb/B* Temp. <u>120</u> °F, Gels = <u>2</u> /36 ALK. (Pf) = <u>.40</u>			RATES Penetration <u>4</u> ft/hr Bit Weight <u>20</u> M.lbs Rotary RPM <u>60</u> Pump psi <u>1500</u> Pump SPM <u>53</u> Pump liners <u>7" X 16"</u> Pump output = <u>459</u> GPM Ann. Vel. = <u>238-328</u> ft/min. Hours Running <u>18</u> Centrifuge = _____ Reduced Pump Rate: _____ SPM = _____ psi			Well <u>STATE 2-14</u> No. days this well _____ Date <u>1-26-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>8080'</u> Yesterday's depth <u>8043'</u> Drilled <u>37</u> ft. in <u>1 1/2</u> hrs. Last casing <u>9 5/8"</u> " Depth <u>6000'</u> Rotating Hrs. this report = <u>14</u> Cumulative rotating hours = _____		
K+ion = _____ PPM Na-ion = _____ PPM At Depth = _____ Ft.								

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>34^{RR}</u>	<u>8 1/2</u>	<u>A.C. 0111058</u>	<u>R-419</u>	<u>OUT</u>	<u>RR</u>	<u>8027</u>	<u>8070</u>	<u>43</u>	<u>10</u>	<u>4.3</u>			
<u>41^{RR}</u>	<u>8 1/2</u>	<u>BB 8515 (Sec)</u>	<u>M44N</u>	<u>3-16</u>	<u>RR</u>	<u>8070</u>	<u>8080</u>	<u>10</u>	<u>1 1/2</u>	<u>6.6</u>			<u>INC</u>

BHA Length: 1078.73 Ft., Consist of: 8 1/2" BIT^{RR} - 6 PT. Reamer^{RR} - Manel - 1 X 6 1/4" DC - 8 1/2" IBS STAB^{RR} - 8 X 6 1/4" DC - JAR (EW) - 3 X 6 1/4" DC
⊗ - 21 X 5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 135,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2 300ppm</u> units
<u>8028</u>	<u>4° 15'</u>	<u>S-40-W</u>	Connection gas: Max. _____ units at _____ mud wt. <u>8.9</u> lb./Gal.
			Coordinates: <u>N-31.93 E-173.76</u> M.D. <u>8028'</u> TVD <u>8008.46</u>
			Present operations: <u>Drill ahead F/8080'</u>

HOURS	Operations last 24 Hours:
<u>9</u>	<u>6-3 Drill w/Turbo F/ 8043' To 8068'</u>
<u>1</u>	<u>3-4 Survey @ 8028'</u>
<u>1</u>	<u>4-5 Repair #2 pump</u>
<u>1</u>	<u>5-6 Drill w/Turbo F/ 8068' To 8070'</u>
<u>7</u>	<u>6-1 P.O.H. - 40 Turbo - M/U B.H.A. - R.T.H. w/Bit #41^{RR} T/7964'</u>
<u>2 1/2</u>	<u>1-3:30 Ream F/7964' To 8070'</u>
<u>1 1/2</u>	<u>3:30-5 Drill F/8070' To 8080'</u>

Daily Cost: \$ _____	<u>1</u>	<u>4-5 Repair #2 pump</u>
Cumulative Cost: \$ _____	<u>1</u>	<u>5-6 Drill w/Turbo F/ 8068' To 8070'</u>
Daily Mud Cost: \$ <u>2981⁹⁸</u>	<u>7</u>	<u>6-1 P.O.H. - 40 Turbo - M/U B.H.A. - R.T.H. w/Bit #41^{RR} T/7964'</u>
Cum. Mud Cost: \$ <u>179,033⁸⁵</u>	<u>2 1/2</u>	<u>1-3:30 Ream F/7964' To 8070'</u>
	<u>1 1/2</u>	<u>3:30-5 Drill F/8070' To 8080'</u>
MUD & CHEMICALS USED	<u>1</u>	<u>5-6 Repair pump #2 @ 6:00 AM</u>
Sack Barite:		
Bulk Barite:	<u>24</u>	<u>TOTAL HOURS</u>
Gel: <u>Prefro 7</u>		
Caustic Soda:		
Lignite:		
<u>Thermogel 20</u>		<u>Mud Losses (NONE)</u>
<u>T-Teol III 4</u>		
<u>T-Plex 4</u>		<u>Temp @ 8075' = IN-140°F OUT-179°F</u>
<u>P-Temp 5x 4</u>		
<u>P-Temp L 1</u>		<u>8030-8070' 80-90% CRYSTN 10% SITSN</u>
<u>Naoh 8</u>		<u>0-10% SdSTN</u>
<u>H-2 Less 1</u>		

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>8.4 - WATER</u> lb/gal. Vis. _____ Sec. _____ PV _____ YP _____ W.L. _____ cc/30 Sand _____ % pH. _____ Ca+ _____ PPM W.C. _____ /32" CL _____ PPM Oil _____ % Solids _____ % lb/B* Temp. _____ °F, Gels = _____ l. _____ ALK. (Pf) = _____ K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>9</u> ft/hr Bit Weight <u>2025</u> M.lbs Rotary RPM <u>60</u> Pump psi <u>1500</u> Pump SPM <u>40</u> Pump liners <u>7" X 16</u> Pump output = <u>346</u> GPM Ann. Vel. = <u>179-247</u> ft/min. Hours Running _____ Centrifuge = _____ Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>1-27-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>8126</u> Yesterday's depth <u>8080</u> Drilled <u>46</u> ft. in <u>5 1/2</u> hrs. Last casing <u>9 5/8</u> " Depth <u>6000</u> Rotating Hrs. this report = <u>5 1/2</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
41	8 1/2	Sec B08515	M-44N	3-16	RR	8070	8126	56	7	8	7	5	I
45	8 1/2	Sec 407986	S-86F	OUT N	N	8126							1 NC

BHA Length: 1057.39 Ft., Consist of: 8 1/2" BIT - Turbo - 1 1/2" Kicks sub - 9 X 6 1/4" DC
Jars - 3 X 6 1/4" DC - @ - 20 X 5" N.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 134,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas units at Ft. Avg. background gas <u>3.00 P.P.M.</u> units Connection gas: Max. units at ' mud wt. lb./Gal. Coordinates: M.D. TVD Present operations: <u>Circ @ shoe w/ RETURNS</u>
	o	.		
<u>8086'</u>	<u>5°</u>	<u>-</u>	<u>S-33-W</u>	

HOURS	Operations last 24 Hours:
<u>2</u>	<u>6-8 Drill F/ 8080 To 8094 - Loss 100 Bbls @ 8081 - 100 Bbls @ 8094</u>
<u>1</u>	<u>8-9 Survey @ 8086'</u>
<u>3 1/2</u>	<u>9-12:30 Drill F/ 8094 To 8126 w/ NO RETURNS</u>
<u>1/2</u>	<u>12:30-1 Survey @</u>
<u>1/2</u>	<u>1-1:30 Mix & spot comp pill @ 8126'</u>
<u>1 1/2</u>	<u>1:30-1 P.O.H. & inspect B.H.A.</u>
<u>1</u>	<u>1-2 m/u B.H.A. p/u Turbo & R.I.H. w/ BIT #45</u>
<u>2</u>	<u>2-4 Slip & Cut D.L. 105 & Replace Brake Band</u>
<u>2</u>	<u>4-6 R.I.H. @ 6:00</u>
<u>60</u>	<u>Gel:</u>
<u>24</u>	<u>TOTAL Hours</u>

MUD & CHEMICALS USED	
Sack Barite:	
Bulk Barite:	
Gel:	<u>60</u>
Caustic Soda:	<u>24</u>
Lignite:	
Therm Gel	<u>73</u>
T-Trol III	<u>2</u>
Welpac	<u>6</u>
T-Plex	<u>2</u>
P-Temp SX	<u>2</u>
NaOH	<u>4</u>
1/2 Loss	<u>1</u>
CSH	<u>55</u>
Pellets	<u>25</u>
Cedar	<u>12</u>
Sawdust	<u>30</u>

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>8.3</u> <u>H₂O</u> lb/gal. Vis. _____ Sec. _____ PV _____ YP _____ W.L. _____ cc/30 Sand _____ % pH. _____ Ca+ _____ PPM W.C. _____ /32" CL- _____ PPM Oil _____ % Solids _____ % lb/B* Temp. _____ °F, Gels = _____ / ALK. (Pf) = _____ K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>7</u> ft/hr Bit Weight <u>15/20</u> M.lbs Rotary RPM <u>45</u> Pump psi <u>1000</u> Pump SPM <u>41</u> Pump liners <u>7" X 16"</u> Pump output = <u>355</u> GPM Ann. Vel. = <u>184-253</u> ft/min. Hours Running <u>4</u> Centrifuge = _____ Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>1-28-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>8152'</u> Yesterday's depth <u>8126'</u> Drilled <u>26</u> ft. in <u>5</u> hrs. Last casing <u>9 5/8</u> " Depth <u>6000'</u> Rotating Hrs. this report = <u>3</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>44</u>	<u>8 1/2</u>	<u>Sec 407986</u>	<u>586F</u>	<u>OUT</u>	<u>N</u>	<u>8126'</u>	<u>8133'</u>	<u>7'</u>	<u>2 1/2</u>	<u>2.8</u>	<u>8</u>	<u>7</u>	<u>0 1/4</u>
<u>6^{RE}</u>	<u>8 1/2</u>	<u>N.C. 011878</u>	<u>SL-226</u>	<u>CORE</u>	<u>RE</u>	<u>8133'</u>	<u>8152'</u>	<u>23</u>	<u>2 1/2</u>	<u>9.2</u>			<u>NC</u>
								<u>19</u>		<u>7.6</u>			

BHA Length: 1010.72 Ft., Consist of: Core Bit - Core Bbl - 9 X 6 1/4" DC - Jars (EW) - 3 X 6 1/4" DC - @ - 19 X 5" H.W.

BHA Wt. in Mud: _____ Lb.
 Total String Wt.: 225,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO₂ 64.000 ppm</u> units
	o		
<u>None</u>			Coordinates: _____ M.D. _____ TVD _____
			Present operations: <u>Coring F/ 8152'</u>

HOURS	Operations last 24 Hours:
<u>1/2</u>	<u>6-6:30 Circ @ shoe w/ Full RETURNS</u>
<u>1</u>	<u>6:30-7:30 R.I.H. T/ 8126'</u>
<u>1/2</u>	<u>7:30-8 Circ @ 8126'</u>
<u>1</u>	<u>8-8:30 Orient Turbo @ 8126'</u>
<u>2 1/2</u>	<u>8:30-9:30 Well Flowing @ 8126' - Circ</u>
<u>2 1/2</u>	<u>9:30-12 Drill w/ Turbo F/ 8126' to 8133'</u>
<u>2</u>	<u>12-2 Circ w/ Well Flowing - Mix 9 pump pills UNTIL STATIC</u>
<u>5 1/2</u>	<u>2-7:30 P.O.H. (Well started to flow) - 4D Turbo</u>
<u>92</u>	<u>m/w BIT on D.P. & R.I.H. T/ 1500</u>
<u>1</u>	<u>7:30-8:30 Circ & Cond Mud @ 1500 to well static</u>
<u>57</u>	<u>3 8:30-11:30 P.O.H. P/U & Run Core Bbl. T/ shoe</u>
	<u>2 1/2 11:30-2 Break Circ @ shoe w/ 75% RETURNS</u>
	<u>(Lost 260 Bbls) - Build Mud Volume & SPAT</u>
<u>35</u>	<u>LCM Pill @ shoe</u>
<u>3</u>	<u>1 2-3 CONT. R.I.H. T/ 8111'</u>
<u>2</u>	<u>1/2 3-3:30 Ream F/ 8111' to 8133'</u>
<u>1</u>	<u>2 1/2 3:30-6 CUT Core = F/ 8133' to 8152' @ 6:00 AM</u>
<u>1</u>	
<u>96</u>	<u>LOST RETURNS w/ CORING @ 8134'</u>

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>8.7</u> lb/gal. Vis. <u>30</u> Sec. <u>3</u> PV <u>3</u> YP W.L. <u>35.7</u> cc/30 Sand <u>72</u> % pH. <u>11.2</u> Ca+ <u>620</u> PPM W.C. <u>3</u> /32" CL- <u>6100</u> PPM Oil <u>Nil</u> % Solids <u>3</u> % - lb/B" Temp. <u>80</u> °F, Gels = <u>2</u> / <u>2</u> ALK. (Pf) = <u>.72</u>				RATES Penetration <u>5</u> ft/hr Bit Weight <u>15/20</u> M.lbs Rotary RPM <u>45</u> Pump psi <u>1000</u> Pump SPM <u>41</u> Pump liners <u>7" x 16"</u> Pump output = <u>355</u> GPM Ann. Vel. = <u>184-253</u> ft/min. Hours Running Centrifuge = Reduced Pump Rate: _____ SPM = _____ psi				Well <u>STATE 2-14</u> No. days this well _____ Date <u>1-29-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>8161'</u> Yesterday's depth <u>8152'</u> Drilled <u>9</u> ft. in <u>2</u> hrs. Last casing <u>9 5/8</u> " Depth <u>6000'</u> Rotating Hrs. this report = _____ Cumulative rotating hours = _____			
K+ion = _____ PPM		N+ion = _____ PPM		At Depth = _____ Ft.		Hours Running		Centrifuge =		Reduced Pump Rate: _____ SPM = _____ psi	

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
6 ^{RE}	8 1/2	A.I.C. 0111878	SC-226	CORE	RR	8133'	8161'	28	5	5.6			
45	8 1/2	Sec BB 8514	M44N	OUT	N	8161						1	NC

BHA Length: _____ Ft. Consist of: 8 1/2" BIT^(N) - BIT sub w/ float - 80 1/3 D.P. - (X)
17x5" H.W. D.P.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2 300 ppm</u> units
			Connection gas: Max. _____ units at _____ mud wt. <u>8.7</u> lb./Gal.
			Coordinates: _____ M.D. _____ TVD _____
			Present operations: <u>W.D.C. @ Shoe</u>

HOURS	Operations last 24 Hours:
2 1/2	6-8:30 CONT CORE #25 F/8152 TO 8161'
7 1/2	8:30-4 P.D.H. SERVICE CORE BBL - RECOVERY 100% 1/2 CORE BBL - M/U BIT #45 + R.I.H. w/D.P. + H.W. ONLY TO 8131'

Daily Cost: \$	
Cumulative Cost: \$	
Daily Mud Cost: \$ <u>4993.22</u>	
Cum. Mud Cost: \$ <u>185,784.83</u>	
MUD & CHEMICALS USED	
Sack Barite:	<u>1/2 6:30-7 P.D.H. TO SHOE</u>
Bulk Barite:	<u>8 7-3 W.D.C. @ 12:30 FILL ANNULUS - TOOK 200 BBLs</u>
Gel: <u>Perfeo 63</u>	<u>@ 2:30 FILL ANNULUS - TOOK 14 BBLs</u>
Caustic Soda:	<u>1 3-4 R.I.H. TO TAG PLUG - NO PLUG</u>
Lignite:	<u>1 4-5 MIX & PUMPED 50 BBL LCM CMT. PLUG = 305X</u>
Thermogel <u>377</u>	<u>PORTLAND CMT. + 3% GEL + .65% RETARDEE +</u>
Weldac <u>7</u>	<u>105X KWIK SEAL + 105X CEDAR FIBER - DISPLACED</u>
Nash <u>10</u>	<u>w/ 640 STKS - C.I.P. @ 5:04 AM</u>
Csh <u>15</u>	<u>5-6 P.D.H. T/SHOE - W.D.C. @ 6:00 AM</u>
Pellets <u>15</u>	
Kwik Seal <u>25</u>	
Cedar Fiber <u>10</u>	
Sawdust <u>24</u>	

H.T. - H.P. W/L: _____

Field: SALTON SEA

Wt. <u>8.5</u> lb/gal. Penetration <u>19</u> ft/hr Vis. <u>27</u> Sec. <u>3</u> PV <u>2</u> YP Bit Weight <u>25</u> M.lbs W.L. <u>N/C</u> cc/30 Sand <u>1/2</u> % Rotary RPM <u>80</u> pH. <u>9.8</u> Ca+ <u>504</u> PPM Pump psi <u>1200</u> W.C. <u>—</u> /32" CL <u>3400</u> PPM Pump SPM <u>44</u> Oil <u>Nil</u> % Solids <u>1 1/2</u> % <u>—</u> lb/B* Pump liners <u>7" X 16"</u> Temp. <u>90</u> °F, Gels = <u>—</u> <u>1</u> = Pump output = <u>380</u> GPM ALK. (Pf) = <u>.03</u> Ann. Vel. = <u>197-272</u> ft/min. K-ion = _____ PPM Hours Running _____ Na-ion = _____ PPM Centrifuge = <u>8</u> At Depth = _____ Ft. Reduced _____ Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>1-30-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>8245</u> Yesterday's depth <u>8161</u> Drilled <u>84</u> ft. in <u>5 1/2</u> hrs. Last casing <u>9 5/8</u> " Depth <u>6000</u> Rotating Hrs. this report = <u>6 1/2</u> Cumulative rotating hours = _____
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
45	8 1/2	Sec 888514	M44N	OUT	N	8161	8161	⊖	⊖	F/reaming	NEW		
46	8 1/2	Varel 16977	V-627	3-13	N	8161	8245	84	5 1/2	15.2	INC		

BHA Length: 1036.58 Ft., Consist of: 8 1/2" BIT-N.B. (RF) - NB (N) - Lead Collar - STAB (N) - Model - STAB (N) - 2 X 6 1/4" DC - STAB (N) - 7 X 6 1/4" DC - JARS (RW) - 3 X 6 1/4" DC - (R) - 19 X 5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 236,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>Co2 300 ppm</u> units <u>Co2 (Reaming) 10,000 ppm</u> units at _____ mud wt. <u>8.5</u> lb./Gal. Coordinates: _____ M.D. _____ TVD _____ Present operations: <u>Drilling Ahead F/ 8245</u>
	o	.		
8190	4° 30'		S-38-W	

HOURS	Operations last 24 Hours:
6	6-12 W.O.C.
1/2	12-12:30 Circ @ shoe w/ full RETURNS
1	12:30-1:30 R.I.H. T/ 8128
2	1:30-3:30 Circ @ shoe w/ full RETURNS - Mixed + spotted LCM Pill - (Kwik Seal - CSH. Pellets - Cedar fiber) @ 8128 - 50 Bbl.
5 1/2	3:30-9 P.O.H. mlu B.H.A. + R.I.H. w/ BIT #46 T/shoe
MUD & CHEMICALS USED	
1	9-9:30 Break Circ @ shoe
1	9:30-10:30 R.I.H. T/ 8106'
1	10:30-11:30 Ream F/ 8106' To 8161'
5	11:30-4:30 Drill F/ 8161' To 8238'
1/2	4:30-5 Circ F/ survey @ 8238'
1/2	5-5:30 Survey @ 8190
1/2	5:30-6 Drill F/ 8238' To 8245' @ 6:00 AM
	Thermogel 337
	Welpac 8
	Naoh 9
	CSH 15
	Pellets 3
	Kwik Seal 10
	Cedar Fiber 20
	Sawdust 10
	Mud Losses 30 Bbl/hr.
	8160-8230 70-100% Cystin 0-20% Siltin 0-10% Sandin
	10,000 ppm Co2 w/ Reaming
	Temp @ 8220 in = 111°F out = 130°F

H.T. - H.P. W/L: _____

Field: SALTON SEA

Wt. <u>8.7</u> MUD lb/gal Vis. <u>30</u> Sec. <u>6</u> PV <u>4</u> YP W.L. <u>120</u> cc/30 Sand <u>1/4</u> % pH. <u>9.2</u> Ca+ <u>536</u> PPM W.C. <u>3/8</u> 1/32" CL <u>3000</u> PPM Oil <u>Nil</u> % Solids <u>3</u> % <u>14</u> lb/B* Temp. <u>100</u> °F, Gels = <u>6</u> <u>1.18</u> ALK. (Pf) = <u>-0.2</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>16</u> ft/hr Bit Weight <u>25-35</u> M.lbs Rotary RPM <u>40-80</u> Pump psi <u>1000</u> Pump SPM <u>40</u> Pump liners <u>7" X 16"</u> Pump output = <u>347</u> GPM Ann. Vel. = <u>179-247</u> ft/min. Hours Running _____ Centrifuge = <u>12</u> Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>1-31-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>8402'</u> Yesterday's depth <u>8245'</u> Drilled <u>157'</u> ft. in <u>11</u> hrs. Last casing <u>9 5/8"</u> " Depth <u>6000'</u> Rotating Hrs. this report = <u>11</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>46</u>	<u>8 1/2</u>	<u>Varel 16977</u>	<u>V-627</u>	<u>3-13</u>	<u>N</u>	<u>8161'</u>	<u>8395'</u>	<u>234</u>	<u>14</u>	<u>16.7</u>	<u>4</u>	<u>7</u>	<u>I</u>
<u>6²⁴ CH</u>	<u>8 1/2</u>	<u>N.C. 011878</u>	<u>SC226</u>	<u>-</u>	<u>RR</u>	<u>8395'</u>	<u>8402'</u>	<u>7</u>	<u>2</u>	<u>3.5</u>			

BHA Length: 1014.49 Ft., consist of: 8 1/2" Core Bit - Core Bbl. - 2 X 6 1/4" DC - 8 1/2" Stab -
7 X 6 1/4" DC - JARS - 3 X 6 1/4" DC - (EW) -
19 X 5" H.W. (2 X 5" Pup Joints)

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 137,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>300 ppm</u> units
	°	'		
<u>8248</u>	<u>4°</u>	<u>15'</u>	<u>S-31-W</u>	Coordinates: _____ M.D. _____ TVD _____
<u>8311</u>	<u>4°</u>	<u>15'</u>	<u>S-27-W</u>	Present operations: <u>P.O.H. w/ Core Bbl.</u>
<u>8342</u>	<u>4°</u>	<u>15'</u>	<u>S-23-W</u>	

HOURS	Operations last 24 Hours:
<u>4</u>	<u>6-10 CONT. DRILG F/ 8245' TO 8301'</u>
<u>1</u>	<u>10-11 SURVEY @ 8248'</u>

Daily Cost: \$ _____	<u>3 1/2</u>	<u>11-2:30 DRILL F/ 8301' TO 8364'</u>
Cumulative Cost: \$ _____	<u>1</u>	<u>2:30-3:30 SURVEY @ 8311'</u>
Daily Mud Cost: \$ <u>4823.18</u>	<u>1 1/2</u>	<u>3:30-5 DRILL F/ 8364' TO 8395'</u>
Cum. Mud Cost: \$ <u>194,857.18</u>	<u>1</u>	<u>5-6 CIRC F/ CORE @ 8395'</u>
	<u>1/2</u>	<u>6-6:30 SURVEY @ 8342'</u>
	<u>6 1/2</u>	<u>6:30-1 P.O.H. 4D MONEL-STABS + L.C. - P/U</u>

MUD & CHEMICALS USED		CORE BBL. + R.I.H. T/SHOE	
Sack Barite:	<u>1/2</u>	<u>1-1:30 BREAK CIRC @ SHOE</u>	
Bulk Barite:	<u>1</u>	<u>1:30-2:30 CONT. R.I.H. T/ 8395'</u>	
Gel: Profco	<u>18</u>	<u>1/2 2:30-3 CIRC @ 8395'</u>	
Caustic Soda:	<u>2</u>	<u>3-5 CORE F/ 8395' TO 8402' (JAMMED)</u>	
Lignite:	<u>1/2</u>	<u>5-5:30 CIRC. F/ P.O.H.</u>	
Thermogel	<u>145</u>	<u>1/2 5:30-6 P.O.H. w/ CORE #26 @ 6:00 AM</u>	
T-Trol III	<u>2</u>	<u>24 TOTAL HOURS</u>	
Welpac	<u>5</u>		
PTemp sk	<u>2</u>	<u>8230-8290' 80-100% CHSTN 0-10% SITSTN 0-20% SDSTN</u>	
Naoh	<u>6</u>	<u>8290-8350' 20-60% 20-50% 10-60%</u>	
Caoh	<u>1</u>	<u>8350-8390' 50-90% 10-50% 0-10%</u>	
H2 Less	<u>2</u>		
Hib 100	<u>1</u>	<u>Mud Loses 30 Bbl./hr.</u>	
ANTI FOAM	<u>8</u>	<u>Temp @ 8350' IN = 125°F OUT = 142°F</u>	
Pellets	<u>14</u>		
Kwik seal	<u>14</u>		
Sawdust	<u>34</u>		

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>8.6</u> lb/gal. Vis. <u>26</u> Sec. - PV - YP W.L. <u>A/C</u> cc/30 Sand <u>TR.</u> % pH. <u>9.0</u> Ca+ <u>160</u> PPM W.C. <u>N/C</u> /32" CL- <u>120</u> PPM Oil <u>Nil</u> % Solids <u>1</u> % lb/B* Temp. <u>134</u> °F, Gels = <u>N/C</u> ALK. (Pf) = <u>.03</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.			RATES Penetration <u>29</u> ft/hr Bit Weight <u>35</u> M.lbs Rotary RPM <u>80</u> Pump psi <u>1300</u> Pump SPM <u>47</u> Pump liners <u>7"x16"</u> Pump output = <u>407</u> GPM Ann. Vel. = <u>210-290</u> ft/min. Hours Running _____ Centrifuge = <u>8</u> Reduced Pump Rate: _____ SPM = _____ psi			Well <u>STATE 2-14</u> No. days this well <u>101</u> Date <u>2-1-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>8585</u> Yesterday's depth <u>8402</u> Drilled <u>183</u> ft. in <u>7</u> hrs. Last casing <u>9 5/8</u> " Depth <u>6000</u> Rotating Hrs. this report = <u>7 1/2</u> Cumulative rotating hours = _____		
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
47	8 1/2	Varel 22152	V-627	3-13	N	8402	8585	183	7	26.1	4	4	0 1/8
62 ^{RS} 62 ^{CH}	8 1/2	N.C. 011878	SL226	-	RR.	8585	-	⊖					

BHA Length: 997.55 Ft., Consist of: 8 1/2" Core Bit - Core Bbl. - 2x6 1/4" DC - STAB - 7x6 1/4" DC - JARS (N.L.) - 3x6 1/4" DC - 19x5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 238,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2 300ppm</u> units
8388'	4° -	S-17-W	Connection gas: Max. _____ units at _____ mud wt. <u>8.6</u> lb./Gal.
8450'	3° 45'	S-11-W	Coordinates: _____ M.D. _____ TVD _____
8532'	4° 15'	S-13-W	Present operations: <u>R.I.H. w/ CORE Bbl. (CORE #27)</u>

HOURS	Operations last 24 Hours:
5 1/2	6-11:30 CONT. P.D.H. w/ CORE #26 - SERVICE CORE Bbl. (90% Recovery) - L/D CORE Bbl. - m/u BIT #47 - Chg OUT JARS (N.L.) - R.I.H. T/Shoe
1/2	11:30-12 BREAK CIRC @ SHOE
1/2	12-12:30 CONT R.I.H. T/8342'
1/2	12:30-1 REAM F/8342' TO 8402'
2	1-3 DRILL F/8402' TO 8441'
1	3-4 SURVEY @ 8388'
2	4-6 DRILL F/8441' TO 8503'
1	6-7 SURVEY @ 8450'
2	7-9 DRILL F/8503' TO 8563' (LOSING 280 BBLs)
1/2	9-9:30 CIRC w/ PARTIAL RETURNS @ 8563'
1	9:30-10:30 DRILL F/8563' TO 8585'
1	10:30-11:30 CIRC BOTTOMS UP F/CORE #27
1/2	11:30-12 SURVEY @ 8532'
6	12-6 P.D.H. L/D MANEL - LEAD COLLAR - STABS - P/U CORE BBL. & R.I.H. @ 6:00 AM
1	24 TOTAL HOURS
6	8390'-8450' 20-90% CHSTN 10-70% SITSN 0-60% SCLSTN
4	8450'-8540' 10-60% 0-10% 30-80%
20	8540'-8560' 70% 10-20% 10-20%
28	8560'-8580' 20% - 80%
27	MUD LOSSES 280 BBL/HR @ 8563'
	Temp @ 8560' IN = 137°F OUT = 141°F

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>8.6 N/RETURNS</u> lb/gal. Vis. _____ Sec. _____ PV _____ YP _____ W.L. _____ cc/30 Sand _____ % pH. _____ Ca+ _____ PPM W.C. _____ /32" CL _____ PPM Oil _____ % Solids _____ % lb/B* Temp. _____ °F, Gels = _____ / _____ ALK. (Pf) = _____ K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.				RATES Penetration <u>20</u> ft/hr Bit Weight <u>35</u> M.lbs Rotary RPM <u>80</u> Pump psi <u>1300</u> Pump SPM <u>50</u> Pump liners <u>6" X 16"</u> Pump output = <u>315</u> GPM Ann. Vel. = <u>163-225</u> ft/min. Hours Running Centrifuge = <u>8</u> Reduced Pump Rate = _____ SPM = _____ psi				Well <u>STATE 2-14</u> No. days this well _____ Date <u>2-2-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>8660'</u> Yesterday's depth <u>8585'</u> Drilled <u>25</u> ft. in <u>4</u> hrs. Last casing <u>9 5/8</u> " Depth <u>6000'</u> Rotating Hrs. this report = <u>4 1/2</u> Cumulative rotating hours = _____			
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>62N</u>	<u>8 1/2</u>	<u>M.C. D111878</u>	<u>SC226</u>	<u>-</u>	<u>RR.</u>	<u>8585'</u>	<u>8604'</u>	<u>19</u>	<u>2 1/2</u>	<u>7.6</u>			
<u>48</u>	<u>8 1/2</u>	<u>HTC BB 8219</u>	<u>J-44</u>	<u>12-13-14</u>	<u>N</u>	<u>8604'</u>	<u>8660'</u>	<u>56</u>	<u>1 1/2</u>	<u>37.3</u>			<u>INC</u>

BHA Length: 1019.64 Ft., Consist of: 8 1/2" BIT - N.B. - N.B. - Lead Collar - Stab - Manel - Stab
2 X 6 1/4" - Stab - 7 X 6 1/4" - Jars (W) - 3 X 6 1/4" DC.
Ø - 19 X 5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 244,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas units at Ft. Avg. background gas <u>CO2 300ppm</u> units Connection gas: Max. units at mud wt. <u>8.6</u> lb./Gal. Coordinates: M.D. TVD Present operations: <u>Circ @ Shoe & Mix LCM Pill</u>
	o	.		
<u>8660</u>	<u>3°</u>	<u>45</u>	<u>S-8-W</u>	

HOURS	Operations last 24 Hours:
<u>1 1/2</u>	<u>6-7:30 R.I.H. T/shoe</u>
<u>1</u>	<u>7:30-8:30 Circ @ Shoe (w/well flowing)</u>
<u>1/2</u>	<u>8:30-9:00 CONT. R.I.H. T/8585'</u>
<u>1</u>	<u>9:00-10: BREAK Circ @ 8585' w/NO RETURNS</u>
<u>2 1/2</u>	<u>10-12:30 Core #27 F/8585 TO 8604' (Jammed)</u>
<u>7 1/2</u>	<u>12:30-8 P.O.H. - SCR Core Bhl. = 15 (76% Recovery)</u> <u>1/2 Core Bhl. & P/U Manel - Stabs & R.I.H.</u> <u>w/Bit # 48 T/shoe</u>
MUD & CHEMICALS USED	
Sack Barite:	<u>1/2 8:30-9 Slip D.L. 50'</u>
Bulk Barite:	<u>1 9-10 CONT. R.I.H. T/ 8574'</u>
Gel: <u>Proteo 30</u>	<u>1/2 10-10:30 Ream F/ 8574' TO 8604'</u>
Caustic Soda:	<u>1/2 10:30-11 Drill F/ 8604' TO 8630'</u>
Lignite:	<u>1/2 11-11:30 mix & Pump LCM Pill</u>
Thermogel <u>187</u>	<u>1 11:30-12:30 Drill F/ 8630' TO 8660' NO/RET.</u>
welpac <u>6</u>	<u>1/2 12:30-1 Circ @ 8660' NO/RET.</u>
Naoh <u>4</u>	<u>1/2 1-1:30 Survey @ 8660'</u>
CSH <u>10</u>	<u>1/2 1:30-2 Mix & Spot LCM Pill @ 8660' (cedar-Ks - CSH</u> <u>Sawdust - Pellets</u>
K-Seal <u>15</u>	
Cedar <u>15</u>	<u>1 2-3 P.O.H. T/shoe</u>
Sawdust <u>15</u>	<u>2 3-5 W.D. LCM</u>
	<u>1 5-6 Fill ANNULUS @ Shoe Then Fill-up Line</u>
	<u>24 TOTAL HOURS.</u>

H.T. - H.P. W/L: _____

Field: SALTON SEA

Wt. <u>8.4</u> MUD Vis. <u>26</u> Sec. <u>N/RETURNS</u> lb./gal. W.L. _____ cc/30 Sand _____ % pH. <u>11.3</u> Ca+ <u>52</u> PPM W.C. _____ /32" CL- <u>210</u> PPM Oil _____ % Solids _____ % lb/B* Temp. _____ °F, Gels = _____ / _____ ALK. (Pf) = _____ K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.	RATES Penetration <u>32</u> ft/hr Bit Weight <u>35</u> M.lbs Rotary RPM <u>80</u> Pump psi <u>1000</u> Pump SPM <u>38</u> Pump liners <u>6" x 16"</u> Pump output = <u>239</u> GPM Ann. Vel. = <u>124-171</u> ft/min. Hours Running _____ Centrifuge = <u>10</u> Reduced Pump Rate: _____ SPM = _____ psi	Well <u>STATE 2-14</u> No. days this well _____ Date <u>2-3-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>8800'</u> Yesterday's depth <u>8660'</u> Drilled <u>140'</u> ft. in <u>7 1/2</u> hrs. Last casing <u>9 5/8</u> " Depth <u>6000</u> Rotating Hrs. this report = <u>8</u> Cumulative rotating hours = _____
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
48	8 1/2	HTC BB 8219	J-44	12-13-14	N	8604	8800	196	9	21.7	1	NC	

BHA Length: 1019.64 Ft., Consist of: 8 1/2" BIT-N.B.-N.B.-Lead collar-5Tab-Monel-
 STAB-2X6 1/4" DC-STAB-7X6 1/4" DC-Jars(W)-
 3X6 1/4" DC-(B)-19X5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 245,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2 300ppm</u> units
8693'	3° 45'	S-2-W	Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
8756'	3° 30'	S-7-E	Coordinates: _____ M.D. _____ TVD _____
			Present operations: <u>Mix. & SPAT LCM Pill @ 8800'</u>

HOURS	Operations last 24 Hours:
3	6-9 Circ @ Shoe + Mix LCM Pill
1	9-10 R.I.H. T/8660'
1	10-11 Pump LCM Pill @ 8660'
2	11-1 Drill F/ 8660' To 8692' NO/RETURNS
1	1-2 Mixed LCM Pill w/CMT - 50 Bbls. = 50SX Portland CMT + 3% Gel + .65% Retarder + CSH. + Kwik Seal + Cedar Fiber + Pellets - Displace w/670STKS CIP @ 200pm.
1	2-3 P.D.H. T/ Shoe @ 6000'
5	3-8 W.O.C. @ Shoe
1	8-9 Filled ANNULUS + Circ @ Shoe w/ 80% RETURNS
1/2	9-9:30 R.I.H. T/ 8652'
1/2	9:30-10 Ream F/ 8652' To 8692'
1 1/2	10-11:30 Drill F/ 8692' To 8723' Lost RETURNS @ 8693'
1/2	11:30-12 Circ F/ Survey @ 8723'
1/2	12-12:30 Survey @ 8693'
3 1/2	12:30-4 Drill F/ 8723' To 8786' NO/RETURNS
1/2	4-4:30 Circ F/ Survey @ 8786'
1/2	4:30-5 Survey @ 8756'
1/2	5-5:30 Drill F/ 8786' To 8800' w/NO RETURNS
1/2	5:30-6 Mix LCM Pill @ SPAT @ 8800' F/Trip
24	TOTAL HOURS

MUD Wt. <u>8.7</u> lb/gal. Vis. <u>29</u> Sec. <u>2</u> PV <u>3</u> YP W.L. <u>N/C</u> cc/30 Sand <u>3/8</u> % pH. <u>9.4</u> Ca+ <u>2400</u> PPM W.C. <u>3/8</u> /32" CL <u>12,600</u> PPM Oil <u>Nil</u> % Solids <u>3</u> % - lb/B* Temp. <u>85</u> °F, Gels = <u>-1-</u> ALK. (Pf) = <u>.16</u> K-ion = _____ PPM Nation = _____ PPM At Depth = _____ Ft.				RATES Penetration <u>37</u> ft/hr Bit Weight <u>35</u> M.lbs Rotary RPM <u>80</u> Pump psi <u>1000</u> Pump SPM <u>40 #2</u> Pump liners <u>7" X 16"</u> Pump output = <u>346</u> GPM Ann. Vel. = <u>179-247</u> ft/min. Hours Running <u>8</u> Centrifuge = _____ Reduced Pump Rate: _____ SPM = _____ psi				Well <u>STATE 2-14</u> No. days this well _____ Date <u>2-4-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>8911'</u> Yesterday's depth <u>8800</u> Drilled <u>111'</u> ft. in <u>5 1/2</u> hrs. Last casing <u>9 5/8</u> " Depth <u>6000'</u> Rotating Hrs. this report = <u>6</u> Cumulative rotating hours = _____			
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
48	8 1/2	HTC BB8219	J-44	12-13-14	N	8604	8800	196	9	21.7	7	5	I
62N	8 1/2	N.C. 0111878	SC226	-	RR	8800	8807	7	2	3.5			
49	8 1/2	HTC 82225	V-527	3-15	N	8807	8911	104	3 1/2	29.7	1		NC

BHA Length: 1019.64 Ft., Consist of: 8 1/2" BITTM - N.B.^{RE} - N.B.^{RE} - L.C. - Stab^{RE} - Manel - Stab^{RE} - 2x6 1/4" DC - Stab^{RE} - 7x6 1/4" DC - Jar(NL.) - 3x6 1/4" - Ø - 19x5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 250,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	CO ₂ m ³ /hr Trip gas <u>2.5</u> ppm units at _____ Ft. Avg. background gas <u>3.0</u> ppm. units
	°	'		
8819'	3°	45'	S-2-E	Connection gas: Max. _____ units at _____' mud wt. <u>8.7</u> lb./Gal. Coordinates: <u>S.18.37 E154.92</u> M.D. <u>8796'</u> TVD <u>8764.45</u> Present operations: <u>Drill ahead F/ 8911'</u>

HOURS	Operations last 24 Hours:
1/2	6-6:30 SPOT L.C.M. Pill @ 8800'
6	6:30-12:30 P.O.H. (L/D Manel-L/C-Stab) - P/U Core Bbl + R.I.H. T/shoe

Daily Cost: \$ _____	1/2	12:30-1	BREAK CIRC @ SHOE w/100% RETURNS
Cumulative Cost: \$ _____	1/2	1-1:30	R.I.H. T/ 8800'
Daily Mud Cost: \$ <u>2813.20</u>	1/2	1:30-2	Circ @ 8800' w/100% RETURNS
Cum. Mud Cost: \$ <u>211,234.65</u>	2	2-4	CORE F/8800' TO 8807' (Pump pressure surging) #28

MUD & CHEMICALS USED	QUANTITY	OPERATIONS
Sack Barite:		8 4-12 P.O.H. (well flowed until pulled into Csg. @ shoe well static) - Service Core Bbl
Bulk Barite:		1 L/D Core Bbl - P/U BIT #49 - STABS - L.C.
Gel:		Manel - R.I.H. T/shoe (64% Recovery)
Caustic Soda:	1/2	12-12:30 BREAK CIRC @ SHOE - Add Gel (w/100% Ret.)
Lignite:	1	12:30-1:30 CONT R.I.H. T/ 8780'
Thermogel	60	1/2 1:30-2 Ream F/8780' To 8807' (w/100% Ret.)
Welpac	1	1 1/2 2-3:30 Drill F/8807' To 8849' (w/100% Ret.)
Naoh	2	1/2 3:30-4 Survey @ 8819'
Pellets	20	2 4-6 Drill F/8849' To 8911' @ 6:00 AM.
K. Seal	40	24 TOTAL HOURS
Cedar fiber	40	
Sawdust	40	

Temp @ 8880' IN = 92°F OUT = 106°F
 8800' - 8880' 80-100% Cystn 0-20% SITSTN
 Losing 100 Bbl/hr.

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>8.4</u> <u>Lost Returns</u> lb/gal. Vis. <u>26</u> Sec. _____ PV _____ YP _____ W.L. _____ cc/30 Sand <u>TR</u> % pH. <u>8.6</u> Ca+ <u>180</u> PPM W.C. _____ /32" CL- <u>4/0</u> PPM Oil _____ % Solids _____ % _____ lb/B* Temp. _____ °F, Gels = _____ / _____ ALK. (Pf) = <u>.04</u>				RATES Penetration <u>17</u> ft/hr Bit Weight <u>25/35</u> M.lbs Rotary RPM <u>40/80</u> Pump psi <u>1000</u> Pump SPM <u>40</u> Pump liners <u>7" X 16"</u> Pump output = <u>355</u> GPM Ann. Vel. = <u>184-254</u> ft/min. Hours Running _____ Centrifuge = <u>8</u> Reduced _____ Pump Rate: _____ SPM = _____ psi				Well <u>STATE 2-14</u> No. days this well _____ Date <u>2-5-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>9027'</u> Yesterday's depth <u>8911'</u> Drilled <u>116'</u> ft. in <u>8</u> hrs. Last casing <u>9 5/8</u> " Depth <u>6000'</u> Rotating Hrs. this report = <u>8</u> Cumulative rotating hours = _____			
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
49	8 1/2	Yarel 8933	V-527	3-15	N	8807	9004	197	7	28.1	5	6	I
6 CH	8 1/2	N.C. 0111878	SC226	-	RR	9004	9027	23	4 1/2	5.1			

BHA Length: 999.78 Ft., Consist of: 8 1/2" Bit - Core Bbl. - Float sub - 2 X 6 1/4" DC
STAB - 7 X 6 1/4" DC - Jars (N.L.) - 3 X 6 1/4" DC
CD - 19 X 5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 240,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CD 300ppm</u> units
8881'	3° 45'	S-12-E	Connection gas: Max. _____ units at _____ mud wt. <u>8.4</u> lb./Gal.
8954'	3° 30'	S-16-E	Coordinates: _____ M.D. _____ TVD _____
			Present operations: <u>4/D Core Bbl.</u>

HOURS	Operations last 24 Hours:
1/2	6-6:30 Circ. F/Survey @ 8911'
1/2	6:30-7 Survey @ 8881'

Daily Cost: \$	3 1/2	7-10:30 Drill F/8911' To 9004 - Lost Returns @ 8948'
Cumulative Cost: \$	2 1/2	10:30-1 Circ & Spot 2-LCM pills @ 9004'
Daily Mud Cost: \$ <u>5231 24</u>	1	1-2 Survey @ 8954'
Cum. Mud Cost: \$ <u>216,466 51</u>	4	2-6 P.O.H. - 4D Monel - L.C. - STabs. - P/U Core BH. & R.I.H. T/ 1500'

MUD & CHEMICALS USED	QUANTITY	OPERATIONS
Sack Barite:	1	6-7 Slip & Cut DL 110'
Bulk Barite:	1	7-8 R.I.H. T/Shoe
Gel: <u>Peeco</u>	70	1 1/2 8:30-10 R.I.H. T/ 9004'
Caustic Soda:	4 1/2	10-2:30 Core #29 F/9004' To 9027 - Lost Returns @ 9004'
Lignite:		
Thermax	285	3 1/2 2:30-6 P.O.H. & Rec Core (Scr Core Bbl.) @ 6:00 AM
Welpac	5	24 TOTAL HOURS
NaOH	5	
Pellets	20	8880 - 8920 70-100% Chlstr 0-20% SITSN 0-10% 3dSTN.
K-Seal	60	
Cedar fiber	40	Temp @ 8920' in = 97°F out = 107°F
NutHulls	12	
Sawdust	45	

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD				RATES				Well <u>STATE 2-14</u>			
Wt. <u>8.7</u> lb/gal.	Penetration <u>19</u> ft/hr	No. days this well _____		Date <u>2-6-86</u>		Operator <u>Bechtel</u>		Contractor <u>Cleveland Rig #6</u>		Today's depth <u>9064'</u>	
Vis. <u>31</u> Sec. <u>3</u> PV <u>6</u> YP	Bit Weight <u>25/35</u> M.lbs	Rotary RPM <u>50</u>		Pump psi <u>900</u>		Pump SPM <u>40</u>		Pump liners <u>7" x 16"</u>		Yesterday's depth <u>9027'</u>	
W.L. <u>N/C</u> cc/30 Sand <u>1/2</u> %	Pump output = <u>346</u> GPM	Ann. Vel. = <u>179-247</u> ft/min.		Hours Running <u>8</u>		Centrifuge = _____		Reduced Pump Rate: _____ SPM = _____ psi		Drilled <u>37'</u> ft. in <u>3</u> hrs.	
pH. <u>10.0</u> Ca+ <u>532</u> PPM	Ann. Vel. = _____	Hours Running _____		Centrifuge = _____		Reduced Pump Rate: _____		Rotating Hrs. this report = <u>3</u>		Last casing <u>9 5/8"</u> Depth <u>6000'</u>	
W.C. <u>3/8</u> 1/32" CL <u>3800</u> PPM	Ann. Vel. = _____	Hours Running _____		Centrifuge = _____		Rotating Hrs. this report = _____		Cumulative rotating hours = <u>57 1/2</u>			
Oil <u>N/I</u> % Solids <u>3</u> % <u>12</u> lb/B*	Ann. Vel. = _____	Hours Running _____		Centrifuge = _____							
Temp. <u>120</u> °F, Gels = <u>4/8</u>	Ann. Vel. = _____	Hours Running _____		Centrifuge = _____							
ALK. (Pf) = <u>.07</u>	Ann. Vel. = _____	Hours Running _____		Centrifuge = _____							
K+ion = _____ PPM	Ann. Vel. = _____	Hours Running _____		Centrifuge = _____							
Na+ion = _____ PPM	Ann. Vel. = _____	Hours Running _____		Centrifuge = _____							
At Depth = _____ Ft.	Ann. Vel. = _____	Hours Running _____		Centrifuge = _____							

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
50	8 1/2	Smith BB 8358	F-4	3-16	N	9027	9064	37	3	12.3	1	N	C

BHA Length: 1019.64 Ft., consist of: 8 1/2" B.T.-N.B.^{RE}-N.B.^{RE}-Lead collar-STAB^{RE}-Manel STAB^{RE}-2x6 1/4" DC-STAB^{RE}-7x6 1/4" DC-TAPML-3x6 1/4" DC-@ 19x5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 254,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CD2 300ppm</u> units
	o	.		
				Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
				Coordinates: _____ M.D. _____ TVD _____
				Present operations: <u>Drill ahead F/ 9064'</u>

HOURS	Operations last 24 Hours:
3 1/2	6-9:30 CONT. SER. CORE Bbl. (CORE #29 = 24% REC.) L/D CORE Bbl. - P/U - STABS - L.C. - MANEL - M/U BIT #50 & R.I.H. T/shoe
1/2	9:30-10 BREAK CIRC @ shoe
1	10-11 CONT. R.I.H. & REAM F/ 9004' TO 9027'

Daily Cost: \$ <u>21.6 K</u>	1 1/2	11-12:30 Mix & spot Cont. LCM pill = 35 Bbl - 505x PaeTland
Cumulative Cost: \$ _____		
Daily Mud Cost: \$ <u>1828⁰⁶</u>		
Cum. Mud Cost: \$ <u>218,294⁶⁵</u>		

MUD & CHEMICALS USED			
Sack Barite:	1	12:30-1:30 P.D.H. T/shoe	
Bulk Barite:	3	1:30-4:30 W.D.C. - Pumped T/clear pipe @ shoe - Plugging	
Gel: <u>Profo</u>	78	MANEL.	
Caustic Soda:	3 1/2	4:30-8 P.D.H. - L/D manel - C/D & RERUN T/shoe	
Lignite:	6	8-2 Mix mud & W.D.C. @ shoe	
Thermogel	51	1 2-3 R.I.H. T/9004' & REAM F/9004' TO 9027'	
Naph	8	3 3-6 Drill F/9027' TO 9064' w/ FULL RETURNS @ 6:00 AM	
CSH	10		
Pellets	10		
Kwik Seal	10	Mud Losses 40-50 Bbl/hr.	
Cedar Fiber	10		
Nut Hulls	10	Temp @ 9050 - IN = 99°F OUT = 113°F	

9020-9040 60-90% CL/TA 10-20% SIT/STU 0-20% SD>TA

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>8.7</u> lb/gal. Vis. <u>31</u> Sec. <u>3</u> PV <u>5</u> YP W.L. <u>-</u> cc/30 Sand <u>1/2</u> % pH. <u>9.8</u> Ca+ <u>268</u> PPM W.C. <u>1/4</u> /32" CL- <u>2500</u> PPM Oil <u>NIL</u> % Solids <u>3</u> % <u>10</u> lb/B* Temp. <u>90</u> °F, Gels = <u>4</u> /16 ALK. (Pf) = <u>.03</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.				RATES Penetration <u>14</u> ft/hr Bit Weight <u>25-35</u> M.lbs Rotary RPM <u>38-50</u> Pump psi <u>600-900</u> Pump SPM <u>35-40</u> Pump liners <u>7" 7" x16</u> Pump output = <u>346</u> GPM Ann. Vel. = <u>179-247</u> ft/min. Hours Running _____ Centrifuge = _____ Reduced Pump Rate: _____ SPM = _____ psi				Well <u>STATE 2-14</u> No. days this well _____ Date <u>2-7-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>9098'</u> Yesterday's depth <u>9064</u> Drilled <u>34</u> ft. in <u>4</u> hrs. Last casing <u>9 5/8</u> " Depth <u>6000</u> Rotating Hrs. this report = <u>4</u> Cumulative rotating hours = <u>61 1/2</u>			
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	
50	8 1/2	Smith BB8358	F-4	3-16	N	9027	9095	68'	4 1/2	15.1				INC
6 ^{CH} 6 ^{RE}	8 1/2	N.C. 011878	SC226	-	RR	9095	9098'	3	2 1/2	1.2				

BHA Length: 1019.64 Ft., Consist of: 8 1/2" BIT-N.B.^(RR) - N.B.^(RR) - Lead Collar - STAB^{RR}
Monel-STAB^(RR) - 2x6 1/4" DC-STAB^{RR} - 7x6 1/4" DC
Jars (NL) - 3x6 1/4" DC - 19x5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 255,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas units at Ft. Avg. background gas <u>CO2</u> <u>300ppm</u> units
	°	'		
9002	2°	45'	S-14-E	Coordinates: M.D. TVD Present operations: <u>R.I.H. w/ BIT #50RE</u>

HOURS	Operations last 24 Hours:
1/2	6-6:30 Drill F/9064 to 9070 (Lost 50% Returns @ 9070).

Daily Cost: \$	1	6:30-7:30 Mix & Spot LCM pill @ 9070'
Cumulative Cost: \$	1/2	7:30-8:00 P.O.H. T/8120'
	2	8:00-10 WAIT ON LCM Pill & Cond mud
Daily Mud Cost: \$ <u>10,606⁷⁶</u>	1/2	10-10:30 R.I.H. T/9070'
Cum. Mud Cost: \$ <u>228,901⁴¹</u>	1/2	10:30-11 Pump LCM Pill @ 9070'
	1	11-12 Drill F/9070' to 9095'
MUD & CHEMICALS USED	1	12-1 Circ @ Survey @ 9002
Sack Barite:	1/2	1-1:30 Spot LCM Pill @ 9095'
Bulk Barite:	1/2	1:30-7 P.O.H. 40 Monel-STabs - Lead Collar - P/U
Gel: <u>Reatac</u> <u>71</u>		Core Bbl & R.I.H. T/shoe
Caustic Soda:	1 1/2	7-8:30 Circ @ Shoe
Lignite:	1	8:30-9:30 R.I.H. T/9095'
<u>Thermgel</u> <u>227</u>	2 1/2	9:30-12 Core F/9095' to 9098' (Jammed) *30
<u>Nash</u> <u>5</u>	6	12-6 P.O.H. See Core Bbl (100% Rec) - 40 Core Bbl
<u>T-Lube</u> <u>2</u>		M/U BIT #50 ^{RR} & B.H.A. - R.I.H. @ 6:00 AM
<u>C.S.H.</u> <u>40</u>		
<u>Pellets</u> <u>20</u>		Loosing 70 Bbl/hr.
<u>Kwik Seal</u> <u>45</u>		
<u>Cedar Fiber</u> <u>15</u>		9040-9090 40-80% C ₄ S ₂ TN 10-20% S ₁ T ₃ TN 10-50% S ₄ T ₂ TN
<u>Sawdust</u> <u>20</u>		
		Temp @ 9090 IN = 87°F OUT = 117°F

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>8.4</u> lb/gal. Vis. <u>26</u> Sec. - PV - YP W.L. <u>N/C</u> cc/30 Sand <u>Nil</u> % pH. <u>10.2</u> Ca+ <u>72</u> PPM W.C. <u>1/8</u> /32" CL <u>380</u> PPM Oil <u>Nil</u> % Solids <u>Nil</u> % - lb/B* Temp. - °F, Gels = - <u>1</u> - ALK. (PI) = <u>.04</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.				RATES Penetration - ft/hr Bit Weight <u>5110</u> M.lbs Rotary RPM <u>80</u> Pump psi <u>1100</u> Pump SPM <u>35</u> Pump liners <u>7" X 16"</u> Pump output = <u>303</u> GPM Ann. Vel. = <u>157-216</u> ft/min. Hours Running _____ Centrifuge = _____ Reduced Pump Rate: _____ SPM = _____ psi				Well <u>STATE 2-14</u> No. days this well _____ Date <u>2-8-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>9098'</u> Yesterday's depth <u>9098'</u> Drilled _____ ft. in _____ hrs. Last casing <u>9 5/8</u> " Depth <u>6000</u> Rotating Hrs. this report = <u>1/2</u> Cumulative rotating hours = _____			
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	
<u>50^{ER}</u>	<u>8 1/2</u>	<u>Smith BB8358</u>	<u>F-4</u>	<u>3-16</u>	<u>N</u>	<u>9098</u>	<u>⊖</u>	<u>⊖</u>				<u>1</u>	<u>NC</u>	

BHA Length: 1019.64 Ft., Consist of: 8 1/2" BIT-NB.^{ER} - N.B.^{ER} - Lead Collar - STAB^{ER} - Manel - STAB^{ER} - 2 X 6 1/4" DC - STAB^{ER} - 7 X 6 1/4" DC - JARS (NW) - 3 X 6 1/4" DC - 19 X 5" HW.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 254,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas units at Ft. Avg. background gas units
	o			
				Connection gas: Max. units at mud wt. lb./Gal.
				Coordinates: M.D. TVD
				Present operations: <u>S/O CMT</u>
				HOURS Operations last 24 Hours:
				<u>1/2 6-6:30 R.I.H. T/Shoe</u>
				<u>1/2 6:30-7 Break Circ @ Shoe w/ full RETURNS</u>

Daily Cost: \$ <u>18.8²⁻⁷⁸⁶</u>	<u>1</u>	<u>7-8</u>	<u>R.I.H. T/ 9098'</u>
Cumulative Cost: \$ 18.8	<u>2</u>	<u>8-10</u>	<u>No RETURNS @ 9098' - mix LCM pill & SPAT</u>
Daily Mud Cost: \$ <u>5,215⁶⁰</u>	<u>1/2</u>	<u>10-10:30</u>	<u>P.O.H. T/ 8338'</u>
Cum. Mud Cost: \$ <u>234,117⁰¹</u>	<u>3</u>	<u>10:30-1:30</u>	<u>WAIT ON LCM - mix mud - mix LCM Pill</u>
	<u>1/2</u>	<u>1:30-2</u>	<u>R.I.H. T/ 9098' - No RETURNS</u>

MUD & CHEMICALS USED			
Sack Barite:			w/ 50 SX Portland CMT + 3% Gel + .65% Retard
Bulk Barite:			+ Kwik Seal + CSH + Sawdust + Pellets - Displace
Gel: <u>Profo</u>	<u>69</u>		w/ 77# STKS - C.I.P. @ 2:40 PM
Caustic Soda:	<u>1</u>	<u>3-4</u>	<u>P.O.H. T/ Shoe</u>
Lignite:	<u>5</u>	<u>4-9</u>	<u>W.O.C @ Shoe</u>
Therm gel	<u>325</u>	<u>1</u>	<u>9-10 Squeeze Cement Plug w/ 10 Bbls mud @ 85pm</u>
Naoh	<u>3</u>		<u>400psi</u>
CSH	<u>18</u>	<u>8</u>	<u>10-6 R.I.H. T/Shoe No Circ - P.O.H. 5 STDs @ A</u>
Pellets	<u>10</u>		<u>Time-Try Circ - NO CIRC. - @ 5048 ROPAIN</u>
Kwik Seal	<u>25</u>		<u>Circ - R.I.H. T/Shoe - w/ CIRC LAST RETURNS</u>
Sawdust	<u>25</u>		<u>P.O.H. T/ 6500 - 70% RETURNS - STAGE IN HOLE</u>
Therm Vis	<u>30</u>		<u>S/O CMT F/ 8700' TO 8800' @ 6:00 AM</u>
			<u>Temp @ 9098' IN = 62°F OUT = 83°F</u>
			<u>Losses @ 6:00 AM 150 Bbl/hr.</u>

H.T. - H.P. W/L: -----

Field: SALTON SEA

MUD Wt. <u>8.7</u> lb/gal. Vis. <u>36</u> Sec. <u>3</u> PV <u>8</u> YP W.L. <u>144</u> cc/30 Sand <u>7/8</u> % pH. <u>10.5</u> Ca+ <u>96</u> PPM W.C. <u>3/16</u> /32" CL <u>400</u> PPM Oil <u>NIL</u> % Solids <u>3</u> % - lb/B* Temp. <u>100</u> °F, Gels = <u>6</u> <u>18</u> ALK. (Pf) = <u>.08</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>19</u> ft/hr Bit Weight <u>30/35</u> M.lbs Rotary RPM <u>70</u> Pump psi <u>900</u> Pump SPM <u>40</u> Pump liners <u>7" x 16"</u> Pump output = <u>346</u> GPM Ann. Vel. = <u>179-247</u> ft/min. Hours Running Centrifuge = <u>0</u> Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>2-9-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>9248</u> Yesterday's depth <u>9098</u> Drilled <u>150</u> ft. in <u>9 1/2</u> hrs. Last casing <u>9 5/8</u> " Depth <u>6000</u> Rotating Hrs. this report = <u>9 1/2</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>50</u>	<u>8 1/2</u>	<u>Smith BBR358</u>	<u>F-4</u>	<u>3-16</u>	<u>N</u>	<u>9098</u>	<u>9248</u>	<u>150</u>	<u>9 1/2</u>	<u>15.7</u>	<u>8</u>	<u>7</u>	<u>0/8</u>
<u>6^{CH}</u>	<u>8 1/2</u>	<u>N.C. 011878</u>	<u>SC226</u>	<u>-</u>	<u>RR</u>	<u>9248</u>	<u>-</u>	<u>0</u>	<u>0</u>				

BHA Length: 999.78 Ft., Consist of: 8 1/2" Bit-Core Bbl - (X) - FIDAT Sub - 2x6 1/4" DC
STAB^{RR} - 7x6 1/4" DC - JAR(NL) - 3x6 1/4" DC - (X)
19x5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 255,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas units at Ft. Avg. background gas <u>102</u> <u>300 PPM</u> units Connection gas: Max. units at mud wt. <u>8.7</u> lb./Gal. Coordinates: M.D. TVD Present operations: <u>Dis. Place Diesel - N.I.O. w/ STUCK PIPE</u>
	o		
<u>9198</u>	<u>4°</u>	<u>S-27-E</u>	

HOURS	Operations last 24 Hours:
<u>1</u>	<u>6-7 C/O Cmt. To 9098 + Circ.</u>
<u>9 1/2</u>	<u>7-4:30 Drill F/9098 To 9248'</u>
<u>1/2</u>	<u>4:30-5 Survey @ 9198'</u>
<u>6</u>	<u>5-11 P.O.H. 410 Manel-STabs-L.C. - P/U Core Bbl</u> <u>+ R.I.H. T/Shoc</u>
<u>1/2</u>	<u>11-11:30 Break Circ @ Shoc w/ Full Returns</u>
<u>1</u>	<u>11:30-12:30 R.I.H. T/ 9248'</u>
<u>5 1/2</u>	<u>12:30-6 Break Circ @ 9248' STUCK PIPE @ 9248'</u> <u>WORK STUCK PIPE + WAIT ON DIESEL OIL</u> <u>@ 6:00 AM</u>

MUD & CHEMICALS USED		
Sack Barite:		
Bulk Barite:		
Gel: <u>Proso</u>	<u>53</u>	<u>Mud Losses 60-70 Bbl/hr.</u>
Caustic Soda:		<u>Temp @ 9248 IN = 127°F OUT = 140°F</u>
Lignite:		
<u>Thermgel</u>	<u>252</u>	<u>9090-9110 80-90% CH₄STN 10% SIT₃STN 0-10% Sds₃STN</u>
<u>Nash</u>	<u>6</u>	<u>9110-9150 30-40% 10% 60-80%</u>
<u>Caoh</u>	<u>1</u>	<u>9150-9240 50-100% 10% 0-40%</u>
<u>ThermLube</u>	<u>2</u>	
<u>CSH</u>	<u>2</u>	
<u>Pellets</u>	<u>3</u>	
<u>Kwik Seal</u>	<u>20</u>	
<u>Cedar Fiber</u>	<u>48</u>	
<u>NUT Hulls</u>	<u>30</u>	
<u>Mica C</u>	<u>29</u>	
<u>Therm Vis</u>	<u>4</u>	

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>8.7</u> lb/gal. Vis. <u>31</u> Sec. <u>3</u> PV <u>12</u> YP W.L. <u>106</u> cc/30 Sand <u>18</u> % pH. <u>9.2</u> Ca+ <u>2180</u> PPM W.C. <u>3/8</u> /32" CL <u>12,800</u> PPM Oil <u>7</u> % Solids <u>3</u> % <u>14</u> lb/B* Temp. <u>110</u> °F, Gels = <u>6</u> <u>18</u> ALK. (Pt) = <u>.13</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>70</u> ft/hr Bit Weight <u>30/35</u> M.lbs Rotary RPM <u>50/60</u> Pump psi <u>1100</u> Pump SPM <u>38</u> Pump liners <u>7" X 16"</u> Pump output = <u>328</u> GPM Ann. Vel. = <u>170-234</u> ft/min. Hours Running Centrifuge = <u>12</u> Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>2-10-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>9348</u> Yesterday's depth <u>9248</u> Drilled <u>100</u> ft. in <u>10 1/2</u> hrs. Last casing <u>9 5/8</u> " Depth <u>6000</u> Rotating Hrs. this report = <u>10 1/2</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>6^{en}</u>	<u>8 1/2</u>	<u>N.C. 0111878</u>	<u>SC 226</u>	<u>TFA.45</u>	<u>RE</u>	<u>9248</u>	<u>9254</u>	<u>6</u>	<u>4</u>	<u>1.5</u>	<u>STARTING TO RING OUT</u>		
<u>51</u>	<u>8 1/2</u>	<u>Varel 22239</u>	<u>V-527</u>	<u>3-15</u>	<u>N</u>	<u>9254</u>	<u>9348</u>	<u>94</u>	<u>6 1/2</u>	<u>14.4</u>	<u>1 NC</u>		

BHA Length: 1279.71 Ft., Consist of: 8 1/2" BIT^(N) - NB^(RR) - NB^(RR) - Lead Collar - STAB^(RR) - MANE1 - STAB^(RR) - 2X6 1/4" DC - STAB^(RR) - 3X6 1/4" DC - STAB^(RR) - 1X6 1/4" DC JAR(DOT) - 6X6 1/4" DC - 27X5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 260,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	CO ₂ <u>72,000 ppm</u> MAX Trip gas _____ units at _____ Ft. Avg. background gas <u>CO₂ 300 ppm</u> units
	o		

HOURS	Operations last 24 Hours:
<u>1/2</u>	<u>6-6:30 Spotting Diesel w/N10 pipe Came Free</u>
<u>1/2</u>	<u>6:30-7 Circ @ 9248'</u>
<u>4</u>	<u>7-11 Core #31 F/9248' To 9254' (Jammed)</u>
<u>1 1/2</u>	<u>11-12:30 P.O.H. (well started Flowing)</u>
<u>1/2</u>	<u>12:30-1 Circ T/cool well @ shoe</u>
<u>1/2</u>	<u>1-1:30 P.O.H. (well started Flowing)</u>
<u>1/2</u>	<u>1:30-2 Circ (Kill well with 9.0 ppg Slug)</u>
<u>6</u>	<u>2-8 P.O.H. - See Core Bhl. (58% Recovery) - L/D Core Bhl. - m/u BIT #51 + B.H.A. - 4/D Jars + P/M Daily Jars - BIT H.W. - R.I.H. T/Shoe</u>
<u>1</u>	<u>8-9 Circ @ shoe</u>
<u>2 1/2</u>	<u>9-11:30 CONT. R.I.H. (slow) To 9254'</u>
<u>6 1/2</u>	<u>11:30-6 Drill F/9254' To 9348' @ 6:00 AM</u>

MUD & CHEMICALS USED		
Sack Barite:	<u>32</u>	
Bulk Barite:	<u>1</u>	
Gel: <u>Pecca</u>	<u>2</u>	
Caustic Soda:	<u>6 1/2</u>	
Lignite:		
<u>Thecmgel</u>	<u>4</u>	<u>Mud Losses = 30-40 Bbl/hr.</u>
<u>Welpac</u>	<u>12</u>	<u>Temp @ 9348' IN = 125°F OUT = 164°F</u>
<u>Naoh</u>	<u>3</u>	
<u>Caoh</u>	<u>1</u>	<u>9240-9250 90% Cysta 10% SITSa 0% sdSTa</u>
<u>AL-STEAR</u>	<u>1</u>	<u>9250-9320 0-50% 0-20% 40-90%</u>
<u>N10</u>	<u>11</u>	
		<u>@ 9254' 400 Bbl/9ain @ 202°F</u>
		<u>Trip Gas = CO₂ 72,000 ppm</u>

H.T. - H.P. W/L: _____

Field: Sutton Sea

MUD				RATES				Well <u>State</u> <u>2-14</u>			
Wt. <u>86</u> lb/gal.	Penetration <u>11</u> ft/hr	No. days this well <u>2-11-86</u>									
Vis. <u>47</u> Sec. <u>2</u> PV <u>3</u> YP	Bit Weight <u>30/35</u> M.lbs	Date <u>2-11-86</u>									
W.L. <u>100</u> cc/30 Sand <u>75</u> %	Rotary RPM <u>50/600</u>	Operator <u>Bichter</u>									
pH. <u>9.2</u> Ca+ <u>212</u> PPM	Pump psi <u>200</u>	Contractor <u>Chandos #6</u>									
W.C. <u>2/32" CL</u> <u>2000</u> PPM	Pump SPM <u>53</u>	Today's depth <u>9453</u>									
Oil <u>75</u> % Solids <u>1</u> % lb/B*	Pump liners <u>6x16</u>	Yesterday's depth <u>9348</u>									
Temp. <u>100</u> °F, Gels = <u>0.0</u>	Pump output = <u>334</u> GPM	Drilled <u>105</u> ft. in <u>12</u> hrs.									
ALK. (Pf) = <u>.04</u>	Ann. Vel. = <u>173-238</u> ft./min.	Last casing <u>9 1/2</u> " Depth <u>6000'</u>									
K-ion = _____ PPM	Hours Running	Rotating Hrs. this report = <u>12</u>									
Nation = _____ PPM	Centrifuge = <u>8</u>	Cumulative rotating hours = _____									
At Depth = _____ Ft.	Reduced Pump Rate: _____ SPM = _____ psi										

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
51	8 1/2	Danl 22239	V527	3-15	N	9454	9450	196	17 3/4	11	2	6	3/8
52	8 3/4	Danl 5525	V527	-	N	9450	9453	3	1/4	6			

BHA Length: 1286.21 Ft., Consist of: 8 1/2" Bit (N) + Junk sub + N.B. + UB + lead
Collar + Stab + Drill + Stab + 2-6 1/2" APC's + Stab + 3-6 1/2" APC's +
Stab + 1-6 1/2" APC + Jam (O.R.T.) + 6-6 1/2" APC's + Xover + 27 9/16" Annular

BHA Wt. In Mud: _____ Lb.

Total String Wt.: 265,000 Lb. Drilling Supervisor: Ray Engstrom

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>300</u> P.P.M units
	0			
9400	2°	45°	S 42° E	Coordinates: _____ M.D. _____ TVD _____
Present operations: <u>Tripping</u>				

HOURS	Operations last 24 Hours:
11 1/2	Drill
1	Circ. + Survey

Daily Cost: \$	1 1/2	P.O.H. To shoe (30,000 o.p. Hole flowing)
Cumulative Cost: \$	3 1/4	Mix + spot P.H.
	3	P.O.H.
Daily Mud Cost: \$	6042 3/4	1/4 Slip Along Line
Cum. Mud Cost: \$	25420 3/4	2 1/2 P.O.H. To shoe
	1/2	Break Circ.

MUD & CHEMICALS USED			
Sack Barite:	29	1/2	Ream 9420-9450 Foot Circ
Bulk Barite:		1/2	Drill To 9453
Gel:	108	1	Mix + spot P.C.M.
Caustic Soda:	9		
Low Dust Logite:	6		Buttons Bottom on Bit #51 + out of Loge 3/8"
ProfCo Gel	21		from Bit + Junk sub to recover Buttons
Thermited-3	9		+ Ream hole To 8 1/2" Prior To casing
Wellpac	2		Temp @ 9450 120° in 160' out.
Pro Temp	3		
Kid - A	2		9320 - 9340 10-30% clayst 10% Silts 70-90% Sandst
Alu. St.	1		9340 - 9360 60-70% " 10% " 30% "
Anti foam	4		9360 - 9370 10% " 20% " 70% "
Therm. Lub	7		9370 - 9410 40-80% " 10% " 20-60% "
Soda Ash	6		9410 - 9440 90% " 10% "
Cotton Hubs	2		9440 - 9450 50% " 50% Deterensive Rock
Pillit	8		(Diabase Rock)
nut Pills	8		

H.T. - H.P. W/L: _____

Field: Salton Sea

MUD Wt. <u>8.6</u> lb/gal. Vis. <u>30</u> Sec. <u>4</u> PV <u>9</u> YP W.L. <u>113</u> cc/30 Sand <u>2</u> % pH. <u>11.0</u> Ca+ <u>200</u> PPM W.C. <u>3/16</u> 1/32" CL <u>2500</u> PPM Oil <u>52</u> % Solids <u>4</u> % lb/B° Temp. <u>104</u> °F, Gels = <u>2.16</u> ALK. (Pf) = <u>.25</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>NA.</u> ft/hr Bit Weight _____ M.lbs Rotary RPM _____ Pump psi <u>500</u> Pump SPM <u>53</u> Pump liners <u>6-16</u> Pump output = <u>334</u> GPM Ann. Vel. = <u>173-239</u> ft/min. Hours Running _____ Centrifuge = _____ Reduced Pump Rate: _____ SPM = _____ psi		Well <u>State 2-14</u> No. days this well _____ Date <u>2-12-86</u> Operator <u>Richly</u> Contractor <u>Cleveland #6</u> Today's depth <u>9453</u> Yesterday's depth <u>9453</u> Drilled <u>-0-</u> ft. in _____ hrs. Last casing <u>9 1/2</u> " " Depth <u>6000</u> Rotating Hrs. this report = _____ Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	
<u>52</u>	<u>8 1/2</u>	<u>Orbit 5525 1527</u>												

BHA Length: 1279.71 Ft., consist of: 8 1/2" Bit + N.B.S + N.B.S + Lead Collar + (NA) Stab. + 6 1/2" Annul. + Stab. + 2-6 1/2" D.C.'s + Stab. + 3-6 1/2" D.C.'s + Stab. + 1-6 1/2" D.C. + (Jars) (D.O.T.) + 6-6 1/2" D.C.'s + x over + 27 lbs. 5" D.C. D.P.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: Ray Ferguson

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units
	o		Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
			Coordinates: _____ M.D. _____ TVD _____
			Present operations: _____

HOURS	Operations last 24 Hours:
<u>1</u>	<u>P.O.H. to shoe</u>
<u>1/2</u>	<u>Circulate @ shoe (Lost Returns)</u>
<u>1 1/2</u>	<u>P.O.H.</u>
<u>1/2</u>	<u>Service junk sub.</u>
<u>2 1/2</u>	<u>P.O.H.</u>
<u>1 1/2</u>	<u>Circ. @ shoe. (Well began to flow)</u>
<u>2</u>	<u>P.O.H.</u>
<u>1/2</u>	<u>Break Circ. (Lost Returns)</u>
<u>1 1/2</u>	<u>Pull 2 Stds. (Mix + Spot Cement Pill)</u>
<u>1</u>	<u>Pull to shoe</u>
<u>5</u>	<u>D.C.C.</u>
<u>1/2</u>	<u>Pill Annulus + Circ.</u>
	<u>Close B.O.P. Pressured up to 200 PSI.</u>
	<u>Raising mud. Pressure. Logged B-O-</u>
<u>2 1/2</u>	<u>D.C.C.</u>
<u>1/2</u>	<u>Close B.O.P. (Pumped into formation w/o Pressure)</u>
<u>1</u>	<u>P.O.H. To 8500'</u>
<u>1</u>	<u>Circulate w/ full returns</u>
<u>3/4</u>	<u>P.O.H. To 9300'</u>
<u>1/4</u>	<u>Circ. w/ full returns.</u>

Daily Cost: \$ _____	
Cumulative Cost: \$ _____	
Daily Mud Cost: \$ <u>3819.58</u>	
Cum. Mud Cost: \$ <u>208,024.50</u>	

MUD & CHEMICALS USED			
Sack Barite:			
Bulk Barite:			
Gel: <u>Thermo</u>	<u>200</u> °	<u>1/2</u>	<u>Pill Annulus + Circ.</u>
Caustic Soda:	<u>1</u>		<u>Close B.O.P. Pressured up to 200 PSI.</u>
Lignite:			<u>Raising mud. Pressure. Logged B-O-</u>
Profco Gel	<u>39</u>	<u>2 1/2</u>	<u>D.C.C.</u>
Hulls	<u>10</u>	<u>1/2</u>	<u>Close B.O.P. (Pumped into formation w/o Pressure)</u>
Pellets	<u>25</u>	<u>1</u>	<u>P.O.H. To 8500'</u>
Quick Seal	<u>25</u>	<u>1</u>	<u>Circulate w/ full returns</u>
Cedar	<u>15</u>	<u>3/4</u>	<u>P.O.H. To 9300'</u>
SawDust	<u>30</u>	<u>1/4</u>	<u>Circ. w/ full returns.</u>
Seal EZ	<u>1</u>		

@ 9400' T.V.D. 9377.47' S. 51.58' E 166.04'
 Closure 173.87' S. 72.45' E.

H.T. - H.P. W/L: _____

Field: Salton Sea

MUD Wt. <u>8.5</u> lb/gal. Vis. <u>32</u> Sec. <u>6</u> PV <u>4</u> YP % W.L. <u>137</u> cc/30 Sand <u>4</u> % pH. <u>9.4</u> Ca+ <u>1200</u> PPM W.C. <u>4</u> 1/32" CL- <u>2000</u> PPM Oil <u>Fr</u> % Solids <u>2</u> % lb/B° Temp. <u>120</u> °F, Gels = <u>418</u> ALK. (Pf) = <u>120-150</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>1 1/2</u> ft/hr Bit Weight <u>20</u> M.lbs Rotary RPM <u>40-50</u> Pump psi <u>500</u> Pump SPM <u>35</u> Pump liners <u>6" 14"</u> Pump output = <u>303</u> GPM Ann. Vel. = <u>150-206</u> ft/min. Hours Running _____ Centrifuge = _____ Reduced Pump Rate: _____ SPM = _____ psi		Well <u>State 2-14</u> No. days this well _____ Date <u>2-13-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland #6</u> Today's depth <u>9458</u> Yesterday's depth <u>9453</u> Drilled _____ ft. in <u>6 1/2</u> hrs. Last casing <u>9 1/2</u> " Depth <u>6000</u> Rotating Hrs. this report = _____ Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
6	8 1/2	MC 011878	SC26	-	RR	9453	9458	5	3 1/2	1.5	-	-	-
7	8 1/2	MC 0312868	SC26	-	NEW								

BHA Length: 1259.95 Ft., Consist of: 8 1/2" Bit + Core BBL. + x over + Float sub + 2-6 1/2" M.C.'s + Std. + 3-6 1/2" M.C.'s + Std. + 4-6 1/2" M.C.'s + Jars + 3-6 1/2" M.C.'s + x over + 27 lbs. N. B.C.M.P.

BHA Wt. In Mud: 260,000 Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: Ray Ferguson

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units
	o			
Coordinates: _____ M.D. _____ TVD _____				Present operations: <u>P.O.H.</u>

HOURS	Operations last 24 Hours:
1/2	P.O.H. To 9360
1/2	Beam 9360 - 9453

Daily Cost: \$ _____	3 1/2	Circ. + Condition mud. (Build Volume)
Cumulative Cost: \$ _____	3	P.O.H.
Daily Mud Cost: \$ <u>4580.88</u>	2 1/2	Change B.H.A.
Cum. Mud Cost: \$ <u>260,600.68</u>	2 1/2	P.O.H. To Shoe
	1/2	Deal Circ. @ Shoe
	1	P.O.H. To 9340'

MUD & CHEMICALS USED			
Sack Barite:		3 1/2	cut core #32 from 9453 to 9458
Bulk Barite:		3 1/2	P.O.H.
Gel: Prof. 33		1/2	Service Core BBL (Rec. 2.4')
Caustic Soda:		1 1/2	Change core bits + Re In H.
Lignite:			
Gel	175		
Therm Tral	6		
well Pse	7		
Caustic	11		Round Replm. line on ft. of 6" B.P.
Lime	3		10th. stand above. N. B.C.M.P.
Soda Ash	6		
Quick Set	15		Hole Tool 30-80 BBLs Run thru while Casing
Cedar F.	20		
Sawdust	15		

Corrections being report on 2-11-86 mud report.

H.T. - H.P. W/L: _____

Field: Salton Sea

MUD Wt. <u>8.5</u> lb/gal. Vis. <u>29</u> Sec. <u>3</u> PV <u>3</u> YP W.L. <u>62</u> cc/30 Sand <u>Tr</u> % pH. <u>10.1</u> Ca+ <u>608</u> PPM W.C. <u>35</u> /32" CL <u>5000</u> PPM Oil <u>2</u> % Solids <u>2</u> % lb/B* Temp. <u>100</u> °F, Gels = <u>1</u> ALK. (Pf) = <u>-06</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>6</u> ft/hr Bit Weight <u>15-20</u> M.lbs Rotary RPM <u>40</u> Pump psi <u>600 ±</u> Pump SPM <u>32</u> Pump liners <u>6816</u> " Pump output = <u>303</u> GPM Ann. Vel. = _____ ft/min. Hours Running _____ Centrifuge = _____ Reduced Pump Rate: _____ SPM = _____ psi		Well <u>State 2-14</u> No. days this well _____ Date <u>2-14-86</u> Operator <u>Bechtel</u> Contractor <u>C. Langlands 6</u> Today's depth <u>9473</u> Yesterday's depth <u>9458</u> Drilled <u>15</u> ft. in <u>2 1/2</u> hrs. Last casing <u>9 1/2</u> " " Depth <u>6000</u> " Rotating Hrs. this report = _____ Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	
<u>7</u>	<u>8 1/2</u>	<u>MC 0312 868</u>	<u>SG226</u>	<u>-</u>	<u>New</u>	<u>9458</u>	<u>9473</u>	<u>15</u>	<u>2 1/2</u>	<u>6</u>	<u>Primed</u>			
<u>53</u>	<u>8 1/2</u>	<u>Geo. 115348</u>	<u>S86F</u>											

BHA Length: 1259.95 Ft., Consist of: 8 1/2" Bit + Conn. BBL. + x over + float. sub + 2-6 1/2" D.C. + Stab. + 3-6 1/2" D.C. + Stab. + 4-6 1/2" D.C. + Jaws + 3-6 1/2" D.C. + x over + 27 lbs. H.W.D.P.

BHA Wt. In Mud: 260,000 Lb.

Total String Wt.: _____ Lb. Drilling Supervisor: Ray Ferguson

DEPTH	DEV.	DIRECTION	Trip gas		Connection gas		Coordinates		Present operations
			units at	Ft.	Max.	units at	M.D.	TVD	

HOURS	Operations last 24 Hours:
<u>2</u>	<u>P.O.H. to shoe</u>
<u>1</u>	<u>Mix + Pump L.C. Dr. Pills</u>
<u>1/2</u>	<u>Spud Pill</u>
<u>1/2</u>	<u>Circulate w/ full returns</u>
<u>1/2</u>	<u>P.O.H.</u>
<u>1/2</u>	<u>Circulate full returns</u>
<u>2 1/2</u>	<u>Cut Core # 33 (9458-9473)</u>
<u>4</u>	<u>P.O.H.</u>

MUD & CHEMICALS USED	
Sack Barite:	<u>11</u> <u>Magna Slow B.H.A. + Sealer C.M.P.</u>
Bulk Barite:	
Gel:	<u>Profo</u> <u>4</u>
Caustic Soda:	<u>2</u>
Lignite:	
Thermo Gel:	<u>42</u>
Well Pac:	<u>2</u>
<u>Coord. To 9461' Log full returns</u> <u>Coord. w/ no returns from 9461-9473'</u> <u>using H₂O @ 300 S.P.M.</u> <u>Laid Down 28 lbs Bent Pipe Sealer C^o</u> <u>Picked up 28 lbs Impacted Pipe Sealer C^o</u>	
<u>5000 Sal. Diab</u>	

H.T. - H.P. W/L: _____

Field: Saltom Sea

MUD Wt. <u>8.7</u> lb/gal. Vis. <u>29</u> Sec. <u>7</u> PV <u>7</u> YP W.L. <u>N.C.</u> cc/30 Sand <u>75</u> % PH. <u>8.8</u> Ca+ <u>680</u> PPM W.C. <u>1 1/32"</u> CL <u>1000</u> PPM Oil <u>75</u> % Solids <u>3</u> % lb/B° Temp. _____ °F, Gels = <u>2.14</u> ALK. (Pf) = <u>.02</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration _____ ft/hr Bit Weight _____ M.lbs Rotary RPM _____ Pump psi _____ Pump SPM _____ Pump liners _____ Pump output = _____ GPM Ann. Vel. = _____ ft/min. Hours Running _____ Centrifuge = _____ Reduced Pump Rate = _____ SPM = _____ psi		Well <u>State 2-14</u> No. days this well _____ Date <u>2-16-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland #1</u> Today's depth <u>9473</u> Yesterday's depth <u>9473</u> Drilled _____ ft. in _____ hrs. Last casing <u>9 5/8</u> " Depth <u>6000</u> Rotating Hrs. this report = _____ Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	
53	8 1/2	Sec. 115078	886F	-	NEW									

BHA Length: 1247.66 Ft., Consist of: 8 1/2" Bit + N.B.S. + N.B.S. + Lead Collar + Std. + x + 2-6 1/2" M.C.'s + Std. + 3-6 1/2" M.C.'s + Std. + 4-6 1/2" M.C.'s + 3-6 1/2" M.C.'s + x + 27 fls 5" H.D.M.P.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: Ray Ferguson

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units
			Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
			Coordinates: _____ M.D. _____ TVD _____
			Present operations: _____

HOURS	Operations last 24 Hours:
3 3/4	<u>P.O.D.</u>
1/4	<u>Pick up to run Temperature survey</u>

Daily Cost: \$ _____	8	<u>Run spinner (malfunctioned)</u>
Cumulative Cost: \$ _____	2	<u>Run loggers (well flowing)</u>
Daily Mud Cost: \$ <u>2248.92</u>	1 1/2	<u>Drilled 300 Bbls. Mud to fill well</u>
Cum. Mud Cost: \$ <u>24809.72</u>	1/2	<u>Change P.O.D. (well flowing)</u>
	3	<u>Wipe Kill mud + Pump</u>

MUD & CHEMICALS USED	1	<u>Wipe mud</u>
Sack Barite:	2	<u>P.O.D. to shoe</u>
Bulk Barite:	1 1/2	<u>Wipe P.O.D. - cement fill</u>
Gel: <u>Prot</u>		
Caustic Soda:		
Lignite:		

Therm Gel 74
Over Seal 1
Spinner malfunction due to excess P.O.D. in mud.

H.T. - H.P. W/L: _____

Field: Saltom Sea

MUD Wt. <u>8.7</u> lb/gal. Vis. <u>313</u> Sec. <u>5</u> PV <u>7</u> YP W.L. <u>N.C.</u> cc/30 Sand <u>17</u> % pH. <u>11.3</u> Ca+ <u>184</u> PPM W.C. <u>1 1/32"</u> CL <u>2600</u> PPM Oil <u>17</u> % Solids <u>3</u> % lb/B° Temp. _____ °F, Gels = <u>414</u> ALK. (Pf) = <u>46</u> K-ion = _____ PPM Nation = _____ PPM At Depth = _____ Ft.		RATES Penetration _____ ft/hr Bit Weight _____ M.lbs Rotary RPM _____ Pump psi _____ Pump SPM _____ Pump liners _____ Pump output = _____ GPM Ann. Vel. = _____ ft/min. Hours Running _____ Centrifuge = _____ Reduced Pump Rate: _____ SPM = _____ psi		Well <u>State 2-14</u> No. days this well _____ Date <u>2-17-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland #6</u> Today's depth _____ Yesterday's depth <u>9473</u> Drilled _____ ft. in _____ hrs. Last casing <u>9 5/8</u> " Depth <u>6000</u> Rotating Hrs. this report = _____ Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	
53	8 1/2	Sec	886F	-	New									

BHA Length: 948.51 Ft., Consist of: 8 1/2" Bit + Float sub + 3-6 1/2" P.C. + Stab + Jaws + x over + 27 ft. D.W.P.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: Ray Piquason

DEPTH	DEV.	DIRECTION	Trip gas		Connection gas		Coordinates	
			units at	units at	units at	units at	M.D.	TVD

Present operations: P.O.H. 250'

HOURS	Operations last 24 Hours:
1	R.O.H. To 9200
1	Fill pipe + Mix cement. 100 BBL
1	Spot 50 BBL plug @ 9200'
1	P.O.H. To 8500 + Spot 50 BBL plug
2	Pull To 7400' Mix + Spot 50 BBL plug
6	P.O.H. 5800' D.O.C.
2	R.O.H. To 8500 could spot Cico.
2 1/2	P.O.H. circ @ 4700'
2	P.O.H.
3	Change B.O.A.
2	R.O.H. To 5800'

MUD & CHEMICALS USED	
Sack Barite:	100
Bulk Barite:	
Gel:	Prot 28
Caustic Soda:	6
Lignite:	
Therm. Gel	158
Soda Ash	2
Cotton Seed	20
Pellets	10
Quick Seal	15
Fiber	10
Sawdust	25

filled pipe @ 5800'
Bit Plugged (Pulling out mat)

H.T. - H.P. W/L: _____

Field: Saltion Sea

MUD Wt. <u>8.7</u> lb/gal. Vis. <u>36</u> Sec. <u>7</u> PV <u>6</u> YP W.L. <u>20</u> cc/30 Sand <u>9</u> % pH. <u>8.8</u> Ca+ <u>2400</u> PPM W.C. <u>18/32"</u> CL- <u>2400</u> PPM Oil <u>4</u> % Solids <u>12</u> % lb/B* Temp. _____ °F, Gels = <u>6.6</u> ALK. (Pf) = <u>24</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration _____ ft/hr Bit Weight _____ M.lbs Rotary RPM _____ Pump psi _____ Pump SPM _____ Pump liners _____ Pump output = _____ GPM Ann. Vel. = _____ ft/min. Hours Running _____ Centrifuge = _____ Reduced Pump Rate: _____ SPM = _____ psi		Well <u>State 2-14</u> No. days this well _____ Date <u>2-18-86</u> Operator <u>Bettie</u> Contractor <u>Cleveland #6</u> Today's depth <u>947.3</u> Yesterday's depth <u>947.3</u> Drilled _____ ft. in _____ hrs. Last casing <u>9 1/2</u> " Depth <u>6000</u> ' Rotating Hrs. this report = _____ Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	
53	8 1/2	Sec 115-348	886F	-										

BHA Length: 948.51 Ft., Consist of: 8 1/2" Bit. + float sub + 3-6 1/2" B.C. + 2 1/2" + joint + xover + 27 jts. 5" A.S.D.P.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: Ray Ferguson

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units
	o	.		
				Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
				Coordinates: _____ M.D. _____ TVD _____
				Present operations: <u>R.O.H.</u>

HOURS	Operations last 24 Hours:
1/2	Kill Pipe @ 5800' (Pipe Plugged)
3 1/2	P.O.H. (Hard cement in float sub.)
4	P.O.H. Break Circ. @ 5000' - 6000' - 6400' - 6700' - 7100'
2	Circ. + condition mud (well flowing)
6	P.O.H. Break Circ. @ 7500' - 8400' - 8800' - (9360)
1 1/2	Beam 9360 - 947.3
1	Circ. Bottoms up.
5	P.O.H. Strip out

MUD & CHEMICALS USED	
Sack Barite:	
Bulk Barite:	100
Gel:	Therm 245
Caustic Soda:	3
Lignite:	
Well Pac	6
Alum. St	1
Hulls	32
Quick Seal	62
Sandust	2

When pulling plugged bit we swabbed in 300 Bbls. 119.3 # brine water

H.T. - H.P. W/L: _____

Field: SALTON SEA

Wt. <u>8.7</u> MUD lb/gal. Vis. <u>3.5</u> Sec. <u>8</u> PV <u>13</u> YP W.L. <u>125</u> cc/30 Sand <u>12</u> % pH. <u>10.0</u> Ca+ <u>2708</u> PPM W.C. <u>12</u> /32" CL- <u>18,000</u> PPM Oil <u>2</u> % Solids <u>8</u> % - lb/B* Temp. <u>100</u> °F, Gels = <u>4.16</u> ALK. (Pf) = <u>.10</u> K-ion = _____ PPM Na-ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>0</u> ft/hr Bit Weight _____ M.lbs Rotary RPM _____ Pump psi <u>500</u> Pump SPM <u>40</u> Pump liners <u>7" X 16</u> Pump output = <u>346</u> GPM Ann. Vel. = <u>179-247</u> ft/min. Hours Running _____ Centrifuge = _____ Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>2-19-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>9473'</u> Yesterday's depth <u>9473'</u> Drilled <u>0</u> ft. in <u>0</u> hrs. Last casing <u>9378</u> " Depth <u>6000'</u> Rotating Hrs. this report = _____ Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	
<u>53RD</u>	<u>8 1/2</u>	<u>Sec 115348</u>	<u>S-8-F</u>	<u>OUT</u>	<u>RR</u>									

BHA Length: _____ Ft., Consist of: _____

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units
	o			
				Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
				Coordinates: _____ M.D. _____ TVD _____
				Present operations: <u>R.I.H. w/ BIT #53 RR T/C.M.T. w/ H.W.S.D</u>

HOURS	Operations last 24 Hours:
<u>1 1/2</u>	<u>6-7:30 R.I.H. w/ CORE Bbl.</u>
<u>1/2</u>	<u>7:30-8 Slip D.L. 50'</u>
<u>1 1/2</u>	<u>8-9:30 CONT. R.I.H. T/shoe</u>
<u>7</u>	<u>9:30-4:30 Circ @ shoe Build Mud Volume.</u>
<u>1</u>	<u>4:30-5:30 CONT R.I.H. 9400'</u>
<u>1</u>	<u>5:30-6:30 Try Circ @ 9400' (No RETURNS)</u>
<u>2 1/2</u>	<u>6:30-9 STAGE OUT OF Hole TRYING TO REGAIN Circ @ 8495'-7560'-6619'-Shoe (No RETURNS)</u>

MUD & CHEMICALS USED	
Sack Barite:	<u>2 9-11 P.O.H. 4D Core Bbl.</u>
Bulk Barite:	<u>6 1/2 11-5:30 Rig up lubricator - 115.G.S. & Run Temp Survey - Stopped @ 6124' - P.O.H. & Rig Down</u>
Gel: <u>Profo</u>	<u>.38</u>
Caustic Soda:	
Lignite:	<u>1/2 5:30-6 m/u BIT #53 RR - H.W. @ 6:00 AM</u>
<u>Therengel</u>	<u>270</u>
<u>Welpac</u>	<u>6</u>
<u>Naoh</u>	<u>5</u>
<u>Soda Ash</u>	<u>2</u>

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>8.7</u> lb/gal. Vis. <u>40</u> Sec. <u>7</u> PV <u>19</u> YP W.L. <u>140</u> cc/30 Sand <u>1%</u> pH. <u>9.6</u> Ca+ <u>800</u> PPM W.C. <u>12</u> 132" CL- <u>7100</u> PPM Oil <u>TR</u> % Solids <u>8</u> % - lb/B° Temp. <u>120</u> °F, Gels = <u>10.1/12</u> ALK. (Pf) = <u>.07</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.				RATES Penetration _____ ft/hr Bit Weight _____ M.lbs Rotary RPM _____ Pump psi = <u>300</u> Pump SPM = <u>35</u> Pump liners <u>7" X 16"</u> Pump output = <u>303</u> GPM Ann. Vel. = <u>157-216</u> ft/min. Hours Running _____ Centrifuge = _____ Reduced Pump Rate = _____ SPM = _____ psi				Well <u>STATE 2-14</u> No. days this well _____ Date <u>2-20-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>9423'</u> Yesterday's depth <u>9423'</u> Drilled <u>0</u> ft. in <u>0</u> hrs. Last casing <u>9 5/8</u> " Depth <u>6000'</u> Rotating Hrs. this report = _____ Cumulative rotating hours = _____			
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLED.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	
<u>53RD</u>	<u>8 1/2</u>	<u>Sec 115348</u>	<u>S-86-F</u>	<u>OUT</u>	<u>RR</u>									

BHA Length: 818.08 Ft., Consist of: 8 1/2" BIT - BIT Sub - FLAT Sub - 27 X 5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Operations last 24 Hours:	
			HOURS	OPERATIONS
			Trip gas _____ units at _____ Ft. Avg. background gas _____ units Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal. Coordinates: _____ M.D. _____ TVD _____ Present operations: <u>CIRC. & W.D.C. @ Shoe</u>	
			<u>2 1/2</u>	<u>6-8:30 R.I.H. T/shoe</u>
			<u>1</u>	<u>8:30-9:30 CIRC @ Shoe (Full Returns)</u>
			<u>1/2</u>	<u>9:30-10 Cont. R.I.H. T/ 9230'</u>
Daily Cost: \$			<u>1</u>	<u>10-11 CIRC F/CMT @ 9230'</u>
Cumulative Cost: \$			<u>1</u>	<u>11-12 w/House - 35 Bbls - 136.5x 6" + 3% Gel + 2.32 HR 12</u>
Daily Mud Cost: \$ <u>1302³⁰</u>				<u>+ .65% CFR-2 - Dis w/ 851% At mud CIP @ 12:00</u>
Cum. Mud Cost: \$ <u>280,126⁶⁴</u>				<u>w/ Full Returns</u>
			<u>1 1/2</u>	<u>12-1:30 WORK STUCK pipe @ 9230' - Try CIRC OUT Cmt. Lost</u>
MUD & CHEMICALS USED				<u>Returns - Squeezed away Cmt. - Pipe Came Free</u>
Sack Barite:				<u>P.O.H. 10 Stds & R.I.H. T/ 9230'</u>
Bulk Barite:			<u>1 1/2</u>	<u>1:30-3 Recmt @ 9230' (Same as above)</u>
Gel: <u>Profo</u> <u>15</u>			<u>2 1/2</u>	<u>3-5:30 P.O.H. T/ 8000' & W.D.C. - Squeezed Cmt @ 10.5 SPM</u>
Caustic Soda:				<u>10 Bbl. @ 200psi.</u>
Lignite:			<u>2</u>	<u>5:30-7:30 R.I.H. T/ 8750' Cmt. (Same as above) - P.O.H.</u>
<u>Thromgel</u> <u>100</u>				<u>T/ 8293' - Cmt. (Same as above) - P.O.H.</u>
<u>Welpac</u> <u>3</u>				<u>T/ 7359'</u>
<u>Naoh</u> <u>4</u>			<u>4 1/2</u>	<u>7:30-12 W.D.C. - Squeezed Cmt 10.5 SPM - 10 Bbl. @ 200psi.</u>
<u>Soda Ash</u> <u>5</u>			<u>1</u>	<u>12-1 R.I.H. Tag Cmt. @ 8105' - Recmt. @ 8105'</u>
			<u>2 1/2</u>	<u>1 - 3:30 P.O.H. T/ 7390' - CIRC & W.D.C. & Squeeze Cmt @</u>
				<u>10.5 SPM - 10 Bbl. - 250 psi.</u>
			<u>1</u>	<u>3:30-4:30 Cmt (Same as above) @ 7390'</u>
			<u>1</u>	<u>4:30-5:30 P.O.H. T/shoe -</u>
			<u>1/2</u>	<u>5:30-6 CIRC & W.D.C. @ Shoe</u>
			<u>24</u>	<u>TOTAL HOURS</u>

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>8.9</u> lb/gal. Vis. <u>37</u> Sec. <u>6</u> PV <u>23</u> YP W.L. <u>175</u> cc/30 Sand <u>4</u> % pH. <u>11.1</u> Ca+ <u>340</u> PPM W.C. <u>20</u> /32" CL- <u>3800</u> PPM Oil <u>12</u> % Solids <u>6</u> % <u>12</u> lb/B* Temp. <u>120</u> °F, Gels = <u>8</u> /12 ALK. (Pf) = <u>.23</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration _____ ft/hr Bit Weight <u>5110</u> M.lbs Rotary RPM <u>80</u> Pump psi <u>300</u> Pump SPM <u>35</u> Pump liners <u>7" X 16"</u> Pump output = <u>303</u> GPM Ann. Vel. = <u>157-216</u> ft/min. Hours Running _____ Centrifuge = _____ Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STAT 2-14</u> No. days this well _____ Date <u>2-21-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>9473'</u> Yesterday's depth <u>9473'</u> Drilled <u>0</u> ft. in <u>0</u> hrs. Last casing <u>958</u> " Depth <u>6000</u> Rotating Hrs. this report = <u>2 1/2</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>53</u>	<u>8 1/2</u>	<u>Sec 115348</u>	<u>S-86F</u>	<u>OUT</u>	<u>RR</u>	<u>6170</u>	<u>6485</u>	<u>315</u>	<u>C/O</u>	<u>CMT.</u>			

BHA Length: 948.53 Ft., Consist of: 8 1/2" BIT^{RR} = BITsub-3X6 1/4" DC-8 1/2" STAB^{RR}
Jars^{ORT} = ⊗ - 27X5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 180,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units
	o			
				Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
				Coordinates: _____ M.D. _____ TVD _____
				Present operations: <u>P.O.H. F/BIT T/Clean Out Cmt</u>

HOURS	Operations last 24 Hours:
<u>1/2</u>	<u>6-6:30 Circ. @ Shoc & Squeeze Cmt @ 103pm</u> <u>10 Bbl. @ 250psi</u>
<u>2</u>	<u>6:30-8:30 R.I.H. T/ 6292' & Circ F/CMT.</u>
<u>1</u>	<u>8:30-9:30 Cmt. = 35 Bbl. "G" + 3% Gel + 2% HR-12 + .75% CFR-2 - CIP @ 9:30 AM w/ Full Returns</u>
<u>2 1/2</u>	<u>9:30-12 P.O.H. T/ 5500' - Circ & WOC - Squeeze Cmt @ 103pm - 10 Bbl. - 250psi.</u>
<u>4</u>	<u>12-4 P.O.H. & M/U Drill Assembly & R.I.H. T/ 6170'</u> <u>TA9 Cmt @ 6170' - TEST Cmt T/ 400psi.</u>
<u>2 1/2</u>	<u>4-6:30 C/O Cmt F/ 6170 To 6485 (Stringces F/ 6270)</u> <u>Lost Returns @ 6485'</u>
<u>5</u>	<u>6:30-11:30 P.O.H. & R.I.H. w/ open end D.P. T/ 6300'</u> <u>Back Circ @ 6300' (NO Returns) - R.I.H. T/ 6500'</u>
<u>1/2</u>	<u>11:30-12:00 Rig up Howco & Cmt @ 6500' - 35 Bbl. "G" + 3% Gel + 2% HR-7 + .75% CFR-2 - w/ No Returns</u> <u>CIP @ 12:00</u>
<u>4</u>	<u>12:00-4 P.O.H. T/ 5900' - Circ & WOC w/ Full Returns</u>
<u>1/2</u>	<u>4-4:30 Squeeze Cmt @ 103pm - 2 Bbl. - T/ 600psi (Hold)</u>
<u>1 1/2</u>	<u>4:30-6 P.O.H. F/BIT & H.W. T/C/O Cmt.</u>
<u>24</u>	<u>TOTAL Hours</u>

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD				RATES				Well <u>STATE 2-14</u>			
Wt. <u>8.6</u> lb/gal.	Penetration _____ ft/hr	No. days this well _____		Date <u>2-22-86</u>		Operator <u>Bechtel</u>		Contractor <u>CLEVELAND Rig #6</u>		Today's depth <u>9473'</u>	
Vis. <u>32</u> Sec. <u>4</u> PV <u>6</u> YP	Bit Weight <u>5110</u> M.lbs	Rotary RPM <u>70/80</u>		Pump psi <u>500</u>		Pump SPM <u>50</u>		Pump liners <u>7" X 16"</u>		Pump output = <u>433</u> GPM	
W.L. _____ cc/30 Sand <u>1/2</u> %	Pump psi _____	Ann. Vel. = <u>224-309</u> ft/min.		Hours Running Centrifuge = <u>20</u>		Reduced Pump Rate: _____ SPM = _____ psi		Drilled _____ ft. in _____ hrs.		Last casing <u>9 5/8</u> " Depth <u>6000'</u>	
pH. <u>11.4</u> Ca+ <u>240</u> PPM	Pump SPM _____	K-ion = _____ PPM		Nation = _____ PPM		At Depth = _____ Ft.		Rotating Hrs. this report = <u>12</u>		Cumulative rotating hours = _____	
W.C. _____ /32" CL- <u>2700</u> PPM	Pump liners _____	K-ion = _____ PPM		Nation = _____ PPM		At Depth = _____ Ft.		Rotating Hrs. this report = _____		Cumulative rotating hours = _____	
Oil <u>TR</u> % Solids <u>3</u> % <u>12</u> lb/B*	Pump output = _____ GPM	K-ion = _____ PPM		Nation = _____ PPM		At Depth = _____ Ft.		Rotating Hrs. this report = _____		Cumulative rotating hours = _____	
Temp. <u>120</u> °F, Gels = <u>4.16</u>	Ann. Vel. = _____ ft/min.	K-ion = _____ PPM		Nation = _____ PPM		At Depth = _____ Ft.		Rotating Hrs. this report = _____		Cumulative rotating hours = _____	
ALK. (Pf) = <u>.50</u>	Hours Running Centrifuge = _____	K-ion = _____ PPM		Nation = _____ PPM		At Depth = _____ Ft.		Rotating Hrs. this report = _____		Cumulative rotating hours = _____	

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	
<u>52^{RR}</u>	<u>8 1/2</u>	<u>Varel 5525</u>	<u>V-527</u>	<u>OUT</u>	<u>RR</u>	<u>6165</u>	<u>9032</u>	<u>C/O. Cmt Plugs</u>						

BHA Length: 851.47 Ft., Consist of: 8 1/2" Bit - Bit Sub - (X) - 18 X 5" H.W. - Jars (Dot) 9 X 5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 220,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units
	°	'		
				Connection gas: Max. _____ units at _____' mud wt. _____ lb./Gal.
				Coordinates: _____ M.D. _____ TVD _____
				Present operations: <u>C/O. Cmt. F/9032'</u>

HOURS	Operations last 24 Hours:
<u>4</u>	<u>6-10 P.D.H. m/lub BIT #52^{RR} + B.H.A. - R.I.H /6165'</u>
<u>20</u>	<u>10-6 Clean out Cmt. Plugs F/6165'-6332'</u>

Daily Cost: \$ _____	<u>6525'-6711' 7.245-7490 7857-8559'</u>
Cumulative Cost: \$ _____	<u>9002'-9032' @ 6:00AM w/full RETURNS</u>
Daily Mud Cost: \$ <u>4389⁰²</u>	<u>TEST Plugs T/300psi.</u>
Cum. Mud Cost: \$ <u>285,620⁹⁰</u>	<u>No Mud Loses @ RPT Time</u>

MUD & CHEMICALS USED	
Sack Barite:	
Bulk Barite:	
Gel: <u>Profco</u>	<u>21</u>
Caustic Soda:	
Lignite:	
<u>Theemgel</u>	<u>150</u>
<u>T-Troll III</u>	<u>4</u>
<u>T-Plex</u>	<u>6</u>
<u>P-Temp SX</u>	<u>6</u>
<u>Nach</u>	<u>2</u>
<u>Anti foam</u>	<u>5</u>

MUD Wt. <u>8.6</u> lb/gal. Vis. <u>40</u> Sec. <u>9</u> PV <u>7</u> YP W.L. <u>29.0</u> cc/30 Sand <u>3/4</u> % pH. <u>11.2</u> Ca+ <u>144</u> PPM W.C. <u>2</u> /32" CL- <u>1320</u> PPM Oil <u>5</u> % Solids <u>6</u> % - lb/B° Temp. <u>120</u> °F, Gels = <u>2</u> 1/4 ALK. (Pf) = <u>.26</u> K-ion = _____ PPM Na-ion = _____ PPM At Depth = _____ Ft.			RATES Penetration <u>4</u> ft/hr Bit Weight <u>15/30</u> M.lbs Rotary RPM <u>40</u> Pump psi <u>400</u> Pump SPM <u>33</u> Pump liners <u>7" X 16</u> Pump output = <u>286</u> GPM Ann. Vel. = <u>148-204</u> ft/min. Hours Running Centrifuge = <u>12</u> Reduced Pump Rate: _____ SPM = _____ psi			Well <u>STATE 2-14</u> No. days this well _____ Date <u>2-23-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>9477'</u> Yesterday's depth <u>9473</u> Drilled <u>4</u> ft. in <u>1/2</u> hrs. Last casing <u>9 5/8</u> " Depth <u>6000</u> Rotating Hrs. this report = <u>6</u> Cumulative rotating hours = _____		
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	
<u>52^{CH}</u>	<u>8 1/2</u>	<u>Varel 5525</u>	<u>V-527</u>	<u>OUT</u>	<u>RR</u>	<u>C/O CMT.</u>								
<u>8^{CH}</u>	<u>8 1/2</u>	<u>N.C. 1450653</u>	<u>MC201</u>	<u>TEA. SD</u>	<u>RR</u>	<u>9473</u>	<u>9477</u>	<u>4</u>	<u>1/2</u>					

BHA Length: 981.61 Ft., Consist of: 8 1/2" Core Bit - Core Bbl. - 3x6 1/4" DC- STAB
JARS - ② - 27x5" H.W.
used 1-Pup JT.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 240,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background <u>CO₂ 300ppm</u> units
	o		Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
			Coordinates: _____ M.D. _____ TVD _____
			Present operations: <u>Pull Core #34</u>

HOURS	Operations last 24 Hours:
<u>5</u>	<u>6-11 CONT. CLEAN OUT CMT. F/ 9473'</u>
<u>1</u>	<u>11-12 Circ Clean @ 9473'</u>

Daily Cost: \$ _____	<u>7 1/2</u>	<u>12-7:30 P.O.H. - P/u Core Bbl. + R.I.H. T/ shoe</u>
Cumulative Cost: \$ _____	<u>1 1/2</u>	<u>7:30-9 Slip + Cut Drilling Line (125')</u>
Daily Mud Cost: \$ <u>17,322⁴⁶</u>	<u>4</u>	<u>9-10 CONT. R.I.H. T/ 9440'</u>
Cum. Mud Cost: \$ <u>302,943⁴⁶</u>		<u>WORK STUCK PIPE @ SPOT 2920 Bbl. Diesel + NID + WORK FEE</u>

MUD & CHEMICALS USED	QUANTITY	REMARKS
Sack Barite:	<u>70</u>	<u>1/2 2:30-3 Core F/ 9473 TO 9477' (Jammed) #34</u>
Bulk Barite:	<u>Sawdust 11</u>	<u>3 3-6 P.O.H. @ 6:00 AM</u>
Gel:	<u>NID 9</u>	
Caustic Soda:	<u>SealEaze 25</u>	
Lignite:	<u>Diesel 2920 Gal</u>	<u>Temp @ 9473 = IN - 122°F OUT - 155°F</u>
Thermgel	<u>351</u>	
T-Trol III	<u>17</u>	
Welpac	<u>15</u>	
T-Dick	<u>7</u>	
PTemp 5X	<u>1</u>	
Noah	<u>3</u>	
Caoh	<u>1</u>	
Hib-A	<u>1</u>	
ANTI Foam	<u>13</u>	
TBP Defoam	<u>10</u>	
T-lube	<u>2</u>	
K-Seal	<u>2</u>	

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>8.7</u> lb/gal. Vis. <u>34</u> Sec. <u>6</u> PV <u>6</u> YP W.L. <u>155</u> cc/30 Sand <u>1/4</u> % pH. <u>10.0</u> Ca+ <u>920</u> PPM W.C. <u>16</u> 132" CL <u>6000</u> PPM Oil <u>2</u> % Solids <u>3 1/2</u> % - lb/B° Temp. - °F, Gels = <u>4</u> 1 1/2 ALK. (Pf) = <u>1.04</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>9</u> ft/hr Bit Weight <u>1525</u> M.lbs Rotary RPM <u>5560</u> Pump psi <u>400</u> Pump SPM <u>42</u> Pump liners <u>7" x 16"</u> Pump output = <u>363</u> GPM Ann. Vel. = <u>188-260</u> ft/min. Hours Running Centrifuge = <u>12</u> Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>2-24-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>9517'</u> Yesterday's depth <u>9477'</u> Drilled <u>40</u> ft. in <u>5 1/2</u> hrs. Last casing <u>9 5/8</u> " Depth <u>6000'</u> Rotating Hrs. this report = <u>6</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
54	8 1/2	Varcl 18518	V-737	OUT	N	9477'	9517'	40'	5 1/2	7.2	1	2	I
8 ^{CH}	8 1/2	N.C. 1450653	MC20	TFR.50	RR	9517'	-				1	NC	

BHA Length: 981.61 Ft., Consist of: 8 1/2" Bit-Core Bbl. - 3x6 1/4" DC - STAB^{OR} - JARS(DOR) - 27x5" H.W.

BHA Wt. In Mud: _____ Lb.

Total String Wt.: 250,000 Lb.

Drilling Supervisor: G. W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2 300ppm</u> units Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal. Coordinates: _____ M.D. _____ TVD _____ Present operations: <u>C.R.C. @ Shoe</u>
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HOURS	Operations last 24 Hours:
5	6-11 Cont. P.O.H. - Ser Core Bbl (Rec. 50%) L/D Core Bbl. - M/U BIT #54 BHA + R.I.H. T/Shoe

Daily Cost: \$ _____	
Cumulative Cost: \$ _____	1/2 11-11:30 Break Circ. @ Shoe
Daily Mud Cost: \$ <u>6,279⁰⁰</u>	1/2 11:30-12 R.I.H. T/7200'
Cum. Mud Cost: \$ <u>309,222⁴⁶</u>	1/2 12-12:30 Break Circ. @ 7200'
	1/2 12:30-1 R.I.H. T/8200' (Gained 200 Bbl. w/R.I.H.)
	4 1-5 Break Circ @ 8200' Build Mud wt. F/8,2ppg

MUD & CHEMICALS USED		
Sack Barite:	<u>70</u>	1/2 5-5:30 R.I.H. T/9447'
Bulk Barite:		1/2 5:30-6 Ream F/9447' To 9477'
Gel: <u>Profo</u>	<u>90</u>	5 1/2 6-11:30 Drill F/9477' To 9517'
Caustic Soda:		1 1/2 11:30-1 Circ. Bottom up F/Loggers
Lignite:		5 1-6 P.O.H. - P/U Core Bbl. + R.I.H. T/Shoe @ 6:00 AM
Thermpel	<u>324</u>	24 TOTAL HOURS

Welpac	<u>18</u>	
Nach	<u>6</u>	Mud Losses 60 Bbl/hr. while Drilling
C5H	<u>20</u>	
Fiber	<u>25</u>	Temp @ 9500' IN = 128°F OUT = 180°F
		9517' = 134°F = 167°F

9477-9505'	Cl ₂ TN = 40%	SIT ₂ TN = 50%	Sd ₂ TN = 10%
9505-9517'	Diabase: Intensive (Dike or sill)		

MUD Wt. <u>8.4</u> lb/gal. Vis. <u>90</u> Sec. <u>8</u> PV <u>18</u> YP W.L. <u>870</u> cc/30 Sand <u>1/4</u> % pH. <u>9.8</u> Ca+ <u>640</u> PPM W.C. <u>8</u> /32" CL- <u>4000</u> PPM Oil <u>10</u> % Solids <u>3</u> % - lb/B* Temp. <u>120</u> °F, Gels = <u>8</u> /10 ALK. (Pf) = <u>.02</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration _____ ft/hr Bit Weight _____ M.lbs Rotary RPM _____ Pump psi <u>500</u> Pump SPM <u>40</u> Pump liners <u>7" X 16"</u> Pump output = <u>346</u> GPM Ann. Vel. = <u>179-247</u> ft/min. Hours Running _____ Centrifuge = <u>12</u> Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>2-25-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>9517'</u> Yesterday's depth <u>9517'</u> Drilled _____ ft. in _____ hrs. Last casing <u>9 5/8</u> " Depth <u>6000</u> Rotating Hrs. this report = <u>9</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	
<u>8^{CH}</u>	<u>8 1/2</u>	<u>N.C. 1450653</u>	<u>MC201</u>	<u>TEA.5D</u>	<u>RR</u>	<u>9517</u>	-		<u>0</u>					
<u>54^{EE}</u>	<u>8 1/2</u>	<u>Varel 1851R</u>	<u>V-737</u>	<u>OUT</u>	<u>RR</u>	<u>9517</u>	-		<u>0</u>					

BHA Length: 948.72 Ft., Consist of: 8 1/2" BIT^{EE} - BIT Sub - 3 X 6 1/4 DC - STAB^{EE} JARS(DOT)
⊗ - 27 X 5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 250,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units
	o			Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
			Coordinates: _____ M.D. _____ TVD _____	
			Present operations: <u>M/U BIT #55</u>	

HOURS	Operations last 24 Hours:
<u>1 1/2</u>	<u>6-7:30 Circ @ Shoe (Well flowing)</u>
<u>1 1/2</u>	<u>7:30-9 R.I.H. T/9458'</u>
<u>10</u>	<u>9-7 Stuck Pipe @ 9458' - WORK STUCK PIPE + SPOT 25 Bbls Diesel + N10 @ 9458'</u>
	<u>Pipe Came Free @ 7:00pm</u>
<u>1/2</u>	<u>7-7:30 Ream From 9458' to 9488'</u>
<u>1 1/2</u>	<u>7:30-9 Circ @ 9488'</u>
<u>5</u>	<u>9-2 P.O.H. 40 Core Bbl. - M/U BIT #54^{EE}</u>

MUD & CHEMICALS USED			
Sack Barite:	<u>40</u>	<u>1</u>	<u>2-3 Slip + Cut Drilling Line 249'</u>
Bulk Barite:		<u>3</u>	<u>3-6 Try Circ @ Shoe BIT plugged - P.O.H @ 6:00 AM (BIT + Float sub plugged)</u>
Gel: <u>Pepton</u>	<u>35</u>		
Caustic Soda:			
Lignite:		<u>24</u>	<u>TOTAL HOURS</u>
Thermgel	<u>180</u>		
Welpac	<u>2</u>		
Naoh	<u>3</u>		<u>Pipe stuck differentially - Due to 1/2" wall cake</u>
N10	<u>9</u>		<u>Due to lack of time Drilling - Circ - Condition</u>
Diesel	<u>42006A</u>		<u>ing time on Bottom - With mud losses + New Gel being added - No more cores recommended UNTIL sufficient Drilling + Circulating time to condition mud to 3/32" to 4/32" cake</u>

<p style="text-align: center;">MUD</p> <p>Wt. <u>8.8</u> lb/gal.</p> <p>Vis. <u>36</u> Sec. <u>6</u> PV <u>6</u> YP</p> <p>W.L. <u>31.0</u> cc/30 Sand <u>1/8</u> %</p> <p>pH. <u>10.0</u> Ca+ <u>18605</u> PPM</p> <p>W.C. <u>3</u> /32" CL- <u>1124</u> PPM</p> <p>Oil <u>8</u> % Solids <u>4</u> % <u>14</u> lb/B*</p> <p>Temp. <u>130</u> °F, Gels = <u>4</u> <u>138</u></p> <p>ALK. (Pf) = <u>.06</u></p> <p>K-ion = _____ PPM</p> <p>Na-ion = _____ PPM</p> <p>At Depth = _____ Ft.</p>	<p style="text-align: center;">RATES</p> <p>Penetration <u>10</u> ft/hr</p> <p>Bit Weight <u>15/25</u> M.lbs</p> <p>Rotary RPM <u>50/60</u></p> <p>Pump psi <u>500</u></p> <p>Pump SPM <u>40</u></p> <p>Pump liners <u>7" X 16"</u></p> <p>Pump output = <u>346</u> GPM</p> <p>Ann. Vel. = <u>179-247</u> ft/min.</p> <p>Hours Running Centrifuge = <u>16</u></p> <p>Reduced Pump Rate: _____ SPM = _____ psi</p>	<p>Well <u>STATE 2-14</u></p> <p>No. days this well _____ Date <u>2-26-86</u></p> <p>Operator <u>Bechtel</u></p> <p>Contractor <u>Cleveland Rig #6</u></p> <p>Today's depth <u>9610'</u></p> <p>Yesterday's depth <u>9517'</u></p> <p>Drilled <u>93'</u> ft. in <u>11</u> hrs.</p> <p>Last casing <u>95/8</u> " Depth <u>6000'</u></p> <p>Rotating Hrs. this report = <u>12 1/2</u></p> <p>Cumulative rotating hours = _____</p>
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	
55	8 1/2	Varel 22150	V-627	OUT	N	9517	9610	93'	11	8.4	INC			

BHA Length: 948.72 Ft., Consist of: 8 1/2" BIT^{LD} - BIT Sub- 3X6 1/4" DC. - 8 1/2" STAB^{RR}
JARS - (X) - 27X5" H.W.D.P.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 250.000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2 300ppm</u> units
	°			
				Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
				Coordinates: _____ M.D. _____ TVD _____
				Present operations: <u>Drill Ahead F/9610'</u>

HOURS	Operations last 24 Hours:
2 1/2	6-8:30 R.I.H. w/ BIT #55 T/Shoe
1	8:30-9:30 Circ @ Shoe w/ full RETURNS
1	9:30-10:30 R.I.H. T/ 9417'
3 1/2	10:30-2 Break Circ @ 9417' (No RETURNS)
	STAGED OUT of Hole - 7800' (No circ.)
	6800' (No circ.) Shoe (Full RETURNS)
1/2	2-2:30 Circ @ shoe
3	2:30-5:30 Stage in Hole - 6500' (75% RETURNS)
	6994' (75% RETURNS) - 7615' (75% RETURNS)
	8549' (75% RETURNS) - 9419' (75% RETURNS)
1 1/2	5:30-7 Ream F/ 9419' To 9517' (w/ full RETURNS)
11	7-6 Drill F/ 9517' To 9610' (w/ full RETURNS)
24	TOTAL HOURS

MUD & CHEMICALS USED		
Sack Barite:		
Bulk Barite:		
Gel: <u>Profco</u>	<u>30</u>	
Caustic Soda:		
Lignite:		
<u>Therengel</u>	<u>260</u>	
<u>T-Trol III</u>	<u>6</u>	<u>Mud Loses @ RPT. = 1.5 Bbl/hr.</u>
<u>welpac</u>	<u>4</u>	
<u>T-Plex</u>	<u>6</u>	<u>Temp @ 9610' in = 152°F OUT = 192°F</u>
<u>Naoh</u>	<u>7</u>	
<u>T-Lube</u>	<u>7</u>	<u>9517-9530' 60-80% Diabase 20-40% Crystn.</u>
<u>Soda Ash</u>	<u>6</u>	<u>9530'-9600' 0-20% Silica 10-20% Siltstn 70-90% Crystn</u>
<u>Diesel</u>	<u>4200 Gal</u>	

H.T. - H.P. W/L: 66cc 500psi @ 300°F

Field: SALTON SEA

MUD		RATES		Well <u>STATE 2-14</u>	
Wt. <u>8.7</u> lb/gal.	Penetration <u>9</u> ft/hr	No. days this well		Date <u>2-27-86</u>	
Vis. <u>39</u> Sec. <u>7</u> PV <u>6</u> YP	Bit Weight <u>5110</u> M.lbs	Operator <u>Bechtel</u>		Contractor <u>Cleveland Rig #6</u>	
W.L. <u>20.0</u> cc/30 Sand <u>TR.</u> %	Rotary RPM <u>70/80</u>	Today's depth <u>9694'</u>		Yesterday's depth <u>9610'</u>	
pH. <u>10.4</u> Ca+ <u>116</u> PPM	Pump psi <u>500</u>	Drilled <u>84</u> ft. in <u>9 1/2</u> hrs.		Last casing <u>9 5/8</u> " Depth <u>6000</u>	
W.C. <u>2</u> /32" CL- <u>1620</u> PPM	Pump SPM <u>53</u>	Ann. Vel. = <u>173-239</u> ft/min.		Rotating Hrs. this report = <u>12</u>	
Oil <u>5</u> % Solids <u>4</u> % <u>14</u> lb/B*	Pump liners <u>6" x 16"</u>	Hours Running		Cumulative rotating hours =	
Temp. <u>120</u> °F, Gels = <u>2</u> / <u>12</u>	Pump output = <u>334</u> GPM	Centrifuge = <u>12</u>			
ALK. (Pf) = <u>.12</u>	Ann. Vel. = <u>173-239</u> ft/min.	Reduced Pump Rate: _____ SPM = _____ psi			
K+ion = _____ PPM	Hours Running				
Nation = _____ PPM	Centrifuge = _____				
At Depth = _____ Ft.	Reduced Pump Rate: _____ SPM = _____ psi				

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
55	8 1/2	Varel 22150	V627	OUT	N	9517	9694'	184'	20 1/2	8.9	2	2	0 1/6
56	8 1/2	Varel 22296	V527	OUT	N	9694'	-	-					

BHA Length: 948.72 Ft., Consist of: 8 1/2" BIT-BIT Sub- 3X6 1/4" DC- 8 1/2" STAB^{RE}
Jars (DOT) - (X) - 27X5" H.W. DP.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 250,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>300ppm</u> units
	o		Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
			Coordinates: _____ M.D. _____ TVD _____
			Present operations: <u>Wiper Trip F/CORE Bbl.</u>

HOURS	Operations last 24 Hours:
9 1/2	6-3:30 Drill F/ 9610 To 9694'
1	3:30-4:30 Circ F/Loggers @ 9694'
6 1/2	4:30-11 P.O.H. Chg BITS & R.I.H T/shoe
1/2	11-11:30 Break Circ. @ shoe
3 1/2	11:30-3 Stage in Hole = 6900' - 7800' - 8700'
	9606' -
2 1/2	3-5:30 Ream F/ 9606 To 9694'
1/2	5:30-6 Circ @ 9694'

MUD & CHEMICALS USED		
Sack Barite:		24 TOTAL Hours
Bulk Barite:		
Gel:		
Caustic Soda:		Mud Losses 15 Bbl/hr.
Lignite:		
Thermogel	20	Temp @ 9694' IN = 140°F OUT = 173°F
T-Teal III	2	
Welpac	6	9610-9670' 10% SITSIN 90% Chystin
T-Plex	4	9670'-9680' 20% 60% 20% SITSIN.
P-Temp SX	4	9680'-9694' 60% 30% 10%
Naoh	3	
Capd	1	
Dml #3	3	
T-Lube	3	

H.T. - H.P. W/L: 890 CC - 500 psi @ 300°F

Field: SAITON SEA

MUD				RATES				Well STATE 2-14			
Wt. 8.8 lb/gal.	Penetration 17 ft/hr	No. days this well		Date 3-1-86		Operator Bechtel		Contractor Cleveland Rig #6		Today's depth 9790'	
Vis. 36 Sec. 6 PV 6 YP	Bit Weight 25 M.lbs	Rotary RPM 50/60		Pump psi 500		Pump SPM 50		Pump liners 7" x 16"		Pump output = 346 GPM	
W.L. 39.8 cc/30 Sand 1/4 %	Ann. Vel. = 179-247 ft/min.	Hours Running 12		Reduced Pump Rate = SPM = psi		Rotating Hrs. this report = 7		Cumulative rotating hours =		Yesterday's depth 9698'	
pH. 10.0 Ca+ 2.04 PPM	Hours Running Centrifuge = 12	K-ion = PPM		Nation = PPM		At Depth = Ft.		Drilled 92 ft. in 6 hrs.		Last casing 95/8" Depth 6000	
W.C. 6 /32" CL- 9.400 PPM	Oil 1 % Solids 4 % 12 lb/B*	Temp. 120 °F, Gels = 6.110		ALK. (Pf) = .16							

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	
56 ^{RS}	8 1/2	Varcl 22296	V-527	OUT	RR	9698	9790	92	6	15.3				INC

BHA Length: 953.17 Ft., Consist of: 8 1/2" BIT - 3PT. Reamer^{RS} - BitSub - 3X6 1/4" DC - STAB^{RS}
 JARS(007) - @ - 27X5" H.W.D.P.

BHA Wt. In Mud: Lb.
 Total String Wt.: 250,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas 100,000 ppm units at Ft. Avg. background gas 102 300 ppm units Connection gas: Max. units at mud wt. lb./Gal. Coordinates: M.D. TVD Present operations: Drilling Ahead F/9790'
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HOURS	Operations last 24 Hours:
4	6-10 P.D.H. w/ Core Bbl - 1 Service (3 1/2 Recovery) 4/D Core Bbl. - well started flowing

Daily Cost: \$	1 1/2	10-11:30 Shut in well (CSO) - Mix 20 Bbl 10.0
Cumulative Cost: \$		PP9 Slug - Bull Head Then Kill Line @ 10:30pm - 50psi - open CSO - well static
Daily Mud Cost: \$ 5,400 ²⁶	3	11:30-2:30 m/u BIT #56 ^{RS} & R.I.H.T./Shoe
Cum. Mud Cost: \$ 335,501 ¹⁴	1	2:30-3:30 Circ @ Shoe

MUD & CHEMICALS USED		
Sack Barite:	60	4 7-11 Cont R.I.H. (staged in hole) Break Circ @ 6900-7800-8700-9641
Bulk Barite:	1	11-12 Ream F/ 9641 To 9698'
Gel: Perfecto	5	6 12-6 Drill F/ 9698' To 9790' @ 6:00 AM
Caustic Soda:	3	24 TOTAL Hours
Lignite:	3 1/2	Rig Repair
Thermagel	45	20 1/2 Rig Time
Welpac	4	
T-Plex	6	Mud Lose 15-20 Bbl/hr.
P-Temp 6	6	Temp @ 9790 IN = 142°F OUT = 177°F
T-Trol III	1	
Dml #3	4	9698'-9740' 50-70% SA-TN 10-20% SITSN 20-30% CLYSTN
Biozan	5	9740'-9770' 0-20% " 10% " 70-90% "

H.T. - H.P. W/L: _____

Field: Sutton Sea

MUD Wt. <u>8.8</u> lb/gal. Vis. <u>34</u> Sec. <u>7</u> PV <u>0</u> YP W.L. <u>26</u> cc/30 Sand <u>1/8</u> % pH. <u>8.2</u> Ca+ <u>204</u> PPM W.C. <u>-2</u> 1/32" CL <u>2300</u> PPM Oil <u>2</u> % Solids <u>8</u> % lb/B* Temp. <u>142</u> °F. Gels = <u>2.1</u> ALK. (Pf) = <u>.10</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>8</u> ft/hr Bit Weight <u>25</u> M.lbs Rotary RPM <u>52/60</u> Pump psi <u>500</u> Pump SPM <u>40</u> Pump liners <u>6.16</u> " Pump output = _____ GPM Ann. Vel. = _____ ft/min. Hours Running Centrifuge = _____ Reduced Pump Rate: _____ SPM = _____ psi		Well <u>State 2-14</u> No. days this well _____ Date <u>3-2-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland #6</u> Today's depth <u>9907</u> Yesterday's depth <u>9890</u> Drilled <u>117</u> ft. in <u>15</u> hrs. Last casing <u>9 5/8</u> " " Depth <u>6000</u> Rotating Hrs. this report = _____ Cumulative rotating hours = _____
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
56	8 1/2"	Dahl 22296	F527	-	used	9628	9907	209	21	10	8	8	1/4
CH. 10	7 7/8"	NC 0312843	C201		new	9907							

BHA Length: 953.17 Ft., Consist of: 8 1/2" BBL + 8 1/2" reamer + 3-6 1/2" D.C.A. + stab. + jar + 27 lbs. 5" D.W.P.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: Ray Piqueron

DEPTH	DEV.	DIRECTION	Trip gas		Connection gas		Coordinates		Present operations	
			units at	Ft.	units at	' mud wt.	M.D.	TVD		

HOURS	Operations last 24 Hours:
15	Drill
1	Circulate Bottoms up
4	P.O.H.
1	Pick up Core BBL
1 1/2	R.O.H. To 1000' (changed Tasse)
1	Repair rig
1/2	P.O.H.
24	Total Hrs.

MUD & CHEMICALS USED	Quantity	Description
Sack Barite:	1	Repair Rig (Replace Blower motor)
Bulk Barite:		
Gel: Thermo	265	
Caustic Soda:	14	9770' - 9870' 60-90% Claystone 10-40% Siltstone 0-10% Sandstone
Lignite:		
Proteo Gel	44	9870' - 9900' 0-10% Claystone, 0-10% Siltstone 90% Sandstone
Well Pac	17	
Biozan	6	Common epidote, Verming, trace, disseminated
Pro Temp	2	Lignite in claystone, common anhydrite
Defoamer	4 conc	
D.M.L.	7	Hole Logging 5 BBLs Per Hr.
Soda ash	18	Temp @ 9800' 140° in 170° out
Therm Gel	10	9850' 142° " 180° "
		9900' 142° " 178° "
		9907' 142° " 179° "
40 BBLs Diesel		

H.T. - H.P. W/L:

Field: Sutton Sea

MUD				RATES				Well <u>Slate 2-14</u>			
Wt. <u>9</u> lb/gal.	Penetration <u>1/2</u> ft/hr	No. days this well <u>3-3-86</u>									
Vis. <u>36</u> Sec. <u>6</u> PV <u>7</u> YP	Bit Weight <u>15-22</u> M.lbs	Date <u>3-3-86</u>									
W.L. <u>10</u> cc/30 Sand <u>12</u> %	Rotary RPM <u>40-45</u>	Operator <u>Bechtel</u>									
pH. <u>9.2</u> Ca+ <u>148</u> PPM	Pump psi <u>1100</u>	Contractor <u>Cleveland #6</u>									
W.C. <u>3</u> /32" CL- <u>6200</u> PPM	Pump SPM <u>36</u>	Today's depth <u>9912</u>									
Oil <u>2</u> % Solids <u>5</u> % lb/B"	Pump liners <u>7x16</u>	Yesterday's depth <u>9907</u>									
Temp. <u>41.22</u> °F, Gels = <u>41.22</u>	Pump output = <u>346</u> GPM	Drilled <u>5</u> ft. in <u>8 1/2</u> hrs.									
ALK. (Pf) = <u>.02</u>	Ann. Vel. = <u>492</u> ft/min.	Last casing <u>9 1/2</u> " Depth <u>6000'</u>									
K+ion = _____ PPM	Hours Running _____	Rotating Hrs. this report = <u>8 1/2</u>									
Na+ion = _____ PPM	Centrifuge = _____	Cumulative rotating hours = <u>685</u>									
At Depth = _____ Ft.	Reduced Pump Rate: _____ SPM = _____ psi										

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	
10	7 7/8	NC 0312243	C201	-	N	9907	9912	5	8 1/2	1/2				O.K.
11	8 1/2	Dahl 22191	V627	-	N	9912								

BHA Length: 948.72 Ft., Consist of: 8 1/2" Bit + float sub. + 3-6" M.C.'s + Stab. + Jaws + 27 lbs. D.W.M.P.

BHA Wt. In Mud: 250,000 Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: Ray Ferguson

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2 300 P.P.M</u> units
	o		Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
			Coordinates: _____ M.D. _____ TVD _____
			Present operations: <u>P.O.D.</u>

HOURS	Operations last 24 Hours:
3 1/2	<u>P.O.D.</u>
8 1/2	<u>Cut Core # 36 9907-9912</u>
2	<u>P.O.D.</u>

Daily Cost: \$ _____	3	<u>Circ. C Shoe Temp. @ 208° + cooled to 198° in 183' out</u>
Cumulative Cost: \$ _____	2 1/2	<u>P.O.D.</u>
Daily Mud Cost: \$ <u>4658.94</u>	1/2	<u>Service Connection Rec. 9"</u>
Cum. Mud Cost: \$ <u>343,600.00</u>	1	<u>Make up B.H.A. Change Rotating Head</u>

MUD & CHEMICALS USED			
Sack Barite:	<u>304</u>	2	<u>P.O.D.</u>
Bulk Barite:		1	<u>Circ. C Shoe</u>
Gel: <u>Protco</u>	<u>6</u>	24	<u>Total Hrs</u>
Caustic Soda:		24	<u>Rig Time</u>
Lignite:			
<u>Kiel Pac</u>	<u>3</u>		
<u>Brazan</u>	<u>2</u>		<u>Temp 9910 140 in 182 out</u>
<u>NaOH</u>	<u>5</u>		
<u>Al. Ster.</u>	<u>2</u>		<u>Make Taking 5-10 B.H.A. Per Day</u>
<u>Soda Ash</u>	<u>2</u>		

H.T. - H.P. W/L: _____

Field: Sutton Sea

MUD Wt. <u>8.6 to 9</u> lb/gal. Vis. <u>3.3</u> Sec. PV YP W.L. <u>3.3</u> cc/30 Sand <u>1/4</u> % pH. <u>10.5</u> Ca+ <u>9.2</u> PPM W.C. <u>2/32" CL</u> <u>2300</u> PPM Oil <u>2</u> % Solids <u>4</u> % lb/B* Temp. _____ °F, Gels = <u>2.18</u> ALK. (Pf) = <u>.24</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>7.26</u> ft/hr Bit Weight <u>20</u> M.lbs Rotary RPM <u>50-60</u> Pump psi <u>590</u> Pump SPM <u>38</u> Pump liners <u>7</u> Pump output = _____ GPM Ann. Vel. = _____ ft/min. Hours Running Centrifuge = _____ Reduced Pump Rate = _____ SPM = _____ psi		Well <u>State 2-14</u> No. days this well _____ Date <u>3-4-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland P Co</u> Today's depth <u>10050</u> Yesterday's depth <u>9912</u> Drilled <u>138</u> ft. in <u>19</u> hrs. Last casing <u>9 5/8"</u> " Depth <u>6000'</u> Rotating Hrs. this report = <u>19</u> Cumulative rotating hours = <u>704</u>	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	
57	8 1/2"	Davis 22191	V627	-	N	9912	10050	138	19	7.26				

BHA Length: 948.72 Ft. Consist of: 8 1/2" Bit + float sub + 3-6 1/2" D.C.'s + Stab. + Jar + 27 ft. N.D.S.P.

BHA Wt. In Mud: 256,000 Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: Ray Ferguson

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2 300 P.P.M</u> units
			Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
			Coordinates: _____ M.D. _____ TVD _____
			Present operations: <u>Drilling</u>
		HOURS	Operations last 24 Hours:
		<u>3 1/2</u>	<u>R.O.D.</u>
		<u>1/2</u>	<u>Reamed 9824'-9912'</u>
		<u>15</u>	<u>Drilled 9912' to 10018'</u>
		<u>1</u>	<u>Repair Rig</u>
		<u>4</u>	<u>Drill 10018-10050</u>

Daily Cost: \$ _____	<u>15</u>	<u>Drilled 9912' to 10018'</u>
Cumulative Cost: \$ _____	<u>1</u>	<u>Repair Rig</u>
Daily Mud Cost: \$ <u>4046.20</u>	<u>4</u>	<u>Drill 10018-10050</u>
Cum. Mud Cost: \$ <u>346,607.09</u>	<u>24</u>	<u>Total Hrs</u>
	<u>23</u>	<u>Rig Time</u>
	<u>1</u>	<u>Repair S.C.R. unit</u>

MUD & CHEMICALS USED				
Sack Barite:				
Bulk Barite:		9910'-9930'	80% Chytra	10% Silt 10% Sandst.
Gel: Procto	10	9930'-9940'	10% "	90% "
Caustic Soda:	7	9940'-9950'	70% "	10% " 20% "
Lignite:		9950'-9970'	10% "	90% "
Therm Inv	4	9970'-10,030'	50-100% "	0-40% " 0-20% "
" Plex	5		Secondary minerals fading out	
Bio 220	2		Hole taking 15" R.O.D. Per O.H.	
Pro Tem	4		Prod. Mud - dk grey - green claystone w/ white siltstone + sandstone rare trace disseminated pyrite, rare epidote missing	
			Temp.	
		9950'	153° IN	188° out
		10000'	147° "	184°
		10040'	144° "	180°
		10050'	143° "	180°

H.T. - H.P. W/L: _____

Field: Sutton Sea

MUD Wt. <u>8.9</u> lb/gal. Vis. <u>32</u> Sec. <u>5</u> PV <u>4</u> YP W.L. <u>22</u> cc/30 Sand <u>12</u> % pH. <u>10.8</u> Ca+ <u>22</u> PPM W.C. <u>2/32</u> CL <u>2000</u> PPM Oil <u>1 1/2</u> % Solids <u>5</u> % lb/B* Temp. _____ °F, Gels = <u>21.6</u> ALK. (Pf) = <u>1.21</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>10</u> ft/hr Bit Weight <u>25</u> M.lbs Rotary RPM <u>40-50</u> Pump psi <u>600</u> Pump SPM <u>40</u> Pump liners <u>6x16 - 7x16</u> Pump output = <u>346</u> GPM Ann. Vel. = <u>247.129</u> ft/min. Hours Running _____ Centrifuge = _____ Reduced Pump Rate = _____ SPM = _____ psi		Well <u>State 2-14</u> No. days this well _____ Date <u>3-5-86</u> Operator <u>Bickel</u> Contractor <u>Clearlands #6</u> Today's depth <u>10144</u> Yesterday's depth <u>10050</u> Drilled <u>94</u> ft. in <u>2 1/2</u> hrs. Last casing <u>9 3/8</u> " Depth <u>6000</u> Rotating Hrs. this report = <u>9 1/2</u> Cumulative rotating hours = <u>713 1/2</u>	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
57	8 1/2	Rank 22191	V627	-	N	9912	10061	149	20 1/2	7.5	6	6	1/8
58	8 1/2	Rank 22313	V627	-	N	10061	10144	83	8	10.4	Inc.		

BHA Length: 948.72 Ft., Consist of: 8 1/2" Bit + Float Sub + 3-6 1/2" M.C.'s + Stab. + Jars + 27 lbs. N.W.M.P.

BHA Wt. In Mud: 256,000 Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: Ray Ferguson

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2 300 PPM</u> units
	o		Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
Coordinates: _____ M.D. _____ TVD _____			Present operations: <u>Drilling</u>

HOURS	Operations last 24 Hours:
1 1/2	Drill to 10061'
1 1/2	Circulate Bottoms up.
1	P.O.D. to shoe
1 1/2	Circ. Ten 185° Reduced to 175°
1 1/2	P.O.D. change bits
1 1/2	P.O.D.
1	Circulate
5	Repair B.O.P.s (Pitcher Dipper)
1 1/2	P.O.D.

MUD & CHEMICALS USED	
Sack Barite:	40
Bulk Barite:	24
Gel: <u>Acron</u>	60
Caustic Soda:	5
Lignite:	

Big 22u	2	10030' - 10040'	10% clay 10% silt 80% sand
well Pac	4	10040' - 10130'	60-100% clay 0-40% " 10 "
Pen Temp L	4		
Opale Det.	1		Mud Loss 15 Bbls per Hr.
Cipon	2		Temp
		@ 10100	148° in 185° out.
		10110	148° 188°
		10120	146° 186°
		10130	148° 180°
		10140	148° 181°

H.T. - H.P. W/L: _____

Field: Sutton Sea

MUD Wt. <u>8.9</u> lb/gal. Vis. <u>32</u> Sec. <u>6</u> PV <u>4</u> YP W.L. <u>20</u> cc/30 Sand <u>1/8</u> % pH. <u>8.8</u> Ca+ <u>100</u> PPM W.C. <u>9</u> 1/32" CL <u>2200</u> PPM Oil <u>1</u> % Solids <u>5</u> % lb/B* Temp. _____ °F, Gels = <u>21.8</u> ALK. (Pf) = <u>.34</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.			RATES Penetration <u>628</u> ft/hr Bit Weight <u>25</u> M.lbs Rotary RPM <u>50</u> Pump psi <u>600</u> Pump SPM <u>40</u> Pump liners <u>7</u> Pump output = <u>346</u> GPM Ann. Vel. = <u>179/247</u> ft/min. Hours Running Centrifuge = _____ Reduced Pump Rate: _____ SPM = _____ psi			Well <u>State</u> <u>2-14</u> No. days this well _____ Date <u>3-6-86</u> Operator <u>Bechtel</u> Contractor <u>C. Howard #6</u> Today's depth <u>10212</u> Yesterday's depth <u>10144</u> Drilled <u>68</u> ft. in <u>10</u> hrs. Last casing <u>9 5/8</u> " " Depth <u>6000</u> ' Rotating Hrs. this report = <u>10</u> Cumulative rotating hours = <u>227 1/2</u>		
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
58	8 1/2"	Forl 22913	V527	-	N	10061	10212	151	18 1/2	8.3	6	6	1/8
59	8 1/2"	Sec. 420146	S84F	-	N	10212							

BHA Length: 985.64 Ft., Consist of 8 1/2" Bit + Stab. + Mand. + Stab. + 3-5/8" Pipe + Stab. + Jaws + 27 lbs. H. W. L.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: Ray Ferguson

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2 - 300 PPM</u> units
			Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
			Coordinates: _____ M.D. _____ TVD _____
			Present operations: <u>Work stuck pipe</u>

HOURS	Operations last 24 Hours:
10	Drilling to 10212'
3	L.O.H.
1	Change B.M.A.
1/2	L.O.H.
1/2	Weld break in Pitcher Nipple
2 1/2	L.O.H.
1/2	Circ.
2	Ream Lay down 8 gts pipe
4	Pipe stuck @ 10170'

MUD & CHEMICALS USED		
Sack Barite:	40	Work pipe spot 80 Bbls dilut 11-N-10
Bulk Barite:		
Gel:	Therm 45	
Caustic Soda:		10130'-10150' 70-80% Chyt. 10-20% Silt. 0-20% Smdst
Lignite:		10150'-10200' 10-30% " 10-20% " 50-80% "
P.ozza	2	10200'-10210' 60% " 20% " 20% "
well Pac	6	
Bo Temp L	8	Raising 15 Bbls. Hk.
Caustic	10	
lime	1	@ 10150 Temp in 144' out 178'
AML	1	10200 " " 150" " 182"
Cy Pan	5	10210 " " 149" " 193"
		General Lithology Remarks
		DK grey-grn. Claystone Whit + grey lam
		Sandstone, Mn. epidote, Traces disseminated pyrite, rare fibrous tremolite.

H.T. - H.P. W/L: _____

Field: Salton Sea

MUD Wt. <u>9</u> lb/gal. Vis. <u>124</u> Sec. <u>7</u> PV <u>14</u> YP W.L. <u>35</u> cc/30 Sand <u>1/8</u> % pH. <u>9.5</u> Ca+ <u>184</u> PPM W.C. <u>3</u> 1/32" CL- <u>8000</u> PPM Oil <u>6</u> % Solids <u>4</u> % lb/B* Temp. _____ °F, Gels = <u>5-128</u> ALK. (Pfi) = <u>19</u> K-ion = _____ PPM Na-ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>7</u> ft/hr Bit Weight <u>25</u> M.lbs Rotary RPM <u>50/60</u> Pump psi <u>600</u> Pump SPM <u>40</u> Pump liners <u>7x16</u> Pump output = <u>346</u> GPM Ann. Vel. = <u>179/247</u> ft/min. Hours Running Centrifuge = _____ Reduced Pump Rate: _____ SPM = _____ psi		Well <u>State 2-14</u> No. days this well _____ Date <u>3-8-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland #6</u> Today's depth <u>10,420'</u> Yesterday's depth <u>10,350'</u> Drilled _____ 70 ft. in _____ hrs. Last casing <u>9 5/8</u> " " Depth <u>6000'</u> Rotating Hrs. this report = <u>10</u> Cumulative rotating hours = <u>750 1/2</u>	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	
60	8 1/2	Haul 22460	V627	-	N	10,350	10,420	70	10	7				Inc

BHA Length: 948.72 Ft., Consist of: 8 1/2" Bit + Float Sub + 3-6 1/2" M.C. + Stab. 29
+ Jaws + Xover + 22 lbs N.W.D.L.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: Ray Ferguson

DEPTH	DEV.	DIRECTION	CO ₂ Trip gas <u>128,000</u> PPM units at _____ Ft. Avg. background gas CO ₂ <u>300</u> PPM units
	°		Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
Coordinates: _____ M.D. _____ TVD _____			Present operations: <u>Drilling</u>

HOURS	Operations last 24 Hours:
<u>1 1/2</u>	<u>Circulate + L.O.H. (dropped multishot)</u>
<u>2</u>	<u>Pulled 2 Stds. Well flowing</u>
<u>2 1/2</u>	<u>Circulated + Drill well</u>
<u>3</u>	<u>L.O.H. to shoe + recover multishot</u>
<u>3</u>	<u>L.O.H.</u>
<u>1 1/2</u>	<u>Change Bits + B.H.A.</u>
<u>2 1/2</u>	<u>L.O.H.</u>
<u>2</u>	<u>Beam 10,286' To 10,350'</u>
<u>10</u>	<u>Drill 10,350' To 10,420</u>

MUD & CHEMICALS USED
 Sack Barite: 290
 Bulk Barite: _____
 Gel: _____

Caustic Soda: <u>9</u>	<u>10,330 - 10,410' 60-100% claystone 0-10% sandstone</u>
Lignite: <u>4</u>	<u>128,000 P.P.M. CO₂ when well flowed on trip</u>
T - Tral: <u>1</u>	<u>@ 10,350' Temp on 150° oil 178°</u>
T - Plex: <u>4</u>	
Brazon: <u>1</u>	<u>10,370' " 146° 174°</u>
Well Pac: <u>1</u>	<u>10,390' " 149° 177°</u>
Pro Temp: <u>10</u>	<u>10,400' " 148° 178°</u>
" liquid: <u>7</u>	<u>10,410' " 149° 178°</u>
SPA: <u>1</u>	<u>Hole Taking 20 Bbls. Pure Air</u>
<u>Multishot D/o Good (film removed)</u>	

H.T. - H.P. W/L: _____

Field: Sutton Sea

MUD		RATES		Well <u>State 2-74</u>	
Wt. <u>8.7</u> lb/gal.	Penetration <u>7</u> ft/hr	No. days this well <u>3-2-86</u>	Date <u>3-2-86</u>		
Vis. <u>36</u> Sec. <u>8</u> PV <u>8</u> YP	Bit Weight <u>2.5</u> M.lbs	Operator <u>Buchth</u>	Contractor <u>Cleveland 6</u>		
W.L. <u>16</u> cc/30 Sand <u>7</u> %	Rotary RPM <u>60/60</u>	Today's depth <u>10,470</u>	Yesterday's depth <u>10,420</u>		
pH. <u>10.9</u> Ca+ <u>60</u> PPM	Pump psi <u>600</u>	Drilled <u>55</u> ft. in <u>6 1/2</u> hrs.	Last casing <u>9 1/2</u> " Depth <u>2000</u>		
W.C. <u>1/32</u> " CL <u>3000</u> PPM	Pump SPM <u>40</u>	Rotating Hrs. this report = <u>10 1/2</u>	Cumulative rotating hours = <u>761</u>		
Oil <u>2</u> % Solids <u>3</u> % lb/B*	Pump liners <u>7x16</u>				
Temp. _____ °F, Gels = <u>2.6</u>	Pump output = <u>346</u> GPM				
ALK. (Pf) = _____	Ann. Vel. = <u>179-247</u> ft/min.				
K-ion = _____ PPM	Hours Running _____				
Na-ion = _____ PPM	Centrifuge = _____				
At Depth = _____ Ft.	Reduced Pump Rate: _____ SPM = _____ psi				

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
60	8 1/2	Daich 22450	V627	-	N	10,320	10,470	125	17 3/4	7	2	2	1/8

BHA Length: 948.72 Ft., Consist of: 8 1/2" Pipe + float sub + 3-6 1/2" B.C.'s + 8 1/2" + Jaws + x over + 22 lbs. H.P. B.P.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: Ray Ferguson

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas <u>CO2 300 PPM</u> units
			Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
Coordinates: _____ M.D. _____ TVD _____			Present operations: <u>P.D. H. w/ O.C. B.P.</u>

HOURS	Operations last 24 Hours:
6 1/2	Drilling
1 1/2	Last Returns Mix R.C. Dr + Spat.
2	Run to Slack
2	Mix Volume
2	P.O. H.
9	Rig up + run Temp Log + Calliper U.S.G.S.
1	Rig down U.S.G.S.
24	

MUD & CHEMICALS USED		
Sack Barite:		10,420 - 10,475 0-10% Sndata 0-10% Mlt 80-100% Clayta.
Bulk Barite:		
Gel: Profco	10	
Caustic Soda:	13	
Lignite:		Order Taking 10 Bbls Hc.
Therm Gel	12.6	Began losing mud @ 10,450 gradual increase
"	4	stop
Big 220	6	Losing 200 Bbls Hc. @ 10,460'
well Pac	11	Total Loss returns @ 10,475'
Prof Temp	4	
Quick Set	20	
Pra F.Ra	25	
Sandust	25	
Cipon	4	
SPA	3	

H.T. - H.P. W/L: _____

Field: Sutton Sea

MUD Wt. <u>8.7</u> lb/gal. Vis. <u>44</u> Sec. <u>10</u> PV <u>12</u> YP W.L. <u>16</u> cc/30 Sand <u>34</u> % pH. <u>11.7</u> Ca+ <u>20</u> PPM W.C. <u>1</u> 1/32" CL <u>2100</u> PPM Oil <u>1</u> % Solids <u>5</u> % lb/B* Temp. _____ °F, Gels = <u>418</u> ALK. (Pf) = _____ K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration _____ ft/hr Bit Weight _____ M.lbs Rotary RPM _____ Pump psi _____ Pump SPM _____ Pump liners _____ Pump output = _____ GPM Ann. Vel. = _____ ft/min. Hours Running _____ Centrifuge = _____ Reduced Pump Rate: _____ SPM = _____ psi		Well <u>State 2-14</u> No. days this well _____ Date <u>3-10-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland 6</u> Today's depth <u>10475</u> Yesterday's depth _____ Drilled _____ ft. in _____ hrs. Last casing <u>9 5/8</u> " Depth <u>6000</u> Rotating Hrs. this report = _____ Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	

BHA Length: _____ Ft., Consist of: _____

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: Ray Ferguson

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units	
			o	.

Connection gas: Max. _____ units at _____ ' mud wt. _____ lb./Gal.
 Coordinates: _____ M.D. _____ TVD
 Present operations: spotting another pill (L.C.M.) @ 10,450

HOURS	Operations last 24 Hours:
1	R.O.H. w/ O.C.M.P.
2	Circulate (wells flowing)
3	Pick up @ @ Pipes
8	Staging in + Circ @ 6850-9190 + Tag up on bridge @ 10,382
1/2	Pull to 10319
1 1/2	Down mixed + Pumped 26 bags 20 lb. cement
1 1/2	Pulled 3 Stks. + Circ. (Last returns)
1	R.O.H. To 10,350 Spot L.C.M. Pill
1 1/2	R.O.H. To Shoe
4 1/2	Mix mud Spot 40 Bbls. H ₂ O in annulus
1/2	Pumped 120 Bbls down H.P. filled hole
1 1/2	R.O.H. Tag up @ 10450

MUD & CHEMICALS USED	
Sack Barite:	110
Bulk Barite:	4 1/2
Gel:	T. 3
Caustic Soda:	1 1/2
Lignite:	
Welpac	2
P. Temp. sy	4
" " " " " 2"	3
NaOH	6
H ₂ SO ₄	16
F. Ber	15
Sawdust	20
seal LASC	2
JPA	2

@ 9190 displaced + dumped 250 Bbls Brine
 @ 10400 Hole taking mud at 100 Bbls H₂O rate

H.T. - H.P. W/L: N/CONTROL

Field: SALTON SEA

MUD		RATES		Well <u>STATE 2-14</u>	
Wt. <u>8.7</u> lb/gal.	Penetration _____ ft/hr	No. days this well _____ Date <u>3-11-86</u>		Operator <u>Beechtel</u>	
Vis. <u>32</u> Sec. <u>6</u> PV <u>4</u> YP	Bit Weight <u>15</u> M.lbs	Contractor <u>Cleveland Rig #6</u>		Today's depth <u>10,475</u>	
W.L. <u>114</u> cc/30 Sand <u>1/4</u> %	Rotary RPM <u>60</u>	Yesterday's depth <u>10,475</u>		Drilled _____ ft. in _____ hrs.	
pH. <u>8.5</u> Ca+ <u>2112</u> PPM	Pump psi <u>550</u>	Last casing <u>9 5/8</u> " Depth <u>6,000</u>		Rotating Hrs. this report = <u>1/2</u>	
W.C. <u>8</u> /32" CL- <u>16,800</u> PPM	Pump SPM <u>40</u>	Cumulative rotating hours = _____			
Oil <u>TR</u> % Solids <u>3</u> % <u>12</u> lb/B*	Pump liners <u>7" X 16"</u>				
Temp. <u>120</u> °F, Gels = <u>4</u> /12	Pump output = <u>346</u> GPM				
ALK. (Pf) = <u>.05</u>	Ann. Vel. = <u>179-247</u> ft/min.				
K+ion = _____ PPM	Hours Running _____				
Na+ion = _____ PPM	Centrifuge = <u>0</u>				
At Depth = _____ Ft.	Reduced Pump Rate = _____ SPM = _____ psi				

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
	<u>8 1/2</u>	<u>STC</u>	<u>M-44N</u>	<u>OUT</u>	<u>RR.</u>	<u>10,331</u>		<u>9/0</u>	<u>Bridge</u>				

BHA Length: 792.94 Ft., Consist of: 8 1/2" BIT - BIT Sub - float Sub - 16 X 5" H.W.
Jaes (DOT) - 9 X 5" H.W. -

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 260,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units
	o			
				Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
				Coordinates: _____ M.D. _____ TVD _____
				Present operations: <u>P.O.H.</u>

HOURS	Operations last 24 Hours:
<u>1/2</u>	<u>6-6:30 Spot LCM Pill @ 10,425'</u>
<u>1 1/2</u>	<u>6:30-8 P.O.H. T/shoe</u>

Daily Cost: \$	<u>2</u>	<u>8-10 Wait on LCM Pill & Build Mud Volume</u>
Cumulative Cost: \$	<u>2</u>	<u>10-12 P.O.H.</u>
Daily Mud Cost: \$ <u>9,459⁶²</u>	<u>4</u>	<u>12-4 Rig up Schlumberger & Run E-Log</u>
Cum. Mud Cost: \$ <u>391,086²⁰</u>	<u>1</u>	<u>4-5 R.I.H. T-3246 Well started flowing</u>
	<u>1</u>	<u>5-6 Circ & Kill well @ 3246'</u>

MUD & CHEMICALS USED		
Sack Barite:	<u>64</u>	<u>1 7-8 Circ Bottom up</u>
Bulk Barite:		<u>1/2 8-8:30 R.I.H. T/6850'</u>
Gel: <u>Profco</u>	<u>145</u>	<u>1/2 8:30-9 Ream Bridge @ 6850 - 6950'</u>
Caustic Soda:	<u>10</u>	<u>1 9-10 R.I.H. T/10,331'</u>
Lignite:		<u>5 10-3 Circ & Cond Mud @ 10,331 - Well trying to flow.</u>
T-Gel	<u>23</u>	
Biozan	<u>8</u>	<u>3 3-6 P.O.H. @ 6:00 AM</u>
Weldac	<u>7</u>	
P-Temp sk	<u>6</u>	
Pellets	<u>12</u>	<u>PH-5.6 Brine Samples TAKEN F/10,331' - 8.5 - 18,000ppm</u>
K-SEAL	<u>10</u>	<u>PH 5.2-9.3 - 92,000ppm</u>
Fiber	<u>10</u>	
Sawdust	<u>6</u>	
Sealcase	<u>10</u>	
SPA	<u>1</u>	

H.T. - H.P. W/L: N/LINTEL

Field: SALTON SEA

MUD		RATES		Well <u>STATE 2-14</u>	
Wt. <u>8.7</u> lb/gal.	Penetration _____ ft/hr	No. days this well _____ Date <u>3-11-86</u>		Operator <u>Bechtel</u>	
Vis. <u>32</u> Sec. <u>6</u> PV <u>4</u> YP	Bit Weight <u>15</u> M.lbs	Rotary RPM <u>20</u>		Contractor <u>Cleveland Rig #6</u>	
W.L. <u>1/4</u> cc/30 Sand <u>1/4</u> %	Pump psi <u>550</u>	Pump SPM <u>40</u>		Today's depth <u>10,425</u>	
pH. <u>8.5</u> Ca+ <u>2112</u> PPM	Pump liners <u>7" x 16"</u>	Pump output = <u>346</u> GPM		Yesterday's depth <u>10,475</u>	
W.C. <u>9</u> /32" CL <u>16,920</u> PPM	Pump output = <u>346</u> GPM	Ann. Vel. = <u>179-247</u> ft/min.		Drilled _____ ft. in _____ hrs.	
Oil <u>TR</u> % Solids <u>3</u> % <u>12</u> lb/B*	Hours Running _____	Centrifuge = <u>0</u>		Last casing <u>9 5/8</u> " Depth <u>6,000</u>	
Temp. <u>120</u> °F, Gels = <u>4</u> /12	Reduced Pump Rate: _____ SPM = _____ psi	Rotating Hrs. this report = <u>1/2</u>		Cumulative rotating hours = _____	
ALK. (Pf) = <u>.05</u>					
K-ion = _____ PPM					
Na-ion = _____ PPM					
At Depth = _____ Ft.					

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
	8 1/2	STC	M-44N	OUT	RR.	10,331		0/0	Bridge				

BHA Length: 792.94 Ft., Consist of: 8 1/2" BIT - BIT Sub - float Sub - 16 x 5" H.W.
Jars (DOT) - 9 x 5" H.W. -

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 260,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units
	o	.		
				Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
				Coordinates: _____ M.D. _____ TVD _____
				Present operations: <u>P.O.H.</u>
				HOURS Operations last 24 Hours:
				<u>1/2 6-6:30 Spot LCM Pill @ 10,425'</u>
				<u>1/2 6:30-8 P.O.H. T/shoe</u>

Daily Cost: \$ _____	<u>2 8-10 Wait on LCM Pill & Build Mud Volume</u>
Cumulative Cost: \$ _____	<u>2 10-12 P.O.H.</u>
	<u>4 12-4 Rig up Schlumberger & Run E-Log</u>
Daily Mud Cost: \$ <u>9,459.62</u>	<u>Tool Stopped @ 8819 & Rig Down</u>
Cum. Mud Cost: \$ <u>391,086.20</u>	<u>1 4-5 R.I.H. T-3246 well started flowing</u>
	<u>1 5-6 Circ & Kill well @ 3246'</u>

MUD & CHEMICALS USED		
Sack Barite:	<u>64</u>	<u>1 7-8 Circ Bottom up</u>
Bulk Barite:		<u>1/2 8-8:30 R.I.H. T/6850'</u>
Gel: <u>Prefo</u>	<u>145</u>	<u>1/2 8:30-9 Ream Bridge @ 6850' - 6950'</u>
Caustic Soda:	<u>10</u>	<u>1 9-10 R.I.H. T/10,331'</u>
Lignite:		<u>5 10-3 Circ & Cond Mud @ 10,331' - well trying</u>
T-Gel	<u>23</u>	<u>To flow</u>
Buzan	<u>3</u>	<u>3 3-6 P.O.H. @ 6:00 AM</u>
Weldpac	<u>7</u>	
P-Temp sk	<u>6</u>	<u>04-5.6</u>
Pellets	<u>12</u>	<u>Same samples taken F/10331' - 2.5 - 18,000ppm</u>
K-Seal	<u>10</u>	<u>F/5.2-9.3 - 22,000ppm</u>
Fiber	<u>10</u>	
Sawdust	<u>6</u>	
Scalex	<u>10</u>	
SPA	<u>1</u>	

H.T. H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>8.9</u> lb/gal. Vis. <u>36</u> Sec. <u>9</u> PV <u>5</u> YP W.L. <u>22</u> cc/30 Sand <u>12</u> % pH. <u>11.4</u> Ca+ <u>1200</u> PPM W.C. <u>1</u> /32" CL- <u>9,300</u> PPM Oil <u>2</u> % Solids <u>4</u> % <u>14</u> lb/B* Temp. <u>110</u> °F, Gels = <u>21</u> ALK. (Pf) = <u>.20</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration _____ ft/hr Bit Weight _____ M.lbs Rotary RPM _____ Pump psi <u>250</u> Pump SPM <u>40</u> Pump liners <u>7" x 16"</u> Pump output = <u>346</u> GPM Ann. Vel. = <u>179-247</u> ft/min. Hours Running _____ Centrifuge = _____ Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>3-12-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>10,475'</u> Yesterday's depth <u>10,475'</u> Drilled _____ ft. in _____ hrs. Last casing <u>9 5/8</u> " Depth <u>6000</u> Rotating Hrs. this report = _____ Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	

BHA Length: _____ Ft., Consist of: OPEN END Drill Pipe

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 235,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units	
	o	o		Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.	
				Coordinates: _____ M.D. _____ TVD _____	
				Present operations: <u>P.O.H. w/plugged D.P.</u>	

HOURS	Operations last 24 Hours:
4	6-10 P.O.H. - R.I.H. w/open end D.P. T/10414

Daily Cost: \$	1 1/2	10-11:30	Circ F/CMT @ 10414'
Cumulative Cost: \$	1	11:30-12:30	Rig up Haliburton Set plug w/10414'
Daily Mud Cost: \$ <u>6835⁰⁶</u>			Ta 10114' w/ 25% RT H ₂ O - 56% (118% G" + 1.1 Pcelite + 3% Gel + 40% Silica Flocc + .65% BLCER-2 + 2.5% HR-12 + 1% Haladex
Cum. Mud Cost: \$ <u>397,921²⁶</u>			2.12 yd 13.5 PPG - 10% RT H ₂ O - Displaced w/ 99.5% RT mud CIP @ 1:45 PM

MUD & CHEMICALS USED		HOURS	Operations last 24 Hours:
Sack Barite:	<u>500</u>	1/2	12:30-1 P.O.H. T/ 9914'
Bulk Barite:	<u>5</u>	1-6	Circ @ 9914' Cond Mud & W.O.C.
Gel:	<u>Perfor 20</u>	1/2	6-6:30 R.I.H. CK F/Plug No plug T/10414'
Caustic Soda:	<u>10</u>	4	6:30-10:30 Circ @ 10414' Wait F/CMT.
Lignite:		1 1/2	10:30-12 Rig up Haliburton + Set plug (Same as above) CIP @ 12:15 AM
T. Gel	<u>10</u>		
T-Plux	<u>5</u>	1 1/2	12-12:30 P.O.H. T/ 9885'
welpac	<u>5</u>	2 1/2	12:30-3 Circ & Cond Mud @ 9885'
P-Temp sx	<u>2</u>	1	3-4 R.I.H. T/ 10414' - Try Circ (Pipe plugged)
Nib-A	<u>2</u>		P.O.H. T/ 9800' - Try Circ (Pipe plugged)
TBP	<u>5</u>	2	4-6 P.O.H. (wet) @ 6:00 AM
Soda Ash	<u>10</u>	24	TOTAL HOURS
Bi Carb	<u>14</u>		

H.T. - H.P. W/L: N/C

Field: SALTON SEA

Wt. <u>8.8</u> MUD lb/gal. Vis. <u>34</u> Sec. <u>8</u> PV <u>4</u> YP W.L. <u>48.0</u> cc/30 Sand <u>1/2</u> % pH. <u>9.9</u> Ca+ <u>244</u> PPM W.C. <u>3</u> 1/32" CL <u>5,200</u> PPM Oil <u>1</u> % Solids <u>4</u> % <u>12</u> lb/B* Temp. <u>120</u> °F, Gels = <u>2.16</u> ALK. (Pf) = <u>.03</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>0</u> ft/hr Bit Weight _____ M.lbs Rotary RPM _____ Pump psi <u>400</u> Pump SPM <u>40</u> Pump liners <u>6" X 16"</u> Pump output = <u>346</u> GPM Ann. Vel. = <u>179-247</u> ft/min. Hours Running _____ Centrifuge = _____ Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>3-13-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>10,475'</u> Yesterday's depth <u>10,475'</u> Drilled <u>0</u> ft. in <u>0</u> hrs. Last casing <u>9-5/8</u> " Depth <u>6000'</u> Rotating Hrs. this report = <u>0</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	
	<u>8 1/2</u>	<u>sec BB8516 M449</u>	<u>M449</u>	<u>OUT</u>	<u>RR</u>	<u>10,475</u>	<u>C/O</u>							

BHA Length: 8,52.15 Ft., Consist of: 8 1/2" Bit^{RE}-Bit Sub-Ø Sub-18 X 5" H.W.
JARS (DOT) - 9 X 5" H.W. -

BHA Wt. In Mud: _____ Lb.

Total String Wt.: 250,000 Lb.

Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units
			Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
			Coordinates: _____ M.D. _____ TVD _____
			Present operations: <u>Mix LCM P. 11 @ 8000'</u>

HOURS	Operations last 24 Hours:
<u>4 1/2</u>	<u>6-10:30 P.O.H. (wet) - Lay Down 42 JOINTS</u> <u>5" D.P. Plugged w/CMT.</u>
<u>10 1/2</u>	<u>10:30-9 Rig up USGS Wire Line UNIT & RUN</u> <u>Temp Survey & Caliper Stopped @ 8700'</u> <u>RUN TELEVIEWER & Rig DOWN</u>
<u>2 1/2</u>	<u>9-11:30 R.I.H. T/ Shoe w/ 8 1/2" BIT</u> <u>1 11:30-12:30 Circ @ shoe w/ full RETURNS</u>
<u>1 1/2</u>	<u>12:30-2 R.I.H. T/ 10266' Tag plug w/ 20,000 WT.</u> <u>would NOT Pump AWAY.</u>
<u>2 1/2</u>	<u>2-4:30 Mix & spot LCM P. 11 @ 10,266' - LOST</u> <u>RETURNS while Displacing</u>
<u>1 1/2</u>	<u>4:30-5 P.O.H. T/ 9200' Try Circ - No Ret.</u>
<u>1</u>	<u>5-6 P.O.H. T/ 8000' Try Circ - No Ret.</u> <u>@ 6:00 AM Mixing LCM P. 11 @ 8000'</u>
<u>24</u>	<u>TOTAL HOURS</u>
	<u>Biozan 2</u>
	<u>Welpac 2</u>
	<u>Bicarb 10</u>
	<u>Pellets 10</u>
	<u>K-Seal 10</u>
	<u>Fiber 10</u>
	<u>SAWDUST 10</u>
	<u>SEAL EASE 10</u>

H.T. - H.P. W/L: N/C

Field: SALTON SEA

MUD		RATES		Well <u>STATE 2-14</u>	
Wt. <u>8.6</u> lb/gal.	Penetration _____ ft/hr	No. days this well _____	Date <u>3-14-86</u>		
Vis. <u>29</u> Sec. <u>2</u> PV <u>2.5</u> YP	Bit Weight _____ M.lbs	Operator <u>Bechtel</u>			
W.L. <u>41.5</u> cc/30 Sand <u>TR</u> %	Rotary RPM _____	Contractor <u>Cleveland Rig #6</u>			
pH. <u>9.8</u> Ca+ <u>120</u> PPM	Pump psi <u>200</u>	Today's depth <u>10,475'</u>			
W.C. <u>2</u> /32" CL <u>1500</u> PPM	Pump SPM <u>40</u>	Yesterday's depth <u>10,475'</u>			
Oil <u>TR</u> % Solids <u>3 1/2</u> % <u>10</u> lb/B°	Pump liners <u>6" x 16"</u>	Drilled _____ ft. in _____ hrs.			
Temp. <u>110</u> °F, Gels = <u>0.12</u>	Pump output = <u>252</u> GPM	Last casing <u>9 5/8"</u> " Depth <u>6000'</u>			
ALK. (PI) = <u>.03</u>	Ann. Vel. = <u>131-180</u> ft./min.	Rotating Hrs. this report = _____			
K-ion = _____ PPM	Hours Running _____	Cumulative rotating hours = _____			
Na-ion = _____ PPM	Centrifuge = _____				
At Depth = _____ Ft.	Reduced Pump Rate: _____ SPM = _____ psi				

BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	
	<u>8 1/2</u>	<u>Sec BB8516</u>	<u>M-44N</u>	<u>OUT</u>	<u>RR</u>	<u>10,475</u>	<u>C/O</u>							

BHA Length: 852.15 Ft., Consist of: 8 1/2" BIT^{RE} - BITsub-@ - 18X5" H.W. - JARS
(DOT) - 9X5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 240,000 Lb. Drilling Supervisor: G. W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units	
			Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.	Coordinates: _____ M.D. _____ TVD _____
			Present operations: <u>Circ. & Cond. mud @ shoe</u>	

HOURS	Operations last 24 Hours:
<u>1 1/2</u>	<u>6-7:30 Mix LCM Pill @ Spat @ 8000'</u>
<u>1</u>	<u>7:30-8:30 P.O.H. T/Shoe</u>

Daily Cost: \$ _____	<u>3 1/2</u>	<u>8:30-12 Mix Mud & Try Fill Hole w/100 Bbls & Fill Annulus w/ 215 Bbl. H₂O - Hole filled Circ. @ Shoe</u>
Cumulative Cost: \$ _____		
Daily Mud Cost: \$ <u>3,246¹²</u>	<u>1 1/2</u>	<u>12-1:30 R.I.H. T/10,200'</u>
Cum. Mud Cost: \$ <u>40,803³³</u>	<u>1/2</u>	<u>1:30-2 Spot LCM Pill @ 10,200'</u>
	<u>1 1/2</u>	<u>2-3:30 P.O.H. (wet) T/Shoe</u>

MUD & CHEMICALS USED			
Sack Barite:		<u>2 1/2</u>	<u>4-6:30 P.O.H.</u>
Bulk Barite:		<u>6 1/2</u>	<u>6:30-1 R/U USGS wire line & Run Acoustic Log (Hole taking 2-3 Bbl/hr) Well started T/Flow - Bullhead 100 Bbl T/Kill well</u>
Gel:	<u>31</u>		<u>CONT RUNNING Acoustic & Rig Down.</u>
Caustic Soda:	<u>2</u>		
Lignite:			
T-Gel	<u>120</u>	<u>2 1/2</u>	<u>1-3:30 w/well flowing mix & Bullhead 100 Bbls mud T/Kill - mixed 50 Bbl. 11 1/2 gal slug & Bullhead T/Kill</u>
T-Yis	<u>5</u>		
Pellets	<u>10</u>		
K-Seal	<u>30</u>	<u>2</u>	<u>3:30-5:30 R.I.H. T/Shoe</u>
Fiber	<u>30</u>	<u>1/2</u>	<u>5:30-6 Circ @ Shoe (well flowing) - Cond Mud @ 6:00 AM</u>
Sawdust	<u>30</u>		
Sealase	<u>14</u>	<u>24</u>	<u>TOTAL HOURS</u>

H.T. - H.P. W/L: N/C

Field: SALTON SEA

MUD Wt. <u>8.7</u> lb/gal. Vis. <u>37</u> Sec. <u>5</u> PV <u>10</u> YP W.L. <u>106</u> cc/30 Sand <u>1 1/2</u> % pH. <u>10.2</u> Ca+ <u>3100</u> PPM W.C. <u>6</u> /32" CL <u>21200</u> PPM Oil <u>2</u> % Solids <u>5</u> % <u>12</u> lb/B* Temp. <u>90</u> °F, Gels = <u>4.14</u> ALK. (Pf) = <u>.06</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration _____ ft/hr Bit Weight _____ M.lbs Rotary RPM _____ Pump psi <u>600</u> Pump SPM <u>47</u> Pump liners <u>6" x 16"</u> Pump output = <u>296</u> GPM Ann. Vel. = <u>154-212</u> ft/min. Hours Running _____ Centrifuge = <u>0</u> Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>3-15-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>10,475'</u> Yesterday's depth <u>10,475'</u> Drilled _____ ft. in _____ hrs. Last casing <u>9 5/8</u> " Depth <u>6000</u> Rotating Hrs. this report = _____ Cumulative rotating hours = _____
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION		
						FROM	TO				T	B	G
<u>45</u>	<u>8 1/2</u>	<u>Sec BB9516</u>	<u>M44N</u>	<u>OUT</u>	<u>RR</u>	<u>10475</u>	<u>C/O</u>						

BHA Length: 852.15 Ft., Consist of: 8 1/2" BIT-BIT Sub - @ - 18 X 5" H.W. - JARS (DOT) 9 X 5" H.W.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 255,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units
			Connection gas: Max. _____ units at _____ mud wt. _____ lb./Gal.
			Coordinates: _____ M.D. _____ TVD _____
			Present operations: <u>WAIT ON LCM P.I.I.</u>

HOURS	Operations last 24 Hours:
<u>5</u>	<u>6-11 Cond. Circ & Cond Mud @ Shoe</u>
<u>1/2</u>	<u>11-11:30 R.I.H. T/ 8000'</u>
<u>1 1/2</u>	<u>11:30-1 Circ & Cond Mud @ 8000'</u>
<u>1</u>	<u>1-2 R.I.H. T/ 10,100'</u>
<u>9</u>	<u>2-11 Circ & Cond Mud @ 10,100 (Well Trying To Flash-Flow) Max Recorded Temp = 210°F - WT. up Mud To Kill - Brine = 9.0ppm</u>
<u>1</u>	<u>11-12 Lost All Returns - Mix & Spot LCM Pill @ 10,100'</u>

MUD & CHEMICALS USED			
Sack Barite:	<u>375</u>	<u>1 1/2</u>	<u>12-1:30 P.O.H. T/ Shoe</u>
Bulk Barite:		<u>1 1/2</u>	<u>1:30-3 Mix & Spot LCM Pill @ Shoe</u>
Gel:		<u>2</u>	<u>3-5 Wait on LCM Pill & Build Mud Volume</u>
Caustic Soda:	<u>11</u>	<u>1</u>	<u>5-6 Try Fill Annulus w/ 200 Bbls H₂O (would NOT fill) @ 6:00 AM</u>
Lignite: DML #3	<u>24</u>		
T-Gel	<u>135</u>	<u>24</u>	<u>TOTAL HOURS</u>
BIOZAN	<u>4</u>		
Welpac	<u>8</u>		
P-Temp 3x	<u>2</u>		
Al-Steel	<u>1</u>		
C2H	<u>10</u>		
Pellets	<u>10</u>		
K-Seal	<u>10</u>		
Fiber	<u>10</u>		
Sawdust	<u>10</u>		
Sealase	<u>42</u>		
SPA	<u>8</u>		

H.T. - H.P. W/L: _____

Field: SALTON SEA

Wt. <u>8.5</u> MUD lb/gal. Vis. <u>29</u> Sec. <u>2</u> PV <u>3</u> YP W.L. <u>N/C</u> cc/30 Sand <u>TR</u> % pH. <u>8.0</u> Ca+ <u>640</u> PPM W.C. <u>N/C</u> 1/32" CL <u>3200</u> PPM Oil <u>0</u> % Solids <u>1</u> % <u>5</u> lb/B* Temp. <u>90</u> °F, Gels = <u>21</u> ALK. (Pft) = <u>0</u> K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration _____ ft/hr Bit Weight _____ M.lbs Rotary RPM _____ Pump psi _____ Pump SPM <u>30</u> Pump liners <u>6X16</u> Pump output = <u>189</u> GPM Ann. Vel. = <u>98-195</u> ft/min. Hours Running _____ Centrifuge = _____ Reduced Pump Rate = _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>3-16-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>10,475'</u> Yesterday's depth <u>10,475'</u> Drilled <u>0</u> ft. in <u>0</u> hrs. Last casing <u>7"</u> Depth <u>10,136'</u> <u>Top PBR (20') 5,735'</u> Rotating Hrs. this report = _____ Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	

BHA Length: _____ Ft., Consist of: Drill Pipe

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: _____ Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.	DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units	
			Connection gas: Max. _____ units at _____' mud wt. _____ lb./Gal.	Coordinates: _____ M.D. _____ TVD
			Present operations: <u>P.O.H. w/ Liner Running Tools</u>	
			HOURS	Operations last 24 Hours:
			<u>5</u>	<u>6-11 Wait on LCM Pill @ Shoe - Try fill Annulus (Filled w/ 214 Bbls) - Try Circ</u>
			<u>1</u>	<u>11-12 R.I.H. T/10,100'</u>
			<u>1</u>	<u>12-1 Spot LCM pill @ 10,100' w/ RETURNS</u>
			<u>1</u>	<u>1-2 P.O.H. T/Shoe</u>

Daily Cost: \$ _____				
Cumulative Cost: \$ _____	<u>1</u>	<u>11-12</u>	<u>R.I.H. T/10,100'</u>	
Daily Mud Cost: \$ <u>4,268⁴⁰</u>	<u>1</u>	<u>12-1</u>	<u>Spot LCM pill @ 10,100' w/ RETURNS</u>	
Cum. Mud Cost: \$ <u>425,160⁴²</u>	<u>3 1/2</u>	<u>2-5:30</u>	<u>Mix & Spot LCM pill @ Shoe - Well Trying To flow - Mix & Pumped 11.5 pp9 (70 Bbls)</u>	
MUD & CHEMICALS USED				
Sack Barite: <u>129</u>	<u>1 1/2</u>	<u>5:30-7</u>	<u>P.O.H.</u>	
Bulk Barite: <u>10</u>	<u>7-5</u>	<u>Rig up & Run 102 JTs (4361.77)</u>	<u>7" 29"</u>	
Gel: <u>Proteo 20</u>				<u>N-80 LTIC Liner w/ Guide Shoe To 10,136'</u>
Caustic Soda: <u>3</u>				<u>w/ Brown Oil Tools Liner Hanger & PACKER</u>
Lignite: _____				<u>20' PBR w/ Top @ 5,735' - Thread Locked</u>
T-Gel <u>232</u>				<u>1 Tack welded First 10 Joints</u>
T-Vis <u>5</u>	<u>1/2</u>	<u>5:5:30</u>	<u>Set Liner Hanger - Release Liner - Set</u>	
Biozan <u>2</u>				<u>Packer</u>
Welpac <u>1</u>	<u>1/2</u>	<u>5:30-6</u>	<u>P.O.H. @ 6:00 AM</u>	
C.S.H. <u>10</u>	<u>24</u>	<u>TOTAL HOURS</u>		
K-Seal <u>35</u>				
Fiber <u>35</u>				
Sawdust <u>15</u>				

H.T. - H.P. W/L: N/C

Field: SALTED SEA

MUD Wt. <u>8.8</u> lb/gal. Vis. <u>28</u> Sec. <u>2</u> PV <u>1</u> YP W.L. <u>200</u> cc/30 Sand <u>72</u> % pH. <u>7.7</u> Cat. <u>576</u> PPM W.C. <u>2</u> 1/32" CL <u>2400</u> PPM Oil - % Solids <u>1</u> % - lb/B* Temp. <u>70</u> °F, Gels = <u>0.1</u> ALK. (Pf) = <u>0</u> K-ion = _____ PPM Na-ion = _____ PPM At Depth = _____ Ft.		RATES Penetration _____ ft/hr Bit Weight <u>0-5</u> M.lbs Rotary RPM <u>50</u> Pump psi <u>400</u> Pump SPM <u>30</u> Pump liners <u>6" X 16"</u> Pump output = <u>214</u> GPM Ann. Vel. = <u>-366</u> ft/min. Hours Running _____ Centrifuge = _____ Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>3-17-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>10,475'</u> Yesterday's depth <u>10,475'</u> Drilled _____ ft. in _____ hrs. Last casing <u>7"</u> Depth <u>10,136</u> <u>Top PBR @ 5,734'</u> Rotating Hrs. this report = <u>2 1/2</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/HR	CONDITION			
						FROM	TO				T	B	G	
61	6 1/8	Sec 339675	S-84F	OUT	N	10475								
61						10,136	10,475	C/O						

BHA Length: 696.76 Ft., Consist of: 6 1/8" BIT-BIT Sub-3 X 4 3/4" DC. - (X)
20X 3 1/2" H.W.D.P.

BHA Wt. In Mud: _____ Lb.

Total String Wt.: _____ Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas _____ units at _____ Ft. Avg. background gas _____ units
	o	.		
				Connection gas: Max. _____ units at _____' mud wt. _____ lb./Gal.
				Coordinates: _____ M.D. _____ TVD
				Present operations: <u>S.P.A.T. LCM Pill @ 10,136'</u>

HOURS	Operations last 24 Hours:
2	6-8 P.O.H. 4D Liner Running Tools
2	8-10 R/U T/4D D.P. + R.I.H.
2 1/2	10-12:30 w/ Well flowing Mix + Displace Slug T/4D D.P.
3 1/2	12:30-4 P.O.H. 4D 5" D.P. - 5" H.W. - 6 1/4" DC.
8	4-12 Measure 3 1/2" D.P. - H.W. - DC. R/U + Run w/ BIT #61
2	12-2 R.I.H. w/ 5" D.P.
1/2	2-2:30 Brk Circ @ 10,136'
2 1/2	2:30-5 Drill out 7" shoe @ 10,136' + Cm.T. Stringers T/10,475' - Lost Returns After Drilling out shoe
1/2	5-5:30 P.O.H. T/shoe
1/2	5:30-6 Mix LCM Pill @ 6:00 AM
24	TOTAL Hours

MUD & CHEMICALS USED
 Sack Barite: 373
 Bulk Barite: _____
 Gel: _____
 Caustic Soda: _____
 Lignite: _____
 T-Gel 414

H.T. - H.P. W/L: _____

Field: SALTON SEA

MUD Wt. <u>8.4</u> lb/gal. Vis. <u>26</u> Sec. - PV - YP W.L. <u>0</u> cc/30 Sand <u>0</u> % pH. <u>8.2</u> Ca+ <u>252</u> PPM W.C. <u>1/32</u> " CL <u>1100</u> PPM Oil <u>0</u> % Solids <u>0</u> % lb/B* Temp. <u>0</u> °F, Gels = <u>0.10</u> ALK. (Pf) = _____ K+ion = _____ PPM Na+ion = _____ PPM At Depth = _____ Ft.		RATES Penetration <u>9.3</u> ft/hr Bit Weight <u>10</u> M.lbs Rotary RPM <u>45/50</u> Pump psi <u>1600</u> Pump SPM <u>48</u> Pump liners <u>6" x 16"</u> Pump output = <u>302</u> GPM Ann. Vel. = <u>293.516</u> ft/min. Hours Running _____ Centrifuge = _____ Reduced Pump Rate: _____ SPM = _____ psi		Well <u>STATE 2-14</u> No. days this well _____ Date <u>3-18-86</u> Operator <u>Bechtel</u> Contractor <u>Cleveland Rig #6</u> Today's depth <u>10,564'</u> Yesterday's depth <u>10,475'</u> Drilled <u>89'</u> ft. in <u>9 1/2</u> hrs. Last casing <u>7"</u> Depth <u>10,136'</u> <u>Top @ 5734'</u> Rotating Hrs. this report = <u>9 1/2</u> Cumulative rotating hours = _____	
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BIT NO.	SIZE	MAKE & SERIAL NO.	TYPE	JET SIZES	NEW USED	INTERVAL		FEET DRLD.	HOURS	RATE FT/MR	CONDITION		
						FROM	TO				T	B	G
61	6 1/8"	Sec. 339675	S-84-F	OUT	N	10,475'	10,564'	89	9 1/2	9.3			

BHA Length: 696.76 Ft. Consist of: 8 1/2" BIT-BIT sub-3 x 4 3/4" DC - (X) - 20 x 3 1/2"
H.W.D.P.

BHA Wt. In Mud: _____ Lb.
 Total String Wt.: 235,000 Lb. Drilling Supervisor: G.W. Reich

DEPTH	DEV.		DIRECTION	Trip gas units at Ft. Avg. background gas units Connection gas: Max. units at mud wt. lb./Gal. Coordinates: M.D. TVD Present operations: <u>Kill well T/LD D.P.</u>
	o			

HOURS	Operations last 24 Hours:
4	6-10 Mix & Spot LCM Pill @ 10,136' - WAIT ON LCM - Fill Annulus w/ H ₂ O (21786)

Daily Cost: \$	1/2 10-10:30 R.I.H. T/10,475'
Cumulative Cost: \$	9 1/2 10:30-8 Drill 6 1/8" Hole F/10,475' To 10,564' (RETURNS)
Daily Mud Cost: \$ 3,505.51	4 1/2 8-12:30 Rig up & L/D 5" D.P.
Cum. Mud Cost: \$ 433,002.68	1 12:30-1:30 Well started Flowing Mix & Pump slug to Kill
	2 1:30-3:30 CONT. L/D D.P.

MUD & CHEMICALS USED		HOURS	Operations last 24 Hours:
Sack Barite:	359	1/2	3:30-4 Well started Flowing Mix & Pump slug T/Kill
Bulk Barite:		1	4-5 CONT. L/D D.P.
Gel:	Profer 28	1	5-6 Well started Flowing Mix & Pump slug T/Kill @ 6:00AM
Caustic Soda:			
Lignite:		24	TOTAL HOURS
T-Gel	90		
K-Seal	10		
Fiber	12		
Sawdust	25		

