



Mailing Address: 1199 West 980 North
 St. George, Utah 84770
 Phone (801) 673-3526

CLIENT BRACE
 PROJECT Denio New
 CLIENT REP. _____

GLOIDB

Date: <u>9-20-82</u> Hole# _____		Rig# <u>11</u>	Driller: <u>JD</u>	Supervisor: <u>DW</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
8:11			<i>moved rig & equip to Denio from re-instrument had to make 2 trips</i>	1. Crew Travel To Site 2. Rig Up 3. Reenter Hole 4. Drilling 5. Pull Pipe 6. Mix Mud & Fill 7. Coring 8. Install Casing/Pipe 9. Cementing 10. Rig Down 11. Move Rig to New Site 12. Maintenance 13. Standby (Explain) 14. Other (Explain) 15. Logging 16. Water Trip
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Mailing Address: 1190 West 980 North
St. George, Utah 84770
Phone (801) 673-3526

CLIENT GLACE
PROJECT Denio New
CLIENT REP. _____

Date: <u>9-22-82</u> Hole # _____ Rig # <u>11</u> Driller: <u>JD</u> Supervisor: <u>DW</u>				
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
7:11			<u>Cont to rig up</u>	1. Crew Travel To Site
8:12		<u>Dug 2nd Pit</u>		2. Rig Up
9				3. Reenter Hole
10			4. Drilling	
11			5. Pull Pipe	
12			6. Mix Mud & Fill	
1			7. Coring	
2			8. Install Casing/Pipe	
3			9. Cementing	
4			10. Rig Down	
5			11. Move Rig to New Site	
6			12. Maintenance	
7			13. Standby (Explain)	
8			14. Other (Explain)	
9			15. Logging	
10			16. Water Trip	
MATERIALS USED				
Mud _____ sacks				
LC _____ Type _____				
_____ / sacks				
_____ / sacks				
Viscose _____ / 50 Lb.				
Cement _____ / 100 Lb.				
Diesel _____ / Gal.				
Foamer _____ / Gal.				
Detergent _____ / Gal.				
Other _____				
CREW HOURS				
Driller _____				
Helper _____				
Helper _____				
Helper _____				
WATER TRIP MILES - _____				

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Form No. 672-
Creative Impressions—St. George, Utah—673-6646

D.D.W.

Date: <u>9-23-82</u> Hole # _____ Rig # <u>11</u> Driller: <u>JD</u> Supervisor: <u>DW</u>				
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
7:11			<u>finished digging #2</u>	1. Crew Travel To Site
8:12				<u>pit - hauled water</u>
9			<u>mixed mud</u>	
10				<u>sent float to</u>
11			<u>with 2 men after</u>	
12				<u>Casing</u>
1			<u>Poly Case - 1</u>	
2				<u>rock wash - 100 lbs</u>
3			<u>JD 9</u>	
4				<u>RO 9</u>
5			<u>PA 13</u>	
6				<u>EL 13</u>
7			<u>JW 9</u>	
8				<u>70-5 trips</u>
9				
10				
MATERIALS USED				
Mud <u>30</u> sacks				
LC _____ Type _____				
_____ / sacks				
_____ / sacks				
Viscose _____ / 50 Lb.				
Cement _____ / 100 Lb.				
Diesel _____ / Gal.				
Foamer _____ / Gal.				
Detergent _____ / Gal.				
Other _____				
CREW HOURS				
Driller _____				
Helper _____				
Helper _____				
Helper _____				
WATER TRIP MILES - <u>70-5 trips</u>				

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ " Approved _____

Approved Client Representation



Mailing Address: 1190 West 980 North
St. George, Utah 84770
Phone (801) 673-3526

CLIENT: Caracis
PROJECT: Denio New
CLIENT REP: _____

Date: <u>9-24-82</u>		Hole#	Rig# <u>11</u>	Driller: <u>JD</u>	Supervisor:
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
7 11	1	6	stirred up mud pits	1. Crew Travel To Site	
8 12			spud in 4 1/2"	2. Rig Up	
9 1			bit - drilled 36'	3. Reenter Hole	
10 2			hole & cased with	4. Drilling	
11 3			38' of 12 1/4" mixed	5. Pull Pipe	
12 4			cement & pumped down	6. Mix Mud & Fill	
1 5			outside of casing	7. Coring	
2 6			bit & installed	8. Install Casing/Pipe	
3 7			line	9. Cementing	
4 8				10. Rig Down	
5 9				11. Move Rig to New Site	
6 10				12. Maintenance	
7 11				13. Standby (Explain)	
8 12				14. Other (Explain)	
9 1				15. Logging	
10 2				16. Water Trip	
				MATERIALS USED	
				Mud _____ sacks	
				LC _____ Type _____	
				_____ / sacks	
				_____ / sacks	
				_____ / sacks	
				Viscose _____ / 50 Lb.	
				Cement <u>20</u> / 100 Lb.	
				Diesel _____ / Gal.	
				Foamer _____ / Gal.	
				Detergent _____ / Gal.	
				Other _____	
				CREW HOURS	
				Driller <u>1</u>	
				Helper <u>1</u>	
				Helper <u>1</u>	
				Helper <u>1</u>	
				Water Trip Miles -	
				MB 8 1/2 JD 8 1/2	
				KS 8 1/2 DO 8 1/2	
				JW 8 1/2 OR 8 1/2	
				EL 8 1/2	

Date:		Hole#	Rig#	Driller:	Supervisor:
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
1 11				1. Crew Travel To Site	
2 12				2. Rig Up	
3 1				3. Reenter Hole	
4 2				4. Drilling	
5 3				5. Pull Pipe	
6 4				6. Mix Mud & Fill	
7 5				7. Coring	
8 6				8. Install Casing/Pipe	
9 7				9. Cementing	
10 8				10. Rig Down	
11 9				11. Move Rig to New Site	
12 10				12. Maintenance	
1 11				13. Standby (Explain)	
2 12				14. Other (Explain)	
3 1				15. Logging	
4 2				16. Water Trip	
				MATERIALS USED	
				Mud _____ sacks	
				LC _____ Type _____	
				_____ / sacks	
				_____ / sacks	
				_____ / sacks	
				Viscose _____ / 50 Lb.	
				Cement _____ / 100 Lb.	
				Diesel _____ / Gal.	
				Foamer _____ / Gal.	
				Detergent _____ / Gal.	
				Other _____	
				CREW HOURS	
				Driller _____	
				Helper _____	
				Helper _____	
				Helper _____	
				Water Trip Miles -	

Footage: FROM 0 ' TO 41 ' TOTAL FOOTAGE _____ ' AIR _____ MUD 1 HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

D.R.W.

Form No. 672-
Creative Impressions—St. George, Utah—673-6646

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Approved _____
Approved Client Representative



Mailing Address: 1199 West 980 North
 St. George, Utah 84770
 Phone (801) 673-3526

CLIENT: GRACE
 PROJECT: DENIO NEV
 CLIENT REP. _____

Date: <u>9-25-82</u>		Hole#	Rig# <u>11</u>	Driller: <u>JP</u>	Supervisor: <u>DW</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11					1. Crew Travel To Site
12					2. Rig Up
					3. Reenter Hole
					4. Drilling
1					5. Pull Pipe
					6. Mix Mud & Fill
					7. Coring
					8. Install Casing/Pipe
2					9. Cementing
					10. Rig Down
					11. Move Rig to New Site
					12. Maintenance
3					13. Standby (Explain)
					14. Other (Explain)
					15. Logging
4					16. Water Trip
					MATERIALS USED
5					Mud <u>20</u> sacks
					LC _____ Type _____
6	<u>14</u>		<u>Picks up bottom hole</u>	<u>CMC 11</u> sacks	
			<u>assembly of water hole</u>	<u>1</u> sacks	
7	<u>4</u>	<u>36'</u>	<u>at top pipe</u>	<u>1</u> sacks	
	<u>2</u>	<u>47'</u>	<u>mix mud</u>	Viscose <u>150</u> Lb.	
8	<u>4</u>			Cement <u>100</u> Lb.	
	<u>2</u>			Diesel <u>1</u> Gal.	
9	<u>4</u>			Foamer <u>1</u> Gal.	
	<u>2</u>	<u>66'</u>		Detergent <u>1</u> Gal.	
10	<u>6</u>		<u>mix mud - unable to</u>	Other _____	
	<u>4</u>		<u>make cone</u>		
11	<u>87'</u>			CREW HOURS	
				Driller <u>JD 6</u>	
12				Helper <u>DD 6</u>	
				Helper <u>DR 6</u>	
				Helper <u>FK 6</u>	
				WATER TRIP MILES -	

Footage: FROM 36' TO 87' TOTAL FOOTAGE 41 AIR _____ MUD _____ HAMMER _____

Bit 138.558 changed at 36' Size 93/4 FPSIT cutting

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____

Form No. 572-
 Creative Impressions—St. George, Utah—673-6646

D.R.W.

Date: <u>9-25-82</u>		Hole#	Rig# <u>11</u>	Driller: <u>MB</u>	Supervisor: <u>DW</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11					1. Crew Travel To Site
12	<u>4</u>	<u>87</u>	<u>Drilling</u>		2. Rig Up
	<u>6</u>		<u>Mix Mud unable to make cone</u>		3. Reenter Hole
	<u>7</u>	<u>107</u>			4. Drilling
	<u>2</u>				5. Pull Pipe
	<u>2</u>	<u>127</u>			6. Mix Mud & Fill
2	<u>12</u>		<u>Replaced U Joint</u>		7. Coring
	<u>4</u>		<u>Ratery table Drive Line</u>		8. Install Casing/Pipe
3	<u>4</u>				9. Cementing
	<u>3</u>	<u>147</u>	<u>Left to Check Bit</u>		10. Rig Down
	<u>3</u>		<u>RHT w/ 9 7/8 Bit</u>		11. Move Rig to New Site
4	<u>14</u>		<u>Ream Hole From</u>		12. Maintenance
			<u>36 ft TO 147</u>		13. Standby (Explain)
5	<u>4</u>		<u>Drilling</u>		14. Other (Explain)
	<u>2</u>	<u>167</u>			15. Logging
6					16. Water Trip
					MATERIALS USED
7					Mud <u>6</u> sacks
					LC _____ Type _____
8					_____ / sacks
					_____ / sacks
9					Viscose <u>150</u> Lb.
					Cement <u>100</u> Lb.
10					Diesel <u>1</u> Gal.
					Foamer <u>1</u> Gal.
11					Detergent <u>1</u> Gal.
					Other _____
12					CREW HOURS
					Driller <u>MB 12</u>
					Helper <u>AS 12</u>
					Helper <u>WJ 12</u>
					Helper <u>BC 12</u>
					WATER TRIP MILES -

Footage: FROM 87 TO 190 TOTAL FOOTAGE 103 AIR _____ MUD ✓ HAMMER _____

Bit 7199 changed at _____ Size 9 7/8 FPSIT Button

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____ Approved _____



Mailing Address: 1199 West 900 North
St. George, Utah 84770
Phone (801) 873-3528

CLIENT: GRACE
PROJECT: DENID NEV
CLIENT REP: _____

Date: <u>9-26-82</u> Hole # _____		Rig # <u>11</u>	Driller: <u>JD</u>	Supervisor: <u>DW</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
12	4	190		
1				
2	5	200		
3	12		POH to check bit	
4	4		adjust rotary table	
5			check linkage	
6	4		BLH	
7				
8	4	207		
9	6		mix mud - suitable to	
10			make corner	
11	5		POH - 2' up & down	
12	3		stabilizer	
1	4		BLH	
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CLIENT _____
PROJECT _____
CLIENT REP. _____

Date: 9-27-82 Hole # 45-14 Rig # 11 Driller: JD Supervisor: DW

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
		280		1. Crew Travel To Site 2. Rig Up 3. Reenter Hole 4. Drilling 5. Pull Pipe 6. Mix Mud & Fill 7. Coring 8. Install Casing/Pipe 9. Cementing 10. Rig Down 11. Move Rig to New Site 12. Maintenance 13. Standby (Explain) 14. Other (Explain) 15. Logging 16. Water Trip
		297		
	4			MATERIALS USED
				Mud <u>17</u> sacks
				LC _____ Type _____
	6	312	lost 1/2 circ. - add water to mix mud + LCM	Bars 14 sacks
				_____ 1 sacks
				_____ 1 sacks
				Viscose _____ / 50 Lb.
				Cement _____ / 100 Lb.
				Diesel _____ / Gal.
				Foamer _____ / Gal.
				Detergent _____ / Gal.
				Other _____
				CREW HOURS
				Driller <u>JD 12</u>
				Helper <u>BO 12</u>
				Helper <u>BA 12</u>
				Helper <u>EW 12</u>
				WATER TRIP MILES -

Footage: FROM 280 TO 337 TOTAL FOOTAGE 57 AIR _____ MUD X HAMMER _____
 Bit _____ changed at _____ Size _____"
 Bit _____ changed at _____ Size _____"
 Bit _____ changed at _____ Size _____"

Form No. 572-
Creative Impressions—St. George, Utah—873-6646

Date: 9-27-82 Hole # 45-14 Rig # 11 Driller: MB Supervisor: DW

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
		337		1. Crew Travel To Site 2. Rig Up 3. Reenter Hole 4. Drilling 5. Pull Pipe 6. Mix Mud & Fill 7. Coring 8. Install Casing/Pipe 9. Cementing 10. Rig Down 11. Move Rig to New Site 12. Maintenance 13. Standby (Explain) 14. Other (Explain) 15. Logging 16. Water Trip
		357		
		377		
		394		
				MATERIALS USED
				Mud <u>6</u> sacks
				LC _____ Type _____
				_____ 1 sacks
				_____ 1 sacks
				Viscose _____ / 50 Lb.
				Cement _____ / 100 Lb.
				Diesel _____ / Gal.
				Foamer _____ / Gal.
				Detergent _____ / Gal.
				Other _____
				CREW HOURS
				Driller <u>MB 12</u>
				Helper <u>BO 12</u>
				Helper <u>W 12</u>
				Helper <u>EG 12</u>
				WATER TRIP MILES -

Footage: FROM 337 TO 394 TOTAL FOOTAGE 67 AIR _____ MUD X HAMMER _____
 Bit _____ changed at _____ Size _____"
 Bit _____ changed at _____ Size _____"
 Bit _____ changed at _____ Size _____" Approved _____

Approved Client Representative



Mailing Address: 1100 West 900 North
 St. George, Utah 84770
 Phone (801) 673-3526

CLIENT _____
 PROJECT _____
 CLIENT REP. _____

Date: 9-28-82 Hole# _____ Rig# 11 Driller: JD Supervisor: DW

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
12	<u>4</u>	<u>394</u>		
1	<u>6</u>	<u>397</u>	<u>mix mud</u>	
2				
3				
4				
5	<u>4</u>	<u>407</u>		
6	<u>5</u>		<u>Port to Pick up Stabilizer</u>	
7	<u>3</u>		<u>Bit - unable to get stab</u>	
8	<u>5</u>		<u>in hole</u>	
9	<u>14</u>		<u>port to pick up hole opener</u>	
10			<u>make up hole opener</u>	
11				
12				
1				

LOG REFERENCE #

- Crew Travel To Site
- Rig Up
- Reenter Hole
- Drilling
- Pull Pipe
- Mix Mud & Fill
- Coring
- Install Casing/Pipe
- Cementing
- Rig Down
- Move Rig to New Site
- Maintenance
- Standby (Explain)
- Other (Explain)
- Logging
- Water Trip

MATERIALS USED

Mud _____ sacks

LC _____ Type _____

_____ / sacks

_____ / sacks

_____ / sacks

Viscose _____ / 50 Lb.

Cement _____ / 100 Lb.

Diesel _____ / Gal.

Foamer _____ / Gal.

Detergent _____ / Gal.

Other _____

CREW HOURS

Driller JD 12

Helper BR 12

Helper DR 13

Helper ER 12

WATER TRIP MILES - _____

Date: 9-28-82 Hole# 45-14 Rig# 11 Driller: MBS Supervisor: DW

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
12	<u>1</u>			
1			<u>Pressing Hole opener</u>	
2	<u>8</u>		<u>reaming hole</u>	
3	<u>14</u>		<u>w/ Hole opener</u>	
4				
5				
6				
7				
8				
9				
10				
11				
12				
1				

LOG REFERENCE #

- Crew Travel To Site
- Rig Up
- Reenter Hole
- Drilling
- Pull Pipe
- Mix Mud & Fill
- Coring
- Install Casing/Pipe
- Cementing
- Rig Down
- Move Rig to New Site
- Maintenance
- Standby (Explain)
- Other (Explain)
- Logging
- Water Trip

MATERIALS USED

Mud _____ sacks

LC _____ Type _____

_____ / sacks

_____ / sacks

_____ / sacks

Viscose _____ / 50 Lb.

Cement _____ / 100 Lb.

Diesel _____ / Gal.

Foamer _____ / Gal.

Detergent _____ / Gal.

Other _____

CREW HOURS

Driller MBS 12

Helper ER 10

Helper DR 10

Helper BR 13

WATER TRIP MILES - _____

Footage: FROM 394 TO 407 TOTAL FOOTAGE 13 AIR _____ MUD X HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Form No. 572-

Footage: FROM 407 TO _____ TOTAL FOOTAGE _____ AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ " Approved _____



Mailing Address: 1199 West 960 North
St. George, Utah 84770
Phone (801) 673-3526

CLIENT: BRACE
PROJECT: DEWID SET
CLIENT REP. _____

Date: 7-29-82 Hole# 45-14 Rig# 11 Driller: JD Supervisor: DW

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
				1. Crew Travel To Site
				2. Rig Up
				3. Reenter Hole
				4. Drilling
				5. Pull Pipe
				6. Mix Mud & Fill
				7. Coring
				8. Install Casing/Pipe
				9. Cementing
				10. Rig Down
				11. Move Rig to New Site
				12. Maintenance
				13. Standby (Explain)
				14. Other (Explain)
				15. Logging
				16. Water Trip
				MATERIALS USED
				Mud <u>7</u> sacks
				LC _____ Type _____
				_____ 1 sacks
				_____ 1 sacks
				_____ 1 sacks
				Viscose _____ 150 Lb.
				Cement _____ 100 Lb.
				Diesel _____ 1 Gal.
				Foamer _____ 1 Gal.
				Detergent _____ 1 Gal.
				Other _____
				CREW HOURS
				Driller <u>JD 12</u>
				Helper <u>BO 12</u>
				Helper <u>DA 12</u>
				Helper <u>EA 12</u>
				WATER TRIP MILES - _____

REMARKS: reaming hole with hole opener
POLYCOHE 5gal
1/15-70 In. 58 out 72
out 11.3
Reamed pipe to 400' 12' 14"
Circ to clean hole
POH to lay down hole
opener
clean pit with holed
help with water & mix mud
9/4

Date: 9-29-82 Hole# 45-14 Rig# 11 Driller: MS Supervisor: DW

TEMP 100°
65°70
68°70

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
				1. Crew Travel To Site
				2. Rig Up
				3. Reenter Hole
				4. Drilling
				5. Pull Pipe
				6. Mix Mud & Fill
				7. Coring
				8. Install Casing/Pipe
				9. Cementing
				10. Rig Down
				11. Move Rig to New Site
				12. Maintenance
				13. Standby (Explain)
				14. Other (Explain)
				15. Logging
				16. Water Trip
				MATERIALS USED
				Mud <u>5</u> sacks
				LC _____ Type _____
				_____ 1 sacks
				_____ 1 sacks
				_____ 1 sacks
				Viscose _____ 150 Lb.
				Cement _____ 100 Lb.
				Diesel _____ 1 Gal.
				Foamer _____ 1 Gal.
				Detergent _____ 1 Gal.
				Other _____
				CREW HOURS
				Driller <u>MS 12</u>
				Helper <u>TS</u>
				Helper <u>DA 12</u>
				Helper <u>BO 12</u>
				WATER TRIP MILES - _____

REMARKS: Drilling
POH to lay down stabilize
Checked bit in Rig
RTH
Drilling 1/15-56
Mix Mud out 58
WT 11
PH 9

Footage: FROM _____ TO _____ TOTAL FOOTAGE _____ AIR _____ MUD 8 HAMMER _____
Bit _____ changed at _____ Size _____"
Bit _____ changed at _____ Size _____"
Bit _____ changed at _____ Size _____"
Form No. 672-
Creative Impressions—St. George, Utah—673-6646

D.A.C.

Footage: FROM 427 TO 427 TOTAL FOOTAGE 14 AIR _____ MUD _____ HAMMER _____
Bit _____ changed at _____ Size _____"
Bit _____ changed at _____ Size _____"
Bit _____ changed at _____ Size _____" Approved _____



Mailing Address: 1190 West 980 North
St. George, Utah 84770
Phone (801) 873-3526

CLIENT BURCE
PROJECT Denio Jet
CLIENT REP. _____

Date: 9-30-82 Hole # 45-14 Rig # 11 Driller: JD Supervisor: DW

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11	4	421		1. Crew Travel To Site 2. Rig Up 3. Reenter Hole 4. Drilling 5. Pull Pipe 6. Mix Mud & Fill 7. Coring 8. Install Casing/Pipe 9. Cementing 10. Rig Down 11. Move Rig to New Site 12. Maintenance 13. Standby (Explain) 14. Other (Explain) 15. Logging 16. Water Trip
12				
1				
2				
3				
4				
5		437		MATERIALS USED Mud _____ sacks LC _____ Type _____ _____ 1 sacks _____ 1 sacks _____ 1 sacks Viscose _____ / 50 Lb. Cement _____ / 100 Lb. Diesel _____ / Gal. Foamer _____ / Gal. Detergent _____ / Gal. Other _____
6			Vis - On 45 - out 44 Temp 52 71° Pd 9 WT - 11	
7				
8				
9	5	442	Port to pack up atack bit hole open	
10				
11	14		make up hole opposite & close bit	CREW HOURS Driller <u>JD 12</u> Helper <u>BO 12</u> Helper <u>DB 12</u> Helper <u>EL 12</u>
12				
1			WATER TRIP MILES -	

Footage: FROM 421 TO 442 TOTAL FOOTAGE 21 AIR _____ MUD HAMMER _____

Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____"

Form No. 572-

D.W.

Date: 9-21-82 Hole # 45-14 Rig # 11 Driller: MB Supervisor: DW

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				1. Crew Travel To Site 2. Rig Up 3. Reenter Hole 4. Drilling 5. Pull Pipe 6. Mix Mud & Fill 7. Coring 8. Install Casing/Pipe 9. Cementing 10. Rig Down 11. Move Rig to New Site 12. Maintenance 13. Standby (Explain) 14. Other (Explain) 15. Logging 16. Water Trip
12	14		Press Hole opens	
1				
2				
3				
4				
5	3		lay down top hole opposite unstable get through conductor casing & RTH	MATERIALS USED Mud _____ sacks LC _____ Type _____ _____ 1 sacks _____ 1 sacks _____ 1 sacks Viscose _____ / 50 Lb. Cement _____ / 100 Lb. Diesel _____ / Gal. Foamer _____ / Gal. Detergent _____ / Gal. Other _____
6	14		reaming Hole from 400 ft	
7				
8				
9			Vis - in 44 out 44 Pd 9 WT 11	
10			Temp in 62 out 64	
11				CREW HOURS Driller <u>MB 12</u> Helper <u>LD 12</u> Helper <u>LG 12</u> Helper <u>KS</u>
12				
1			WATER TRIP MILES -	

Footage: FROM 442 TO 442 TOTAL FOOTAGE _____ AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____"



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St. George, Utah 84770
Phone (801) 873-3526

OCT 24 1987

CLIENT _____
PROJECT _____
CLIENT REP. *Deirdra Hollen*

Date: *10-1-82* Hole# _____ Rig# *11* Driller: *JD* Supervisor: *DW*

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
12	<i>14</i>		<i>reaming hole</i>	
1				
2				
3				
4				
5				
6				
7				
8			<i>2 1/2 in. Dia 41 out 50</i>	
9			<i>Temp - 66 68</i>	
10			<i>Wt - 10.7</i>	
11			<i>PH - 9</i>	
12				
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11	<i>5</i>		<i>Per H LDDP to log hole</i>	
12				
1				

LOG REFERENCE #

- Crew Travel To Site
- Rig Up
- Reenter Hole
- Drilling
- Pull Pipe
- Mix Mud & Fill
- Coring
- Install Casing/Pipe
- Cementing
- Rig Down
- Move Rig to New Site
- Maintenance
- Standby (Explain)
- Other (Explain)
- Logging
- Water Trip

MATERIALS USED

Mud _____ sacks

LC _____ Type _____

_____ / sacks

_____ / sacks

_____ / sacks

Viscose _____ / 50 Lb.

Cement _____ / 100 Lb.

Diesel _____ / Gal.

Foamer _____ / Gal.

Detergent _____ / Gal.

Other _____

CREW HOURS

Driller *10 12*

Helper *10 12*

Helper *11 12*

Helper *11 12*

WATER TRIP MILES - _____

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Form No. 572-

Date: *10-1-82* Hole# *45-14* Rig# *11* Driller: *MB* Supervisor: *DW*

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
12				
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
1				

LOG REFERENCE #

- Crew Travel To Site
- Rig Up
- Reenter Hole
- Drilling
- Pull Pipe
- Mix Mud & Fill
- Coring
- Install Casing/Pipe
- Cementing
- Rig Down
- Move Rig to New Site
- Maintenance
- Standby (Explain)
- Other (Explain)
- Logging
- Water Trip

MATERIALS USED

Mud _____ sacks

LC _____ Type _____

_____ / sacks

_____ / sacks

_____ / sacks

Viscose _____ / 50 Lb.

Cement _____ / 100 Lb.

Diesel _____ / Gal.

Foamer _____ / Gal.

Detergent _____ / Gal.

Other _____

CREW HOURS

Driller *13 12*

Helper *15 12*

Helper *11 13*

Helper *14 12*

WATER TRIP MILES - _____

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ " Approved _____



Mailing Address: 1199 West 900 North
 St. George, Utah 84770
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CLIENT _____
 PROJECT _____
 CLIENT REP. Dusty Gallan

Date: <u>10-2-82</u> Hole # _____ Rig # <u>11</u> Driller: <u>JD</u> Supervisor: <u>DW</u>			LOG REFERENCE #
TIME	LOG #	FOOTAGE	REMARKS
11			
12	<u>5</u>		<u>POH - lay down casing</u>
1			
2	<u>6</u>		
3	<u>14</u>		<u>Break hole opener</u>
4			
5			
6	<u>12</u>		<u>Removal & adjusted cathhead - reinstalled</u>
7			
8			<u>adjusted rotary cluster</u>
9	<u>3</u>		<u>A/H w/ drill string</u>
10	<u>14</u>		<u>ream hole</u>
11			
12			
1			

1. Crew Travel To Site
 2. Rig Up
 3. Reenter Hole
 4. Drilling
 5. Pull Pipe
 6. Mix Mud & Fill
 7. Coring
 8. Install Casing/Pipe
 9. Cementing
 10. Rig Down
 11. Move Rig to New Site
 12. Maintenance
 13. Standby (Explain)
 14. Other (Explain)
 15. Logging
 16. Water Trip

MATERIALS USED
 Mud _____ sacks
 LC _____ Type _____
 _____ / sacks
 _____ / sacks
 _____ / sacks
 Viscose _____ / 50 Lb.
 Cement _____ / 100 Lb.
 Diesel _____ / Gal.
 Foamer _____ / Gal.
 Detergent _____ / Gal.
 Other _____

CREW HOURS
 Driller JD 12
 Helper DO 12
 Helper BB 12
 Helper EL 12

WATER TRIP MILES - _____

1. Crew Travel To Site
 2. Rig Up
 3. Reenter Hole
 4. Drilling
 5. Pull Pipe
 6. Mix Mud & Fill
 7. Coring
 8. Install Casing/Pipe
 9. Cementing
 10. Rig Down
 11. Move Rig to New Site
 12. Maintenance
 13. Standby (Explain)
 14. Other (Explain)
 15. Logging
 16. Water Trip

MATERIALS USED
 Mud _____ sacks
 LC _____ Type _____
 _____ / sacks
 _____ / sacks
 _____ / sacks
 Viscose _____ / 50 Lb.
 Cement _____ / 100 Lb.
 Diesel _____ / Gal.
 Foamer _____ / Gal.
 Detergent _____ / Gal.
 Other _____

CREW HOURS
 Driller JD 12
 Helper DO 12
 Helper BB 12
 Helper EL 12

WATER TRIP MILES - _____

Footage: FROM _____ TO _____ TOTAL FOOTAGE _____ AIR _____ MUD _____ HAMMER _____
 Bit _____ changed at _____ Size _____
 Bit _____ changed at _____ Size _____
 Bit _____ changed at _____ Size _____ Form No. 572-

Date: <u>10-2-82</u> Hole # <u>45-14</u> Rig # <u>11</u> Driller: <u>ME</u> Supervisor: <u>DW</u>			LOG REFERENCE #
TIME	LOG #	FOOTAGE	REMARKS
11			
12	<u>1</u>		
1			
2			
3	<u>14</u>	<u>305</u>	<u>Ream Hole</u>
4			
5			
6		<u>323</u>	
7	<u>6</u>		<u>Mix Mud</u>
8	<u>14</u>		
9			
10			
11			
12			
1			

1. Crew Travel To Site
 2. Rig Up
 3. Reenter Hole
 4. Drilling
 5. Pull Pipe
 6. Mix Mud & Fill
 7. Coring
 8. Install Casing/Pipe
 9. Cementing
 10. Rig Down
 11. Move Rig to New Site
 12. Maintenance
 13. Standby (Explain)
 14. Other (Explain)
 15. Logging
 16. Water Trip

MATERIALS USED
 Mud _____ sacks
 LC _____ Type _____
 _____ / sacks
 _____ / sacks
 _____ / sacks
 Viscose _____ / 50 Lb.
 Cement _____ / 100 Lb.
 Diesel _____ / Gal.
 Foamer _____ / Gal.
 Detergent _____ / Gal.
 Other _____

CREW HOURS
 Driller ME 12
 Helper KS 12
 Helper JD 12
 Helper BB 12

WATER TRIP MILES - _____

1. Crew Travel To Site
 2. Rig Up
 3. Reenter Hole
 4. Drilling
 5. Pull Pipe
 6. Mix Mud & Fill
 7. Coring
 8. Install Casing/Pipe
 9. Cementing
 10. Rig Down
 11. Move Rig to New Site
 12. Maintenance
 13. Standby (Explain)
 14. Other (Explain)
 15. Logging
 16. Water Trip

MATERIALS USED
 Mud _____ sacks
 LC _____ Type _____
 _____ / sacks
 _____ / sacks
 _____ / sacks
 Viscose _____ / 50 Lb.
 Cement _____ / 100 Lb.
 Diesel _____ / Gal.
 Foamer _____ / Gal.
 Detergent _____ / Gal.
 Other _____

CREW HOURS
 Driller ME 12
 Helper KS 12
 Helper JD 12
 Helper BB 12

WATER TRIP MILES - _____

Footage: FROM _____ TO _____ TOTAL FOOTAGE _____ AIR _____ MUD _____ HAMMER _____
 Bit _____ changed at _____ Size _____
 Bit _____ changed at _____ Size _____
 Bit _____ changed at _____ Size _____ Approved _____



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CLIENT _____
 PROJECT _____
 CLIENT REP. *Jordan Pollock*

Date: 10-3-92		Hole# 45-14 Rig# 11		Driller: JD Supervisor:	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
12	6	343	add water & mix mud	2. Rig Up	
1				3. Reenter Hole	
2				4. Drilling	
3				5. Pull Pipe	
4				6. Mix Mud & Fill	
5				7. Coring	
6				8. Install Casing/Pipe	
7				9. Cementing	
8				10. Rig Down	
9				11. Move Rig to New Site	
10				12. Maintenance	
11				13. Standby (Explain)	
12				14. Other (Explain)	
1				15. Logging	
2				16. Water Trip	
				MATERIALS USED	
				Mud 13 sacks	
				LC 2 Type <i>Chab</i>	
				1 sacks	
				1 sacks	
				1 sacks	
				Viscose 150 Lb.	
				Cement 100 Lb.	
				Diesel 1 Gal.	
				Foamer 1 Gal.	
				Detergent 1 Gal.	
				Other _____	
				CREW HOURS	
				Driller JD 12	
				Helper DR 12	
				Helper DR 12	
				Helper EK 12	
				WATER TRIP MILES - 14	
				PGH LDDP	
				water tank - 1	
				WATER TRIP MILES - 14	

Footage: FROM 343 TO _____ TOTAL FOOTAGE _____ AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ Size _____
 Bit _____ changed at _____ Size _____
 Bit _____ changed at _____ Size _____

Form No. 872-
 Creative Impressions - St. George, Utah - 873-8848

Date: 10-3-92		Hole# 45-14 Rig# 11		Driller: MS Supervisor: DJ	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
12	5		L/D Collars and BHA	2. Rig Up	
1				3. Reenter Hole	
2				4. Drilling	
3				5. Pull Pipe	
4				6. Mix Mud & Fill	
5				7. Coring	
6				8. Install Casing/Pipe	
7				9. Cementing	
8				10. Rig Down	
9				11. Move Rig to New Site	
10				12. Maintenance	
11				13. Standby (Explain)	
12				14. Other (Explain)	
1				15. Logging	
2				16. Water Trip	
				MATERIALS USED	
				Mud _____ sacks	
				LC _____ Type _____	
				1 sacks	
				1 sacks	
				1 sacks	
				Viscose 150 Lb.	
				Cement 100 Lb.	
				Diesel 1 Gal.	
				Foamer 1 Gal.	
				Detergent 1 Gal.	
				Other _____	
				CREW HOURS	
				Driller MS 12	
				Helper DJ 12	
				Helper DJ 12	
				Helper DJ 12	
				WATER TRIP MILES -	
				Set 19 joints of 9 8 Round 402.65 Ft	
				Run casing	
				W/O Cement truck	
				Cement truck on location	
				Mix Cement + pump Cement in place at 9:30 hrs with good Cement Returns W/O	

Footage: FROM _____ TO _____ TOTAL FOOTAGE _____ AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ Size _____
 Bit _____ changed at _____ Size _____
 Bit _____ changed at _____ Size _____ Approved _____



Mailing Address: 1100 West 900 North
 St. George, Utah 84770
 Phone (801) 673-3526

OCI 21 REC'D

CLIENT _____

PROJECT Gardner Galla

CLIENT REP Gardner Galla

Date: <u>10-4-82</u>		Hole #	Rig # <u>11</u>	Driller: <u>JD</u>	Supervisor:
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
12	<u>14</u>	<u>WOC</u>		2. Rig Up	
1				3. Reenter Hole	
2				4. Drilling	
3				5. Pull Pipe	
4				6. Mix Mud & Fill	
5				7. Coring	
6				8. Install Casing/Pipe	
7				9. Cementing	
8				10. Rig Down	
9				11. Move Rig to New Site	
10				12. Maintenance	
11				13. Standby (Explain)	
12				14. Other (Explain)	
1				15. Logging	
2				16. Water Trip	
<u>Cost this more service - 1. Casing, key collar, & cut off casing - would run barrel back & install BOP repped up</u>				MATERIALS USED Mud _____ sacks LC _____ Type _____ _____ / sacks _____ / sacks _____ / sacks Viscose _____ / 50 Lb. Cement _____ / 100 Lb. Diesel _____ / Gal. Foamer _____ / Gal. Detergent _____ / Gal. Other _____	
CREW HOURS Driller <u>JD 12</u> Helper <u>DA 12</u> Helper <u>DA 12</u> Helper <u>EA 12</u>				WATER TRIP MILES -	

Footage: FROM _____ TO _____ TOTAL FOOTAGE _____ AIR _____ MUD _____ HAMMER _____
 Bit _____ changed at _____ Size _____"
 Bit _____ changed at _____ Size _____"
 Bit _____ changed at _____ Size _____"

Form No. 572-
 Greater Impressions - St. George, Utah - 873-8844

Date: <u>11-4-82</u>		Hole # <u>415-14</u>	Rig # <u>11</u>	Driller: <u>MB</u>	Supervisor: <u>DA</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
12				2. Rig Up	
1				3. Reenter Hole	
2				4. Drilling	
3				5. Pull Pipe	
4				6. Mix Mud & Fill	
5				7. Coring	
6				8. Install Casing/Pipe	
7				9. Cementing	
8				10. Rig Down	
9				11. Move Rig to New Site	
10				12. Maintenance	
11				13. Standby (Explain)	
12				14. Other (Explain)	
1				15. Logging	
2				16. Water Trip	
<u>Removed and Reinstalled BOP - to move controls</u>				MATERIALS USED Mud _____ sacks LC _____ Type _____ _____ / sacks _____ / sacks _____ / sacks Viscose _____ / 50 Lb. Cement _____ / 100 Lb. Diesel _____ / Gal. Foamer _____ / Gal. Detergent _____ / Gal. Other _____	
<u>Test BOP - Pressure to 500 LBS BOP Test Test Mud Pump Gauge not working correctly (Mud Pump Gauge losing pres)</u>				CREW HOURS Driller <u>MB 12</u> Helper <u>DA 12</u> Helper <u>DA 12</u> Helper <u>EA 12</u>	
<u>Cleaned Mud pits</u>				WATER TRIP MILES -	
<u>Back down stabilizer and hole regrass Make up drilling log</u>				CREW HOURS Driller <u>MB 12</u> Helper <u>DA 12</u> Helper <u>DA 12</u> Helper <u>EA 12</u>	
<u>full sitab and 8 3/4 Bit cast</u>				WATER TRIP MILES -	

Footage: FROM _____ TO _____ TOTAL FOOTAGE _____ AIR _____ MUD _____ HAMMER _____
 Bit _____ changed at _____ Size _____"
 Bit _____ changed at _____ Size _____"
 Bit _____ changed at _____ Size _____"
 Bit _____ changed at _____ Size _____" Approved _____



Mailing Address: 1199 West 980 North
St. George, Utah 84770
Phone (801) 873-3526

CLIENT _____
PROJECT _____
CLIENT REP. David Wallan

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
12	3		Picking up drill string & running back to rig	
1			count at 369'	
2	6		thin out of coal. interval	
3	4		pull cement - plug at 383' drilled out above cut 402'	
4	14		drilled back 3 intervals pipe - Eng reserve pit & washed water - mud to slick to pump	
5			drilled out rest of cement	
6			drilled back - formation at 428'	
7	4		PH to change bit	
8	5		RH 4 1/2" bit	
9	4		drilling	
10	5		ICM to change bit 6 1/4 bit 6 1/4 to 6 3/4	
11	14	4483	unload fuel tank & change	
12			pick up 5' & count 165'	
			water trip = 1	
			WATER TRIP MILES - 14	

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
12			change fuel tanks	
1	14			
2	3		RH 4 1/2" bit and 4 1/2"	
3	14		Ream Hole from 420 to 480	
4	6	450	drilling	
5	4	470		
6		470		
7		470		
8	4	490	Checked and cleaned mud pump	
9	4		Drilling	
10		510	Mud vis at 34	
			PH 9	
			WT 10.5	
11				
12				
			WATER TRIP MILES -	

Footage: FROM _____ TO 450' TOTAL FOOTAGE _____ AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ Size _____
Bit _____ changed at _____ Size _____
Bit _____ changed at _____ Size _____

Form No. 672-
Creative Impressions, St. George, Utah 84770

Footage: FROM 450' TO 525' TOTAL FOOTAGE 75' AIR _____ MUD _____ HAMMER _____

Bit WX295 changed at _____ Size 1 3/4" 555
Bit _____ changed at _____ Size _____
Bit _____ changed at _____ Size _____ Approved _____



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 St. George, Utah 84770
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CLIENT _____
 PROJECT _____
 CLIENT REP Linda Gallan

Date: 10-6-82 Hole # 45-14 Rig # 11 Driller: JD Supervisor: DW

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
12	4	525	Drilling	
		530		
1				
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4		550		
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Mailing Address: 1190 West 980 North
 St. George, Utah 84770
 Phone (801) 673-3526

CLIENT _____

PROJECT Hardy Dallas

CLIENT REP Hardy Dallas

Date: 10-8-82 Hole # 45-14 Rig # 11 Driller: JD Supervisor: DW

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
12	<u>4</u>	<u>736</u>	<u>Drilling</u>	
1				
2				
3				
4				
5	<u>1</u>	<u>750</u>	<u>POH</u>	
6	<u>5</u>		<u>Switch rig from mud</u>	
7	<u>14</u>		<u>to air</u>	
8				
9				
10				
11				
12				
1				

LOG REFERENCE #

- Crew Travel To Site
- Rig Up
- Reenter Hole
- Drilling
- Pull Pipe
- Mix Mud & Fill
- Coring
- Install Casing/Pipe
- Cementing
- Rig Down
- Move Rig to New Site
- Maintenance
- Standby (Explain)
- Other (Explain)
- Logging
- Water Trip

MATERIALS USED

Mud _____ sacks

LC _____ Type _____

_____ 1 sacks

_____ 1 sacks

_____ 1 sacks

Viscose _____ / 50 Lb.

Cement _____ / 100 Lb.

Diesel _____ / Gal.

Foamer _____ / Gal.

Detergent _____ / Gal.

Other _____

CREW HOURS

Driller JD 12

Helper BO 12

Helper BR 12

Helper EL 5

WATER TRIP MILES _____

Date: _____ Hole # _____ Rig # _____ Driller: _____ Supervisor: _____

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
12	<u>3</u>		<u>RTH unload Hole Kussy</u>	
1	<u>1</u>		<u>200 ft Hole making wa</u>	
2	<u>5</u>		<u>200 GPM - unable to cement</u>	
3	<u>3</u>		<u>Wagner tool with the bit</u>	
4	<u>14</u>		<u>RTH w/ 6 7/8 BIT</u>	
5	<u>6</u>		<u>Change rig back to mud</u>	
6			<u>mix mud and use hole</u>	
7			<u>to condition muc.</u>	
8				
9				
10				
11				
12				
1				

LOG REFERENCE #

- Crew Travel To Site
- Rig Up
- Reenter Hole
- Drilling
- Pull Pipe
- Mix Mud & Fill
- Coring
- Install Casing/Pipe
- Cementing
- Rig Down
- Move Rig to New Site
- Maintenance
- Standby (Explain)
- Other (Explain)
- Logging
- Water Trip

MATERIALS USED

Mud 13 sacks

LC _____ Type _____

LCM 13 sacks

_____ 1 sacks

_____ 1 sacks

Viscose _____ / 50 Lb.

Cement _____ / 100 Lb.

Diesel _____ / Gal.

Foamer _____ / Gal.

Detergent _____ / Gal.

Other Polyloc 5

CREW HOURS

Driller JD 12

Helper BO 12

Helper BR 12

Helper EL 12

WATER TRIP MILES _____

Footage: FROM 736 TO 750 TOTAL FOOTAGE 14 AIR _____ MUD X HAMMER _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____

Form No. 572-
 Creative Impressions - St. George, Utah 84770

Footage: FROM _____ TO _____ TOTAL FOOTAGE _____ AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____ Approved _____



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St. George, Utah 84770
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UCL 21 ALL U

CLIENT _____
PROJECT Dredge Dallen
CLIENT REP Dredge Dallen

Date: <u>10-9-82</u>		Hole # <u>45-14</u>		Rig # <u>11</u>		Driller: <u>J D</u>		Supervisor: <u>D W</u>	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
11				1. Crew Travel To Site					
12	11		Pressure broke to 6 3/4	2. Rig Up					
1	6		with mud	3. Reenter Hole					
	14		Pressure	4. Drilling					
2				5. Pull Pipe					
				6. Mix Mud & Fill					
				7. Coring					
				8. Install Casing/Pipe					
				9. Cementing					
				10. Rig Down					
				11. Move Rig to New Site					
				12. Maintenance					
				13. Standby (Explain)					
				14. Other (Explain)					
				15. Logging					
				16. Water Trip					
				MATERIALS USED					
				Mud	13	sacks			
				LC		Type			
					1	sacks			
					1	sacks			
					1	sacks			
				Viscose	150	Lb.			
				Cement	100	Lb.			
				Diesel	1	Gal.			
				Foamer	1	Gal.			
				Detergent	1	Gal.			
				Other					
				CREW HOURS					
				Driller	J D	12			
				Helper	B R	12			
				Helper	B R	12			
				Helper	E L	12			
				WATER TRIP MILES -					

Footage: FROM 710 TO 781 TOTAL FOOTAGE 31 AIR _____ MUD _____ HAMMER _____
 Bit E 2710 changed at _____ Size 6 3/4 " S 62 J Reed Austin
 Bit _____ changed at _____ Size _____"
 Bit _____ changed at _____ Size _____" Form No. 673-

Date: <u>10-9-82</u>		Hole # <u>45-14</u>		Rig # <u>11</u>		Driller: <u>M S</u>		Supervisor: <u>D W</u>	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
11				1. Crew Travel To Site					
12				2. Rig Up					
1				3. Reenter Hole					
				4. Drilling					
				5. Pull Pipe					
				6. Mix Mud & Fill					
				7. Coring					
				8. Install Casing/Pipe					
				9. Cementing					
				10. Rig Down					
				11. Move Rig to New Site					
				12. Maintenance					
				13. Standby (Explain)					
				14. Other (Explain)					
				15. Logging					
				16. Water Trip					
				MATERIALS USED					
				Mud	10	sacks			
				LC		Type			
					12	sacks			
					1	sacks			
					1	sacks			
				Viscose	150	Lb.			
				Cement	100	Lb.			
				Diesel	1	Gal.			
				Foamer	1	Gal.			
				Detergent	1	Gal.			
				Other					
				CREW HOURS					
				Driller	M S	12			
				Helper	E L	12			
				Helper	E L	12			
				Helper	R G	12			
				WATER TRIP MILES -					

Footage: FROM 781 TO 881 TOTAL FOOTAGE 100 AIR _____ MUD _____ HAMMER _____
 Bit _____ changed at _____ Size _____"
 Bit _____ changed at _____ Size _____"
 Bit _____ changed at _____ Size _____" Approved _____



Mailing Address: 1199 West 960 North
 St. George, Utah 84770
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CLIENT _____
 PROJECT Lundy Hollow
 CLIENT REP Lundy Hollow

Date: 10-10-82		Hole # 45-14	Rig # 11	Driller: JD	Supervisor: DW
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
12		881	Drilling	2. Rig Up	
				3. Reenter Hole	
				4. Drilling	
				5. Pull Pipe	
				6. Mix Mud & Fill	
				7. Coring	
				8. Install Casing/Pipe	
				9. Cementing	
				10. Rig Down	
				11. Move Rig to New Site	
				12. Maintenance	
				13. Standby (Explain)	
				14. Other (Explain)	
				15. Logging	
				16. Water Trip	
				MATERIALS USED	
				Mud _____ sacks	
				LC _____ Type _____	
				_____ 1 sacks	
				_____ 1 sacks	
				_____ 1 sacks	
				Viscose _____ / 50 Lb.	
				Cement _____ / 100 Lb.	
				Diesel _____ / Gal.	
				Foamer _____ / Gal.	
				Detergent _____ / Gal.	
				Other _____	
				CREW HOURS	
				Driller <u>JD 12</u>	
				Helper <u>DR 12</u>	
				Helper <u>EL 12</u>	
				Helper _____	
				WATER TRIP MILES - 14	

Footage: FROM 881 TO 982 TOTAL FOOTAGE 101 AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____ Form No. 672-

Date: 10-10-82		Hole # 45-14	Rig # 11	Driller: MB	Supervisor: DW
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
12		982	Drilling	2. Rig Up	
				3. Reenter Hole	
				4. Drilling	
				5. Pull Pipe	
				6. Mix Mud & Fill	
				7. Coring	
				8. Install Casing/Pipe	
				9. Cementing	
				10. Rig Down	
				11. Move Rig to New Site	
				12. Maintenance	
				13. Standby (Explain)	
				14. Other (Explain)	
				15. Logging	
				16. Water Trip	
				MATERIALS USED	
				Mud _____ sacks	
				LC _____ Type _____	
				_____ 1 sacks	
				_____ 1 sacks	
				_____ 1 sacks	
				Viscose _____ / 50 Lb.	
				Cement _____ / 100 Lb.	
				Diesel _____ / Gal.	
				Foamer _____ / Gal.	
				Detergent _____ / Gal.	
				Other _____	
				CREW HOURS	
				Driller <u>MB 12</u>	
				Helper <u>DR 12</u>	
				Helper <u>EL 12</u>	
				Helper _____	
				WATER TRIP MILES -	

Footage: FROM 982 TO 1018 TOTAL FOOTAGE 36 AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____ Approved



Mailing Address: 1199 West 900 North
St. George, Utah 84770
Phone (801) 873-3528

CLIENT _____
PROJECT Andy Gollan
CLIENT REP. Andy Gollan

00121 REC'D

Date: <u>10-11-82</u>		Hole # <u>45-14</u>		Rig # <u>11</u>	Driller: <u>JD</u>	Supervisor: <u>DW</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #		
11					1. Crew Travel To Site	
12	<u>4</u>	<u>1018</u>	<u>Drilling</u>		2. Rig Up	
1					3. Reenter Hole	
2					4. Drilling	
3					5. Pull Pipe	
4					6. Mix Mud & Fill	
5					7. Coring	
6					8. Install Casing/Pipe	
7					9. Cementing	
8					10. Rig Down	
9					11. Move Rig to New Site	
10					12. Maintenance	
11					13. Standby (Explain)	
12					14. Other (Explain)	
1					15. Logging	
2					16. Water Trip	
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Mailing Address: 1199 West 980 North
St. George, Utah 84770
Phone (801) 673-3526

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CLIENT _____
PROJECT Dandy Gallan
CLIENT REP Dandy Gallan

Date: 10-12-82 Hole# 45-14 Rig# 11 Driller: JD Supervisor: DLG

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				1. Crew Travel To Site
1-9022	4	1228 1230	Drilling	2. Rig Up
1				3. Reenter Hole
1-902	12	1250	Replace worn bit in mud pump	4. Drilling
3				5. Pull Pipe
1-904		1270		6. Mix Mud & Fill
5				7. Coring
1-906		1290		8. Install Casing/Pipe
7			9/15 IN-36 OUT 135 Temp 84 90 with 9.5	9. Cementing
1-908	8	1310	Bit shut down PH 11 Pricy - check oil in engine & Chlorine case - clean out filter mud mud BHA	10. Rig Down
9	4			11. Move Rig to New Site
10				12. Maintenance
1-8611		1330		13. Standby (Explain)
12				14. Other (Explain)
				15. Logging
				16. Water Trip
				MATERIALS USED
				Mud 8 sacks
				LC Type 82 93
				1 sacks
				1 sacks
				1 sacks
				Viscose 150 Lb.
				Cement 1100 Lb.
				Diesel 1 Gal.
				Foamer 1 Gal.
				Detergent 1 Gal.
				Other 68 96
				CREW HOURS
				Driller JD 12
				Helper BO 12
				Helper DA 12
				Helper EL 12
				WATER TRIP MILES -

Footage: FROM 1228 TO 1339 TOTAL FOOTAGE 111 AIR _____ MUD X HAMMER _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____ Form No. 672-

Date: 11-12-82 Hole# 45-14 Rig# 11 Driller: MB Supervisor: DLG

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				1. Crew Travel To Site
1-9022	4	1339	Drilling	2. Rig Up
1				3. Reenter Hole
1-902	6	1350	Mix mud	4. Drilling
3				5. Pull Pipe
1-904	H	1370	Drilling	6. Mix Mud & Fill
5				7. Coring
1-906		1390		8. Install Casing/Pipe
7				9. Cementing
1-908		1410		10. Rig Down
9				11. Move Rig to New Site
1-910		1430		12. Maintenance
11				13. Standby (Explain)
1-912		1450		14. Other (Explain)
13				15. Logging
1-914		1470		16. Water Trip
15				MATERIALS USED
17				Mud _____ sacks
19				LC Type _____
21				1 sacks
23				1 sacks
25				1 sacks
27				Viscose 150 Lb.
29				Cement 1100 Lb.
31				Diesel 1 Gal.
33				Foamer 1 Gal.
35				Detergent 1 Gal.
37				Other _____
39				CREW HOURS
41				Driller MB 12
43				Helper BS 12
45				Helper JW 12
47				Helper DS 12
49				WATER TRIP MILES -

Footage: FROM 1339 TO 1470 TOTAL FOOTAGE 131 AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ Size _____ 1441

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____ Approved _____



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St. George, Utah 84770
Phone (801) 673-3526

CLIENT _____
PROJECT Dandy Dutton
CLIENT REP. Dandy Dutton

OCT 21 REC'D

Date: 10-13-82 Hole# 45-14 Rig# 11 Driller: JD Supervisor: DW

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				1. Crew Travel To Site
12	4	1483	Drilling	2. Rig Up
		1490		3. Reenter Hole
-94	6		Get down pipe to then mud - drilling blue clay	4. Drilling
	4			5. Pull Pipe
2	7		Drilling	6. Mix Mud & Fill
	7		Valve coked in mud pump	7. Coring
3			Drilling	8. Install Casing/Pipe
-96		1510		9. Cementing
				10. Rig Down
				11. Move Rig to New Site
				12. Maintenance
				13. Standby (Explain)
				14. Other (Explain)
				15. Logging
				16. Water Trip
				MATERIALS USED
-96		1530		Mud _____ sacks
	12		Replace Valve in mud pump (4)	LC _____ Type _____
	4		Vis. in 3.5 out 84	_____ 1 sacks
			Temp 9.3 86	_____ 1 sacks
-96		1550		_____ 1 sacks
			with 9.4	Viscose _____ 150 Lb.
			PH 10	Cement _____ 100 Lb.
				Diesel _____ 1 Gal.
				Foamer _____ 1 Gal.
				Detergent _____ 1 Gal.
				Other _____
-96	14	1570	Circ to clean BHA	CREW HOURS
	5		hole 6 3/4 bit	Driller <u>JD 12</u>
	12		POH to check float sub	Helper <u>AG 12</u>
			Bit 6 3/4 stab	Helper <u>AK 12</u>
			Clean pipe & SDC 105' hole	Helper <u>EK 12</u>
			air through pump	
			WATER TRIP MILES -	

Footage: FROM 1483 TO 1570 TOTAL FOOTAGE 87 AIR _____ MUD X HAMMER _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____ Form No. 672-

Date: 10-13-82 Hole# 45-14 Rig# 11 Driller: MS Supervisor: DW

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				1. Crew Travel To Site
12				2. Rig Up
				3. Reenter Hole
	11		Replace adjustment pin in the mud pump clutch	4. Drilling
			Replace valve seats	5. Pull Pipe
1				6. Mix Mud & Fill
	14		Clean mud pits	7. Coring
2			RTH to 1480 FT	8. Install Casing/Pipe
3	3			9. Cementing
				10. Rig Down
				11. Move Rig to New Site
				12. Maintenance
				13. Standby (Explain)
				14. Other (Explain)
				15. Logging
				16. Water Trip
				MATERIALS USED
				Mud <u>22</u> sacks
				LC <u>2</u> Type <u>Eiber</u>
				Mica <u>12</u> sacks
				CMC <u>1 1/2</u> sacks
				Lignite <u>12</u> sacks
				Viscose _____ 150 Lb.
				Cement _____ 100 Lb.
				Diesel _____ 1 Gal.
				Foamer _____ 1 Gal.
				Detergent _____ 1 Gal.
				Other _____
				CREW HOURS
				Driller <u>MS 12</u>
				Helper <u>AG 12</u>
				Helper <u>AK 12</u>
				Helper <u>EK 12</u>
				WATER TRIP MILES - <u>14</u> <u>1</u> trip

Footage: FROM 1570 TO 1612 TOTAL FOOTAGE 42 AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____ Approved _____



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 St. George, Utah 84770
 Phone (801) 873-3526

CLIENT _____
 PROJECT Judy Ballan
 CLIENT REP. Judy Ballan

Date: 10-14-82 Hole # 45-14 Rig # 11 Driller: JD Supervisor: DW

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				1. Crew Travel To Site
12	4	1612	Drilling	2. Rig Up
1				3. Reenter Hole
2				4. Drilling
3				5. Pull Pipe
4				6. Mix Mud & Fill
5				7. Coring
6				8. Install Casing/Pipe
7				9. Cementing
8				10. Rig Down
9				11. Move Rig to New Site
10				12. Maintenance
11				13. Standby (Explain)
12				14. Other (Explain)
1				15. Logging
2				16. Water Trip
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Mailing Address: 1199 West 980 North
St. George, Utah 84770
Phone (801) 873-3526

CLIENT _____
PROJECT Goldy Hallan
CLIENT REP Goldy Hallan

OCI 21 REC'D

Date: 10-15-82		Hole # 45-14		Rig # 11		Driller: J D		Supervisor: _____	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
				1. Crew Travel To Site					
				2. Rig Up					
				3. Reenter Hole					
				4. Drilling					
				5. Pull Pipe					
				6. Mix Mud & Fill					
				7. Coring					
				8. Install Casing/Pipe					
				9. Cementing					
				10. Rig Down					
				11. Move Rig to New Site					
				12. Maintenance					
				13. Standby (Explain)					
				14. Other (Explain)					
				15. Logging					
				16. Water Trip					
				MATERIALS USED					
				Mud 10 sacks					
				LC _____ Type _____					
				Lignite 11 sacks					
				Sand 11 sacks					
				_____ sacks					
				Viscose 150 Lb.					
				Cement 1100 Lb.					
				Diesel 1 Gal.					
				Foamer 1 Gal.					
				Detergent 1 Gal.					
				Other _____					
				CREW HOURS					
				Driller DA 12					
				Helper DA 12					
				Helper DA 12					
				Helper GA 12					
				WATER TRIP MILES - 14 1 Trip					

Footage: FROM 1250 TO 1767 TOTAL FOOTAGE 17 AIR _____ MUD HAMMER _____
 Bit FS2706 changed at 1750 Size 6 3/4 S62J VIS IN 40 OUT 39
 Bit _____ changed at _____ Size _____ Temp 90 98
 Bit _____ changed at _____ Size _____ PH 7
 Form No. 672

Temp 95
98
98
98

Date: 10-15-82		Hole # 45-14		Rig # 11		Driller: MB		Supervisor: PV	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
				1. Crew Travel To Site					
				2. Rig Up					
				3. Reenter Hole					
				4. Drilling					
				5. Pull Pipe					
				6. Mix Mud & Fill					
				7. Coring					
				8. Install Casing/Pipe					
				9. Cementing					
				10. Rig Down					
				11. Move Rig to New Site					
				12. Maintenance					
				13. Standby (Explain)					
				14. Other (Explain)					
				15. Logging					
				16. Water Trip					
				MATERIALS USED					
				Mud 5 sacks					
				LC _____ Type _____					
				Cm. 14 sacks					
				_____ sacks					
				_____ sacks					
				Viscose 150 Lb.					
				Cement 1100 Lb.					
				Diesel 1 Gal.					
				Foamer 1 Gal.					
				Detergent 1 Gal.					
				Other _____					
				CREW HOURS					
				Driller MB 12					
				Helper DA 12					
				Helper DA 12					
				Helper DA 12					
				WATER TRIP MILES -					

Footage: FROM 1767 TO 1804 TOTAL FOOTAGE 37 AIR _____ MUD HAMMER _____
 Bit _____ changed at _____ Size _____ 37
 Bit _____ changed at _____ Size _____
 Bit _____ changed at _____ Size _____ Approved _____

VIS IN 42 OUT 39
Temp 97 108
PH 8

BHA
6 3/4 Bit
that stab
6 3/4 stab
3 DC
6 1/2 stab
2 DC



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St. George, Utah 84770
Phone (801) 673-3526

CLIENT _____
PROJECT Andy Gallan
CLIENT REP. Andy Gallan

Date: 10-16-92 Hole # 45-15A Rig # 11 Driller: JD Supervisor: DW

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
12	<u>4</u>	<u>1804</u>	<u>Drilling</u>	
1				
2		<u>1814</u>		
3			<u>2 1/2" - 110' 44' out 42'</u>	
4			<u>Temp 96 110</u>	
5			<u>PH 8</u>	
6			<u>wt 9.9</u>	
7				
8		<u>1834</u>		
9			<u>BHA</u>	
10			<u>6 3/4 Bit</u>	
11			<u>2 1/2" stab</u>	
12			<u>6 3/4 stab</u>	
1			<u>3 D.C.</u>	
2			<u>6 1/2 stab</u>	
3			<u>2 D.C.</u>	
4			<u>110' Total</u>	
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Mailing Address: Box 52
Central, Utah 84722
Phone 801/873-4016
or 673-4025

CLIENT _____
PROJECT Dorby Hallen
CLIENT REP. Dorby Hallen

Date: <u>10-18-82</u>		Hole# <u>45-14 Rig# 11</u>		Driller: <u>J.D.</u>	Supervisor: <u>D.W.</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
12	<u>12</u>		<u>adjust drawworks clutch</u>	2. Rig Up	
			<u>Remove cathead & adjust. Replace Big engine oil & filters.</u>	3. Reenter Hole	
				4. Drilling	
				5. Pull Pipe	
				6. Mix Mud & Fill	
				7. Coring	
				8. Install Casing/Pipe	
				9. Cementing	
				10. Rig Down	
				11. Move Rig to New Site	
				12. Maintenance	
				13. Standby (Explain)	
				14. Other (Explain)	
				15. Logging	
				16. Water Trip	
				MATERIALS USED	
				Mud _____	sacks
				LC _____	Type _____
					sacks
					sacks
					sacks
				Viscose _____	/ 50 Lb.
				Cement _____	/ 100 Lb.
				Diesel _____	/ Gal.
				Foamer _____	/ Gal.
				Detergent _____	/ Gal.
				Other _____	
				CREW HOURS	
				Driller <u>J.D.</u>	<u>12</u>
				Helper <u>D.O.</u>	<u>12</u>
				Helper <u>B.A.</u>	<u>12</u>
				Helper <u>B.H.</u>	<u>12</u>
				WATER TRIP MILES -	

Date: <u>11-18-82</u>		Hole# <u>45-14 Rig# 11</u>		Driller: <u>M.B.</u>	Supervisor: <u>M.W.</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
12		<u>1913</u>		2. Rig Up	
			<u>RH - washed & Run 80ft</u>	3. Reenter Hole	
			<u>Drilling</u>	4. Drilling	
		<u>1914</u>		5. Pull Pipe	
				6. Mix Mud & Fill	
				7. Coring	
				8. Install Casing/Pipe	
				9. Cementing	
				10. Rig Down	
				11. Move Rig to New Site	
				12. Maintenance	
				13. Standby (Explain)	
				14. Other (Explain)	
				15. Logging	
				16. Water Trip	
				MATERIALS USED	
				Mud <u>14</u>	sacks
				LC _____	Type _____
					sacks
					sacks
					sacks
				Viscose _____	/ 50 Lb.
				Cement _____	/ 100 Lb.
				Diesel _____	/ Gal.
				Foamer _____	/ Gal.
				Detergent _____	/ Gal.
				Other _____	
				CREW HOURS	
				Driller <u>M.B.</u>	<u>12</u>
				Helper <u>B.S.</u>	<u>12</u>
				Helper <u>M.L.</u>	<u>12</u>
				Helper <u>B.H.</u>	<u>12</u>
				WATER TRIP MILES - <u>14</u>	

Footage: FROM _____ TO _____ TOTAL FOOTAGE _____ AIR _____ MUD _____ HAMMER _____
 Bit T62783 changed at 1913 Size 6 1/2 " HPSMJ Reed
 Bit _____ changed at _____ Size _____"
 Bit _____ changed at _____ Size _____" Form No. 572-
 Creative Impressions—St. George, Utah—673-6646

Footage: FROM 1913 TO 1954 TOTAL FOOTAGE 41 AIR _____ MUD ✓ HAMMER _____
 Bit _____ changed at _____ Size _____"
 Bit _____ changed at _____ Size _____"
 Bit _____ changed at _____ Size _____" Approved _____
 Approved Client Representative



Mailing Address: Box 52
Central, Utah 84722

Phone 801/673-4016
or 673-4025

CLIENT _____

PROJECT _____

CLIENT REP. David J. Lellan

Date: 11-19-82		Hole# 45-14 Rig# 11		Driller: JD Supervisor:	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11	4	1954	Drilling	1. Crew Travel To Site	
12				2. Rig Up	
1				3. Reenter Hole	
2				4. Drilling	
3				5. Pull Pipe	
4				6. Mix Mud & Fill	
5				7. Coring	
6				8. Install Casing/Pipe	
7				9. Cementing	
8				10. Rig Down	
9				11. Move Rig to New Site	
10				12. Maintenance	
11				13. Standby (Explain)	
12				14. Other (Explain)	
1				15. Logging	
2				16. Water Trip	
1974 1/15-IN 43 OUT 47 Temp 103 110 WT 9 PH 7				MATERIALS USED Mud 6 sacks LC Type _____ CMC 11 sacks 1 sacks 1 sacks 1 sacks Viscose 150 Lb. Cement 1100 Lb. Diesel 1 Gal. Foamer 1 Gal. Detergent 1 Gal. Other _____	
1994 BHA Circ to clean 6 1/2 Bit Look for Dr. Test 9' lost sub Don't drill down, test stick 5 3/4" 1 DC 1 sub Check Rig engine oil 2 DC mix mud 1 sub added water 7 DC 273' total				CREW HOURS Driller JD 12 Helper DA 12 Helper CA 12	
WATER TRIP MILES -				WATER TRIP MILES -	

Footage: FROM 1954 TO 1994 TOTAL FOOTAGE 40 AIR MUD X HAMMER

Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"

Form No. 572-
Creative Impressions—St. George, Utah—873-6646

Date: 11-19-82		Hole# 45-14 Rig# 11		Driller: MS Supervisor: [Signature]	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
12				2. Rig Up	
1				3. Reenter Hole	
2				4. Drilling	
3				5. Pull Pipe	
4				6. Mix Mud & Fill	
5				7. Coring	
6				8. Install Casing/Pipe	
7				9. Cementing	
8				10. Rig Down	
9				11. Move Rig to New Site	
10				12. Maintenance	
11				13. Standby (Explain)	
12				14. Other (Explain)	
1				15. Logging	
2				16. Water Trip	
1974 BHA 1/15-IN 43 OUT 50 Temp 90 111 WT 9 PH 7				MATERIALS USED Mud _____ sacks LC Type _____ _____ 1 sacks _____ 1 sacks _____ 1 sacks Viscose 150 Lb. Cement 1100 Lb. Diesel 1 Gal. Foamer 1 Gal. Detergent 1 Gal. Other _____	
1994 BHA 6 1/2 Bit 1 lost sub 1 sub 1 DC 1 sub 2 DC 1 sub 7 DC Total 273 ft				CREW HOURS Driller MS 12 Helper AS 12 Helper BT 12	
WATER TRIP MILES -				WATER TRIP MILES -	

Footage: FROM 1974 TO 2034 TOTAL FOOTAGE 40 AIR MUD X HAMMER

Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____" Approved _____

Approved Client Representative



Mailing Address: Box 52
Central, Utah 84722
Phone 801/673-4016
or 673-4025

CLIENT _____
PROJECT _____
CLIENT REP Judy Baller

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
Date: <u>12-21-82</u> Hole # <u>45-14</u> Rig # <u>11</u> Driller: <u>JD</u> Supervisor: <u>DW</u>				
11				1. Crew Travel To Site
10-172	4	2132	Drilling	2. Rig Up
		2134	adding water to keep vis down	3. Reenter Hole
1				4. Drilling
2				5. Pull Pipe
3				6. Mix Mud & Fill
0-204		2154	VIS-IN400xT40 bump 110 120 Rt 7	7. Coring
5				8. Install Casing/Pipe
6				9. Cementing
7				10. Rig Down
8				11. Move Rig to New Site
0-171		2174	BHA 6 1/2 bit float sub 1 stab	12. Maintenance
9			1 DC	13. Standby (Explain)
10		2184	1 stab open up 2 DC	14. Other (Explain)
11			3rd pit & 1 stab init mud 7 DC	15. Logging
12			drilling	16. Water Trip
1				MATERIALS USED
				Mud <u>5</u> sacks
				LC _____ Type _____
				Sack <u>11</u> sacks
				_____ sacks
				_____ sacks
				Viscose _____ / 50 Lb.
				Cement _____ / 100 Lb.
				Diesel _____ / Gal.
				Foamer _____ / Gal.
				Detergent _____ / Gal.
				Other _____
				CREW HOURS
				Driller <u>JD 12</u>
				Helper <u>DR 12</u>
				Helper <u>BR 12</u>
				Helper <u>GL 12</u>
				WATER TRIP MILES - <u>4.2 - 3 Trips</u>

Footage: FROM 2132 TO 2184 TOTAL FOOTAGE 52 AIR _____ MUD X HAMMER _____
 Bit _____ changed at _____ Size _____
 Bit _____ changed at _____ Size _____
 Bit _____ changed at _____ Size _____
 Form No. 572-
 Creative Impressions—St. George, Utah—673-6646

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
Date: <u>12-21-82</u> Hole # <u>45-14</u> Rig # <u>11</u> Driller: <u>MB</u> Supervisor: <u>DW</u>				
11				1. Crew Travel To Site
12			POH - 2184	2. Rig Up
1				3. Reenter Hole
2				4. Drilling
3				5. Pull Pipe
4				6. Mix Mud & Fill
5				7. Coring
6				8. Install Casing/Pipe
7				9. Cementing
8				10. Rig Down
9				11. Move Rig to New Site
10				12. Maintenance
11				13. Standby (Explain)
12				14. Other (Explain)
1				15. Logging
				16. Water Trip
				MATERIALS USED
				Mud <u>10</u> sacks
				LC _____ Type _____
				Can <u>liquid</u> sacks
				_____ sacks
				_____ sacks
				Viscose _____ / 50 Lb.
				Cement _____ / 100 Lb.
				Diesel _____ / Gal.
				Foamer _____ / Gal.
				Detergent _____ / Gal.
				Other _____
				CREW HOURS
				Driller <u>MB 12</u>
				Helper <u>DR 12</u>
				Helper <u>BR 12</u>
				Helper <u>GL 12</u>
				WATER TRIP MILES -

Footage: FROM 2184 TO 2184 TOTAL FOOTAGE 0 AIR _____ MUD _____ HAMMER _____
 Bit 163900 changed at 2184 Size 6 1/2 HPSMT
 Bit _____ changed at _____ Size _____
 Bit _____ changed at _____ Size _____
 Approved Client Representative _____



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or 673-4025

CLIENT _____
PROJECT _____
CLIENT REP Gordy Kallman

Date: <u>10-22-82</u> Hole# <u>45-14</u> Rig# <u>11</u> Driller: <u>JN</u> Supervisor: <u>DW</u>		TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11						1. Crew Travel To Site
12						2. Rig Up
1						3. Reenter Hole
2						4. Drilling
3						5. Pull Pipe
4						6. Mix Mud & Fill
5						7. Coring
6						8. Install Casing/Pipe
7						9. Cementing
8						10. Rig Down
9						11. Move Rig to New Site
10						12. Maintenance
11						13. Standby (Explain)
12						14. Other (Explain)
						15. Logging
						16. Water Trip
						MATERIALS USED
						Mud <u>18</u> sacks
						LC _____ Type _____
						Lignite <u>1</u> sacks
						LCash <u>11</u> sacks
						CMS <u>11</u> sacks
						Viscose _____ / 50 Lb.
						Cement _____ / 100 Lb.
						Diesel _____ / Gal.
						Foamer _____ / Gal.
						Detergent _____ / Gal.
						Other _____
						CREW HOURS
						Driller <u>JN 12</u>
						Helper <u>DO 12</u>
						Helper <u>DK 12</u>
						Helper <u>EL 12</u>
						WATER TRIP MILES - <u>14</u> 1 trip

Footage: FROM 2184 TO 2218 TOTAL FOOTAGE 34 *AIR _____ MUD X HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Form No. 572-
Creative Impressions—St. George, Utah—673-6646

Date: <u>10-22-82</u> Hole# <u>45-14</u> Rig# <u>11</u> Driller: <u>MB</u> Supervisor: <u>DW</u>		TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11						1. Crew Travel To Site
12						2. Rig Up
1						3. Reenter Hole
2						4. Drilling
3						5. Pull Pipe
4						6. Mix Mud & Fill
5						7. Coring
6						8. Install Casing/Pipe
7						9. Cementing
8						10. Rig Down
9						11. Move Rig to New Site
10						12. Maintenance
11						13. Standby (Explain)
12						14. Other (Explain)
						15. Logging
						16. Water Trip
						MATERIALS USED
						Mud <u>6</u> sacks
						LC _____ Type _____
						Cash <u>1</u> sacks
						CMS <u>14</u> sacks
						_____ / 50 Lb.
						Cement _____ / 100 Lb.
						Diesel _____ / Gal.
						Foamer _____ / Gal.
						Detergent _____ / Gal.
						Other _____
						CREW HOURS
						Driller <u>MB 12</u>
						Helper <u>SE 12</u>
						Helper <u>DK 12</u>
						Helper <u>EL 12</u>
						WATER TRIP MILES - _____

Footage: FROM 2218 TO 2268 TOTAL FOOTAGE 50 *AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ " Approved _____

Approved Client Representative



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Central, Utah 84722
Phone 801/673-4016
or 673-4025

CLIENT _____
PROJECT _____
CLIENT REP *G. J. J. J.*

Date: 10-23-82 Hole# 45-14 Rig# 11 Driller: J.D. Supervisor: D.A.

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				1. Crew Travel To Site
12	4	2268	Drilling	2. Rig Up
1				3. Reenter Hole
2				4. Drilling
3				5. Pull Pipe
4				6. Mix Mud & Fill
5				7. Coring
6				8. Install Casing/Pipe
7				9. Cementing
8				10. Rig Down
9				11. Move Rig to New Site
10				12. Maintenance
11				13. Standby (Explain)
12				14. Other (Explain)
1				15. Logging
2				16. Water Trip
3			VIS-IN OUT	
4			Temp 10.4 120	
5			WT 9.3	
6			PH 9	
7	6	2294	mid mud	MATERIALS USED
8	4		Drilling	Mud 2 sacks
9				LC Type _____
10				Sigment 1 sacks
11				_____ 1 sacks
12				_____ 1 sacks
1	24		Circ for crew hole from	Viscose 150 Lb.
2	14	2300	Dev Test BHA	Cement 100 Lb.
3			Run Dev tool 6 1/2' Out	Diesel 1 Gal.
4			with wire line & lost tool	Foamer 1 Gal.
5	4	2314	Drilling 2 1/4' stab	Detergent 1 Gal.
6			1 DC	Other _____
7			1 stab	
8			2 DC	CREW HOURS
9			1 stab	Driller J.D. 12
10				Helper B.O. 12
11				Helper B.R. 12
12				Helper E.H. 12
1			7 DC 273' T	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
1				

Footage: FROM 2268 TO 2325 TOTAL FOOTAGE 57 AIR _____ MUD X HAMMER _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____

Form No. 572-
Creative Impressions—St. George, Utah—673-6646

Date: 11-23-82 Hole# 45-14 Rig# 11 Driller: M.B. Supervisor: D.A.

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				1. Crew Travel To Site
12				2. Rig Up
1				3. Reenter Hole
2				4. Drilling
3				5. Pull Pipe
4				6. Mix Mud & Fill
5				7. Coring
6				8. Install Casing/Pipe
7				9. Cementing
8				10. Rig Down
9				11. Move Rig to New Site
10				12. Maintenance
11				13. Standby (Explain)
12				14. Other (Explain)
1				15. Logging
2				16. Water Trip
3			VIS IN OUT	
4			Temp 11.4 120	
5			WT 9.4	
6			PH 9	
7	6	2354	mid mud	MATERIALS USED
8	4		Drilling	Mud 6 sacks
9				LC Type _____
10				Can-Lyne 1 sacks
11				CMC 1 1/2 sacks
12				_____ 1 sacks
1				Viscose 150 Lb.
2				Cement 100 Lb.
3				Diesel 1 Gal.
4				Foamer 1 Gal.
5				Detergent 1 Gal.
6				Other _____
7				
8				
9				
10				
11				
12				
1				

Footage: FROM 2325 TO 2375 TOTAL FOOTAGE 50 AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____

Approved _____
Approved Client Representative



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Phone 801/673-4016
or 673-4025

CLIENT _____
PROJECT Gordon Miller
CLIENT REP _____

Date: 10-24-82		Hole # 45-14 Rig # 11		Driller: JD	Supervisor:
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
12	10	2375	Thripin P2 pump clutch yoke	2. Rig Up	
1	4		Drilling	3. Reenter Hole	
2				4. Drilling	
3				5. Pull Pipe	
4				6. Mix Mud & Fill	
5				7. Coring	
6				8. Install Casing/Pipe	
7				9. Cementing	
8				10. Rig Down	
9				11. Move Rig to New Site	
10				12. Maintenance	
11				13. Standby (Explain)	
12				14. Other (Explain)	
1				15. Logging	
				16. Water Trip	
				MATERIALS USED	
				Mud _____ sacks	
				LC _____ Type _____	
				Signite 1/1 sacks	
				_____ 1 sacks	
				_____ 1 sacks	
				Viscose _____ 150 Lb.	
				Cement _____ 100 Lb.	
				Diesel _____ Gal.	
				Foamer _____ Gal.	
				Detergent _____ Gal.	
				Other _____	
				CREW HOURS	
				Driller JD 12	
				Helper DR 12	
				Helper BR 12	
				Helper _____	
				WATER TRIP MILES -	

Footage: FROM 2375 TO 2412 TOTAL FOOTAGE 37 AIR MUD A HAMMER

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____

Form No. 572-
Creative Impressions—St. George, Utah—673-6646

Date: 10-24-82		Hole # 45-14 Rig # 11		Driller: MB	Supervisor:
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
12		2412		2. Rig Up	
1		2414	Drilling	3. Reenter Hole	
2				4. Drilling	
3				5. Pull Pipe	
4				6. Mix Mud & Fill	
5				7. Coring	
6				8. Install Casing/Pipe	
7				9. Cementing	
8				10. Rig Down	
9				11. Move Rig to New Site	
10				12. Maintenance	
11				13. Standby (Explain)	
12				14. Other (Explain)	
1				15. Logging	
				16. Water Trip	
				MATERIALS USED	
				Mud _____ sacks	
				LC _____ Type _____	
				CNC 1 1/4 sacks	
				Cuckoo 1 sacks	
				_____ 1 sacks	
				Viscose _____ 150 Lb.	
				Cement _____ 100 Lb.	
				Diesel _____ Gal.	
				Foamer _____ Gal.	
				Detergent _____ Gal.	
				Other _____	
				CREW HOURS	
				Driller MB 12	
				Helper _____ 12	
				Helper _____ 12	
				Helper _____	
				WATER TRIP MILES -	

Footage: FROM 2412 TO 2462 TOTAL FOOTAGE 50 AIR MUD C HAMMER

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____

Approved Client Representative



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Central, Utah 84722

Phone 801/673-4016
or 673-4025

CLIENT _____

PROJECT _____

CLIENT REP. Gordy Gallon

Date: 10-25-82		Hole # 45-14 Rig # 11		Driller: J D	Supervisor:
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
12	1	2462	Drilling	2. Rig Up	
				3. Reenter Hole	
				4. Drilling	
				5. Pull Pipe	
				6. Mix Mud & Fill	
				7. Coring	
				8. Install Casing/Pipe	
				9. Cementing	
				10. Rig Down	
				11. Move Rig to New Site	
				12. Maintenance	
				13. Standby (Explain)	
				14. Other (Explain)	
				15. Logging	
				16. Water Trip	
			46 43		
			VIS-INJECT		
			Temp 110 120		
			W/H 4/3		
			PH 4		
				MATERIALS USED	
				Mud _____ sacks	
				LC _____ Type _____	
				Logitec _____ sacks	
				_____ sacks	
				_____ sacks	
				Viscose _____ / 50 Lb.	
				Cement _____ / 100 Lb.	
				Diesel _____ / Gal.	
				Foamer _____ / Gal.	
				Detergent _____ / Gal.	
				Other _____	
				CREW HOURS	
				Driller J D 12	
				Helper B O 2	
				Helper D A 2	
				Helper F L 2	
				WATER TRIP MILES -	

Footage: FROM 2462 TO 2513 TOTAL FOOTAGE 51 AIR _____ MUD HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Form No. 673-4016
Creative Impressions—St. George, Utah—673-6646

Date: 10-25-82		Hole # 45-14 Rig # 11		Driller: MS	Supervisor:
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
12				2. Rig Up	
				3. Reenter Hole	
				4. Drilling	
				5. Pull Pipe	
				6. Mix Mud & Fill	
				7. Coring	
				8. Install Casing/Pipe	
				9. Cementing	
				10. Rig Down	
				11. Move Rig to New Site	
				12. Maintenance	
				13. Standby (Explain)	
				14. Other (Explain)	
				15. Logging	
				16. Water Trip	
				MATERIALS USED	
				Mud _____ sacks	
				LC _____ Type _____	
				_____ sacks	
				_____ sacks	
				_____ sacks	
				Viscose _____ / 50 Lb.	
				Cement _____ / 100 Lb.	
				Diesel _____ / Gal.	
				Foamer _____ / Gal.	
				Detergent _____ / Gal.	
				Other _____	
				CREW HOURS	
				Driller MS 12	
				Helper _____ 12	
				Helper _____ 12	
				Helper _____ 12	
				WATER TRIP MILES -	

Footage: FROM 2513 TO 2529 TOTAL FOOTAGE 16 AIR _____ MUD HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ " Approved _____

Approved Client Representative



Mailing Address: Box 52
Central, Utah 84722
Phone 801/673-4016
or 673-4025

CLIENT _____
PROJECT Gordy Gallan
CLIENT REP Gordy Gallan

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
12	5		POH - Dev tool in drill string shows 5' Dev.	
1				
2	12		Twist clutch slipping at 20,000 lbs. - checked - cleaned & reinstalled clutch control valve - checked clutch for adjustment and checked air bleeder	
3				
4				
5				
6				
7				
8	6		cleaned both pits pulled with fresh water and cleaned up 3rd pit & mixed mud	
9				
10				
11				
12				
1				

1. Crew Travel To Site
2. Rig Up
3. Reenter Hole
4. Drilling
5. Pull Pipe
6. Mix Mud & Fill
7. Coring
8. Install Casing/Pipe
9. Cementing
10. Rig Down
11. Move Rig to New Site
12. Maintenance
13. Standby (Explain)
14. Other (Explain)
15. Logging
16. Water Trip

MATERIALS USED
Mud 46 sacks
LC _____ Type _____
CMC 100 sacks
Sack 10 sacks
Viscose _____ / 50 Lb.
Cement _____ / 100 Lb.
Diesel _____ / Gal.
Foamer _____ / Gal.
Detergent _____ / Gal.
Other _____

CREW HOURS
Driller 17 1/2
Helper 10 1/2
Helper 14 1/2
Helper 6 1/2

Footage: FROM _____ TO _____ TOTAL FOOTAGE _____ AIR _____ MUD _____ HAMMER _____
Bit _____ changed at _____ Size _____"
Bit _____ changed at _____ Size _____"
Bit _____ changed at _____ Size _____"

Form No. 572-
Creative Impressions—St. George, Utah—673-6646

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
12				
1				
2	12		Change Babb on Rig. Replace P.C. line on P.C. mud works. Check gear Box	
3				
4	14		Pick up B.H.A	
5	5		R.H.	
6	6		Mix mud	
7	12		Add water to B.H.A pits	
8			up to lift B.H.A	
9			Mix off slips 1 1/2	
10			At 40,000 lbs. FIT sub	
11			string wt 1 stab	
12			1-DC	
1			1-stab	
2			2-DC	
3			1-stab	
4			7-DC	
5			278 FL total	
6				
7				
8				
9				
10				
11				
12				
1				

1. Crew Travel To Site
2. Rig Up
3. Reenter Hole
4. Drilling
5. Pull Pipe
6. Mix Mud & Fill
7. Coring
8. Install Casing/Pipe
9. Cementing
10. Rig Down
11. Move Rig to New Site
12. Maintenance
13. Standby (Explain)
14. Other (Explain)
15. Logging
16. Water Trip

MATERIALS USED
Mud 15 sacks
LC _____ Type _____
_____ / _____ sacks
_____ / _____ sacks
Viscose _____ / 50 Lb.
Cement _____ / 100 Lb.
Diesel _____ / Gal.
Foamer _____ / Gal.
Detergent _____ / Gal.
Other _____

CREW HOURS
Driller 16 1/2
Helper 15 1/2
Helper 14 1/2
Helper 14 1/2

Footage: FROM 2509 TO 2529 TOTAL FOOTAGE 0 AIR _____ MUD C HAMMER _____
Bit W.H. 237 changed at 2529 Size 6 1/2" J33
Bit _____ changed at _____ Size _____"
Bit _____ changed at _____ Size _____" Approved _____

Approved Client Representative



Mailing Address: Box 52
Central, Utah 84722
Phone 801/673-4016
or 673-4025

CLIENT _____
PROJECT _____
CLIENT REP. Gordy Haller

Date: 10-28-82 Hole# 45-14 Rig# 11 Driller: J.D. Supervisor: D.W.

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				1. Crew Travel To Site
12	5		POH to pick up 8 5/8 hole opening.	2. Rig Up
1	473		make up hole opening & 1 1/2 H.	3. Reenter Hole
2				4. Drilling
3				5. Pull Pipe
4	6		water pit & mud mud.	6. Mix Mud & Fill
5	475		opening hole to 8 5/8	7. Coring
6	496			8. Install Casing/Pipe
7	516			9. Cementing
8	536			10. Rig Down
9	556			11. Move Rig to New Site
10	576			12. Maintenance
11	596			13. Standby (Explain)
12	616			14. Other (Explain)
1	636			15. Logging
2	656			16. Water Trip
3	676			
4	696			
5	716			
6				
7				
8				
9				
10				
11				
12				
1				

MATERIALS USED
Mud 10 sacks
LC _____ Type _____
S-ash 1 sacks
_____ / sacks
_____ / sacks
Viscose _____ / 50 Lb.
Cement _____ / 100 Lb.
Diesel _____ / Gal.
Foamer _____ / Gal.
Detergent _____ / Gal.
Other _____

CREW HOURS
Driller J.D. 12
Helper B.O. 12
Helper B.R. 12
Helper _____

WATER TRIP MILES - _____

Footage: FROM 475 TO 716 TOTAL FOOTAGE 241 AIR _____ MUD X HAMMER _____

Bit hole opening changed at _____ Size 8 5/8

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____

Form No. 5
Creative Impressions - St. George, Utah - 673-6646

Date: 10-28-82 Hole# 45-14 Rig# 11 Driller: MB Supervisor: D.W.

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				1. Crew Travel To Site
12		716		2. Rig Up
1			opening hole to 8 5/8	3. Reenter Hole
2		736		4. Drilling
3				5. Pull Pipe
4				6. Mix Mud & Fill
5				7. Coring
6				8. Install Casing/Pipe
7				9. Cementing
8				10. Rig Down
9				11. Move Rig to New Site
10				12. Maintenance
11				13. Standby (Explain)
12				14. Other (Explain)
1				15. Logging
2				16. Water Trip
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
1				

MATERIALS USED
Mud _____ sacks
LC _____ Type _____
_____ / sacks
_____ / sacks
_____ / sacks
Viscose _____ / 50 Lb.
Cement _____ / 100 Lb.
Diesel _____ / Gal.
Foamer _____ / Gal.
Detergent _____ / Gal.
Other _____

CREW HOURS
Driller MB 12
Helper BS 12
Helper TV 12
Helper Bit 12

WATER TRIP MILES - _____

Footage: FROM 716 TO 758 TOTAL FOOTAGE 42 AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____ Approved _____

Approved Client Representative



Mailing Address: Box 52
Central, Utah 84722

Phone 801/673-4016
or 673-4025

CLIENT _____

PROJECT _____

CLIENT REP. _____

Date: 10-29-82 Hole # 45-14 Rig # 11 Driller: J.D. Supervisor: D.W.

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				1. Crew Travel To Site
12	<u>77</u>	<u>758</u>		2. Rig Up
				3. Reenter Hole
				4. Drilling
1				5. Pull Pipe
				6. Mix Mud & Fill
				7. Coring
				8. Install Casing/Pipe
2				9. Cementing
				10. Rig Down
				11. Move Rig to New Site
3				12. Maintenance
				13. Standby (Explain)
				14. Other (Explain)
4				15. Logging
				16. Water Trip
MATERIALS USED				
5			Mud <u>4</u> sacks	
			LC _____ Type _____	
6			_____ / sacks	
			_____ / sacks	
7		<u>776</u>	_____ / sacks	
			Viscose _____ / 50 Lb.	
8			Cement _____ / 100 Lb.	
			Diesel _____ / Gal.	
9			Foamer _____ / Gal.	
			Detergent _____ / Gal.	
10			Other _____	
CREW HOURS				
11			Driller <u>J.D.</u>	
12			Helper <u>B.O.</u>	
			Helper <u>B.O.</u>	
1			Helper _____	
WATER TRIP MILES -				

Footage: FROM 758 TO 786 TOTAL FOOTAGE 38 AIR _____ MUD X HAMMER _____

Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"

Form No. 572-
Creative Impressions—St. George, Utah—673-6646

Date: 10-29-82 Hole # 45-14 Rig # 11 Driller: M.B. Supervisor: P.H.

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				1. Crew Travel To Site
12		<u>786</u>		2. Rig Up
				3. Reenter Hole
				4. Drilling
1				5. Pull Pipe
				6. Mix Mud & Fill
				7. Coring
				8. Install Casing/Pipe
2				9. Cementing
				10. Rig Down
				11. Move Rig to New Site
3				12. Maintenance
				13. Standby (Explain)
				14. Other (Explain)
4				15. Logging
				16. Water Trip
MATERIALS USED				
5			Mud _____ sacks	
			LC _____ Type _____	
6			_____ / sacks	
			_____ / sacks	
7			_____ / sacks	
			Viscose _____ / 50 Lb.	
8		<u>796</u>	Cement _____ / 100 Lb.	
			Diesel _____ / Gal.	
9			Foamer _____ / Gal.	
			Detergent _____ / Gal.	
10			Other _____	
CREW HOURS				
11			Driller <u>M.B.</u>	
12			Helper <u>B.O.</u>	
			Helper <u>B.O.</u>	
1			Helper _____	
WATER TRIP MILES -				

Footage: FROM 786 TO 796 TOTAL FOOTAGE 10 AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"

Approved _____
Approved Client Representative



Mailing Address: Box 52
 Central, Utah 84722
 Phone 801/673-4018
 or 673-4025

CLIENT _____
 PROJECT _____
 CLIENT REP. _____

Date: 10-30-82 Hole# 45-M Rig# 11 Driller: MS Supervisor: DW

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				1. Crew Travel To Site
12	<u>14</u>		<u>LDDP</u>	2. Rig Up
1			<u>Picking up and Load Equip</u>	3. Reenter Hole
2				4. Drilling
3				5. Pull Pipe
4				6. Mix Mud & Fill
5				7. Coring
6				8. Install Casing/Pipe
7				9. Cementing
8				10. Rig Down
9				11. Move Rig to New Site
10				12. Maintenance
11				13. Standby (Explain)
12				14. Other (Explain)
1				15. Logging
2				16. Water Trip
MATERIALS USED				
Mud _____ sacks				
LC _____ Type _____				
_____ / sacks				
_____ / sacks				
Viscose _____ / 50 Lb.				
Cement _____ / 100 Lb.				
Diesel _____ / Gal.				
Foamer _____ / Gal.				
Detergent _____ / Gal.				
Other _____				
CREW HOURS				
Driller _____				
Helper _____				
Helper _____				
Helper _____				
WATER TRIP MILES - _____				

MS 11
 JD 11
 KS 11
 BR 11
 BO 11
 BG 11
 JW 11

Date: 10-31-82 Hole# 45-M Rig# 11 Driller: MS Supervisor: DW

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				1. Crew Travel To Site
12				2. Rig Up
1				3. Reenter Hole
2				4. Drilling
3	<u>15</u>		<u>Logging Hole</u>	5. Pull Pipe
4				6. Mix Mud & Fill
5				7. Coring
6				8. Install Casing/Pipe
7				9. Cementing
8				10. Rig Down
9				11. Move Rig to New Site
10				12. Maintenance
11				13. Standby (Explain)
12				14. Other (Explain)
1				15. Logging
2				16. Water Trip
MATERIALS USED				
Mud _____ sacks				
LC _____ Type _____				
_____ / sacks				
_____ / sacks				
Viscose _____ / 50 Lb.				
Cement _____ / 100 Lb.				
Diesel _____ / Gal.				
Foamer _____ / Gal.				
Detergent _____ / Gal.				
Other _____				
CREW HOURS				
Driller _____				
Helper _____				
Helper _____				
Helper _____				
WATER TRIP MILES - _____				

8-11-82

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Form No. 572-
 Creative Impressions—St. George, Utah—673-6646

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ " Approved _____

Approved Client Representative



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or 673-4025

CLIENT _____
PROJECT _____
CLIENT REP. _____

Date: 11-1-82 Hole # 45-14 Rig # 11 Driller: MS Supervisor: DL

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
12				
9	10		Rig Down	
10				
11	11		Move Rig to Radio Junction	
12				
1	14		Remove Mud from pits	
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
1				

1. Crew Travel To Site
2. Rig Up
3. Reenter Hole
4. Drilling
5. Pull Pipe
6. Mix Mud & Fill
7. Coring
8. Install Casing/Pipe
9. Cementing
10. Rig Down
11. Move Rig to New Site
12. Maintenance
13. Standby (Explain)
14. Other (Explain)
15. Logging
16. Water Trip

MATERIALS USED
Mud _____ sacks
LC _____ Type _____
_____ / sacks
_____ / sacks
Viscose _____ / 50 Lb.
Cement _____ / 100 Lb.
Diesel _____ / Gal.
Foamer _____ / Gal.
Detergent _____ / Gal.
Other _____

CREW HOURS
Driller: MS
Helper: DL
Helper: MS
Helper: DL

WATER TRIP MILES - _____

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Form No. 572-
Creative Impressions—St. George, Utah—673-6646

Date: _____ Hole # _____ Rig # _____ Driller: _____ Supervisor: _____

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
12				
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
1				

1. Crew Travel To Site
2. Rig Up
3. Reenter Hole
4. Drilling
5. Pull Pipe
6. Mix Mud & Fill
7. Coring
8. Install Casing/Pipe
9. Cementing
10. Rig Down
11. Move Rig to New Site
12. Maintenance
13. Standby (Explain)
14. Other (Explain)
15. Logging
16. Water Trip

MATERIALS USED
Mud _____ sacks
LC _____ Type _____
_____ / sacks
_____ / sacks
Viscose _____ / 50 Lb.
Cement _____ / 100 Lb.
Diesel _____ / Gal.
Foamer _____ / Gal.
Detergent _____ / Gal.
Other _____

CREW HOURS
Driller: _____
Helper: _____
Helper: _____
Helper: _____

WATER TRIP MILES - _____

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ " Approved _____



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CLIENT _____
PROJECT _____
CLIENT REP. _____

Date: 11-1-82 Hole# 45-14 Rig# 11 Driller: MS Supervisor: DW

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
8 12				
9 1	<u>10</u>		<u>Rig Down</u>	
10 2				
11 3	<u>11</u>		<u>Move Rig to Paris Junction</u>	
12 4				
1 5	<u>14</u>		<u>Remove Mud From pits</u>	
2 6				
3 7				
4 8				
5 9				
6 10				
11				
12				
1				

1. Crew Travel To Site
2. Rig Up
3. Reenter Hole
4. Drilling
5. Pull Pipe
6. Mix Mud & Fill
7. Coring
8. Install Casing/Pipe
9. Cementing
10. Rig Down
11. Move Rig to New Site
12. Maintenance
13. Standby (Explain)
14. Other (Explain)
15. Logging
16. Water Trip

MATERIALS USED
Mud _____ sacks
LC _____ Type _____
_____ / _____ sacks
_____ / _____ sacks
_____ / _____ sacks
Viscose _____ / 50 Lb.
Cement _____ / 100 Lb.
Diesel _____ / Gal.
Foamer _____ / Gal.
Detergent _____ / Gal.
Other _____

CREW HOURS
Driller MS
Helper MS
Helper TW
Helper DW

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WATER TRIP MILES - _____

Date: _____ Hole# _____ Rig# _____ Driller: _____ Supervisor: _____

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
12				
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
1				

1. Crew Travel To Site
2. Rig Up
3. Reenter Hole
4. Drilling
5. Pull Pipe
6. Mix Mud & Fill
7. Coring
8. Install Casing/Pipe
9. Cementing
10. Rig Down
11. Move Rig to New Site
12. Maintenance
13. Standby (Explain)
14. Other (Explain)
15. Logging
16. Water Trip

MATERIALS USED
Mud _____ sacks
LC _____ Type _____
_____ / _____ sacks
_____ / _____ sacks
_____ / _____ sacks
Viscose _____ / 50 Lb.
Cement _____ / 100 Lb.
Diesel _____ / Gal.
Foamer _____ / Gal.
Detergent _____ / Gal.
Other _____

CREW HOURS
Driller _____
Helper _____
Helper _____
Helper _____

WATER TRIP MILES - _____

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____
Bit _____ changed at _____ ' Size _____ "
Bit _____ changed at _____ ' Size _____ "
Bit _____ changed at _____ ' Size _____ "

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____
Bit _____ changed at _____ ' Size _____ "
Bit _____ changed at _____ ' Size _____ "
Bit _____ changed at _____ ' Size _____ " Approved _____



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CLIENT _____
PROJECT _____
CLIENT REP. _____

Date: 10-30-82		Hole# 45-14 Rig# 11		Driller: MB	Supervisor: DW
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
12	14		LDDP	2. Rig Up	
1			Pick up and load Equip	3. Reenter Hole	
2				4. Drilling	
3				5. Pull Pipe	
4				6. Mix Mud & Fill	
5				7. Coring	
6				8. Install Casing/Pipe	
7				9. Cementing	
8				10. Rig Down	
9				11. Move Rig to New Site	
10				12. Maintenance	
11				13. Standby (Explain)	
12				14. Other (Explain)	
1				15. Logging	
2				16. Water Trip	
MATERIALS USED					
5				Mud	_____ sacks
6				LC	_____ Type _____
7					_____ / _____ sacks
8					_____ / _____ sacks
9				Viscose	_____ / 50 Lb.
10				Cement	_____ / 100 Lb.
11				Diesel	_____ / Gal.
12				Foamer	_____ / Gal.
1				Detergent	_____ / Gal.
2				Other	_____
CREW HOURS					
11				Driller	_____ / _____
12				Helper	_____ / _____
1				Helper	_____ / _____
2				Helper	_____ / _____
WATER TRIP MILES -					

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____
 Bit _____ changed at _____ ' Size _____ "
 Bit _____ changed at _____ ' Size _____ "
 Bit _____ changed at _____ ' Size _____ "

Date: 10-31-82		Hole# 45-14 Rig# 11		Driller: MB	Supervisor: DW
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
12				2. Rig Up	
1				3. Reenter Hole	
2				4. Drilling	
3				5. Pull Pipe	
4				6. Mix Mud & Fill	
5				7. Coring	
6				8. Install Casing/Pipe	
7				9. Cementing	
8				10. Rig Down	
9				11. Move Rig to New Site	
10				12. Maintenance	
11				13. Standby (Explain)	
12				14. Other (Explain)	
1				15. Logging	
2				16. Water Trip	
MATERIALS USED					
5				Mud	_____ sacks
6				LC	_____ Type _____
7					_____ / _____ sacks
8					_____ / _____ sacks
9				Viscose	_____ / 50 Lb.
10				Cement	_____ / 100 Lb.
11				Diesel	_____ / Gal.
12				Foamer	_____ / Gal.
1				Detergent	_____ / Gal.
2				Other	_____
CREW HOURS					
11				Driller	_____ / _____
12				Helper	_____ / _____
1				Helper	_____ / _____
2				Helper	_____ / _____
WATER TRIP MILES -					

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____
 Bit _____ changed at _____ ' Size _____ "
 Bit _____ changed at _____ ' Size _____ "
 Bit _____ changed at _____ ' Size _____ " Approved _____



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CLIENT _____
 PROJECT _____
 CLIENT REP. _____

Date: 10-29-82 Hole# 45-14 Rig# 11 Driller: JD Supervisor: DW

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				1. Crew Travel To Site
12	4	758		2. Rig Up
				3. Reenter Hole
				4. Drilling
				5. Pull Pipe
				6. Mix Mud & Fill
				7. Coring
				8. Install Casing/Pipe
				9. Cementing
				10. Rig Down
				11. Move Rig to New Site
				12. Maintenance
				13. Standby (Explain)
				14. Other (Explain)
				15. Logging
				16. Water Trip
MATERIALS USED				
Mud 4 sacks				
LC _____ Type _____				
_____ / sacks				
_____ / sacks				
_____ / sacks				
Viscose _____ / 50 Lb.				
Cement _____ / 100 Lb.				
Diesel _____ / Gal.				
Foamer _____ / Gal.				
Detergent _____ / Gal.				
Other _____				
CREW HOURS				
Driller JD 12				
Helper BO 12				
Helper BA 12				
Helper _____				
WATER TRIP MILES -				

Footage: FROM 758 TO 786 TOTAL FOOTAGE 38 AIR _____ MUD X HAMMER _____

Bit _____ changed at _____' Size _____"
 Bit _____ changed at _____' Size _____"
 Bit _____ changed at _____' Size _____"

Date: 10-29-82 Hole# 45-14 Rig# 11 Driller: MB Supervisor: PW

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				1. Crew Travel To Site
12		786		2. Rig Up
				3. Reenter Hole
				4. Drilling
				5. Pull Pipe
				6. Mix Mud & Fill
				7. Coring
				8. Install Casing/Pipe
				9. Cementing
				10. Rig Down
				11. Move Rig to New Site
				12. Maintenance
				13. Standby (Explain)
				14. Other (Explain)
				15. Logging
				16. Water Trip
MATERIALS USED				
Mud _____ sacks				
LC _____ Type _____				
_____ / sacks				
_____ / sacks				
_____ / sacks				
Viscose _____ / 50 Lb.				
Cement _____ / 100 Lb.				
Diesel _____ / Gal.				
Foamer _____ / Gal.				
Detergent _____ / Gal.				
Other _____				
CREW HOURS				
Driller MB 12				
Helper BS 12				
Helper TA 12				
Helper _____				
WATER TRIP MILES -				

Footage: FROM 786 TO 796 TOTAL FOOTAGE 10 AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____' Size _____"
 Bit _____ changed at _____' Size _____"
 Bit _____ changed at _____' Size _____"
 Bit _____ changed at _____' Size _____" Approved _____



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CLIENT _____
PROJECT _____
CLIENT REP. Gardner Hallan

Date: 10-28-82		Hole# 45-14		Rig# 11		Driller: J.D.		Supervisor: D.W.	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
11									
12	5		POH to pick up 8 5/8 hole opener.						
1									
2	473		mud up hole opener & 1 1/4 H.						
3									
4	6		water pit & mud mud.						
5	475		opening hole to 8 5/8						
6		496							
7		516							
8		536							
9		556							
10	6	576	wait mud						
11	4	596							
12		616							
1		636							
2		656							
3		676							
4		696							
5		716							
6									
7									
8									
9									
10									
11									
12									
1									

1. Crew Travel To Site
2. Rig Up
3. Reenter Hole
4. Drilling
5. Pull Pipe
6. Mix Mud & Fill
7. Coring
8. Install Casing/Pipe
9. Cementing
10. Rig Down
11. Move Rig to New Site
12. Maintenance
13. Standby (Explain)
14. Other (Explain)
15. Logging
16. Water Trip

MATERIALS USED
Mud 10 sacks
LC _____ Type _____
S. ash 1 sacks
_____ 1 sacks
_____ 1 sacks
Viscose 150 Lb.
Cement 100 Lb.
Diesel 1 Gal.
Foamer 1 Gal.
Detergent 1 Gal.
Other _____

CREW HOURS
Driller J.D. 12
Helper B.O. 12
Helper B.R. 12
Helper _____

WATER TRIP MILES -

Footage: FROM 475 TO 716 TOTAL FOOTAGE 241 AIR _____ MUD HAMMER _____

Bit 3/8" changed at _____ Size 8 5/8"
Bit _____ changed at _____ Size _____"
Bit _____ changed at _____ Size _____"

Date: 10-28-82		Hole# 45-14		Rig# 11		Driller: MB		Supervisor: D.W.	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
11									
12		716							
1			opening hole to 8 5/8						
2		736							
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
1									

1. Crew Travel To Site
2. Rig Up
3. Reenter Hole
4. Drilling
5. Pull Pipe
6. Mix Mud & Fill
7. Coring
8. Install Casing/Pipe
9. Cementing
10. Rig Down
11. Move Rig to New Site
12. Maintenance
13. Standby (Explain)
14. Other (Explain)
15. Logging
16. Water Trip

MATERIALS USED
Mud _____ sacks
LC _____ Type _____
_____ 1 sacks
_____ 1 sacks
_____ 1 sacks
Viscose 150 Lb.
Cement 100 Lb.
Diesel 1 Gal.
Foamer 1 Gal.
Detergent 1 Gal.
Other _____

CREW HOURS
Driller MB 12
Helper B.O. 12
Helper B.R. 12
Helper _____

WATER TRIP MILES -

Footage: FROM 716 TO 758 TOTAL FOOTAGE 42 AIR _____ MUD HAMMER _____

Bit _____ changed at _____ Size _____"
Bit _____ changed at _____ Size _____"
Bit _____ changed at _____ Size _____"

BHA
6 1/2 Pilot Bit
8 5/8 H.C.
7 1/4 sub
1 stab
1 PC
1 stab
2 PC
1 stab
7 PC
276' total



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or 673-4025

CLIENT _____
PROJECT _____
CLIENT REP. Gordy Gallan

Date: 10-26-82		Hole# 45-14		Rig# 11		Driller: JO		Supervisor: DW	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #		MATERIALS USED			
11				1. Crew Travel To Site					
12	5		POH - New tool in drill string shows 5° Dev.	2. Rig Up					
1				3. Reenter Hole					
2	12		Reinst clutch slipping at 20,000 lbs. - checked - cleaned & reinstalled clutch central valve - checked clutch for adjustment and checked air bladder	4. Drilling					
3				5. Pull Pipe					
4				6. Mix Mud & Fill					
5				7. Coring					
6				8. Install Casing/Pipe					
7				9. Cementing					
8	6		Cleaned both pits filled with fresh water and cleaned up 3rd pit to inner island	10. Rig Down					
9				11. Move Rig to New Site					
10				12. Maintenance					
11				13. Standby (Explain)					
12				14. Other (Explain)					
1				15. Logging					
				16. Water Trip					
		WATER TRIP MILES -							

Footage: FROM _____ TO _____ TOTAL FOOTAGE _____ AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____

Date: 10-26-82		Hole# 45-14		Rig# 11		Driller: MB		Supervisor: DW	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #		MATERIALS USED			
11				1. Crew Travel To Site					
12				2. Rig Up					
1				3. Reenter Hole					
2				4. Drilling					
3	12		Change Batt on rig. Replace Air line on. Prow works check gear boxes	5. Pull Pipe					
4				6. Mix Mud & Fill					
5				7. Coring					
6				8. Install Casing/Pipe					
7				9. Cementing					
8	14		Pick up BHA	10. Rig Down					
9				11. Move Rig to New Site					
10	5		RTH	12. Maintenance					
11				13. Standby (Explain)					
12				14. Other (Explain)					
1				15. Logging					
				16. Water Trip					
		WATER TRIP MILES -							

TEMP in crew

Footage: FROM 2529 TO 2529 TOTAL FOOTAGE 0 AIR _____ MUD _____ HAMMER _____

Bit W H 237 changed at 2529 Size 6 1/2" J 33

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____ Approved _____



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or 673-4025

CLIENT _____
PROJECT _____
CLIENT REP. Gordy Gallen

Date: 10-25-82		Hole# 45-14 Rig# 11		Driller: JD	Supervisor:
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
12	4	2462	Drilling	2. Rig Up	
1				3. Reenter Hole	
130		2474		4. Drilling	
1				5. Pull Pipe	
2				6. Mix Mud & Fill	
3				7. Coring	
4				8. Install Casing/Pipe	
5				9. Cementing	
6				10. Rig Down	
7				11. Move Rig to New Site	
8				12. Maintenance	
9				13. Standby (Explain)	
10				14. Other (Explain)	
11				15. Logging	
12				16. Water Trip	
			46 43	MATERIALS USED	
			W/S-IN/OUT	Mud _____ sacks	
			Temp 110 130	LC _____ Type _____	
			W/A 4/3	Logitec 1 / sacks	
			PH 9	_____ / sacks	
				_____ / sacks	
				Viscose _____ / 50 Lb.	
			BH A	Cement _____ / 100 Lb.	
			6/2 bit	Diesel _____ / Gal.	
			great hole	Foamer _____ / Gal.	
130	14	2500	Circ to clean hole for Dr. Tool	Detergent _____ / Gal.	
	15		Run Dr. Tool	Other _____	
			with wind line	CREW HOURS	
	4		Drilling-adding	Driller JD 12	
			with	Helper BO 2	
				Helper DA 2	
				Helper FL 2	
			273' total	WATER TRIP MILES -	

Footage: FROM 2462 TO 2513 TOTAL FOOTAGE 51 AIR _____ MUD HAMMER _____

Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"

Date: 10-25-82		Hole# 45-14 Rig# 11		Driller: MS	Supervisor:
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
12	4	2513	Drilling	2. Rig Up	
1				3. Reenter Hole	
1	14		Circ to clean hole for	4. Drilling	
1	15		Dr. Tool - Run Log	5. Pull Pipe	
1	14		Circ Hole - and make Conf.	6. Mix Mud & Fill	
2	15	2514	Run - 5'	7. Coring	
3	4		Drilling	8. Install Casing/Pipe	
4				9. Cementing	
5				10. Rig Down	
6				11. Move Rig to New Site	
7				12. Maintenance	
8				13. Standby (Explain)	
9				14. Other (Explain)	
10				15. Logging	
11				16. Water Trip	
				MATERIALS USED	
				Mud _____ sacks	
				LC _____ Type _____	
				_____ / sacks	
				_____ / sacks	
				_____ / sacks	
				Viscose _____ / 50 Lb.	
				Cement _____ / 100 Lb.	
				Diesel _____ / Gal.	
				Foamer _____ / Gal.	
				Detergent _____ / Gal.	
				Other _____	
				CREW HOURS	
				Driller MS 12	
				Helper MS 12	
				Helper MS 12	
				Helper MS 12	
				Helper MS 12	
				WATER TRIP MILES -	

Temp in/out
108 130
116 132

Footage: FROM 2513 TO 2529 TOTAL FOOTAGE 16 AIR _____ MUD HAMMER _____

Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____" Approved _____



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CLIENT REP Gordon Ballan

Date: 10-24-82		Hole# 45-14 Rig# 11		Driller: JD		Supervisor: _____	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #			
11				1. Crew Travel To Site			
12	10	2375	Thru pipe Pump clutch yoke	2. Rig Up			
1	4		Drilling	3. Reenter Hole			
2				4. Drilling			
3				5. Pull Pipe			
4				6. Mix Mud & Fill			
5				7. Coring			
6				8. Install Casing/Pipe			
7				9. Cementing			
8				10. Rig Down			
9				11. Move Rig to New Site			
10				12. Maintenance			
11				13. Standby (Explain)			
12				14. Other (Explain)			
1				15. Logging			
2				16. Water Trip			
				MATERIALS USED			
				Mud _____ sacks			
				LC _____ Type _____			
				Lignite 11 sacks			
				_____ sacks			
				_____ sacks			
				Viscose _____ / 50 Lb.			
				Cement _____ / 100 Lb.			
				Diesel _____ / Gal.			
				Foamer _____ / Gal.			
				Detergent _____ / Gal.			
				Other _____			
				CREW HOURS			
				Driller JD 12			
				Helper BR 12			
				Helper BR 12			
				Helper BR 12			
				WATER TRIP MILES -			

Footage: FROM 2375 TO 2412 TOTAL FOOTAGE 37 AIR _____ MUD A HAMMER _____

Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____"

Date: 10-24-82		Hole# 45-14 Rig# 11		Driller: MB		Supervisor: _____	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #			
11				1. Crew Travel To Site			
12		2412		2. Rig Up			
1		2414	Drilling	3. Reenter Hole			
2				4. Drilling			
3				5. Pull Pipe			
4				6. Mix Mud & Fill			
5				7. Coring			
6				8. Install Casing/Pipe			
7				9. Cementing			
8				10. Rig Down			
9				11. Move Rig to New Site			
10				12. Maintenance			
11				13. Standby (Explain)			
12				14. Other (Explain)			
1				15. Logging			
2				16. Water Trip			
				MATERIALS USED			
				Mud _____ sacks			
				LC _____ Type _____			
				Coke 1 1/4 sacks			
				Coke lignite _____ sacks			
				_____ sacks			
				Viscose _____ / 50 Lb.			
				Cement _____ / 100 Lb.			
				Diesel _____ / Gal.			
				Foamer _____ / Gal.			
				Detergent _____ / Gal.			
				Other _____			
				CREW HOURS			
				Driller MB 12			
				Helper BR 12			
				Helper BR 12			
				Helper BR 12			
				WATER TRIP MILES -			

Footage: FROM 2412 TO 2462 TOTAL FOOTAGE 50 AIR _____ MUD C HAMMER _____

Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____" Approved _____



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CLIENT REP *G. J. Allen*

Date: 10-23-82		Hole # 45-14		Rig # 11		Driller: JD		Supervisor: DW	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
	4	2268	Drilling	1. Crew Travel To Site 2. Rig Up 3. Reenter Hole 4. Drilling 5. Pull Pipe 6. Mix Mud & Fill 7. Coring 8. Install Casing/Pipe 9. Cementing 10. Rig Down 11. Move Rig to New Site 12. Maintenance 13. Standby (Explain) 14. Other (Explain) 15. Logging 16. Water Trip					
		2274							
			VIS-IN out Temp 104 120 WT 9.3 PH 9						
	6	2294	with mud	MATERIALS USED Mud 2 sacks LC _____ Type _____ Spirited 1 sacks _____ 1 sacks _____ 1 sacks Viscose _____ / 50 Lb. Cement _____ / 100 Lb. Diesel _____ / Gal. Foamer _____ / Gal. Detergent _____ / Gal. Other _____					
	4		Drilling						
	24		Cine to clean hole for						
	14	2300	Dev. Test. BHA						
	15		Run Dev tool 6 1/2 Bit						
	4	2314	with wire line & lost sub drilling 2 1/4" 1 stab						
			1 DC						
			1 stab						
		2325	2 DC						
			1 stab						
			7 DC 273' T						
WATER TRIP MILES -									

Footage: FROM 2268 TO 2325 TOTAL FOOTAGE 57 AIR _____ MUD X HAMMER _____

Bit _____ changed at _____' Size _____"
Bit _____ changed at _____' Size _____"
Bit _____ changed at _____' Size _____"

Date: 10-23-82		Hole # 45-14		Rig # 11		Driller: MB		Supervisor: DW	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
	4	2325	Drilling	1. Crew Travel To Site 2. Rig Up 3. Reenter Hole 4. Drilling 5. Pull Pipe 6. Mix Mud & Fill 7. Coring 8. Install Casing/Pipe 9. Cementing 10. Rig Down 11. Move Rig to New Site 12. Maintenance 13. Standby (Explain) 14. Other (Explain) 15. Logging 16. Water Trip					
		2334							
			VIS IN 34 out 46 Temp 114 120 WT 9.4 PH 9						
	6	2354	Mix mud & checked	MATERIALS USED Mud 6 sacks LC _____ Type _____ Can type 1 sacks CMC 1 1/4 sacks _____ 1 sacks Viscose _____ / 50 Lb. Cement _____ / 100 Lb. Diesel _____ / Gal. Foamer _____ / Gal. Detergent _____ / Gal. Other _____					
	8		Drilling						
	24		BHA						
	18		6 1/2 Bit						
	15		7 1/2 sub						
			1 stab						
			1 DC						
			1 stab						
		2374	2 DC						
			1 stab						
			Check mud pump						
			7 DC 273 total						
WATER TRIP MILES - 14 = 1 Trip									

Footage: FROM 2325 TO 2375 TOTAL FOOTAGE 50 AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____' Size _____"
Bit _____ changed at _____' Size _____"
Bit _____ changed at _____' Size _____"
Bit _____ changed at _____' Size _____" Approved _____



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CLIENT REP Gordy Galvan

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
Date: <u>10-22-82</u> Hole # <u>45-14</u> Rig # <u>11</u> Driller: <u>JD</u> Supervisor: <u>DW</u>				
11				
12	3		BH	
1				
2	6		Drake Core 200' off bottom Core to mix & load mud.	
3	5		BH-10' fill V1S-IN45 out 40 Bottom up Temp 104 110	
4	4	2184	Temp -104 wt 8 Drilling PH 8	
5				
6			Back-4	
7		2194		
8	4		add water + BHA mix mud. 6 1/2 Bit Drilling 4 stab sub	
9	4	2206	hole using 1 stab fluid-add 1 DC	
10	4		water & mix 1 stab mud & LCM 2 DC	
11		2214	Drilling 1 stab 7 DC	
12		2218	273' total	
1			WATER TRIP MILES - 14 1 trip	

- Crew Travel To Site
- Rig Up
- Reenter Hole
- Drilling
- Pull Pipe
- Mix Mud & Fill
- Coring
- Install Casing/Pipe
- Cementing
- Rig Down
- Move Rig to New Site
- Maintenance
- Standby (Explain)
- Other (Explain)
- Logging
- Water Trip

MATERIALS USED
Mud 18 sacks
LC _____ Type _____
Lignite 1 sacks
Lash 11 sacks
CMC 11 sacks
Viscose 1 50 Lb.
Cement 1 100 Lb.
Diesel 1 Gal.
Foamer 1 Gal.
Detergent 1 Gal.
Other _____

CREW HOURS
Driller JD 12
Helper DO 12
Helper DK 12
Helper EL 12

Footage: FROM 2184 TO 2218 TOTAL FOOTAGE 34 AIR _____ MUD X HAMMER _____
Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____"

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
Date: <u>10-22-82</u> Hole # <u>45-14</u> Rig # <u>11</u> Driller: <u>MB</u> Supervisor: <u>DW</u>				
11				
12		2218		
1			Drilling	
2	4			
3		2234		
4			Vis in 42 out 34 Temp 111 - 117 WT 9.4 PH 9	
5				
6				
7				
8	4	2254	Add water and BHA Mix mud 7 1/2 stab	
9	4		1 stab	
10			1 DC	
11			1 stab	
12			2 DC	
1			1 stab 7 DC 223' Total	
			WATER TRIP MILES -	

TEMP
in out
106 112
105 112
108 116
111 117
104 112

- Crew Travel To Site
- Rig Up
- Reenter Hole
- Drilling
- Pull Pipe
- Mix Mud & Fill
- Coring
- Install Casing/Pipe
- Cementing
- Rig Down
- Move Rig to New Site
- Maintenance
- Standby (Explain)
- Other (Explain)
- Logging
- Water Trip

MATERIALS USED
Mud 6 sacks
LC _____ Type _____
Coal Lignite 1 sacks
CMC 1 1/4 sacks
_____ 1 sacks
Viscose 1 50 Lb.
Cement 1 100 Lb.
Diesel 1 Gal.
Foamer 1 Gal.
Detergent 1 Gal.
Other _____

CREW HOURS
Driller MB 12
Helper DO 12
Helper DK 12
Helper EL 12

Footage: FROM 2218 TO 2268 TOTAL FOOTAGE 50 AIR _____ MUD ✓ HAMMER _____
Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____" Approved _____



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CLIENT REP Gordy Gallon

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
0-192	4	2132	Drilling	1. Crew Travel To Site
		2134	adding water to keep vis down	2. Rig Up
1				3. Reenter Hole
2				4. Drilling
3				5. Pull Pipe
1-204		2154	VIS-IN40 OUT40 bump 110 120 Prt 7	6. Mix Mud & Fill
5				7. Coring
6				8. Install Casing/Pipe
7				9. Cementing
8				10. Rig Down
2-171		2174	BHA 6 1/2 bit float sub 1 stab	11. Move Rig to New Site
9			1-DC	12. Maintenance
10	14	2184	1 stab open up 3rd pit & mix mud	13. Standby (Explain)
11	4		drilling 7 DC	14. Other (Explain)
12				15. Logging
1				16. Water Trip

Footage: FROM 2132 TO 2184 TOTAL FOOTAGE 52 AIR _____ MUD HAMMER _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
12				
1	5		POH - 2184	1. Crew Travel To Site
2				2. Rig Up
3				3. Reenter Hole
4	3		Mix Mud and mud pits	4. Drilling
5	14		Pick up BHA R14	5. Pull Pipe
6	14		Close Hole to Land Run Down Tool	6. Mix Mud & Fill
7			POH Plugged Bit wet trip	7. Coring
8				8. Install Casing/Pipe
9				9. Cementing
10			Cleaned mud pump & lines	10. Rig Down
11				11. Move Rig to New Site
12				12. Maintenance
1				13. Standby (Explain)
				14. Other (Explain)
				15. Logging
				16. Water Trip

Footage: FROM 2184 TO 2184 TOTAL FOOTAGE -0- AIR _____ MUD HAMMER _____

Bit 163900 changed at 2184 Size 6 1/2 " HPSM J

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____ Approved _____



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PROJECT _____
CLIENT REP. *Gary G. Galloway*

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
10	4	2038	Drilling	
9				
8				
7				
6				
5				
4		2054	VIS-IN 52 OUT 50 Temp 107 115 wt PH 8	
3				
2				
1				
12				
11				
10				
9		2074	BHA 6 1/2 bit float sub 1 stab 1 DC	
8				
7				
6				
5				
4				
3				
2				
1				
12				
11		2081	1 stab 2 DC 7 DC 273' total	
10				
9				
8				
7				
6				
5				
4				
3				
2				
1				
12				
11				
10				
9				
8				
7				
6				
5				
4				
3				
2				
1				

Footage: FROM 2038 TO 2081 TOTAL FOOTAGE 47 AIR _____ MUD X HAMMER _____

Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____"
Bit _____ changed at _____ ' Size _____"

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
10				
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CLIENT _____
PROJECT _____
CLIENT REP Andy Gallan

Date: <u>11-19-82</u>		Hole# <u>45-14</u>		Rig# <u>11</u>	Driller: <u>JD</u>	Supervisor: _____
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #		
11					1. Crew Travel To Site	
12	<u>4</u>	<u>1954</u>	<u>Drilling</u>		2. Rig Up	
1					3. Reenter Hole	
2					4. Drilling	
3					5. Pull Pipe	
4					6. Mix Mud & Fill	
5					7. Coring	
6					8. Install Casing/Pipe	
7					9. Cementing	
8					10. Rig Down	
9					11. Move Rig to New Site	
10					12. Maintenance	
11					13. Standby (Explain)	
12					14. Other (Explain)	
1					15. Logging	
2					16. Water Trip	
3					MATERIALS USED	
4					Mud <u>6</u> sacks	
5					LC _____ Type _____	
6					<u>CMC</u> / <u>1</u> sacks	
7					/ <u>1</u> sacks	
8					/ <u>1</u> sacks	
9					Viscose _____ / 50 Lb.	
10					Cement _____ / 100 Lb.	
11					Diesel _____ / Gal.	
12					Foamer _____ / Gal.	
1					Detergent _____ / Gal.	
2					Other _____	
3					CREW HOURS	
4					Driller <u>JD</u> 12	
5					Helper <u>BO</u> 12	
6					Helper <u>BA</u> 12	
7					Helper <u>EH</u> 12	
8					WATER TRIP MILES -	

Footage: FROM 1954 TO 1994 TOTAL FOOTAGE 40 AIR _____ MUD X HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Date: <u>11-19-82</u>		Hole# <u>45-14</u>		Rig# <u>11</u>	Driller: <u>MS</u>	Supervisor: _____
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #		
11					1. Crew Travel To Site	
12					2. Rig Up	
1					3. Reenter Hole	
2					4. Drilling	
3					5. Pull Pipe	
4					6. Mix Mud & Fill	
5					7. Coring	
6					8. Install Casing/Pipe	
7					9. Cementing	
8					10. Rig Down	
9					11. Move Rig to New Site	
10					12. Maintenance	
11					13. Standby (Explain)	
12					14. Other (Explain)	
1					15. Logging	
2					16. Water Trip	
3					MATERIALS USED	
4					Mud _____ sacks	
5					LC _____ Type _____	
6					/ _____ sacks	
7					/ _____ sacks	
8					Viscose _____ / 50 Lb.	
9					Cement _____ / 100 Lb.	
10					Diesel _____ / Gal.	
11					Foamer _____ / Gal.	
12					Detergent _____ / Gal.	
1					Other _____	
2					CREW HOURS	
3					Driller <u>MS</u> 12	
4					Helper <u>CS</u> 12	
5					Helper <u>TH</u> 12	
6					Helper <u>BT</u> 12	
7					WATER TRIP MILES -	

Footage: FROM 1994 TO 2034 TOTAL FOOTAGE 40 AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Approved _____



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CLIENT _____
PROJECT _____
CLIENT REP. Dorothy Galton

Date: 10-18-82		Hole# 45-14 Rig# 11		Driller: JD	Supervisor: DW
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
				1. Crew Travel To Site	
				2. Rig Up	
				3. Reenter Hole	
				4. Drilling	
				5. Pull Pipe	
				6. Mix Mud & Fill	
				7. Coring	
				8. Install Casing/Pipe	
				9. Cementing	
				10. Rig Down	
				11. Move Rig to New Site	
				12. Maintenance	
				13. Standby (Explain)	
				14. Other (Explain)	
				15. Logging	
				16. Water Trip	
				MATERIALS USED	
				Mud	sacks
				LC	Type _____
					sacks
					sacks
					sacks
				Viscose	/ 50 Lb.
				Cement	/ 100 Lb.
				Diesel	/ Gal.
				Foamer	/ Gal.
				Detergent	/ Gal.
				Other	
				CREW HOURS	
				Driller	JD 12
				Helper	BO 12
				Helper	BR 12
				Helper	EL 12
				WATER TRIP MILES -	

TEMP
in out
100 104
96 101
98 104
100 105

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____
Bit T62783 changed at 1913 Size 6 1/2 " HPSMJ Reed
Bit _____ changed at _____ ' Size _____ "
Bit _____ changed at _____ ' Size _____ "

Date: 10-18-82		Hole# 45-14 Rig# 11		Driller: MB	Supervisor: DW
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
				1. Crew Travel To Site	
				2. Rig Up	
				3. Reenter Hole	
				4. Drilling	
				5. Pull Pipe	
				6. Mix Mud & Fill	
				7. Coring	
				8. Install Casing/Pipe	
				9. Cementing	
				10. Rig Down	
				11. Move Rig to New Site	
				12. Maintenance	
				13. Standby (Explain)	
				14. Other (Explain)	
				15. Logging	
				16. Water Trip	
				MATERIALS USED	
				Mud	14 sacks
				LC	Type _____
					sacks
					sacks
					sacks
				Viscose	/ 50 Lb.
				Cement	/ 100 Lb.
				Diesel	/ Gal.
				Foamer	/ Gal.
				Detergent	/ Gal.
				Other	
				CREW HOURS	
				Driller	MB 12
				Helper	AS 12
				Helper	TH 12
				Helper	SL 12
				WATER TRIP MILES - 14 1-Trip	

TEMP
in out
100 104
96 101
98 104
100 105

Footage: FROM 1913 ' TO 1954 ' TOTAL FOOTAGE 41 ' AIR _____ MUD _____ HAMMER _____
Bit _____ changed at _____ ' Size _____ "
Bit _____ changed at _____ ' Size _____ "
Bit _____ changed at _____ ' Size _____ " Approved _____



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CLIENT _____
PROJECT _____
CLIENT REP. _____

Date: 10-17-82		Hole# 45-14		Rig# 11	Driller: JD	Supervisor: DW
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #		
11				1. Crew Travel To Site		
12		1877	Drilling	2. Rig Up		
				3. Reenter Hole		
				4. Drilling		
				5. Pull Pipe		
				6. Mix Mud & Fill		
				7. Coring		
				8. Install Casing/Pipe		
				9. Cementing		
				10. Rig Down		
				11. Move Rig to New Site		
				12. Maintenance		
				13. Standby (Explain)		
				14. Other (Explain)		
				15. Logging		
				16. Water Trip		
				MATERIALS USED		
				Mud	6	sacks
				LC		Type _____
					1	sacks
					1	sacks
					1	sacks
				Viscose		/ 50 Lb.
				Cement		/ 100 Lb.
				Diesel		/ Gal.
				Foamer		/ Gal.
				Detergent		/ Gal.
				Other		
				CREW HOURS		
				Driller	JD	12
				Helper	JD	12
				Helper	DA	12
				Helper	EW	12
				WATER TRIP MILES - 14 1 trip		

Footage: FROM 1877 TO 1903 TOTAL FOOTAGE 31 AIR _____ MUD X HAMMER _____

Bit _____ changed at _____ ' Size _____"

Bit _____ changed at _____ ' Size _____"

Bit _____ changed at _____ ' Size _____"

Form No. 572-

Date: 10-17-82		Hole# 45-14		Rig# 11	Driller: MB	Supervisor: DW
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #		
11				1. Crew Travel To Site		
12		1903		2. Rig Up		
				3. Reenter Hole		
				4. Drilling		
				5. Pull Pipe		
				6. Mix Mud & Fill		
				7. Coring		
				8. Install Casing/Pipe		
				9. Cementing		
				10. Rig Down		
				11. Move Rig to New Site		
				12. Maintenance		
				13. Standby (Explain)		
				14. Other (Explain)		
				15. Logging		
				16. Water Trip		
				MATERIALS USED		
				Mud		sacks
				LC		Type _____
					1	sacks
					1	sacks
					1	sacks
				Viscose		/ 50 Lb.
				Cement		/ 100 Lb.
				Diesel		/ Gal.
				Foamer		/ Gal.
				Detergent		/ Gal.
				Other		
				CREW HOURS		
				Driller	MB	12
				Helper	MB	12
				Helper	MB	12
				Helper	MB	12
				WATER TRIP MILES -		

Footage: FROM 1903 TO 1913 TOTAL FOOTAGE 10 AIR _____ MUD C HAMMER _____

Bit _____ changed at _____ ' Size _____"

Bit _____ changed at _____ ' Size _____"

Bit _____ changed at _____ ' Size _____"

TEMP IN CUTS
103/108

Handwritten signature or initials.



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CLIENT _____
PROJECT Andy Gallan
CLIENT REP. Andy Gallan

Date: 10-16-82		Hole# 45-15		Rig# 11		Driller: JD		Supervisor: DW	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
11				1. Crew Travel To Site					
12	4	1804	Drilling	2. Rig Up					
				3. Reenter Hole					
				4. Drilling					
				5. Pull Pipe					
				6. Mix Mud & Fill					
				7. Coring					
				8. Install Casing/Pipe					
				9. Cementing					
				10. Rig Down					
				11. Move Rig to New Site					
				12. Maintenance					
				13. Standby (Explain)					
				14. Other (Explain)					
				15. Logging					
				16. Water Trip					
				MATERIALS USED					
				Mud _____ sacks					
				LC _____ Type _____					
				_____ / sacks					
				_____ / sacks					
				Viscose _____ / 50 Lb.					
				Cement _____ / 100 Lb.					
				Diesel _____ / Gal.					
				Foamer _____ / Gal.					
				Detergent _____ / Gal.					
				Other _____					
				CREW HOURS					
				Driller JD 12					
				Helper BO 12					
				Helper BR 12					
				Helper EL 12					
				WATER TRIP MILES -					

Footage: FROM 1804 TO 1853 TOTAL FOOTAGE 49 AIR _____ MUD HAMMER _____
 Bit _____ changed at _____' Size _____"
 Bit _____ changed at _____' Size _____"
 Bit _____ changed at _____' Size _____"

Date: 10-16-82		Hole# 45-14		Rig# 11		Driller: MB		Supervisor: DW	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
11				1. Crew Travel To Site					
12	1	1852	Drilling	2. Rig Up					
				3. Reenter Hole					
				4. Drilling					
				5. Pull Pipe					
				6. Mix Mud & Fill					
				7. Coring					
				8. Install Casing/Pipe					
				9. Cementing					
				10. Rig Down					
				11. Move Rig to New Site					
				12. Maintenance					
				13. Standby (Explain)					
				14. Other (Explain)					
				15. Logging					
				16. Water Trip					
				MATERIALS USED					
				Mud _____ sacks					
				LC _____ Type _____					
				_____ / sacks					
				_____ / sacks					
				Viscose _____ / 50 Lb.					
				Cement _____ / 100 Lb.					
				Diesel _____ / Gal.					
				Foamer _____ / Gal.					
				Detergent _____ / Gal.					
				Other _____					
				CREW HOURS					
				Driller MB 12					
				Helper AS 12					
				Helper JW 12					
				Helper LG 12					
				WATER TRIP MILES - 42 3 TRIPS					

Footage: FROM 1852 TO 1872 TOTAL FOOTAGE 20 AIR _____ MUD HAMMER _____
 Bit _____ changed at _____' Size _____"
 Bit _____ changed at _____' Size _____"
 Bit _____ changed at _____' Size _____" Approved



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CLIENT _____
PROJECT Jordan Hallan
CLIENT REP Jordan Hallan

OCT 21 REC'D

Date: 10-15-82		Hole # 45-14		Rig # 11		Driller: JD		Supervisor:	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
				1. Crew Travel To Site					
				2. Rig Up					
				3. Reenter Hole					
				4. Drilling					
				5. Pull Pipe					
				6. Mix Mud & Fill					
				7. Coring					
				8. Install Casing/Pipe					
				9. Cementing					
				10. Rig Down					
				11. Move Rig to New Site					
				12. Maintenance					
				13. Standby (Explain)					
				14. Other (Explain)					
				15. Logging					
				16. Water Trip					
				MATERIALS USED					
				Mud 10 sacks					
				LC _____ Type _____					
				Lignite 11 sacks					
				Sack 11 sacks					
				_____ 1 sacks					
				Viscose 150 Lb.					
				Cement 100 Lb.					
				Diesel 1 Gal.					
				Foamer 1 Gal.					
				Detergent 1 Gal.					
				Other _____					
				CREW HOURS					
				Driller JD 12					
				Helper BQ 12					
				Helper BF 12					
				Helper EB 12					
				WATER TRIP MILES - 14 1 trip					

Temp
111
95

96

98

99

Footage: FROM 1750 TO 1767 TOTAL FOOTAGE 17 AIR _____ MUD HAMMER _____
 Bit # 2706 changed at 1750 Size 6 3/4 " S62J VIS-IN 40 OUT 39
 Bit _____ changed at _____ Size _____
 Bit _____ changed at _____ Size _____
 Form No. 572

Date: 10-15-82		Hole # 45-14		Rig # 11		Driller: MB		Supervisor: RW	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
				1. Crew Travel To Site					
				2. Rig Up					
				3. Reenter Hole					
				4. Drilling					
				5. Pull Pipe					
				6. Mix Mud & Fill					
				7. Coring					
				8. Install Casing/Pipe					
				9. Cementing					
				10. Rig Down					
				11. Move Rig to New Site					
				12. Maintenance					
				13. Standby (Explain)					
				14. Other (Explain)					
				15. Logging					
				16. Water Trip					
				MATERIALS USED					
				Mud 5 sacks					
				LC _____ Type _____					
				CMC- 1 1/2 sacks					
				_____ 1 sacks					
				_____ 1 sacks					
				Viscose 150 Lb.					
				Cement 100 Lb.					
				Diesel 1 Gal.					
				Foamer 1 Gal.					
				Detergent 1 Gal.					
				Other _____					
				CREW HOURS					
				Driller MB 12					
				Helper RW 12					
				Helper TW 12					
				Helper RL 12					
				WATER TRIP MILES -					

Temp
111
95

96

98

99

Footage: FROM 1767 TO 1804 TOTAL FOOTAGE 37 AIR _____ MUD HAMMER _____
 Bit _____ changed at _____ Size _____ 37
 Bit _____ changed at _____ Size _____
 Bit _____ changed at _____ Size _____
 Approved _____



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CLIENT _____ OCT 21 REC'D
PROJECT _____
CLIENT REP. *Andy Dalton*

Date: 10-13-82		Hole# 45-14		Rig# 11		Driller: JD		Supervisor: DW	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
11				1. Crew Travel To Site					
12	4	1483	Drilling	2. Rig Up					
	6	1490		3. Reenter Hole					
-94	4		Get down pits to show mud - drilling blue clay	4. Drilling					
	13		Drilling	5. Pull Pipe					
2	7		Value cocked in mud pump	6. Mix Mud & Fill					
			Drilling	7. Coring					
				8. Install Casing/Pipe					
				9. Cementing					
				10. Rig Down					
				11. Move Rig to New Site					
				12. Maintenance					
				13. Standby (Explain)					
				14. Other (Explain)					
				15. Logging					
				16. Water Trip					
				MATERIALS USED					
				Mud _____ sacks					
				LC _____ Type _____					
				_____ 1 sacks					
				_____ 1 sacks					
				_____ 1 sacks					
				Viscose _____ / 50 Lb.					
				Cement _____ / 100 Lb.					
				Diesel _____ / Gal.					
				Foamer _____ / Gal.					
				Detergent _____ / Gal.					
				Other _____					
				CREW HOURS					
				Driller JD 12					
				Helper DG 12					
				Helper BA 12					
				Helper EK 12					
				WATER TRIP MILES -					

Footage: FROM 1483 TO 1570 TOTAL FOOTAGE 87 AIR _____ MUD X HAMMER _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____

Form No. 572-

Date: 10-13-82		Hole# 45-14		Rig# 11		Driller: MS		Supervisor: DW	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
11				1. Crew Travel To Site					
12				2. Rig Up					
				3. Reenter Hole					
				4. Drilling					
				5. Pull Pipe					
				6. Mix Mud & Fill					
				7. Coring					
				8. Install Casing/Pipe					
				9. Cementing					
				10. Rig Down					
				11. Move Rig to New Site					
				12. Maintenance					
				13. Standby (Explain)					
				14. Other (Explain)					
				15. Logging					
				16. Water Trip					
				MATERIALS USED					
				Mud _____ sacks					
				LC _____ Type _____					
				_____ 1 sacks					
				_____ 1 sacks					
				_____ 1 sacks					
				Viscose _____ / 50 Lb.					
				Cement _____ / 100 Lb.					
				Diesel _____ / Gal.					
				Foamer _____ / Gal.					
				Detergent _____ / Gal.					
				Other _____					
				CREW HOURS					
				Driller MS 12					
				Helper KS 12					
				Helper JH 12					
				Helper BT 12					
				WATER TRIP MILES -					

Footage: FROM 1570 TO 1612 TOTAL FOOTAGE 42 AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____

Bit _____ changed at _____ Size _____

Approved _____



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001 2.1 Rev. 0

CLIENT _____
 PROJECT _____
 CLIENT REP Larry Holten

Date: 10-10-82 Hole# 45-14 Rig# 11 Driller: JD Supervisor: DW

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				1. Crew Travel To Site
12	881		Drilling	2. Rig Up
1				3. Reenter Hole
1-84				4. Drilling
2	890			5. Pull Pipe
3				6. Mix Mud & Fill
4				7. Coring
5				8. Install Casing/Pipe
6				9. Cementing
7				10. Rig Down
8				11. Move Rig to New Site
9				12. Maintenance
10				13. Standby (Explain)
11				14. Other (Explain)
12				15. Logging
1				16. Water Trip
MATERIALS USED				
Mud _____ sacks				
LC _____ Type _____				
_____ / _____ sacks				
_____ / _____ sacks				
Viscose _____ / 50 Lb.				
Cement _____ / 100 Lb.				
Diesel _____ / Gal.				
Foamer _____ / Gal.				
Detergent _____ / Gal.				
Other _____				
CREW HOURS				
Driller <u>JH 12</u>				
Helper <u>BO 12</u>				
Helper <u>FK 12</u>				
Helper _____				
WATER TRIP MILES - <u>14</u>				

Footage: FROM 881 TO 982 TOTAL FOOTAGE 101 AIR _____ MUD X HAMMER _____
 Bit _____ changed at _____' Size _____"
 Bit _____ changed at _____' Size _____"
 Bit _____ changed at _____' Size _____" Form No. 572-

Date: 10-10-82 Hole# 45-14 Rig# 11 Driller: MB Supervisor: DW

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				1. Crew Travel To Site
12	982		Drilling	2. Rig Up
1				3. Reenter Hole
1-84				4. Drilling
2				5. Pull Pipe
3				6. Mix Mud & Fill
4				7. Coring
5				8. Install Casing/Pipe
6				9. Cementing
7				10. Rig Down
8				11. Move Rig to New Site
9				12. Maintenance
10				13. Standby (Explain)
11				14. Other (Explain)
12				15. Logging
1				16. Water Trip
MATERIALS USED				
Mud _____ sacks				
LC _____ Type _____				
_____ / _____ sacks				
_____ / _____ sacks				
Viscose _____ / 50 Lb.				
Cement _____ / 100 Lb.				
Diesel _____ / Gal.				
Foamer _____ / Gal.				
Detergent _____ / Gal.				
Other _____				
CREW HOURS				
Driller <u>MB 12</u>				
Helper <u>KG 12</u>				
Helper <u>JH 12</u>				
Helper <u>BO 12</u>				
WATER TRIP MILES - _____				

Footage: FROM 982 TO 1018 TOTAL FOOTAGE 36 AIR _____ MUD ✓ HAMMER _____
 Bit _____ changed at _____' Size _____"
 Bit _____ changed at _____' Size _____"
 Bit _____ changed at _____' Size _____" Approved _____

Temp 11
 112 90°
 86 90°
 77 83°
 78 85°

Temp 11
 112 90°
 86 90°
 77 83°
 78 85°

982
 990
 993 FT
 Spared bit and put in Jct
 Rth
 Drilling (Clay Formation)
 Adding water
 1010
 Vis 10.93 out 34
 Temp 80 86
 WT 9
 PH 10



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OCT 21 1982

CLIENT _____
 PROJECT Randy Galbraith
 CLIENT REP. Randy Galbraith

Date: 10-9-82		Hole # 45-14		Rig # 11		Driller: JD		Supervisor: DW	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
11				1. Crew Travel To Site					
12	14		Threading broke to 6 3/4	2. Rig Up					
1	6		mix mud	3. Reenter Hole					
	14		Threading	4. Drilling					
2				5. Pull Pipe					
3	5		POH to change bit	6. Mix Mud & Fill					
4	6		mix mud	7. Coring					
5	3		BH w/ new 6 3/4 bit	8. Install Casing/Pipe					
6	4	750	Drilling	9. Cementing					
7				10. Rig Down					
8				11. Move Rig to New Site					
9				12. Maintenance					
10				13. Standby (Explain)					
11				14. Other (Explain)					
12				15. Logging					
1				16. Water Trip					
				MATERIALS USED					
				Mud 13 sacks					
				LC _____ Type _____					
				_____ 1 sacks					
				_____ 1 sacks					
				_____ 1 sacks					
				Viscose 150 Lb.					
				Cement 100 Lb.					
				Diesel 1 Gal.					
				Foamer 1 Gal.					
				Detergent 1 Gal.					
				Other _____					
				CREW HOURS					
				Driller JD 12					
				Helper BO 12					
				Helper BR 12					
				Helper EL 12					
				WATER TRIP MILES -					

Footage: FROM 710 TO 781 TOTAL FOOTAGE 31 AIR _____ MUD _____ HAMMER _____
 Bit E92710 changed at _____ Size 6 3/4 " SGTJ Reed Button
 Bit _____ changed at _____ Size _____"
 Bit _____ changed at _____ Size _____"

Date: 10-9-82		Hole # 45-14		Rig # 11		Driller: MS		Supervisor: DW	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
11				1. Crew Travel To Site					
12		751		2. Rig Up					
1	4		Drilling	3. Reenter Hole					
2				4. Drilling					
3				5. Pull Pipe					
4				6. Mix Mud & Fill					
5		790		7. Coring					
6				8. Install Casing/Pipe					
7				9. Cementing					
8				10. Rig Down					
9				11. Move Rig to New Site					
10				12. Maintenance					
11				13. Standby (Explain)					
12				14. Other (Explain)					
1				15. Logging					
2				16. Water Trip					
				MATERIALS USED					
				Mud 10 sacks					
				LC _____ Type _____					
				_____ 12 sacks					
				_____ 1 sacks					
				_____ 1 sacks					
				Viscose 150 Lb.					
				Cement 100 Lb.					
				Diesel 1 Gal.					
				Foamer 1 Gal.					
				Detergent 1 Gal.					
				Other _____					
				CREW HOURS					
				Driller MS 12					
				Helper BO 12					
				Helper BR 12					
				Helper EL 12					
				WATER TRIP MILES -					

Footage: FROM 781 TO 881 TOTAL FOOTAGE 100 AIR _____ MUD _____ HAMMER _____
 Bit _____ changed at _____ Size _____"
 Bit _____ changed at _____ Size _____"
 Bit _____ changed at _____ Size _____" Approved _____



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OCT 27 1982

CLIENT _____
PROJECT _____
CLIENT REP Gordy Dallas

Date: <u>10-8-82</u>		Hole# <u>45-14</u>		Rig# <u>11</u>		Driller: <u>JD</u>		Supervisor: <u>DW</u>	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
11				1. Crew Travel To Site					
12	<u>4</u>	<u>736</u>	<u>Drilling</u>	2. Rig Up					
1				3. Reenter Hole					
2				4. Drilling					
3				5. Pull Pipe					
4				6. Mix Mud & Fill					
5				7. Coring					
6				8. Install Casing/Pipe					
7				9. Cementing					
8				10. Rig Down					
9				11. Move Rig to New Site					
10				12. Maintenance					
11				13. Standby (Explain)					
12				14. Other (Explain)					
1				15. Logging					
2				16. Water Trip					
				MATERIALS USED					
				Mud _____ sacks					
				LC _____ Type _____					
				_____ / _____ sacks					
				_____ / _____ sacks					
				Viscose _____ / 50 Lb.					
				Cement _____ / 100 Lb.					
				Diesel _____ / Gal.					
				Foamer _____ / Gal.					
				Detergent _____ / Gal.					
				Other _____					
				CREW HOURS					
				Driller <u>JD 12</u>					
				Helper <u>BO 12</u>					
				Helper <u>BR 12</u>					
				Helper <u>EL 5</u>					
				WATER TRIP MILES - _____					

Footage: FROM 736 TO 750 TOTAL FOOTAGE 14 AIR _____ MUD X HAMMER _____
 Bit _____ changed at _____' Size _____"
 Bit _____ changed at _____' Size _____"
 Bit _____ changed at _____' Size _____"

Date: _____		Hole# _____		Rig# _____		Driller: _____		Supervisor: _____	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
11				1. Crew Travel To Site					
12	<u>3</u>		<u>R/H unload Hole every</u>	2. Rig Up					
1			<u>200 ft Hole making w/</u>	3. Reenter Hole					
2			<u>300 CPM - unable to operate</u>	4. Drilling					
3			<u>hammer tool with the volume</u>	5. Pull Pipe					
4			<u>POH To Change Bit</u>	6. Mix Mud & Fill					
5			<u>R/H w/ 6.74 Bit</u>	7. Coring					
6			<u>Change Rig Back to Mud</u>	8. Install Casing/Pipe					
7			<u>Mix mud and use hole</u>	9. Cementing					
8			<u>to condition mud</u>	10. Rig Down					
9				11. Move Rig to New Site					
10				12. Maintenance					
11				13. Standby (Explain)					
12				14. Other (Explain)					
1				15. Logging					
2				16. Water Trip					
				MATERIALS USED					
				Mud <u>13</u> sacks					
				LC _____ Type _____					
				LCM <u>13</u> sacks					
				_____ / _____ sacks					
				Godaish _____ sacks					
				Viscose _____ / 50 Lb.					
				Cement _____ / 100 Lb.					
				Diesel _____ / Gal.					
				Foamer _____ / Gal.					
				Detergent _____ / Gal.					
				Other <u>Polyloc 5</u>					
				CREW HOURS					
				Driller <u>JD 12</u>					
				Helper <u>KJ 12</u>					
				Helper <u>TJ 12</u>					
				Helper <u>BA 12</u>					
				WATER TRIP MILES - _____					

Footage: FROM _____ TO _____ TOTAL FOOTAGE _____ AIR _____ MUD _____ HAMMER _____
 Bit _____ changed at _____' Size _____"
 Bit _____ changed at _____' Size _____"
 Bit _____ changed at _____' Size _____" Approved _____



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CLIENT _____
 PROJECT _____
 CLIENT REP. Linda Gallan

Date: 10-6-82		Hole# 45-14		Rig# 11	Driller: JD	Supervisor: D.W.
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #		
11					1. Crew Travel To Site	
12	4	525	Drilling		2. Rig Up	
		530			3. Reenter Hole	
1					4. Drilling	
					5. Pull Pipe	
2					6. Mix Mud & Fill	
					7. Coring	
3					8. Install Casing/Pipe	
					9. Cementing	
4					10. Rig Down	
					11. Move Rig to New Site	
765					12. Maintenance	
					13. Standby (Explain)	
766					14. Other (Explain)	
					15. Logging	
767					16. Water Trip	
					MATERIALS USED	
					Mud _____ sacks	
					LC _____ Type _____	
					Lignite 12 sacks	
					_____ 1 sacks	
					_____ 1 sacks	
					Viscose _____ / 50 Lb.	
					Cement _____ / 100 Lb.	
					Diesel _____ / Gal.	
					Foamer _____ / Gal.	
					Detergent _____ / Gal.	
					Other _____	
					CREW HOURS	
					Driller JA 12	
					Helper DA 12	
					Helper BA 12	
					Helper EL 12	
					WATER TRIP MILES -	

Footage: FROM 525 TO 607 TOTAL FOOTAGE 82 AIR _____ MUD HAMMER _____

Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"

Date: 11-6-82		Hole# 45-14		Rig# 11	Driller: AS	Supervisor: DW
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #		
11					1. Crew Travel To Site	
12					2. Rig Up	
					3. Reenter Hole	
					4. Drilling	
					5. Pull Pipe	
					6. Mix Mud & Fill	
					7. Coring	
					8. Install Casing/Pipe	
					9. Cementing	
					10. Rig Down	
					11. Move Rig to New Site	
					12. Maintenance	
					13. Standby (Explain)	
					14. Other (Explain)	
					15. Logging	
					16. Water Trip	
					MATERIALS USED	
					Mud _____ sacks	
					LC _____ Type _____	
					_____ 1 sacks	
					_____ 1 sacks	
					Viscose _____ / 50 Lb.	
					Cement _____ / 100 Lb.	
					Diesel _____ / Gal.	
					Foamer _____ / Gal.	
					Detergent _____ / Gal.	
					Other _____	
					CREW HOURS	
					Driller AS 12	
					Helper DA 12	
					Helper BA 12	
					Helper BA 13	
					WATER TRIP MILES -	

Footage: FROM 607 TO 649 TOTAL FOOTAGE 42 AIR _____ MUD HAMMER _____

Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____" Approved _____



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OCT 21 REC'D

CLIENT _____
PROJECT Good Gallon
CLIENT REP. Good Gallon

Date: <u>10-5-92</u>		Hole#	Rig# <u>11</u>	Driller: <u>J D</u>	Supervisor: <u>D W</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
12	<u>3</u>		<u>Push up Drill string & screen with taggel cement at 369'</u>	2. Rig Up	
1				3. Reenter Hole	
2	<u>6</u>		<u>thin out of coroh. mud</u>	4. Drilling	
3	<u>4</u>			5. Pull Pipe	
4	<u>14</u>		<u>Pull cement - Plug at 383' drilled out shoe cut 402'</u>	6. Mix Mud & Fill	
5			<u>filled back 3 stems pipe - Eng reserve pit & packed with mud to thick to pump</u>	7. Coring	
6	<u>4</u>		<u>drilled out rest of cement taggel from formation at 428'</u>	8. Install Casing/Pipe	
7	<u>5</u>		<u>FOH to change bit R1H w/ 6 1/4" bit</u>	9. Cementing	
8	<u>5</u>		<u>drilling</u>	10. Rig Down	
9	<u>4</u>			11. Move Rig to New Site	
10	<u>5</u>		<u>FOH to change bit 6 1/4" bit 6 1/4" to 6 3/4" 9ft sub</u>	12. Maintenance	
11	<u>14</u>		<u>unload fuel tanks stabilizer</u>	13. Standby (Explain)	
12		<u>4483</u>	<u>6 inch up 5' & column 165'</u>	14. Other (Explain)	
1			<u>water trip - 1</u>	15. Logging	
			<u>WATER TRIP MILES - 14</u>	16. Water Trip	

MATERIALS USED

Mud	_____	sacks
LC	_____	Type _____
	_____	sacks
	_____	sacks
Viscose	_____	150 Lb.
Cement	_____	100 Lb.
Diesel	_____	1 Gal.
Foamer	_____	1 Gal.
Detergent	_____	1 Gal.
Other	_____	

CREW HOURS

Driller	<u>J D</u>	12
Helper	<u>BO</u>	12
Helper	<u>DA</u>	12
Helper	<u>EA</u>	12

Footage: FROM _____ TO 450 TOTAL FOOTAGE _____ AIR _____ MUD _____ HAMMER _____
 Bit _____ changed at _____ Size _____"
 Bit _____ changed at _____ Size _____"
 Bit _____ changed at _____ Size _____"

Date: <u>10-5-92</u>		Hole# <u>45-14</u>	Rig# <u>11</u>	Driller: <u>M S</u>	Supervisor: <u>D W</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
12			<u>Change Fuel tanks</u>	2. Rig Up	
1				3. Reenter Hole	
2	<u>3</u>		<u>R1H w/ 6 3/4" Bit and stab</u>	4. Drilling	
3	<u>14</u>		<u>Remove hole from 480 to 490</u>	5. Pull Pipe	
4	<u>6</u>	<u>450</u>	<u>Mix mud</u>	6. Mix Mud & Fill	
5	<u>4</u>		<u>Drilling</u>	7. Coring	
6		<u>470</u>		8. Install Casing/Pipe	
7				9. Cementing	
8	<u>4</u>	<u>490</u>	<u>Checked and cleaned mud pump</u>	10. Rig Down	
9	<u>4</u>		<u>Drilling</u>	11. Move Rig to New Site	
10		<u>510</u>	<u>Mud vis m 34 out 3/4</u>	12. Maintenance	
11			<u>R1H 9</u>	13. Standby (Explain)	
12			<u>WT 10.5</u>	14. Other (Explain)	
1				15. Logging	
				16. Water Trip	

MATERIALS USED

Mud	<u>10</u>	sacks
LC	_____	Type _____
	_____	sacks
	_____	sacks
Viscose	_____	150 Lb.
Cement	_____	100 Lb.
Diesel	_____	1 Gal.
Foamer	_____	1 Gal.
Detergent	_____	1 Gal.
Other	_____	

CREW HOURS

Driller	<u>M S</u>	12
Helper	<u>SA</u>	12
Helper	<u>WA</u>	12
Helper	<u>BA</u>	12

Footage: FROM 490 TO 525 TOTAL FOOTAGE 75 AIR _____ MUD ✓ HAMMER _____
 Bit WX 298 changed at _____ Size 1 3/4 " 555
 Bit _____ changed at _____ Size _____"
 Bit _____ changed at _____ Size _____" Approved _____



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OCT 21 REC'D

CLIENT _____
 PROJECT Gandy Galla
 CLIENT REP Gandy Galla

Date: 10-4-82 Hole# _____ Rig# 11 Driller: JD Supervisor: _____

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
12	<u>14</u>		<u>WOC</u>	
1				
2				
3			<u>Remove swedge</u>	
4			<u>in E.W. Rig cellar & cut off casing - weld on lined wall & install BOP repped up</u>	
5				
6				
7				
8				
9				
10				
11				
12				
1				

1. Crew Travel To Site
 2. Rig Up
 3. Reenter Hole
 4. Drilling
 5. Pull Pipe
 6. Mix Mud & Fill
 7. Coring
 8. Install Casing/Pipe
 9. Cementing
 10. Rig Down
 11. Move Rig to New Site
 12. Maintenance
 13. Standby (Explain)
 14. Other (Explain)
 15. Logging
 16. Water Trip

MATERIALS USED
 Mud _____ sacks
 LC _____ Type _____
 _____ / _____ sacks
 _____ / _____ sacks
 _____ / _____ sacks
 Viscose _____ / 50 Lb.
 Cement _____ / 100 Lb.
 Diesel _____ / Gal.
 Foamer _____ / Gal.
 Detergent _____ / Gal.
 Other _____

CREW HOURS
 Driller JD 12
 Helper DA 12
 Helper DA 12
 Helper EH 12

WATER TRIP MILES - _____

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Date: 10-4-82 Hole# 415-14 Rig# 11 Driller: MS Supervisor: DW

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
12			<u>Removed and Reinstalled BOP - to move controls</u>	
1	<u>14</u>			
2				
3				
4				
5	<u>14</u>		<u>Test BOP - pressure to 500 LBS</u>	
6			<u>BOP test test mud pump gauge not working correctly (mud pump gauge losing pressure)</u>	
7				
8			<u>Cleaned Mud Pits</u>	
9			<u>Back down stabilizer and take up pressure</u>	
10			<u>Make up killing Assy</u>	
11			<u>full stab and 8 3/4 bit cut</u>	
12				
1				

1. Crew Travel To Site
 2. Rig Up
 3. Reenter Hole
 4. Drilling
 5. Pull Pipe
 6. Mix Mud & Fill
 7. Coring
 8. Install Casing/Pipe
 9. Cementing
 10. Rig Down
 11. Move Rig to New Site
 12. Maintenance
 13. Standby (Explain)
 14. Other (Explain)
 15. Logging
 16. Water Trip

MATERIALS USED
 Mud _____ sacks
 LC _____ Type _____
 _____ / _____ sacks
 _____ / _____ sacks
 _____ / _____ sacks
 Viscose _____ / 50 Lb.
 Cement _____ / 100 Lb.
 Diesel _____ / Gal.
 Foamer _____ / Gal.
 Detergent _____ / Gal.
 Other _____

CREW HOURS
 Driller MS 12
 Helper DA 12
 Helper DA 12
 Helper EH 12

WATER TRIP MILES - _____

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ " Approved _____



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CLIENT _____
PROJECT _____
CLIENT REP. *Harvey Golden*

Date: 10-3-82		Hole# 45-14 Rig# 11		Driller: JD	Supervisor:
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
		343		1. Crew Travel To Site	
	6		add water & mix mud	2. Rig Up	
				3. Reenter Hole	
				4. Drilling	
				5. Pull Pipe	
				6. Mix Mud & Fill	
				7. Coring	
				8. Install Casing/Pipe	
				9. Cementing	
				10. Rig Down	
				11. Move Rig to New Site	
				12. Maintenance	
				13. Standby (Explain)	
				14. Other (Explain)	
				15. Logging	
				16. Water Trip	
				MATERIALS USED	
		863		Mud 13 sacks	
				LC 2 Type <i>Push</i>	
				_____ / sacks	
				_____ / sacks	
			Vis Am 45 out 47	_____ / sacks	
			Temp - 60 61	Viscose / 50 Lb.	
			mut - 10.6	Cement / 100 Lb.	
			PH - 8	Diesel / Gal.	
				Foamer / Gal.	
				Detergent / Gal.	
				Other _____	
				CREW HOURS	
		403	PGH LDDP	Driller JD 12	
	5			Helper DD 12	
			water trip - 1	Helper DR 12	
			WATER TRIP MILES - 14	Helper EL 12	

Date: 10-3-82		Hole# 45-14 Rig# 11		Driller: MB	Supervisor: Du
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
				1. Crew Travel To Site	
				2. Rig Up	
				3. Reenter Hole	
	5		L/D Collars and BHA	4. Drilling	
				5. Pull Pipe	
				6. Mix Mud & Fill	
				7. Coring	
				8. Install Casing/Pipe	
				9. Cementing	
	8		Rund casing	10. Rig Down	
				11. Move Rig to New Site	
				12. Maintenance	
				13. Standby (Explain)	
				14. Other (Explain)	
				15. Logging	
				16. Water Trip	
				MATERIALS USED	
			Set 19 joints of 9	Mud _____ sacks	
			8 Round 402.65 ft	LC _____ Type _____	
				_____ / sacks	
				_____ / sacks	
				_____ / sacks	
				_____ / sacks	
				Viscose / 50 Lb.	
				Cement / 100 Lb.	
				Diesel / Gal.	
				Foamer / Gal.	
				Detergent / Gal.	
				Other _____	
				CREW HOURS	
				Driller MB 12	
				Helper DS 12	
				Helper DL 12	
				Helper ST 12	
				WATER TRIP MILES -	

Footage: FROM 343 ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ " Approved _____

JD



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OCT 21 REC'D

CLIENT _____
 PROJECT _____
 CLIENT REP. *Larry Gallan*

Date: 10-2-82		Hole#	Rig# 11	Driller: JD	Supervisor: DW
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
12	5		POH - Lay down casing	2. Rig Up	
1				3. Reenter Hole	
2	5			4. Drilling	
3	14		Dress hole opener	5. Pull Pipe	
4				6. Mix Mud & Fill	
5				7. Coring	
6	12		Removed & adjusted cathart - reinstalled	8. Install Casing/Pipe	
7			adjusted rotary clutch	9. Cementing	
8	3		A/H w/ diesel string	10. Rig Down	
9	14		ream hole	11. Move Rig to New Site	
10				12. Maintenance	
11				13. Standby (Explain)	
12				14. Other (Explain)	
1				15. Logging	
				16. Water Trip	
MATERIALS USED					
Mud _____ sacks					
LC _____ Type _____					
_____ / sacks					
_____ / sacks					
Viscose _____ / 50 Lb.					
Cement _____ / 100 Lb.					
Diesel _____ / Gal.					
Foamer _____ / Gal.					
Detergent _____ / Gal.					
Other _____					
CREW HOURS					
Driller <i>JD 12</i>					
Helper <i>DO 12</i>					
Helper <i>DA 12</i>					
Helper <i>EL 15</i>					
WATER TRIP MILES - _____					

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Form No. 572-

Date: 10-2-82		Hole# 45-14	Rig# 11	Driller: MB	Supervisor: DW
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11				1. Crew Travel To Site	
12				2. Rig Up	
1	14	309	Ream Hole	3. Reenter Hole	
2				4. Drilling	
3				5. Pull Pipe	
4				6. Mix Mud & Fill	
5		323		7. Coring	
6				8. Install Casing/Pipe	
7	6		Mix Mud	9. Cementing	
8				10. Rig Down	
9	14			11. Move Rig to New Site	
10				12. Maintenance	
11				13. Standby (Explain)	
12				14. Other (Explain)	
1				15. Logging	
				16. Water Trip	
MATERIALS USED					
Mud <i>8</i> sacks					
LC _____ Type _____					
_____ / sacks					
_____ / sacks					
Viscose _____ / 50 Lb.					
Cement _____ / 100 Lb.					
Diesel _____ / Gal.					
Foamer _____ / Gal.					
Detergent _____ / Gal.					
Other _____					
CREW HOURS					
Driller <i>MB 12</i>					
Helper <i>DO 12</i>					
Helper <i>DA 12</i>					
Helper <i>DA 12</i>					
WATER TRIP MILES - _____					

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ " Approved _____



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CLIENT _____

PROJECT _____

CLIENT REP. *Derry Holman*

Date: *10-1-82* Hole# _____ Rig# *11* Driller: *JD* Supervisor: *DW*

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
12	<i>14</i>		<i>reaming hole</i>	
1				
2				
3				
4				
5				
6				
7				
8			<i>9 in. In 41 out 50</i>	
			<i>Temp - 66 68</i>	
			<i>vis - 10.7</i>	
			<i>PH - 9</i>	
10				
11	<i>5</i>		<i>POH LDDP for log hole</i>	
12				
1				

1. Crew Travel To Site
 2. Rig Up
 3. Reenter Hole
 4. Drilling
 5. Pull Pipe
 6. Mix Mud & Fill
 7. Coring
 8. Install Casing/Pipe
 9. Cementing
 10. Rig Down
 11. Move Rig to New Site
 12. Maintenance
 13. Standby (Explain)
 14. Other (Explain)
 15. Logging
 16. Water Trip

MATERIALS USED
 Mud _____ sacks
 LC _____ Type _____
 _____ / sacks
 _____ / sacks
 _____ / sacks
 Viscose _____ / 50 Lb.
 Cement _____ / 100 Lb.
 Diesel _____ / Gal.
 Foamer _____ / Gal.
 Detergent _____ / Gal.
 Other _____

CREW HOURS
 Driller *JD 12*
 Helper *DA 12*
 Helper *DA 12*
 Helper *Ek 12*

WATER TRIP MILES - _____

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Form No. 572-

Date: *10-1-82* Hole# *45-14* Rig# *11* Driller: *MB* Supervisor: *DW*

TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				
12				
1	<i>15</i>		<i>Logging Hole</i>	
2				
3				
4				
5				
6				
7			<i>Run Casing</i>	
8				
9				
10				
11			<i>POH unable to get casing in hole - at 320 ft</i>	
12				
1				

1. Crew Travel To Site
 2. Rig Up
 3. Reenter Hole
 4. Drilling
 5. Pull Pipe
 6. Mix Mud & Fill
 7. Coring
 8. Install Casing/Pipe
 9. Cementing
 10. Rig Down
 11. Move Rig to New Site
 12. Maintenance
 13. Standby (Explain)
 14. Other (Explain)
 15. Logging
 16. Water Trip

MATERIALS USED
 Mud _____ sacks
 LC _____ Type _____
 _____ / sacks
 _____ / sacks
 _____ / sacks
 Viscose _____ / 50 Lb.
 Cement _____ / 100 Lb.
 Diesel _____ / Gal.
 Foamer _____ / Gal.
 Detergent _____ / Gal.
 Other _____

CREW HOURS
 Driller *MB 12*
 Helper *MS 12*
 Helper *TH 13*
 Helper *AK 12*

WATER TRIP MILES - _____

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Form No. 572-



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CLIENT GRACE
PROJECT David Set
CLIENT REP. _____

Date: <u>9-30-82</u>		Hole# <u>45-14</u>		Rig# <u>11</u>	Driller: <u>JD</u>	Supervisor: <u>DW</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #		
11				1. Crew Travel To Site		
12	<u>4</u>	<u>421</u>		2. Rig Up		
1				3. Reenter Hole		
2				4. Drilling		
3				5. Pull Pipe		
4				6. Mix Mud & Fill		
5				7. Coring		
6				8. Install Casing/Pipe		
7				9. Cementing		
8				10. Rig Down		
9				11. Move Rig to New Site		
10				12. Maintenance		
11				13. Standby (Explain)		
12				14. Other (Explain)		
1				15. Logging		
2				16. Water Trip		
MATERIALS USED						
Mud _____ sacks						
LC _____ Type _____						
_____ / _____ sacks						
_____ / _____ sacks						
Viscose _____ / 50 Lb.						
Cement _____ / 100 Lb.						
Diesel _____ / Gal.						
Foamer _____ / Gal.						
Detergent _____ / Gal.						
Other _____						
CREW HOURS						
Driller <u>JD 12</u>						
Helper <u>DB 12</u>						
Helper <u>DB 12</u>						
Helper <u>EL 12</u>						
WATER TRIP MILES -						

Footage: FROM 421 TO 442 TOTAL FOOTAGE 21 AIR _____ MUD X HAMMER _____

Bit _____ changed at _____' Size _____"

Bit _____ changed at _____' Size _____"

Bit _____ changed at _____' Size _____"

D.W.

Date: <u>9-30-82</u>		Hole# <u>45-14</u>		Rig# <u>11</u>	Driller: <u>MB</u>	Supervisor: <u>DW</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #		
11				1. Crew Travel To Site		
12	<u>14</u>		<u>Press Hole opens</u>	2. Rig Up		
1				3. Reenter Hole		
2				4. Drilling		
3				5. Pull Pipe		
4				6. Mix Mud & Fill		
5				7. Coring		
6				8. Install Casing/Pipe		
7				9. Cementing		
8				10. Rig Down		
9				11. Move Rig to New Site		
10				12. Maintenance		
11				13. Standby (Explain)		
12				14. Other (Explain)		
1				15. Logging		
2				16. Water Trip		
MATERIALS USED						
Mud _____ sacks						
LC _____ Type _____						
_____ / _____ sacks						
_____ / _____ sacks						
Viscose _____ / 50 Lb.						
Cement _____ / 100 Lb.						
Diesel _____ / Gal.						
Foamer _____ / Gal.						
Detergent _____ / Gal.						
Other _____						
CREW HOURS						
Driller <u>MB 12</u>						
Helper <u>JD 12</u>						
Helper <u>DB 12</u>						
Helper <u>EL 12</u>						
WATER TRIP MILES -						

Footage: FROM 442 TO 442 TOTAL FOOTAGE _____ AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____' Size _____"

Bit _____ changed at _____' Size _____"

Bit _____ changed at _____' Size _____"



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CLIENT BRACE
 PROJECT DAVID SET
 CLIENT REP. _____

Date: 9-29-82		Hole# 45-14		Rig# 11		Driller: JD		Supervisor: DW		
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #						
11					1. Crew Travel To Site					
12	4		reaming hole with hole opener		2. Rig Up					
1					3. Reenter Hole					
2					4. Drilling					
3					5. Pull Pipe					
4					6. Mix Mud & Fill					
5					7. Coring					
6					8. Install Casing/Pipe					
7					9. Cementing					
8					10. Rig Down					
9	14		clean hole		11. Move Rig to New Site					
10	5		POH to lay down hole opener		12. Maintenance					
11	14		clean bit with backhoe		13. Standby (Explain)					
12	3		help with water & mud		14. Other (Explain)					
1	4		9/4		15. Logging					
WATER TRIP MILES -										

Footage: FROM _____ TO _____ TOTAL FOOTAGE _____ AIR _____ MUD X HAMMER _____
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"

Date: 9-29-82		Hole# 45-14		Rig# 11		Driller: MS		Supervisor: DW		
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #						
11					1. Crew Travel To Site					
12		407	Drilling		2. Rig Up					
1					3. Reenter Hole					
2					4. Drilling					
3					5. Pull Pipe					
4					6. Mix Mud & Fill					
5	5		POH to lay down stabilizer		7. Coring					
6	14		Checked bit in Rig		8. Install Casing/Pipe					
7	3		RTH		9. Cementing					
8	4		Drilling		10. Rig Down					
9	6		Mix Mud		11. Move Rig to New Site					
10	4				12. Maintenance					
11					13. Standby (Explain)					
12					14. Other (Explain)					
1					15. Logging					
WATER TRIP MILES -										

TEMP 121 out
 68 70
 68 70

Footage: FROM 427 TO 421 TOTAL FOOTAGE 14 AIR _____ MUD _____ HAMMER _____
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____" Approved

D.R.C.



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CLIENT _____
 PROJECT _____
 CLIENT REP. _____

Date: 9-28-82		Hole#	Rig# 11	Driller: JD	Supervisor: DW
TIME	LOG #	FOOTAGE	REMARKS		LOG REFERENCE #
11					
12	4	394			1. Crew Travel To Site 2. Rig Up 3. Reenter Hole 4. Drilling 5. Pull Pipe 6. Mix Mud & Fill 7. Coring 8. Install Casing/Pipe 9. Cementing 10. Rig Down 11. Move Rig to New Site 12. Maintenance 13. Standby (Explain) 14. Other (Explain) 15. Logging 16. Water Trip
1	6	397	mix mud		
2					
3					
4					
5	4	407			MATERIALS USED
6	5		POT to Pick up Stabilizer		Mud _____ sacks
7	3		AIR - unable to get stab. in hole		LC _____ Type _____
8	5		POT to Pick up hole opener		_____ / sacks
9	14		make up hole opener		_____ / sacks
10					Viscose _____ / 50 Lb.
11					Cement _____ / 100 Lb.
12					Diesel _____ / Gal.
1					Foamer _____ / Gal.
					Detergent _____ / Gal.
					Other _____
					CREW HOURS
					Driller JD 12
					Helper BO 12
					Helper DR 13
					Helper EG 12
					WATER TRIP MILES -

Footage: FROM 394 TO 407 TOTAL FOOTAGE 13 AIR _____ MUD HAMMER _____

Bit _____ changed at _____' Size _____"
 Bit _____ changed at _____' Size _____"
 Bit _____ changed at _____' Size _____"

Date: 9-28-82		Hole# 45-14	Rig# 11	Driller: MB	Supervisor: DW
TIME	LOG #	FOOTAGE	REMARKS		LOG REFERENCE #
11					
12					1. Crew Travel To Site 2. Rig Up 3. Reenter Hole 4. Drilling 5. Pull Pipe 6. Mix Mud & Fill 7. Coring 8. Install Casing/Pipe 9. Cementing 10. Rig Down 11. Move Rig to New Site 12. Maintenance 13. Standby (Explain) 14. Other (Explain) 15. Logging 16. Water Trip
1				Dressing Hole opens	
2				reaming hole	
3	14			w/ hole opens	
4					
5					
6					
7					
8					
9					
10					
11					
12					
1					
					MATERIALS USED
					Mud _____ sacks
					LC _____ Type _____
					_____ / sacks
					_____ / sacks
					_____ / sacks
					Viscose _____ / 50 Lb.
					Cement _____ / 100 Lb.
					Diesel _____ / Gal.
					Foamer _____ / Gal.
					Detergent _____ / Gal.
					Other _____
					CREW HOURS
					Driller MB 12
					Helper EG 12
					Helper DW 12
					Helper EG 12
					WATER TRIP MILES -

Footage: FROM 407 TO _____ TOTAL FOOTAGE _____ AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____' Size _____"
 Bit _____ changed at _____' Size _____"
 Bit _____ changed at _____' Size _____"



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CLIENT _____
 PROJECT _____
 CLIENT REP. _____

Date: 9-27-82		Hole# 45-14		Rig# 11		Driller: JD		Supervisor: DW	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
		280		1. Crew Travel To Site					
				2. Rig Up					
				3. Reenter Hole					
				4. Drilling					
				5. Pull Pipe					
				6. Mix Mud & Fill					
				7. Coring					
				8. Install Casing/Pipe					
				9. Cementing					
				10. Rig Down					
				11. Move Rig to New Site					
				12. Maintenance					
				13. Standby (Explain)					
				14. Other (Explain)					
				15. Logging					
				16. Water Trip					
		297		MATERIALS USED					
				Mud	17	sacks			
				LC		Type			
				Barite	14	sacks			
					1	sacks			
					1	sacks			
				Viscose		/ 50 Lb.			
				Cement		/ 100 Lb.			
				Diesel		/ Gal.			
				Foamer		/ Gal.			
				Detergent		/ Gal.			
				Other					
				CREW HOURS					
				Driller	JD	12			
				Helper	BO	12			
				Helper	BA	12			
				Helper	EL	12			
				WATER TRIP MILES -					

Date: 9-27-82		Hole# 45-14		Rig# 11		Driller: MB		Supervisor: DW	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #					
		337		1. Crew Travel To Site					
				2. Rig Up					
				3. Reenter Hole					
				4. Drilling					
				5. Pull Pipe					
				6. Mix Mud & Fill					
				7. Coring					
				8. Install Casing/Pipe					
				9. Cementing					
				10. Rig Down					
				11. Move Rig to New Site					
				12. Maintenance					
				13. Standby (Explain)					
				14. Other (Explain)					
				15. Logging					
				16. Water Trip					
				MATERIALS USED					
				Mud	6	sacks			
				LC		Type			
					1	sacks			
					1	sacks			
				Viscose		/ 50 Lb.			
				Cement		/ 100 Lb.			
				Diesel		/ Gal.			
				Foamer		/ Gal.			
				Detergent		/ Gal.			
				Other					
				CREW HOURS					
				Driller	MB	12			
				Helper	BO	12			
				Helper	JW	12			
				Helper	RG	12			
				WATER TRIP MILES -					

Footage: FROM 280 TO 337 TOTAL FOOTAGE 57 AIR _____ MUD HAMMER _____

Bit _____ changed at _____ Size _____"

Bit _____ changed at _____ Size _____"

Bit _____ changed at _____ Size _____"

Temp
 12 out
 62 68
 63 70
 64 70
 66 70
 68 72

Footage: FROM 337 TO 394 TOTAL FOOTAGE 67 AIR _____ MUD HAMMER _____

Bit _____ changed at _____ Size _____"

Bit _____ changed at _____ Size _____"

Bit _____ changed at _____ Size _____" Approved _____



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CLIENT GRACE
 PROJECT DENIO NEW
 CLIENT REP. _____

Date: <u>9-26-82</u> Hole#		Rig# <u>11</u>	Driller: <u>JD</u>	Supervisor: <u>DW</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
				1. Crew Travel To Site
				2. Rig Up
				3. Reenter Hole
				4. Drilling
				5. Pull Pipe
				6. Mix Mud & Fill
				7. Coring
				8. Install Casing/Pipe
				9. Cementing
				10. Rig Down
				11. Move Rig to New Site
				12. Maintenance
				13. Standby (Explain)
				14. Other (Explain)
				15. Logging
				16. Water Trip
MATERIALS USED				
			Mud <u>6</u> sacks	
			LC _____ Type _____	
			_____ / sacks	
			_____ / sacks	
			_____ / sacks	
			Viscose _____ / 50 Lb.	
			Cement _____ / 100 Lb.	
			Diesel _____ / Gal.	
			Foamer _____ / Gal.	
			Detergent _____ / Gal.	
			Other _____	
CREW HOURS				
			Driller <u>JD 12</u>	
			Helper <u>DB 12</u>	
			Helper <u>DB 12</u>	
			Helper <u>FK 12</u>	
WATER TRIP MILES -				

Footage: FROM 190 TO 217 TOTAL FOOTAGE 27 AIR _____ MUD X HAMMER _____

Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"

D.W.

Date: <u>9/26/82</u> Hole#		Rig# <u>11</u>	Driller: <u>MB</u>	Supervisor: <u>DW</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
				1. Crew Travel To Site
				2. Rig Up
				3. Reenter Hole
				4. Drilling
				5. Pull Pipe
				6. Mix Mud & Fill
				7. Coring
				8. Install Casing/Pipe
				9. Cementing
				10. Rig Down
				11. Move Rig to New Site
				12. Maintenance
				13. Standby (Explain)
				14. Other (Explain)
				15. Logging
				16. Water Trip
MATERIALS USED				
			Mud _____ sacks	
			LC _____ Type _____	
			_____ / sacks	
			_____ / sacks	
			_____ / sacks	
			Viscose _____ / 50 Lb.	
			Cement _____ / 100 Lb.	
			Diesel _____ / Gal.	
			Foamer _____ / Gal.	
			Detergent _____ / Gal.	
			Other _____	
CREW HOURS				
			Driller <u>MB 12</u>	
			Helper <u>DB 12</u>	
			Helper <u>FK 12</u>	
			Helper <u>DB 12</u>	
WATER TRIP MILES -				

Footage: FROM 217 TO 280 TOTAL FOOTAGE 63 AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____"
 Bit _____ changed at _____ ' Size _____" Approved _____



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CLIENT GROCE
 PROJECT DENIO NEW
 CLIENT REP. _____

Date: <u>9-25-82</u>		Hole#	Rig# <u>11</u>	Driller: <u>JD</u>	Supervisor: <u>DW</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11					
12					
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
1					

1. Crew Travel To Site
 2. Rig Up
 3. Reenter Hole
 4. Drilling
 5. Pull Pipe
 6. Mix Mud & Fill
 7. Coring
 8. Install Casing/Pipe
 9. Cementing
 10. Rig Down
 11. Move Rig to New Site
 12. Maintenance
 13. Standby (Explain)
 14. Other (Explain)
 15. Logging
 16. Water Trip

MATERIALS USED
 Mud 20 sacks
 LC _____ Type _____
 CMC 11 sacks
 _____ / sacks
 _____ / sacks
 Viscose _____ / 50 Lb.
 Cement _____ / 100 Lb.
 Diesel _____ / Gal.
 Foamer _____ / Gal.
 Detergent _____ / Gal.
 Other _____

CREW HOURS
 Driller JD 6
 Helper DD 6
 Helper DR 6
 Helper FL 6

WATER TRIP MILES - _____

Footage: FROM 36' TO 87' TOTAL FOOTAGE 41 AIR _____ MUD _____ HAMMER _____
 Bit A38558 changed at 36' Size 9 3/4 " FPSIT Button
 Bit _____ changed at _____ Size _____
 Bit _____ changed at _____ Size _____
 Form No. 572-

D.R.W.

Date: <u>9-25-82</u>		Hole#	Rig# <u>11</u>	Driller: <u>MB</u>	Supervisor: <u>DW</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #	
11					
12					
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
1					

1. Crew Travel To Site
 2. Rig Up
 3. Reenter Hole
 4. Drilling
 5. Pull Pipe
 6. Mix Mud & Fill
 7. Coring
 8. Install Casing/Pipe
 9. Cementing
 10. Rig Down
 11. Move Rig to New Site
 12. Maintenance
 13. Standby (Explain)
 14. Other (Explain)
 15. Logging
 16. Water Trip

MATERIALS USED
 Mud 6 sacks
 LC _____ Type _____
 _____ / sacks
 _____ / sacks
 Viscose _____ / 50 Lb.
 Cement _____ / 100 Lb.
 Diesel _____ / Gal.
 Foamer _____ / Gal.
 Detergent _____ / Gal.
 Other _____

CREW HOURS
 Driller MB 12
 Helper AS 12
 Helper JW 12
 Helper BG 12

WATER TRIP MILES - _____

Footage: FROM 87' TO 190' TOTAL FOOTAGE 103 AIR _____ MUD HAMMER _____
 Bit 7199 changed at _____ Size 9 7/8 " FP 52 J Button
 Bit _____ changed at _____ Size _____
 Bit _____ changed at _____ Size _____ Approved



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CLIENT Carole
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Date:	Hole #	Rig #	Driller:	Supervisor:
9-24-82		11	JD	
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
7 11	6		strect up sand pits	1. Crew Travel To Site
8 12			spud in w/ 17 1/2"	2. Rig Up
9 1			bit - pulled 36'	3. Reenter Hole
10 2			hole & cased with	4. Drilling
11 3			38' of 12 1/4" mixed	5. Pull Pipe
12 4			cement & pumped down	6. Mix Mud & Fill
1 5			outside of casing	7. Coring
2 6			bit & installed	8. Install Casing/Pipe
3 7			line	9. Cementing
4 8				10. Rig Down
5 9				11. Move Rig to New Site
6 10				12. Maintenance
7 11				13. Standby (Explain)
8 12				14. Other (Explain)
9 1				15. Logging
10 2				16. Water Trip
MATERIALS USED				
Mud _____ sacks				
LC _____ Type _____				
_____ / sacks				
_____ / sacks				
_____ / sacks				
Viscose _____ / 50 Lb.				
Cement <u>20</u> / 100 Lb.				
Diesel _____ / Gal.				
Foamer _____ / Gal.				
Detergent _____ / Gal.				
Other _____				
CREW HOURS				
Driller _____ /				
Helper _____ /				
Helper _____ /				
Helper _____ /				
WATER TRIP MILES -				
MB 8 1/2 JD 8 1/2				
KS 8 1/2 BO 8 1/2				
JW 8 1/2 OR 8 1/2				
EL 8 1/2				

Footage: FROM 0 ' TO 41 ' TOTAL FOOTAGE _____ ' AIR _____ MUD Δ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Form No. 572-

W.R.W.

Date:	Hole #	Rig #	Driller:	Supervisor:
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
11				1. Crew Travel To Site
12				2. Rig Up
1				3. Reenter Hole
2				4. Drilling
3				5. Pull Pipe
4				6. Mix Mud & Fill
5				7. Coring
6				8. Install Casing/Pipe
7				9. Cementing
8				10. Rig Down
9				11. Move Rig to New Site
10				12. Maintenance
11				13. Standby (Explain)
12				14. Other (Explain)
1				15. Logging
2				16. Water Trip
MATERIALS USED				
Mud _____ sacks				
LC _____ Type _____				
_____ / sacks				
_____ / sacks				
_____ / sacks				
Viscose _____ / 50 Lb.				
Cement _____ / 100 Lb.				
Diesel _____ / Gal.				
Foamer _____ / Gal.				
Detergent _____ / Gal.				
Other _____				
CREW HOURS				
Driller _____ /				
Helper _____ /				
Helper _____ /				
Helper _____ /				
WATER TRIP MILES -				

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ "

Bit _____ changed at _____ ' Size _____ " Approved _____



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CLIENT GRACE
 PROJECT Denio New
 CLIENT REP. _____

Date: <u>9-22-82</u> Hole#		Rig# <u>11</u>	Driller: <u>JD</u>	Supervisor: <u>DW</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
7 11			<u>Cont to rig up</u>	1. Crew Travel To Site 2. Rig Up 3. Reenter Hole 4. Drilling 5. Pull Pipe 6. Mix Mud & Fill 7. Coring 8. Install Casing/Pipe 9. Cementing 10. Rig Down 11. Move Rig to New Site 12. Maintenance 13. Standby (Explain) 14. Other (Explain) 15. Logging 16. Water Trip
8 12				
9 1				
10 2				
11 3				
12 4				
1 5				
2 6				
3 7				
4 8				
5 9				
6 10				
7 11				
8 12				
9 1				
10 2				
11 3				
12 4				
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3 7				
4 8				
5 9				
6 10				
7 11				
8 12				
9 1				
10 2				
11 3				
12 4				
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2 6				
3 7				
4 8				
5 9				
6 10				
7 11				
8 12				
9 1				
10 2				
11 3				
12 4				
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6 10				
7 11				
8 12				
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3 7				
4 8				
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6 10				
7 11				
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6 10				
7 11				
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7 11				
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12 4				
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6 10				
7 11				
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7 11				
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12 4				
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7 11				
8 12				
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6 10				
7 11				
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11 3				
12 4				
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3 7				
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5 9				
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7 11				
8 12				
9 1				
10 2				
11 3				
12 4				
1 5				
2				



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CLIENT BRACE
 PROJECT DENIO NEW
 CLIENT REP. _____

Date: <u>9-20-82</u> Hole# _____		Rig# <u>11</u>	Driller: <u>JD</u>	Supervisor: <u>DW</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
8:11			<u>move rig & equip</u>	1. Crew Travel To Site
9:12			<u>to Denio from</u>	2. Rig Up
10			<u>in unadvised</u>	3. Reenter Hole
11			<u>had to make 2</u>	4. Drilling
12			<u>trips</u>	5. Pull Pipe
1				6. Mix Mud & Fill
2				7. Coring
3				8. Install Casing/Pipe
4				9. Cementing
5				10. Rig Down
6				11. Move Rig to New Site
7				12. Maintenance
8				13. Standby (Explain)
9				14. Other (Explain)
10				15. Logging
11				16. Water Trip
MATERIALS USED				
Mud _____ sacks				
LC _____ Type _____				
_____ / sacks				
_____ / sacks				
Viscose _____ / 50 Lb.				
Cement _____ / 100 Lb.				
Diesel _____ / Gal.				
Foamer _____ / Gal.				
Detergent _____ / Gal.				
Other _____				
CREW HOURS				
Driller _____ /				
Helper _____ /				
Helper _____ /				
Helper _____ /				
WATER TRIP MILES - _____				

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____
 Bit _____ changed at _____ ' Size _____ "
 Bit _____ changed at _____ ' Size _____ "
 Bit _____ changed at _____ ' Size _____ "

D.W.
 Form No. 572-
 Creative Impressions - St. George, Utah 84770

Date: <u>9-21-82</u> Hole# _____		Rig# <u>11</u>	Driller: <u>JD</u>	Supervisor: <u>DW</u>
TIME	LOG #	FOOTAGE	REMARKS	LOG REFERENCE #
7:11			<u>moved rig from</u>	1. Crew Travel To Site
8:12			<u>Denio w/ Equipment</u>	2. Rig Up
9:1			<u>built road & pad</u>	3. Reenter Hole
10:2			<u>Dug one pit &</u>	4. Drilling
11:3			<u>thru up</u>	5. Pull Pipe
12:4				6. Mix Mud & Fill
1:5				7. Coring
2:6				8. Install Casing/Pipe
3:7				9. Cementing
4:8				10. Rig Down
5:9				11. Move Rig to New Site
6:10				12. Maintenance
7:11				13. Standby (Explain)
8:12				14. Other (Explain)
9				15. Logging
10				16. Water Trip
MATERIALS USED				
Mud _____ sacks				
LC _____ Type _____				
_____ / sacks				
_____ / sacks				
Viscose _____ / 50 Lb.				
Cement _____ / 100 Lb.				
Diesel _____ / Gal.				
Foamer _____ / Gal.				
Detergent _____ / Gal.				
Other _____				
CREW HOURS				
Driller _____ /				
Helper _____ /				
Helper _____ /				
Helper _____ /				
WATER TRIP MILES - _____				

Footage: FROM _____ ' TO _____ ' TOTAL FOOTAGE _____ ' AIR _____ MUD _____ HAMMER _____
 Bit _____ changed at _____ ' Size _____ "
 Bit _____ changed at _____ ' Size _____ "
 Bit _____ changed at _____ ' Size _____ " Approved _____

for Rocky
Mtn

Gearhart, 1982, Dual induction laterolog, 0-418', Well 45-14
(Baltazor Hot Springs, Nevada)

Gearhart, 1982, Dual induction laterolog; B.H.C. ~~sonic~~^sonic log,
320-3610', Well 45-14 (Baltazor Hot Springs, Nev.)

Gearhart, 1982, B.H.C. sonic log, 0-419', Well 45-14
(Baltazor Hot Springs, Nevada)

Gearhart, 1982, B.H.C. sonic log, ~~0~~. 350-3610', well 45-14
(Baltazor Hot Springs, Nevada)

Gearhart, 1982, Compensated neutron log, 0-419', well 45-14
(Baltazor Hot Springs, Nevada)

Gearhart, 1982, Compensated neutron log, ~~0~~ 370-3610', well
45-14 (Baltazor Hot Springs, Nevada)

Gearhart, 1982, Temperature log, ~~0~~ 0-419', well 45-14
(Baltazor Hot Springs, Nevada)

Exlog Smith, 1982-1983, Geothermal data log, 2580-
3710', well 45-14 (deepening) (Baltazor Hot Springs,
Nevada)