

AREA
NV
Lauder
Beow
85-18

GLO2315

Open-File
NV/BEOW/CR-14

**NL Baroid
Petroleum Services**

April 1980

Mr. Brian Rakestraw,
C/- Chevron Resources,
P.O. Box 5355,
Bakersfield, California, 93308

Dear Brian,

On behalf of Baroid I would like to thank you and Chevron for allowing us to service Beowawe 85-18 in the Geyser area. We hope to continue to enjoy the good working relationship with Chevron on future wells.

Your Post Well Audit is enclosed and will give details of the operations of this well.

If you should have any questions/comments on this summary or any aspect of the job, please feel free to call me.

Sincerely yours,

Daryl Thomas

(Daryl Thomas)
SALES ENGINEER

DT:rh



OPERATIONS

Date	Depth, Ft.	Cost X\$K	
February			
23rd	0	770	Spud rat hole, Aguagel and lime
24th	65	770	Drill ahead to 65' with 12½ bit no 1
25th	94	1110	Bit change no. 2 17½ Drill to 94'
26th	106	1535	Drill to 106' POOH change bit to H.O. 26" RIH to 106' Circulate for conductor POH RIH w/17½ bit ream
27th	106	1710	Open hole from 17½ to 26" depth 45' to 106'
28th	110	1944	From 17' to 106'. Drill to 110' w/17½
29th	106	1944	POOH. Run 20" conductor to 60' D.J. Hughes cement.
March			
1st	106	1944	Make up 17½" bit ass. No drilling, Maintain rig. RIH w/17½" bit No. 4. Drill cement from 51' to 110' to 131'
2nd	127	2541	Treat for cement w/bicarb of soda. Lost 10 bbls. POOH bit change to 17½ no. 5. Lost 15 bbls.
3rd	248	3009	At 180'. Using lignosulfonate mud. Drilling from 248 to 353. Rig down 3 hrs.
4th	343	3470	For work on Kelly, dumped sand trap rebuild volume. Drill to 371' POOH but change to No. 6. 17½"
5th	400	4020	Drill ahead to 400' Lost 6 bbls to formation problems w/fill on each connection. Increase
6th	653	4745	Aquagel for vis. Survey at 468'.
7th	857	5832	Drill ahead. Survey at 770' Drill to 857
8th	1008	5974	Drill to 1008' wipe hole. POOH for casing.
9/10/11	1008	5974	No mud report for three days. casing & cement 9,10,11 RIH w/ no 1 R.R. 12½ tag plug at 954. Drill out baffle
12th	1120	6830	Cement to shoe 1006'. Hook up mud cooler. Lost 7bbls P.O. Bit No. 7 12½. Ream 1007' - 1120 Lost circulation
13th	1240	7368	10 bbls. Regain circ. Test BOP. Drill ahead
14th	1450	8444	Drilling, POOH change bit No. 8 12½. Mud temp in & out 134o - 144o.
15th	1671	9458	Drilling ahead. Lost 13 bbls to formation at 1640' to 1680'. Started use of mud cooler. Before mud cooler, temp 144 out 147o - 162o.
16th	1838	11025	After mud cooler temp out 87o - 106o. Drilling ahead. Lost circulation at 1842' no mud in pits to test.



OPERATIONS

Date	Depth, Ft.	Cost xxx	
March			
17th	1842	13,643	Rebuilt Vol. W/LCM and aquagel. Lost circ again, drilling blind.
18th	2034	17,018	Running gel & water sweeps & drilling blind w/water
19th	2154	18,384	Running gel & water sweeps w/flocc mud. Drilling blind w/water. POOH for bit change. RIH w/bit No. 9 12½"
			Drilling blind w/water.
20th	2208	19,602	Regain circulation, circ & condition mud. Recommend return to Lignite mud w/filtration cont.
21st	2287	19,879	Drilling, Survey. POOH RIH w/D.D. losing 12 bbls per hr
22nd	2345	20,263	Drilling ahead w/bit No. 10 12½ losing 8bbls per hr.
23rd	2437	21,567	POOH for bit change, RIH w/bit No 11 12½. Losing 10 bbls
24th	2569	22,937	Survey 2569. RIH w/D.D. Run mud cooler in & out 1620
			1720. Drilling survey at 2575. POOH for bit trip, change
25th	2605	23,474	to bit no 11RR at 2603. RIH drilling. Mud temp
26th	2790	24,587	Drilling 24 hrs. survey 2732
			Pulled up to shoe for rig repairs. Wt. of mud went
			from 8.9 - 9.2 as a result of using Barite to mix dry
27th	2900	26,795	job. Lost 200 bbls of mud to formation and mud cooler
			leak. Has to rebuild volume. POOH for bit change and
28th	2974	27,706	broke off at the shock sub. RIH with fishing tool.
			Recovered BHA with fishing tool. Made up new BHA & RIH.
			Lost circulation at 2044. (350 bbls).
29th	2974	29,155	Pumped oil, pulled to 1678'. Pumping gel. No returns.
			Pumped 300 barrels of water. POOH. Changed BHA RIH.
			Charged for 21 cottonseed, cottonseed was not used.
30th	2974	30,140	In the mud for LCM. Cottonseed was used for clean up.
			Drilling blind last 24 hrs. Some fill coming in. Used
			walnut for LCM. waiting for deisel. One rig crew
31st	3149	33,901	worked 24 hrs. RIH & pumped one pit of mud. Pulled to
			shoe and wait. Mix and pumped 3 pits of mud. No returns
			Pull to shoe and wait.
April			
1st	3149	36,225	RIH. 40 feet of fill. Mix mud. POOH a mix gel pill.
			PIH w/20' of fill. POOH pump gel pill w/vis of 160



OPERATIONS

Cost

Date	Depth, Ft.	Cost	
April			
2nd	3149	39,103	Wait on pill. RIH no fill. POOH assemble core. RIH with core assembly. Pump gel and water w/vis of 50 while coring. POOH and analyze core.
3rd	3149	42,173	Make up BHA. Analyze mud make up water. RIH & hit bridge at 1935' to 1965' and 2118 to 2145'
4th	3176	43,329	Hit bottom hole fill at 3045. Pump mud and drill fill.
5th thru to 8th			Unknown
9th	3208		Circ to T.D. w/80 vis - 15% LCM - Gel/water to clean bridges and condition hole. Stage in DP 3-5 stds @ a time. Pull back to show @ 1006 and left hole stand 3-4 hrs. GIH to 2950' - condition hole to sand back from 3200' to 2900' - bridge @ 1344'-5' thick hole clean to TD.
10th	3208		POOH - Lay down 7 3/4 DC'S and BHA. Std back. Heavy wall DP Rig up BJ to spot sand plug at TD. Pump 57 5X 6 X 12 gravel - BJ pumps down - rig up Baroid pump for mud cooler - POH to shoe and circulate hole. Waiting on gravel packer from Bakersfield (Flonick)
11th	3208		Circ and cond mud/hole. Rig up cooler and begin circ. 11:30am WO Gravel packer. Circ to 3:00pm - Rig up Gravel packer - pump gravel plugs - fill back to 2950'.
12th	2950		Stage bit w/DP into hole and condition and circulate/condition mud to run 9 5/8 (liner) - Run mud cooler. Ran bit # 7. POOH to run casing. Stage csg into hole to 1000'. Circ 30 min - stage in at 500' intervals thereafter and circulate for 30 minutes @ time. Rigging up Haliburton to cement liner (9 5/8). Cost
13th	2950		\$69702.81. Bakerline 9 5/8 liner hanger won't fit thru master valve on BOP stack - Pull 9 5/8 csg and lay down.
14th	2950		Lay down 9 5/8 csg - set Haliburton packer in 13 3/8 Rig down BOPE - remove valve - welding on BOPE
15th	2950		Rig up BOPE and attempt to test - packer won't hold pull packer - P.U. DP and mill tooth bit #1 RR - Run in hole staging into shoe - broke circulation/condition hole - stage in to 2950' - POOH to rerun 9 5/7 liner. Set BOPE test plug and test BOPE - OK.
16th	2950		Run in 9 5/8 - 40# csg - staged @ 2000' circ 15 min, and TD circ min. Rig Haliburton and cement - WOC - Cond mud for drlg out

cont



OPERATIONS

Date	Depth, Ft.	Tour
April 16	2950	continued.
		cement and circ out gravel to 3208.
17th		Run 51 Jts. 9 5/8 - 40#, N-80 buttress csg. Rig up Haliburton.
		Hang liner w/bakerline. Preflush N/100 bbls. H ₂ O, 100 bbls, CaCl ₂ , 100 bbls Sodium Silicate 100 bbls H ₂ O + 1800 ft ³ (200% excess) Class G. 1:1 perf-a-lite w/.5% CFRZ, 3% gel 40% Silica Fl., displaced w/± 950 ft ³ mud-fill returns until last 50ft ³ - lost returns. Top of liner @ 794' Liner shoe 2946' cement in place @ 1:10am @ 9:00am. Wait on Haliburton for squeeze job on liner lap. RIH w 12½ bit and tag hanger - pressure up hole to 200psi, didn't hold - POOH to run squeeze.
18th		WO Haliburton @ 10:15am - 12:00noon - attempt to squeeze after setting - RTTS bridge plug - plug didn't hole. Oull plug and service - run back in w/plug attempt to squeeze.
9th	2950	RIH tag cement, drlg out cement. RIH drlg out gravel.
20th	2950	Drlg out gravel to T.D. Circ and cond mud W.O. temp survey.
21st	2950	Run temp. Surveys RIH. Circ and Condition. Mud rig up. DST tools RIH slow set packer at 2935'.
22nd	2950	Rig up for DST. Test drill stem shut in N ₂ DST/close in test. Tear out DST POOH.
23rd	3281	Run wireline log. Make up new RHA. RIH to 1500'. Circ RIH to 2000'. Circ RIH to 2500' & circ. RIH to 3208' and circulate. Drill to 3220' - 40' fill w/connections. Circ and condition mud. Drill to 3281'.
24th	3427	Drill to 3281' POOH make up BHA RIH circ at 2010' RIH circ at 2608'. RIH Drill 8 3/4" hole. Take diviation survey at 3305' 1° inclination. Drill ahead.
25th	3673	Drlg from 3367'. Circ and survey at 3427'. Work on pimp. Circ and build volume of mud. Drill to 3673'.
26th	3825	Drill f/3673'. Circ at 3744' POOH to shoe. Work on FXO pump. Circ and build volume at shoe. RIH Drlg f/3744'. Drill f/3805 with plugged bit. Drlg with 8 3/4. Rot. Torgue. Circ and condition mud. POOH.
27th	3835	POOH, lost cone off a bit, wait on temp surveyor's to arrive.



OPERATIONS

Date	Depth, Ft.	Tour
April		Run temp survey's. Work on water pump. Make up new BHA, RIH to 992'. Dump pits and clean. Mix mud in pits
29th	3825	Ream to bottom, rig up temp surveys.
30th	3825	Run five temp surveys. Circ. Ream F/3826. Work on junk at 3826'. Circ and work pipe. POH make up new BHA and RIH with magnet.
May		RIH to 1000' circ. RIH at 2500' Circ. RIH.
1st	3956	RIH. Circ. Work on junk. POH cone and iron in junk basket & magnet. RIH to 1500'. Circ. RIH to 3525'. Circ and cond mud. Drill 8 3/4" hole f/3826'. Run divation survey at 3956'.
2nd	4039	Drlg ahead. survey at 3940'. Drlg ahead to 4039'. POH for new bit.
3rd	4039	POH lay down Jars. Clean out junk sub. Tear out draw work engine. Swap out #2 Engine, wait on tools. make up new bit.
4th	4105	RIH to 1500'. Circ RIH to 2500'. Circ. RIH. Tight hole at 3836'. Circ and condition mud. Ream f/3836' to 4039'. Drill ahead.
5th	4224	Drlg ahead. f/4105 to 4224. POH for new bit.
h	4373	RIH with new bit. Circ at 2500'. Drlg ahead f/4313.
7th	4532	Drill f/4313 to 4532. Run temp surveys.
8th	4532	Run six temp surveys POH Circulate at 2900'.
9th	4532	RIH to 4530'. Circ. Wait on wireline loggers Circ and mix mud. POH. Rig up wireline loggers.
10th	4532	Log hole
11th	4532	Log hole
12th	4652	POH w/logs and rig down loggers. Make up new bit. RIH to 1500' circ RIH to 2900'. Circ (out temp 150°) RIH to 3700' circ (out temp 169°) RIH to 4540'. Drill ahead.
13th	4845	Drill ahead to 4795'.
14th	4985	Drill f/4798' to 4859' Circ POH for bit #20. Pick up new bit RIH Circ at 2900'. Circ at 3500'. Drill/4915.
15th	5111	Drill f/4915 to 5111 Circ and POH for new bit.
16-18	5111	Rig broke down. Repair clutch
19th	5111	Work on rig.
20th	5221	Work on rig. POH, service drill collars. Test BOP (test OK) RIH drill ahead.
1st	5320	Drill ahead to 5320'. POH 15 stands work plugged bit.
2nd	5502	Drill ahead.

COMMENTS &
DRILLING HAZARDS

FORMATION

DEPTH

N Baroid

GRAPHIC PROGRAM

Change to Lignosulfonate
at 110'

Set 13 3/9" casing 1006'

Lost circulation 1842'

Fishing for shock sub &
lost circulation 2974'

Coring 3149'

OPERATOR:

CHEVRON RESOURCES CO.

WELL:

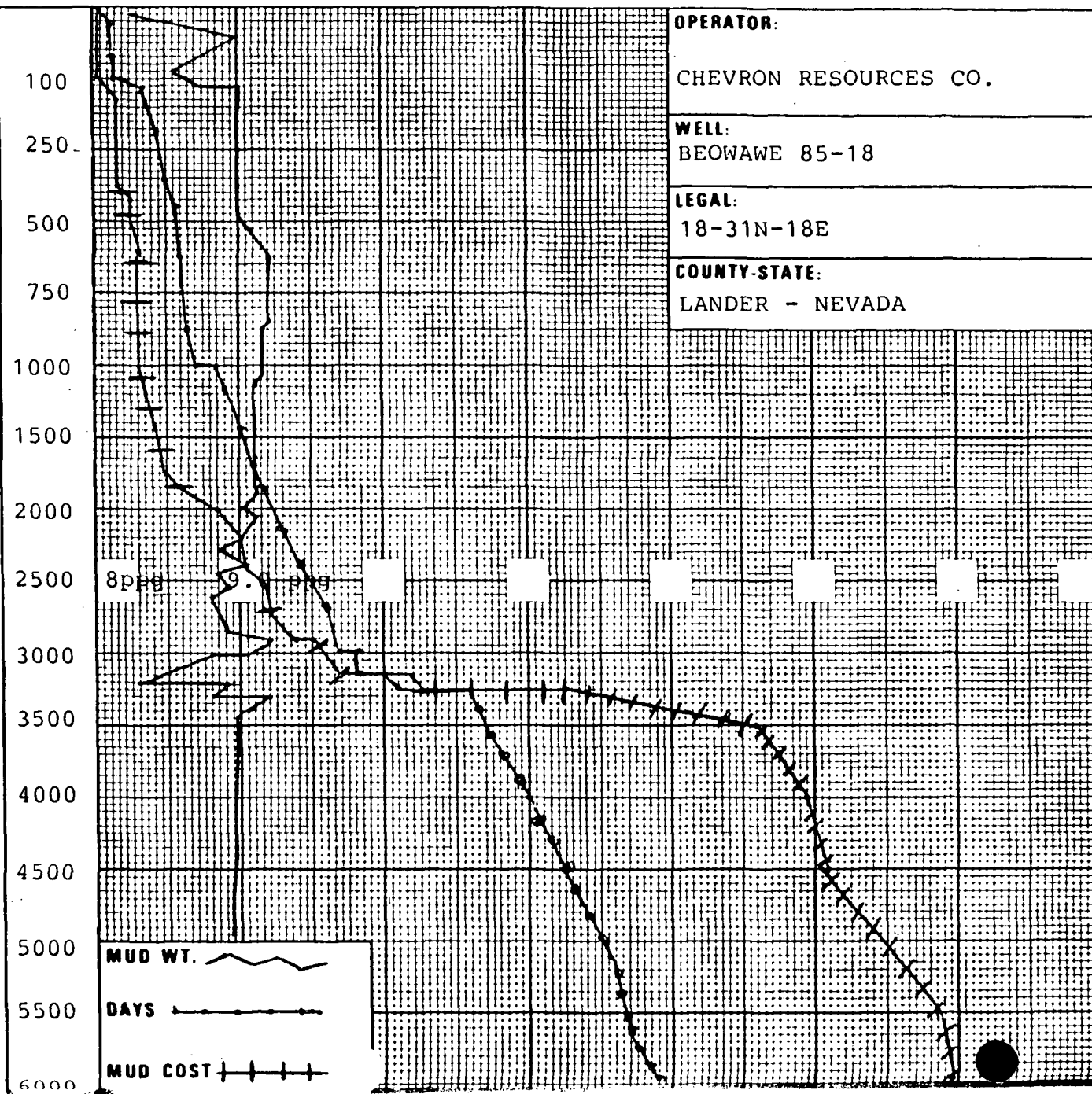
BEOVAWE 85-18

LEGAL:

18-31N-18E

COUNTY-STATE:

LANDER - NEVADA



DRILLING MUD RECORD

N Baroid Petroleum Services

COMPANY Chevron Resources Co., STATE Nevada

CASING PROGRAM: 13 3/8 inch at 1006 ft.

WELL Beowawe 85-18 COUNTY Lander

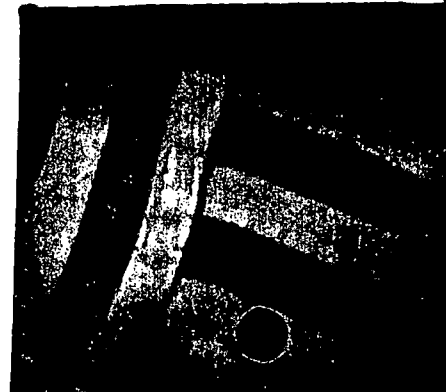
CONTRACTOR Kenai Camrich LOCATION Beowawe Geysers

SEC 18 TWP 31N RNG 18E

WOCKPOINT Reno Nevada DATE 1980 BAROID ENGINEER Jeffery L Meadors

TOTAL DEPTH _____ ft.

DATE	DEPTH feet	WEIGHT lb/gal	VISCOSITY		Yp	GELS 10 sec/ 10 min	pH	FILTRATION			FILTRATE ANALYSIS				SAND			RETORT			CEC Mud mu/ml	REMARKS AND TREATMENT		
			Sec API	PV F				mi API	HTHP F	Cake 32nds	Pm	PI MI	CI ppm	CA ppm	%	Solids %	Oil %	Water %						
1980																								
RCB 24	20	8.9	80	32	57	21/49	8			3	.2	.4	500	TR	TR	5		95	25				Mixed Spud mud	
25	94	8.6	50	20	20	9/30	9			3	.2	.3	500	TR	1	6		94	25					
26	106	8.7	56	40	20	10/26	9			3	.2	.3	500	20	1	5		94	30					
27	106	9.0	82	42	21	16/28	9	8		3	.2	.3	500	TR	1 1/2	7		93						
28	110	9.0	65	38	19	6/14	9	9		3	.2	.4	400	0	1/2	4		96						
29	110	9.0	65	38	19	6/14	9	9		3	.2	.4	400	TR	1/2	4		96						
MAR 1	110	9.0	65	38	19	6/14	9	9		3	.2	.4	400	TR	1/2	4		96						
2	127	9.0	68	30	5	5/15	10.0	7.5		2	1.0	1.5	400	80	1/2	10		90	35					
3	248	9.0	63	16	6	5/13	10.5	8.0		2	1.2	1.8	400	80	1/2	4		96	35					
4	343	9.0	65	20	8	4/13	9.5	9.5		3	.8	1.2	400	80	1/2	3		97	30					
5	400	9.0	59	30	11	2/8	9.5	9.0		2	.8	1.2	400	80	1/2	3		97	30					
6	635	9.2	70	50	25	4/18	9.0	9.0		3	.8	1.2	400	80	1/2	3		97	45					
7	833	9.2	80	48	24	4/17	9.5	8.8		3	1.0	1.8	400	80	1/2	3		97	45					
8	1008	9.2	80	48	24	4/17	9.5	9.0		3	1.0	1.8	400	80	1/2	3		97	45					
9																								
10																							Cement casing	
11																							Cement casing	
12	1120	9.1	60	22	10	4/25	10.5	10		3	.7	1.3	200	20	TR	4		96	30					
13	1228	9.1	45	17	8	3/20	10.5	10		3	.7	1.3	200	20	TR	4		96	30					
14	1449	9.1	45	12	6	1/5	10	7.6	21.5	2	.6	1.1	200	20	TR	4		96	30					
15	1669	9.1	45	16	8	1/6	10	7.0	18.0	2	.6	1.1	200	20	TR	3		97	25					
16	1828	9.1	47	15	7	1/6	10	7.0	15.0	2	.6	1.1	200	20	TR	3		97	30					
17			Lost circulation																					
18	1977	9.0	80	30	45	20/40	8	12		3	.2	.4	200	20	TR	3		97	50					
19	2154	9.1	80	30	48	20/40	8	18		4	.2	.4	200	20	TR	4		96	45					
20	2204	8.8	45	17	11	3/15	8	18		4	0	.1	200	20	TR	3		97	40					
21	2287	8.8	45	17	11	3/15	8	18		4	0	.1	200	200	TR	3		97	35					
22	2345	9.0	50	30	8	4/20	9	14		4	.1	.3	200	200	TR	4		96	30					
23	2447	8.8	40	7	9	0/1	8	10		2	0	.5	150	80	1/2	3		97	25					
24	2569	8.9	45	22	8	1/6	9.5	8		3	.4	.8	200	70	1/2	4		96	25					
25	2605	8.8	50	22	10	1/5	9.5	8		2	.1	.8	200	60	1/2	4		96	25					
26	2790	8.9	50	21	13	0/3	9.5	7		2	.3	.8	200	40	1/2	5		95	25					
27	2900	9.2	45	16	8	1/4	10	8	15.0	2	.4	.9	200	40	1/2	5		95	30					
28	2974	9.1	45	16	8	0/4	10	8	15.1	2	.4	.9	200	20	1/2	5		95	30					
																							Lost circulation	



DRILLING MUD RECORD

NL Baroid Petroleum Services

COMPANY Chevron Resources Co. STATE Nevada

WELL Beowawe 85-18 COUNTY Lauder

CONTRACTOR Kenai - Camrich LOCATION Beowawe Geysers

SEC 18 TWP 31N RANG 18E

STOCKPOINT Reno Nevada DATE 1980 BAROID ENGINEER Jeffrey L. Meadors 2/24 - 4/8

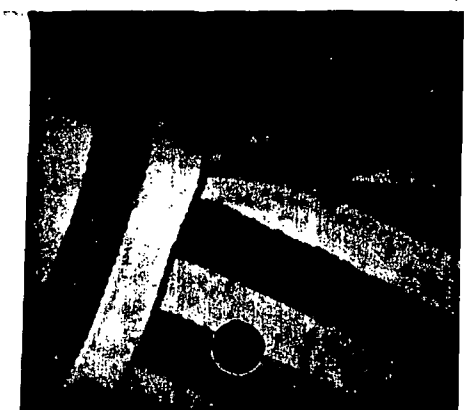
CASING PROGRAM: _____ inch at _____ ft.

_____ inch at _____ ft.

_____ inch at _____ ft.

TOTAL DEPTH _____ ft.

DATE	DEPTH	WEIGHT	VISCOSITY		Yp	GELS	pH	FILTRATION			FILTRATE ANALYSIS				SAND		RETORT			CEC	REMARKS AND TREATMENT	
			Sec API	PV				10 sec/10 min	Strap Meter	ml API	HTHP	Cake	Pm	PI/MI	Cl ppm	CA ppm	%	Solids %	Oil %			Water %
MAR 30	2974	8.9	60	9	44	15/21	12.5	40		6	3.1	3.5	200	280	TR	3		97	45			
31	3149					No mud in pit -															loss circulation	
APR 1	3149	8.9	100	15	30	8/14	10.5	8		3	1.0	1.5	200	40		3		97	50			
2	3149					No mud in pit -															loss circulation	
3	3149					No mud in pit -															loss circulation	
4	3179	8.8	50	15	25	7/18	9	12		3	.5	.8	150	TR		3		97	25			
5	3196	8.7	35	5	5	3/9	9.5	24		3	.35	.55	150	20		2		98	20			
6	3196					Pit filled with water																
7	3196					Pit filled with water																
8	3196	9.7	60	20	18	3/10	9.5	8		4	.3	.8	180	80		4		96	35			
9	2950	8.7	93	30	38	34/48	7.8	10.4		3	.12	.65	212	80		3		97			Circ to cond hole - Good circ.	
10	2950	8.7	65	25	21	10/16	8.0	8.4		2		.7	230	80	1/2	3		97			Bridge @ 1850 - Clean to TD	
11	3193	8.7	37	16	11	4/9	8.0	8.4		2		.7	230	80	1/2	3		97			Circ and cond mud WO gravel	
11	3208	8.8	40	12	11	3/5	8.0	8.8		2		.64	220	64	1/2	4		96			LCM trace - circ & cond - spot gravel	
12	3208	8.8	38	15	2	2/7	8.0	11.2		2		.44	210	64	TR	4		96			back to 2950	
16	3208	8.7	35	8	4	2/5	8.0	12.8		2		.37	230	72	TR	3		97			Circ to run 9 5/8 csq.	
17						thru 19th W.O.C.																RIH tag cement
20	2950	8.8	40	13	12	3/5	8.1	14		2		.6	200	60	1/2	4		96				Run tmeq survey
22	2950	8.9	35	19	6	4/9	8.0	15		2		.5	200	40	1/2	4		96				Test drill stem
23	2950	8.5	32	5	3	3/7	8.0	20		1		.5	160	20	1/2	3		97				Run wireline log
24	3281	8.9	46	15	9	7/19	9.6	14		2	.1	.9	200	40	1/2	6		94				Diavation survey 1 ⁰ indication
25	3427	8.9	47	14	8	6/18	10	8		2	.1	.7	200	100	1/2	5		95				Drlg ahead
26	3673	9.0	44	12	11	4/18	9	10		2	.3	.5	200	40	1/2	4		96				Drlg with plugged bit.
27	3825	9.0	46	16	9	7/21	9.5	8		2		.4	200	80	1/2	4		96				
28						Dump mud in sump -																clean pits
29	3835	8.8	49	18	12	9/22	9.5	10		2	.1	.5	200	160		4		96	20			Run temp survey
30	3835	9.0	50	19	12	10/23	10	11		2	.1	.7	200	100		5		95				Ream to bottom
1	3835	8.9	44	15	19	6/17	9.5	10		2	.1	.6	200	160	1/2	5		95				Run temp survey
2	3956	9.0	45	17	9	6/18	9.8	10		2	.1	.4	200		1/2	8		92				Drlg ahead
3	4039	8.9	43	16	8	5/17	9.5	10	15.3	2	.1	.6	180		10	7		93	20			Drlg ahead
4	3039	8.9	43	15	9	4/13	9.0	10.3	16.8	2		.6	160	40	1/2	4		96				POH Swap out draw work Eng.
5	4105	9.2	50	19	12	6/17	10	7.8		2	.1	.7	200	60	1/2	7		93				Drlg ahead
6	4224	9.2	44	16	5	4/12	9	6	13.8	2		.5	160	40	1/2	7		93				Drlg ahead
7	4373	9.2	45	15	6	4/9	8.9	6.8	13.9	2		.5	160	80	1/2	7		93				Drlg ahead



DRILLING MUD RECORD

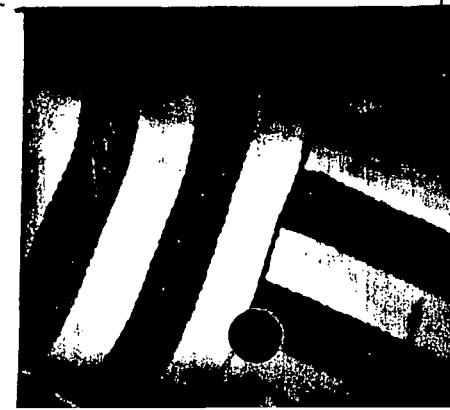


COMPANY Chevron Resources STATE Nevada
 WELL Beowawe Well 85-18 COUNTY Lauder
 CONTRACTOR Kenai - Camrich LOCATION Geyers
 STOCKPOINT Reno DATE _____ BAROID ENGINEER Daryl Thomas

CASING PROGRAM: _____ inch at _____ ft.
 _____ inch at _____ ft.
 _____ inch at _____ ft.
 TOTAL DEPTH _____ ft.

SEC 13 TWP 31N RNG 48E

DATE	DEPTH	WEIGHT	VISCOSITY		Yp	GELS	pH	FILTRATION			FILTRATE ANALYSIS				SAND			RETORT			CEC	REMARKS AND TREATMENT	
			Sec API	PV				10 sec/10 min	Sump Meter	ml API	HTHP	Cake 32nds	SSPF	SS% MI	Cl ppm	CA ppm	%	Solids %	Oil %	Water %			Mud me/ml
MAY 8	4532				Run	Temp	Survey															Drill f/4316 to 4532	
9	4532	8.9	43	18	7	4/13	9.4	8		2	0	.6	160	60		4	96					Run Temp Survey's POH	
10	4540				Run	Wire	line	logs														RIH to 4530 Circ.,	
11	4540				Run	Wire	Line	Logs														Log hole	
12	4540				Run	Wire	Line	Logs														Log hole	
13	4652	8.9	43	16	6	3/9	9	9	17.1	2	0	.6	150	40		4	96					Rig down - loggers	
14	4845	8.9	48	18	8	3/11	9.2	6.8	14.1	2	.1	.7	160	60		4	96					Drill ahead	
15	4985	8.9	41	15	7	3/9	9.5	6.6	13.9	2	0	.6	160	80		4	96					Drill ahead	
16	5111	8.9	40	14	7	3/9	9.5	7.5	14.8	2	.1	.7	160	80		4	96					Drill ahead	
17	5221																						
18	5221																						Worked on rig (new clutch)
19	5221																						Worked on rig (new clutch)
20	5221																						Worked on rig (new clutch)
21	5221	9.0	40	13	6	3/8	9.1	6.2	14.2	2	.1	.8	160	100		4	96					Test BOP Drill ahead	
22	5320	9.1	43	19	10	4/15	9.5	7.0	14.8	2	.2	.9	180	100	1/4	5	95					Drill ahead	
23	5502	9.1	45	18	10	4/13	9.5	7.0	14.9	2	.1	.7	160	100	1/4	5	95					Drill ahead	
24	5529	9.1	43	17	8	3/11	9.8	7.2	15.2	2	.2	.8	180	100	1/4	5	95					Drill ahead	
25	5692	9.2	46	19	11	4/13	10	7.6	15.2	2	.1	.7	180	120	1/4	5	95					RIH new bit	
26	5859	8.8	40	15	8	3/10	9.8	7.6	15.2	2	.2	.8	180	100		4	96					Drly ahead	



**Baroid
Petroleum Services**

MATERIALS

1980		Aquagel	Baroid	Carbonox	Caustic	Coat-45	Cotton seed	cypan	CC-16	Fibertex	Kwik-seal	Lime	Surfloh 35	QBroxin	Fin Wallnut	Bicarb	Coarse Wnut	Quik-gel			Baroid Pump	Mud Trailers
Feb	23rd																					x
	24th	94										2										x
	25th	42										1										x
	26th	54																				x
	27th	21										1										x
	28th	20		3																		x
	29th																					x
March	1st																					x
	2nd	22		1				1						5		3						x
	3rd	15		3				1						4								x
	4th	48												4							x	x
	5th	37		2				1						2							x	x
	6th	44		2				2						2							x	x
	7th	94		2				2						1							x	x
	8th	8		1										1							x	x
	9th																				x	x
	10th																				x	x
	11th																				x	x
	12th	7		1				1								4					x	x
	13th	10	2	2				2						2							x	x
	14th	17	7	1				4	2			2	8g	3	2						x	x
	15th	10	3	2			2	4	4	2			4g	2							x	x
	16th	21	6	3			2	6	9	1			4g	3							x	x
	17th	118	2				33	2	5	35			2g		10						x	x
	18th	223		10	1	46		5	5												x	x
	19th	154								1		5			1						x	x
	20th	119		2								2					2				x	x
	21st	25										1					1				x	
	22nd	14		1					3									15			x	
	23rd	64	11	4	2			2	4					3				12			x	
	24th			15	5	2		4	8		1							18				
	25th			10	2			2	2									8				
	26th			12	2			6										27				

DAILY PROGRESS DRILLING REPORTS

FEBRUARY 22-JUNE 3, 1980

DAILY PROGRESS OF DRILLING WELLS (FD-562)

DRILLING DAYS _____ CUM. ROTATING HRS. _____ 2-22 19 80

WELL NO. DOE 85-18 FIELD BEDWAWE NEVADA CONTRACTOR KENAI # 7

DEPTH	BIT NO.	SIZE	MAKE-TYPE	FEET	HOURS	JETS	CONDITION
						<u>11</u>	
FROM	FT. TO	FT.	FT.	IN	HRS.	1000#	RPM

DRILLING SETUP _____

LAST CASING _____ AT _____ FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID _____ MUD CO. _____ TYPE _____ WEIGHT _____ PCF FUNNEL VISC. _____ SEC. _____ PLASTIC VISC. _____ CPS

YIELD PT. _____ #/100 SQ. FT. _____ WATER LOSS _____ CC HT+HP WATER LOSS _____ CC FILTER CAKE _____ SOLIDS _____ SAND _____

CHLORIDE _____ PPM OIL _____ % CA _____ PPM pH _____ ALK _____ GALS (% MIN.) _____ OTHER REMARKS _____

SURVEYS _____

DETAIL CANT. TO RIG UP @ CAM.

CUMULATIVE MUD COST _____ CUMULATIVE DAILY COST _____ DRILLING REPRESENTATIVE SAS / RJA

RIG PHONE NO. _____

DRILLING PROGRESS OF DRILLING WELLS 562

DRILLING DAYS 1 CUM. ROTATING HRS. 6 2-23 1980

L NO. 85-18 FIELD BEOWAWE CONTRACTOR KENAI # 7

DEPTH _____ BIT NO. 1 12 1/4 SEC. M4N 16 0 15 1/2 INX.
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ 11
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM _____ FT. TO _____ FT. _____ FT. _____ FT. IN _____ HRS. _____ 1000# _____ RPM
WT. ON BIT SPEED

DRILLING SETUP _____

LAST CASING _____ AT _____ FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL 8.6 PCF 70 SEC. _____ CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

_____ #/100 SQ. FT. _____ CC _____ CC 132 _____ % _____ %
YIELD PT. WATER LOSS HT+HP WATER LOSS FILTER CAKE SOLIDS SAND

_____ PPM _____ % _____ PPM _____ GALS (% MIN.) _____ OTHER REMARKS
CHLORIDE OIL CA pH ALK

SURVEYS _____

DETAIL RIG UP. STARTED OPERATIONS 9PM 2-22-80. WENTERIZED
RIG + INSTALLED WIND WALLS + BLOWERS. SPUD RAT HOLE
@ 12AM. DYNA DRID RAT HOLE FROM 15'-31' @ 6AM.

LOCATION: 2960' SOUTH, 80' WEST OF NE CORNER
OF SEC. 18 31N, 48E MDBM.
ELEV. ~ 4920'.

CUMULATIVE MUD COST 340

CUMULATIVE DAILY COST 85,848

DRILLING REPRESENTATIVE SAS/RJA

RIG PHONE NO. 702-635-5556

DAILY PROGRESS OF DRILLING WELLS 40-562

DRILLING DAYS 2 CUM. ROTATING HRS. 22 1/2 2-24 19 80

WELL NO. 85-18 FIELD BEDOWAVE CONTRACTOR KENAI #7

DEPTH 65 BIT NO. 1 12 1/4 SEC M4N 40 15 151515 T-3 B-2

SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. 2 17 1/2 SEC M4N 50 7 1/2 202020 INC.

SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM 15 FT. TO 65 FT. 50 FT. IN 7 1/2 HRS. 3 1000# _____ RPM

WT. ON BIT _____ SPEED _____

DRILLING SETUP BIT, BIT SUB, DYNA, 2-X-OVER, KELLY

LAST CASING _____ AT _____ FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM

SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL 8.9 PCF 80 SEC. _____ CPS

MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

_____ #/100 SQ. FT. _____ CC _____ CC _____ % _____ %

YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

_____ PPM _____ % _____ PPM _____

CHLORIDE OIL CA pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL DYNA DRLD. RAT HOLE F/ 31-55. SET RAT HOLE. M/4

17 1/2" BIT. DYNA DRLD. FOR COND. F/ 15-65 @ 6AM.

CUMULATIVE MUD COST 770 CUMULATIVE DAILY COST 97,133. DRILLING REPRESENTATIVE SAS/RJA

RIG PHONE NO. 702-635-5556

DAILY PROGRESS OF DRILLING WELLS Pro-562

DRILLING DAYS 3 CUM. ROTATING HRS. 34 1/2 2-25 1980

WELL NO. 85-18 FIELD BEOWAQUE CONTRACTOR KENAI #7

DEPTH 94 BIT NO. 2 17 1/2 SEC M44N 79 2 1/2 2012020 INC.
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM 65 FT. TO 94 FT. 29 FT. IN 14 HRS. 5 1000# 100 RPM
WT. ON BIT SPEED

DRILLING SETUP BIT, BIT SUB, 2PC., STAR, XOVER

LAST CASING _____ AT _____ FORMATION BOULDERS PUMP PRESS. 500 PSI@ 60 SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL 8.6 PCF 75 SEC. _____ CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

YIELD PT. #/100 SQ. FT. WATER LOSS CC HT-HP WATER LOSS CC FILTER CAKE SOLIDS % SAND %

CHLORIDE PPM OIL % CA PPM pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL DYNA DRLD. 17 1/2" HOLE FROM 65'-80'. BOULDERS FALLING
IN, POH. 4D DYNA. RIH. DRLD. 17 1/2" FROM 80-94'
REPAIRING PUMP @ 6AM.

CUMULATIVE MUD COST 1110

CUMULATIVE DAILY COST 108,292

DRILLING REPRESENTATIVE SAS/RJA

RIG PHONE NO. 702-635-5556

DAILY PROGRESS OF DRILLING WELLS , 10-562

DRILLING DAYS 4 CUM. ROTATING HRS. 48 2-26 19 80

WELL NO. 85-18 FIELD BELOWAVE CONTRACTOR KENAI #7

DEPTH <u>106</u>	BIT NO. <u>2</u>	SIZE <u>17 1/2"</u>	MAKE-TYPE <u>SEC M44N</u>	FEET <u>91</u>	HOURS <u>32</u>	JETS <u>20R20</u>	CONDITION <u>INX.</u>
	BIT NO. <u>3</u>	SIZE <u>26"</u>	MAKE-TYPE <u>SEC. H.O.</u>	FEET <u>30</u>	HOURS <u>3</u>	JETS <u>16 1/16</u>	CONDITION <u>INX.</u>
FROM <u>94</u> FT. TO <u>106</u> FT.	FT. <u>12</u> FT.		IN <u>1 1/2</u> HRS.	WT. ON BIT <u>6</u>	1000#	<u>100</u>	RPM
DRILLING SETUP <u>BIT, H.O., XOVER, KELLY</u>						SPEED	

LAST CASING _____ AT _____ DEPTH _____ FORMATION BOULDERS + SHALE PUMP PRESS. 300 PSI @ 60 SPM

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID MUD CO. GEL TYPE 8.7 WEIGHT PCF 56 FUNNEL VISC. SEC. 40 PLASTIC VISC. CPS

20 #/100 SQ. FT. WATER LOSS CC 3 HT-HP WATER LOSS CC 5 FILTER CAKE SOLIDS % 1 SAND %

500 PPM CHLORIDE OIL % 20 PPM CA PH 9.0 ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL DRLD. 17 1/2" HOLE FROM. 94-106. CIRC. + COND MUD POW.

M/U 26" H.O., OPEN 17 1/2" HOLE TO 26" FROM 15'-45' @ 6AM.

CUMULATIVE MUD COST 1535 CUMULATIVE DAILY COST 121,924 DRILLING REPRESENTATIVE SAS/RTA

RIG PHONE NO. 702-635-5556

DAILY PROGRESS OF DRILLING WELLS 10-562

DRILLING DAYS 5 CUM. ROTATING HRS. 28 2-27 19 80

W. NO. DOE 85-18 FIELD BEOWAWE CONTRACTOR KENAI # 7

DEPTH 106 BIT NO. 1 H.O. 26" SEC. ROCK 91 13 200020 INC.
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ 11 _____
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM _____ FT. TO _____ FT. _____ FT. IN _____ HRS. _____ 1000# _____ RPM
WT. ON BIT SPEED

DRILLING SETUP 17 1/2" BIT, H.O., XOVER, D.C.

LAST CASING 8 AT _____ FORMATION SANDY ROCK PUMP PRESS. 100 PSI@ 52 SPM
SIZE DEPTH

PUMP OUTPUT 327 GPM ANNULAR VEL. 30 FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL 9.0 PCF 82 SEC. 42 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

21 #/100 SQ. FT. 8 CC 3 1/2 5 % 1 1/2 %
YIELD PT. WATER LOSS HT-HP WATER LOSS CC FILTER CAKE SOLIDS SAND

500 PPM 0 % TR PPM 9.0 .2/1.3 _____
CHLORIDE OIL CA pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL OPEN 17 1/2" HOLE TO 26" FROM 45'-106' CIRC. HOLE CLEAN @ 6AM.

CUMULATIVE MUD COST 1710 CUMULATIVE DAILY COST 134,191

DRILLING REPRESENTATIVE BR/RJA

RIG PHONE NO. 702-635-5556

DAILY PROGRESS OF DRILLING WELLS 8-562

DRILLING DAYS 6 CUM. ROTATING HRS. 48 FEB 28 19 80

WELL NO. DOE 85-18 FIELD BEOWAWE CONTRACTOR KENAI #7

DEPTH <u>110</u>	BIT NO. <u>#2 H.O.</u>	SIZE <u>26" R.R.</u>	MAKE-TYPE <u>SEC. ROCK</u>	FEET <u>4</u>	HOURS <u>2</u>	JETS <u>20R20</u>	CONDITION <u>INC.</u>
	BIT NO. <u>#3 R.R.</u>	SIZE <u>17 1/2"</u>	MAKE-TYPE <u>SEC. M44N</u>	FEET <u>4</u>	HOURS <u>2</u>	JETS <u>16V616</u>	CONDITION <u>INC.</u>

FROM 106 FT. TO 110 FT. 4 FT. IN 2 HRS. 8 1000# 100 RPM
WT. ON BIT SPEED

DRILLING SETUP 17 1/2" BIT, 26" H.O., D.C.

LAST CASING SIZE AT DEPTH FORMATION SAND + ROCK PUMP PRESS. 100 PSI @ 52 SPM

PUMP OUTPUT GPM ANNULAR VEL. FT./MIN. (D.P.) NOZZLE VEL. FT./SEC.

DRLG. FLUID BAROID MUD CO. GEL TYPE 9.0 WEIGHT PCF 65 FUNNEL VISC. SEC. 38 CPS PLASTIC VISC.

19 #/100 SQ. FT. 9 CC WATER LOSS HT-HP WATER LOSS CC 3 132 4 % 1/4 %
YIELD PT. FILTER CAKE SOLIDS SAND

400 PPM CHLORIDE 9.0 PPM CA 12/4 PH 2/4 ALK GALS (% MIN.) OTHER REMARKS

SURVEYS

DETAIL CIRC. + COND. HOLE FOR CONDUCTOR. POH. RAN 20" COND. STOPPED @ 60'. POH W/ CSG. P/U BIT, H.O. & RIH. REAMED FROM 17'-106'. DRLD. 106'-110'. CIRC. + COND. HOLE @ 6AM.

CUMULATIVE MUD COST 1944. CUMULATIVE DAILY COST 141,786 DRILLING REPRESENTATIVE B.R. / RTA
 RIG PHONE NO. 702-635-5556

DAILY PROGRESS OF DRILLING WELLS 562

DRILLING DAYS 7 CUM. ROTATING HRS. 48 2-29 1980

WELL NO. DOE 85-18 FIELD BEOUAWE CONTRACTOR KENAI #7

DEPTH <u>110</u>	BIT NO. _____	SIZE _____	MAKE-TYPE _____	FEET _____	HOURS _____	JETS <u>11</u>	CONDITION _____
	BIT NO. _____	SIZE _____	MAKE-TYPE _____	FEET _____	HOURS _____	JETS <u>11</u>	CONDITION _____
FROM _____	FT. TO _____	FT. _____	FT. _____	IN _____	HRS. _____	1000# _____	RPM _____
				WT. ON BIT _____		SPEED _____	

DRILLING SETUP _____

LAST CASING 20" AT 60' DEPTH FORMATION SANDY ROCK PUMP PRESS. _____ PSIG _____ SPM _____

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID <u>BAROID</u>	MUD CO. _____	TYPE <u>GEL</u>	WEIGHT <u>9.0</u>	PCF _____	FUNNEL VISC. <u>65</u>	SEC. <u>38</u>	PLASTIC VISC. _____	CPS _____
<u>19</u>	#/100 SQ. FT. <u>9</u>	CC _____	CC _____	<u>3</u>	<u>132</u>	<u>4</u>	% <u>14</u>	% _____
YIELD PT. <u>400</u>	PPM _____	% <u>TR</u>	PPM <u>9.0</u>	<u>12.4</u>				
CHLORIDE	OIL	CA	pH	ALK	GALS (% MIN.)	OTHER REMARKS		

SURVEYS _____

DETAIL CIRC. + COND. HOLE FOR CONDUCTOR. POH. RAN 20" COND. TO 60', STOPPED. USGS APPROVED 60' CMT'ING DEPTH. BJ CMT'D COND. W/ 200CF CLASS "G" CMT. W/ 3% CaCl2 THROUGH 1" TUBING IN ANNULUS, SET @ 50'. CIP @ 3:30 P.M. 2-28-80. W.O.C. LANDED 20" COND. WELD ON HEAD. WELDING ON DIVERTER LINE @ 6AM.

CUMULATIVE MUD COST 1944 CUMULATIVE DAILY COST 164,527 DRILLING REPRESENTATIVE BR/RJA

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELLS 0-562

DRILLING DAYS 8 CUM. ROTATING HRS. 48 3-1 1980

WELL NO. 85-18 Beowawe FIELD Beowawe CONTRACTOR Kenai 7

DEPTH <u>110'</u>	BIT NO. _____	SIZE _____	MAKE-TYPE _____	FEET _____	HOURS _____	JETS <u>11</u>	CONDITION _____
	BIT NO. _____	SIZE _____	MAKE-TYPE _____	FEET _____	HOURS _____	JETS <u>11</u>	CONDITION _____
FROM _____	FT. TO _____	FT. _____	FT. _____	IN _____	HRS. _____	1000# _____	RPM _____
				WT. ON BIT _____	SPEED _____		

DRILLING SETUP _____

LAST CASING 20 AT 60' FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM _____
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID <u>Bariod</u>	MUD CO. _____	TYPE <u>Gel</u>	WEIGHT <u>9.0</u>	PCF <u>65</u>	SEC. <u>38</u>	CPS _____
<u>19</u>	#/100 SQ. FT. <u>9</u>	CC _____	CC _____	<u>3.02</u>	<u>4</u>	% <u>1/4</u>
YIELD PT. _____	WATER LOSS _____	HT-HP WATER LOSS _____	FILTER CAKE _____	SOLIDS _____	SAND _____	OTHER REMARKS _____
<u>400</u> PPM	% _____	T PPM <u>9</u>	<u>.2/4</u>	GALS (% MIN.) _____		
CHLORIDE	OIL	CA	pH	ALK		

SURVEYS _____

DETAIL Work on picture nipple and flowline nipple up 20 by drill/unload casing. Make up 7 1/2" bit at 6:AM

CUMULATIVE MUD COST <u>1944</u>	CUMULATIVE DAILY COST <u>178893</u>	DRILLING REPRESENTATIVE _____
		RIG PHONE NO. <u>702 635 5556</u>

DAILY PROGRESS OF DRILLING WELLS 6-562

DRILLING DAYS 9 CUM. ROTATING HRS. _____ 3-2 1980

WELL NO. 85-18 FIELD Beowawe CONTRACTOR Kenal 7

DEPTH 131 BIT NO. 4 17 1/2 Sec. 54TJ 3 6 1/6 1/6 2-2-I
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS _____ CONDITION _____

FROM 110' FT. TO 131 FT. 21 FT. IN 3/4 HRS. 10 1000# 50 RPM
WT. ON BIT SPEED

DRILLING SETUP 17 1/2 bit, drill collars

LAST CASING 20 AT 60' FORMATION _____ PUMP PRESS. 600 PSI@ 51 SPM
SIZE DEPTH

PUMP OUTPUT 340 GPM ANNULAR VEL. 30 FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID Bar Gel 9.0 PCF 68 SEC. _____ CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

30 #/100 SQ. FT. 5 CC 7.5 CC 2.132 5 % 1/2 %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

400 PPM 80 PPM 10 1/1.5 _____
CHLORIDE OIL CA PH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL R.I.H. with 17 1/2" bit tag top of cement at 51' drill out cement to 110' drill to 131' and circulate P.O.H. Pick up top point and 3 point reamer and manel. R.I.H. at 6:21

CUMULATIVE MUD COST 2542

CUMULATIVE DAILY COST 192980

DRILLING REPRESENTATIVE BR. R/CF

RIG PHONE NO. 702 635-5556

DAILY PROGRESS OF DRILLING WELLS 0-562

DRILLING DAYS 10 CUM. ROTATING HRS. 65³/₄ 3-3- 1980

WELL NO. 85-18 FIELD Beowawe CONTRACTOR Kenai 7

DEPTH 248 BIT NO. 5 17 1/2" Sec 5-88 117' 17 15/15/15 IC.
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM 131 FT. TO 248 FT. 117 FT. IN 17 HRS. 20 1000# 50 RPM
WT. ON BIT SPEED

DRILLING SETUP 17 1/2 bit, 6 point reamer, float sub, monel, 3 point reamer, drill collars, stabilizer, 3-D.C., stab,

LAST CASING 20 AT 60' FORMATION Rock PUMP PRESS. 650 PSI@ 52 SPM
SIZE DEPTH

PUMP OUTPUT 336 GPM ANNULAR VEL. 30 FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID _____ Gel 9.0 PCF 63 SEC. 16 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

6 #/100 SQ. FT. 8 CC _____ CC 2.132 5 % 1/2 %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

400 PPM _____ % 80 PPM 10.5 1.2/1.8 _____
CHLORIDE OIL CA PH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS 120' 1°45' 57.5 W

DETAIL R.L.H. to 131' drill ahead to 180 circulate survey, drilling ahead at 6:AM depth 248'

CUMULATIVE MUD COST 3009 CUMULATIVE DAILY COST 230,898

DRILLING REPRESENTATIVE B.R.R./CF
 RIG PHONE NO. 702 635/5556

DAILY PROGRESS OF DRILLING WELLS 562

DRILLING DAYS 11 CUM. ROTATING HRS. 85 3-4 19 80

WELL NO. DOE 85-18 FIELD BEOWAWE CONTRACTOR KENAI # 7

DEPTH 343 BIT NO. 5 17 1/2" SEC. S80A
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ 11
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM 248 FT. TO 343 FT. 95 FT. IN 19 1/4 HRS. 15 1000# 50 RPM
WT. ON BIT SPEED

DRILLING SETUP 17 1/2" BIT, 6 PT. REAMER, FLOAT SUB, MONEL, 3PT REAMER, DC., STAB,

3DC, STAB, 3DC, STAB

LAST CASING 20" AT 60' FORMATION Rock PUMP PRESS. 500 PSI@ 52 SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT/SEC.

DRLG. FLUID BAROID GEL 9.0 PCF 65 SEC. 20 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

8 #/100 SQ. FT. 9.5 CC 3 5 % 14 %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

400 PPM 800 PPM 9.5 9.2
CHLORIDE OIL CA pH ALK GALS (% MIN.)

SURVEYS 241' 1°30' S57W 284' 2° S77W OTHER REMARKS _____

DETAIL DRLD. 248'-253'. RIG DOWN 3 HRS. FOR REPAIRS ON KELLY.

DRLD. AHEAD TO 314' CIRC + SURVEY. DRLG AHEAD @ 343' @

6AM.

CUMULATIVE MUD COST 3470

CUMULATIVE DAILY COST 242,068

DRILLING REPRESENTATIVE BR/RJA

RIG PHONE NO. 702-635-5556

DAILY PROGRESS OF DRILLING WELLS 562

DRILLING DAYS 12 CUM. ROTATING HRS. 94 3-5 1980

WELL NO. 85-18 D.D.E. FIELD BEDWAWE CONTRACTOR KENAI 7

DEPTH <u>400</u>	BIT NO. <u>5</u>	SIZE <u>17 1/2</u>	SEC. <u>S88</u>	FEET <u>240</u>	HOURS <u>42 3/4</u>	JETS <u>15/15/15</u>	CONDITION <u>4-A-T</u>
	BIT NO. <u>6</u>	SIZE <u>17 1/2</u>	SEC. <u>S84</u>	FEET <u>29</u>	HOURS <u>2 1/2</u>	JETS <u>11</u>	CONDITION <u>IC</u>
FROM <u>343</u>	FT. TO <u>40</u>	FT. <u>57</u>	FT. <u>57</u>	IN <u>9</u>	HRS. <u>25</u>	1000# <u>50</u>	RPM <u>50</u>
					WT. ON BIT	SPEED	

DRILLING SETUP BIT, 6 POINT REAMER, FLOAT SUB, SHOCK SUB, MODEL, 3 POINT REAMER, 1-D.C., STAB, 3-D.C., STAB, 3-D.C., STAB.

LAST CASING 20 AT 100 FORMATION ROCK PUMP PRESS. 600 PSI@ 53 SPM

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BARIOD MUD CO. GEL TYPE 9.0 WEIGHT PCF 59 SEC. 30 CPS

YIELD PT. <u>11</u>	#/100 SQ. FT. <u>9.0</u>	WATER LOSS CC <u>9.0</u>	HT-HP WATER LOSS CC <u>2.32</u>	FILTER CAKE <u>5</u>	% SOLIDS <u>1/4</u>	% SAND <u>1/4</u>
CHLORIDE PPM <u>400</u>	OIL % <u>80</u>	CA PPM <u>9.5</u>	pH <u>9.5</u>	ALK _____	GALS (% MIN.) _____	OTHER REMARKS _____

SURVEYS 354' 1° 15' S84W

DETAIL DRILL 17 1/2" HOLE 343' TO 365' (RIG DOWN FOR REPAIRS ON STAND PIPE)
DRILL FROM 365' TO 371' (RIG DOWN FOR REPAIRS TO DRAW WORKS ENGINE)
P.O.H. WITH BIT #5. CHANGE BITS R/LH TO 371'; DRILL FROM 371' TO
400' DRILLING AHEAD AT 6:AM

NOTE:
RIG DOWN 4 HRS FOR REPAIRS.

CUMULATIVE MUD COST 4020 CUMULATIVE DAILY COST 261.828 DRILLING REPRESENTATIVE B.P.R. /CF
 RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELLS No. 562

DRILLING DAYS 13 CUM. ROTATING HRS. 105 3/4 3-6 1980

WELL NO. D.O.E 85-18 FIELD Beowawe CONTRACTOR Kenal #7

DEPTH 653 BIT NO. 6 17 1/2 Sa-584 282 14 1/4 11 IC
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO.
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM 400 FT. TO 653 FT. 253 FT. IN 11 3/4 HRS. 25-35 1000# 50 RPM
WT. ON BIT SPEED

DRILLING SETUP 17 1/2 bit, 6 Point reamer, float sub, shock sub, manel, 3 point reamer
1-D.C., stab, 3-D.C., stab, 3-D.C., stab

LAST CASING 20 AT 60 FORMATION Rock PUMP PRESS. 600 PSI@ 52 SPM
SIZE DEPTH

PUMP OUTPUT 340 GPM ANNULAR VEL. 33 FT./MIN. (D.P.) NOZZLE VEL. FT/SEC.

DRLG. FLUID Baroid Gel 9.2 PCF 70 SEC. 50 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

25 #/100 SQ. FT. 9 CC CC 3 1/2 6 % 1/4 %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

400 PPM % 80 PPM 9
CHLORIDE OIL CA PH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS 468' 1° 15' S 16W

DETAIL Drilled 17 1/2" hole from 400' to 468' problems with fill
on each connection circulate out 15' of fill and surge.
drilled from 468' to 653' at 6AM, drilling ahead.

CUMULATIVE MUD COST 4745 CUMULATIVE DAILY COST 260,793 DRILLING REPRESENTATIVE B.R.R./CF
 RIG PHONE NO.

DAILY PROGRESS OF DRILLING WELLS F-562

DRILLING DAYS 14 CUM. ROTATING HRS. 123 1/2 3-7 19 80

WELL NO. DOE 85-18 FIELD BEOVAWE CONTRACTOR KENAI #7

DEPTH 857 BIT NO. 6 17 1/2 SEC. FB4 486 32 11
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO.
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM 653 FT. TO 857 FT. 204 FT. IN 17 1/2 HRS. 30 1000# 50 RPM
WT. ON BIT SPEED

DRILLING SETUP 17 1/2" BIT, 6 PT REAMER, FLOAT SUB, SHOCK SUB, MONEL, 3 PT REAMER, DC, STAR, 3DC, STAR, 3DC, STAR, 3DC.

LAST CASING 20" AT 60' FORMATION BASALT PUMP PRESS. 500 PSI@ 52 SPM
SIZE DEPTH

PUMP OUTPUT GPM ANNULAR VEL. FT./MIN. (D.P.) NOZZLE VEL. FT./SEC.

DRLG. FLUID BAROID 6EC 9.2 PCF 80 SEC. 48 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

24 #/100 SQ. FT. 8.8 CC 3 132 6 % 14 %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

400 PPM 80 PPM 9.5
CHLORIDE OIL CA PH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS 700 10 1/2 S 30W

DETAIL DRLD. 17 1/2" HOLE FROM 653'-770'; CIRC + SURVEYED. DRLD. 770'-857' @ 6AM. DRLG. AHEAD

CUMULATIVE MUD COST 5832

CUMULATIVE DAILY COST 279,874

DRILLING REPRESENTATIVE BR/RJA

RIG PHONE NO. 702-635-5556

DAILY PROGRESS OF DRILLING WELLS D-562

DRILLING DAYS 15 CUM. ROTATING HRS. 131^{3/4} 3-8 1980

WELL NO. DOE 85-18 FIELD BEOUAWE CONTRACTOR KENAI # 7

DEPTH 1008 BIT NO. 6 17 1/2 SEC. 584 637 40 1/4 161616
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS _____ CONDITION _____

FROM 857 FT. TO 1008 FT. 151 FT. IN 8 1/4 HRS. 35 1000# 50 RPM
WT. ON BIT SPEED

DRILLING SETUP 17 1/2" BIT, 6 PT REAMER, FLOAT SUB, SHOCK SUB, MONEL, 3 PT REAMER
IDC, STAB, 3DC, STAB, 3DC, STAB, 3DC

LAST CASING 20" AT 60' FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL _____ PCF _____ SEC. _____ CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

YIELD PT. #/100 SQ. FT. _____ CC _____ CC _____ % _____ %
WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

CHLORIDE PPM _____ OIL % _____ CA PPM _____ pH _____ ALK _____ GALS (% MIN.) _____ OTHER REMARKS

SURVEYS _____

TAIL DRID FROM 857' TO 1008'. CIRC + COND HOLE, WIPE TO COLLARS.
CIRC. POH. RIG UP SCHLUMBERGER, RAN DIL, SONIC LOG, DIP METER.
RIG DOWN LOGGERS @ 6AM.

CUMULATIVE MUD COST 5974 CUMULATIVE DAILY COST 297,030

DRILLING REPRESENTATIVE BR/RJA
RIG PHONE NO. 702-635-5556

DAILY PROGRESS OF DRILLING WELLS 0-562

DRILLING DAYS 16 CUM. ROTATING HRS. 131 3/4 3-9 19 80

WELL NO. DOE 85-18 FIELD BEOWAWA CONTRACTOR KENAI #7

DEPTH 1008 BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 11 CONDITION _____

BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 11 CONDITION _____

FROM _____ FT. TO _____ FT. _____ FT. _____ FT. IN _____ HRS. _____ 1000# _____ WT. ON BIT _____ SPEED _____ RPM _____

DRILLING SETUP _____

LAST CASING 13 3/8 AT 1006 FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM _____
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL _____ PCF _____ SEC. _____ CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

YIELD PT. 132 #/100 SQ. FT. _____ CC _____ CC _____ % _____ %
WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

CHLORIDE _____ PPM OIL _____ % CA _____ PPM pH _____ ALK _____ GALS (% MIN.) _____ OTHER REMARKS _____

SURVEYS _____

DETAIL RIH TO 1008'. CIRC FOR CSG. POH. RIG UP AND RAN 25 JTS. OF 13 3/8", 54.45 #, K-55, BUTT CSG. BJ HUGHES CMTD AS FOLLOWS: 100 C/F WATER AHEAD LEAD MIX 1200 C/F 1:1 POZZ CLASS "G" W/ 33# /SACK OF SILICA FLOUR TAIL MIX 200 C/F OF CLASS "G" W/ 33# /SACK SILICA FLOUR. DISP. W/ 855 C/F OF MMO. 250 C/F RETURNS TO SURFACE BUMPED PLUG. FLOAT HELD. CUP. @ 4AM 3-9-80. WOC @ 6AM.

CUMULATIVE MUD COST 5974 CUMULATIVE DAILY COST 364,704 DRILLING REPRESENTATIVE BR/RJA

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELLS No-562

DRILLING DAYS 17 CUM. ROTATING HRS. 131 3/4 3-10 19 80

WELL NO. DOE 85-18 FIELD BEOUNOE CONTRACTOR KENAI #7

DEPTH <u>1008</u>	BIT NO. _____	SIZE _____	MAKE-TYPE _____	FEET _____	HOURS _____	JETS <u>11</u>	CONDITION _____
	BIT NO. _____	SIZE _____	MAKE-TYPE _____	FEET _____	HOURS _____	JETS <u>11</u>	CONDITION _____
FROM _____	FT. TO _____	FT. _____	FT. _____	IN _____	HRS. _____	1000# _____	RPM _____
				WT. ON BIT _____		SPEED _____	

DRILLING SETUP _____

LAST CASING 13 3/8 AT 1006 FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL _____ PCF _____ SEC. _____ CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

YIELD PT. _____ #/100 SQ. FT. _____ CC HT-HP WATER LOSS _____ CC FILTER CAKE 132 % SOLIDS _____ % SAND _____

CHLORIDE _____ PPM OIL _____ % CA _____ PPM pH _____ ALK _____ GALS (% MIN.) _____ OTHER REMARKS _____

SURVEYS _____

DETAIL W.O.C. TARE OUT 20" HY DRILL . CUT OFF 20" CONDUCTOR
LAND 13 3/8" CASING AND WELD ON HEAD INSTALLED 12" GATE
VALVE . NIPPLE UP BOPE @ 6 AM .

CUMULATIVE MUD COST 5974

CUMULATIVE DAILY COST 373,274

DRILLING REPRESENTATIVE BR/RTA

RIG PHONE NO. _____

DRILLING PROGRESS OF DRILLING WELLS 562

DRILLING DAYS 18 CUM. ROTATING HRS. 131 3/4 3-11 1980

WELL NO. D.O.E. 85-18 FIELD Beowawe CONTRACTOR Kenai 7

DEPTH 1008 BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 11 CONDITION _____
BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 11 CONDITION _____
FROM _____ FT. TO _____ FT. IN _____ HRS. _____ 1000# _____ RPM _____
WT. ON BIT _____ SPEED _____
DRILLING SETUP _____

LAST CASING 13 3/8 AT 1006 FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM _____
SIZE DEPTH
PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.
DRLG. FLUID Baroid MUD CO. _____ TYPE _____ WEIGHT _____ PCF _____ SEC. _____ CPS _____
FUNNEL VISC. _____ PLASTIC VISC. _____
YIELD PT. #/100 SQ. FT. WATER LOSS CC HT-HP WATER LOSS CC FILTER CAKE SOLIDS SAND % %
CHLORIDE PPM OIL % CA PPM pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL Continue to nipple up B.O.E. install accumulator lines,
testing class III B.O.P.E. at 6.AM

CUMULATIVE MUD COST 5974 CUMULATIVE DAILY COST 396,648 DRILLING REPRESENTATIVE B.R.R./CF
RIG PHONE NO. 702 635-5556

DAILY PROGRESS OF DRILLING WELLS 562

DRILLING DAYS 19 CUM. ROTATING HRS. 143 1/4 3-12 19 80

L NO. DOE 85-18 FIELD BEOWAWE CONTRACTOR KENAI # 7

DEPTH 1120' BIT NO. 1(RR) 12 1/4 SEC M4N 165 11 1/2 1511515 INC.
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM 954 FT. TO 1120 FT. 165 FT. IN 11 1/2 HRS. 20 1000# 100 RPM
WT. ON BIT SPEED

DRILLING SETUP BIT, SHOCK SUB, MONEL, 10-7 3/4" D.C.

LAST CASING 13 3/8 AT 1006 FORMATION BASALT PUMP PRESS. 600 PSI@ 52 SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL 9.1 PCF 66 SEC. 22 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

10 #/100 SQ. FT. 10 CC 3 1/32 4 %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

200 PPM 20 PPM 10.5
CHLORIDE OIL CA pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

TAIL TEST CLASS 3 BLIND RAMS + SURFACE FACILITIES @ 1000 PSI.

RIH TO 900'. CIRC. + COND. MUD. TEST PIPE RAMS + HYDRIL

TO 1000 PSI. APPROVED BY USGS. RIH + TAGGED PLUG @ 954'.

DRLD. OUT BAFFLE 1/2 CMT. TO SHOE @ 1006'. DRLD. 12 1/4" HOLE

TO 1120'. POH @ 6AM TO PIU LOCKED IN DRLG. ASSY.

CUMULATIVE MUD COST 6830

CUMULATIVE DAILY COST 406,365

DRILLING REPRESENTATIVE SAS/RJA

RIG PHONE NO. 702-635-5556

ONLY PROGRESS OF DRILLING WELL Pro-562

DRILLING DAYS 20 CUM. ROTATING HRS. 156 3-13 1980

WELL NO. DOE 85-18 FIELD BEDWAWE CONTRACTOR KENAI #7

DEPTH 1240 BIT NO. 7 12 1/4 SMITH M44N 120' 9 15/1515 INC.
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS _____ CONDITION _____

FROM 1120 FT. TO 1240 FT. 120 FT. IN 9 HRS. 20 1000# 80 RPM
WT. ON BIT SPEED

DRILLING SETUP BIT, 3PT REAMER, LEAD COLLAR, STAB, SHOCK SUB, MONEL, STAB, IDC, STAB, 9-7 3/4" D.C.

LAST CASING 13 3/8 AT 1006 FORMATION BASALT PUMP PRESS. 800 PSI@ 52 SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL 9.1 PCF 45 SEC. 17 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

8 #/100 SQ. FT. 10 CC 3 132 4 % 7R %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

200 PPM _____ % 20 PPM 10.5 _____
CHLORIDE OIL CA pH ALK GALS (% MIN.)

SURVEYS 1088' 1°15' S15W 1226' 10° S33W OTHER REMARKS _____

AIL POH. CHANGED BITS + BHA. RIH to 1006'. CIRC. + COND. MUD. REAMED FROM 1007' TO 1120'. DRLD. 12 1/4" HOLE F/ 1120'-1239. LOST CIRC. (10 BBLs). POH TO SHOE. TEST BOPE. REGAINED CIRC. RIH. DRLG. @ 6AM DEPTH 1240'.

MUD IN 109° MUD OUT 119.

CUMULATIVE MUD COST 7368 CUMULATIVE DAILY COST 416,559. DRILLING REPRESENTATIVE SAS/RJA

RIG PHONE NO. 702-635-5556

PROGRESS OF DRILLING WELLS No-562

DRILLING DAYS 21 CUM. ROTATING HRS. 171 3/4 3-14 19 80

NO. DOE 85-18 FIELD BEOUWAVE CONTRACTOR KENAI # 7

DEPTH 1450 BIT NO. 7 12 1/4 SEC M44N 330 24 1/2 1 1/2 1 1/2 T-4 B-3
SIZE MAKE-TYPE FEET HOURS JETS CONDITION
 BIT NO. 8 12 1/4 SEC. SB 1 1
SIZE MAKE-TYPE FEET HOURS JETS CONDITION
 FROM 1240 FT. TO 1450 FT. 210 FT. IN 15 1/2 HRS. 20 1000# 80 RPM
WT. ON BIT SPEED

DRILLING SETUP BIT, 3PT REAMER, LEAD COLLAR, STAB, SHOCK SUB, MONEL, STAB, IDC, STAB, 3DC, STAB, 3DC, STAB, 3DC, STAB

LAST CASING 13 3/8 AT 1006 FORMATION BASALT PUMP PRESS. 1000 PSI@ 52 SPM
SIZE DEPTH

PUMP OUTPUT 320 GPM ANNULAR VEL. 55 FT./MIN. (D.P.) NOZZLE VEL. FT./SEC.

DRLG. FLUID BAROID GEL 9.1 PCF 45 SEC. 12 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.
6 #/100 SQ. FT. 7.6 CC 21.5 CC 2 3 % TR. %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

CHLORIDE 200 PPM OIL 0 % CA 20 PPM pH 10.0 ALK GALS (% MIN.) OTHER REMARKS
 SURVEYS 1339' 0°

DETAIL DRLD. 12 1/4" HOLE F/ 1240'-1450'. POH. CHANGED BITS + BHA, RIA @ 6AM.
MUD IN 134° OUT 144°

CUMULATIVE MUD COST 8,444 CUMULATIVE DAILY COST 429,945 DRILLING REPRESENTATIVE SAS/RJA
 RIG PHONE NO. 702-635-5556

DAILY PROGRESS OF DRILLING WELL Pro-562

DRILLING DAYS 22 CUM. ROTATING HRS. 191 1/2 3-15 1980

WELL NO. DOE 85-18 FIELD BEOUAWUE CONTRACTOR KENAI #7

DEPTH 1671 BIT NO. 8 12 1/4 SEC. S&T 221 19 3/4 151/15 INC.
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM 1450 FT. TO 1671 FT. 221 FT. IN 19 3/4 HRS. 20 1000# 55 RPM
WT. ON BIT SPEED

DRILLING SETUP SAME

LAST CASING 13 3/8 AT 1006 FORMATION WELDED TUFF PUMP PRESS. 800 PSI@ 52 SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL 9.1 PCF 45 SEC. 16 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

8 #/100 SQ. FT. 7 CC 18 CC 2.132 3 % TR %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

200 PPM 0 % 20 PPM 10.0
CHLORIDE OIL CA pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS 1457' 10 S59W 1565 045' N72E

DETAIL RIH & BROKE CIRC. @ 1058'. RIH. DRLD. 12 1/4" HOLE F/
1450' - 1671' @ 6AM.

MUD IN 135° MUD OUT 147°

CUMULATIVE MUD COST 9458

CUMULATIVE DAILY COST 441,990

DRILLING REPRESENTATIVE SAS/RJA

RIG PHONE NO. _____

ONLY PROGRESS OF DRILLING WELL Pro-562

DRILLING DAYS 23 CUM. ROTATING HRS. 214 1/2 3-16 1980

WELL NO. DOE 85-18 FIELD BEOWAWE CONTRACTOR KENAI # 7

DEPTH 1838 BIT NO. 8 12 1/4 SEC 5-8 388 42 3/4 151515 INC.

BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS _____ CONDITION _____

FROM 1671 FT. TO 1838 FT. 167 FT. IN 23 HRS. 25 1000# 55 RPM

WT. ON BIT _____ SPEED _____

DRILLING SETUP SAME

LAST CASING 13 3/16 AT 1006 DEPTH FORMATION BASACT + WELDED TUFF PUMP PRESS. 900 PSI@ 51 SPM

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BARDID GEL 9.1 PCF 47 SEC. 15 CPS

MUD CO. _____ TYPE _____ WEIGHT _____ FUNNEL VISC. _____ PLASTIC VISC. _____

7 #/100 SQ. FT. 7 CC 15 CC 2 132 3 % TR %

YIELD PT. _____ WATER LOSS _____ HT-HP WATER LOSS _____ FILTER CAKE _____ SOLIDS _____ SAND _____

200 PPM 0 % 20 PPM 10.0

CHLORIDE _____ OIL _____ CA _____ pH _____ ALK _____ GALS (% MIN.) _____ OTHER REMARKS _____

SURVEYS 1668' 0°45' N72E

DETAIL DRILD. 12 1/4" HOLE F/ 1671 - 1838 @ 6AM.

MUD COOLER TURNED ON @ 8:15 PM. DEPTH 1765'

8:15 PM MUD IN 147° MUD OUT 162°

6 AM MUD IN 85° MUD OUT 106°

CUMULATIVE MUD COST 11025 CUMULATIVE DAILY COST 457,781. DRILLING REPRESENTATIVE SAS / RTA

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELL Pro-562

DRILLING DAYS 24 CUM. ROTATING HRS. 215 3-17 19 80

L NO. DOE 85-18 FIELD BEOUWAUE CONTRACTOR KENAI # 7

DEPTH	<u>1842</u>	BIT NO.	<u>8</u>	<u>12 1/4</u>	<u>SEC. 58</u>	<u>392</u>	<u>4 3/4</u>	<u>15415 INC.</u>	
				SIZE	MAKE-TYPE	FEET	HOURS	JETS	CONDITION
		BIT NO.		SIZE	MAKE-TYPE	FEET	HOURS	JETS	CONDITION
FROM	<u>1838</u>	FT. TO	<u>1842</u>	FT.	<u>4</u>	IN	<u>1/2</u>	HRS.	<u>25</u>
								1000#	<u>55</u>
									RPM
									WT. ON BIT
									SPEED

DRILLING SETUP SAME

LAST CASING 13 3/8 AT 1006 DEPTH FORMATION WELDED TUFF PUMP PRESS. _____ PSI@ _____ SPM

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BARDID MUD CO. GEL. TYPE _____ WEIGHT _____ PCF _____ FUNNEL VISC. _____ SEC. _____ PLASTIC VISC. _____

YIELD PT. _____ #/100 SQ. FT. _____ CC WATER LOSS _____ HT-HP WATER LOSS _____ CC FILTER CAKE _____ SOLIDS _____ SAND _____

CHLORIDE _____ PPM OIL _____ % CA _____ PPM pH _____ ALK _____ GALS (% MIN.) _____ OTHER REMARKS _____

SURVEYS _____

TAIL DRLD. 12 1/4" HOLE F/ 1838-1842. LOST CIRC. PULLED TO SHOE + MIX GEL PILL. RIH SPOT GEL PILL. PULLED TO SHOE MIX LCM. PUMPED 3 PITS OF LCM. SPOTTING # 3 PIT OF LCM @ 6am. WILL TRY TO FILL HOLE FROM TOP W/ WATER IF CANNOT FILL WILL DRIL AHEAD BLIND.

CUMULATIVE MUD COST 13,643. CUMULATIVE DAILY COST 462,676. DRILLING REPRESENTATIVE SAS/RJA

RIG PHONE NO. _____

ONLY PROGRESS OF DRILLING WELL Pro-562

DRILLING DAYS 25 CUM. ROTATING HRS. 223 3-18 19 80

WELL NO. DOE. 85-18 FIELD BEOWAWE CONTRACTOR KEWAI #7

DEPTH	<u>2034</u>	BIT NO.	<u>8</u>	<u>12 1/4</u>	<u>S-8</u>	<u>584</u>	<u>5 1/4</u>	<u>151515</u>	<u>INC.</u>
				SIZE	MAKE-TYPE	FEET	HOURS	JETS	CONDITION
		BIT NO.		SIZE	MAKE-TYPE	FEET	HOURS	JETS	CONDITION
FROM	<u>1842</u>	FT. TO	<u>2034</u>	<u>192</u>	FT.	IN	<u>8</u>	HRS.	<u>25</u>
								1000#	<u>55</u>
								WT. ON BIT	SPEED

DRILLING SETUP SAME

LAST CASING 13 3/8 AT 1006 FORMATION _____ PUMP PRESS. 250 PSI@ 52 SPM

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID	<u>BAROID</u>	<u>GEL</u>	PCF	SEC.	CPS
	MUD CO.	TYPE	WEIGHT	FUNNEL VISC.	PLASTIC VISC.
	#/100 SQ. FT.	CC	CC	%	%
	YIELD PT.	WATER LOSS	HT-HP WATER LOSS	FILTER CAKE	SOLIDS SAND
	PPM	%	PPM		
	CHLORIDE	OIL	CA	pH	ALK
				GALS (% MIN.)	OTHER REMARKS

SURVEYS _____

DETAIL PULLED TO SHOE. MIX GEL PILL. THAWED OUT 4" PUMP
SUCTION LINE. RIH TO 1842'. DRLD. 12 1/4" HOLE AHEAD BLIND
W/ WATER. SPOT GEL PILL @ EACH CONNECTION. DRLG.
AHEAD @ 2034 @ 6AM.

(1800 BBLs WATER PUMPED DOWN HOLE)

CUMULATIVE MUD COST 17,018 CUMULATIVE DAILY COST 484,445. DRILLING REPRESENTATIVE SAS/RJA

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELL Pro-562

DRILLING DAYS 26 CUM. ROTATING HRS. 233 3-19 1980

WELL NO. DOE 85-18 FIELD BEOWAWE CONTRACTOR KENAI # 7

DEPTH 2154 BIT NO. 8 12 1/4" SEC 58 704 6 1/4 15 15 15 7-28-7 IN6
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ _____ _____ _____ _____ _____
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM 2034 FT. TO 2154 FT. 120 FT. IN 10 HRS. 25 1000# 55 RPM
WT. ON BIT SPEED

DRILLING SETUP BIT, 3PT REAMER, LEAD COLLAR, STAB, SHOCK SUB, MONEL, STAB, D.C.,
STAB, 3DC, STAB, 3DC, STAB, 3DC, STAB, D.P.

LAST CASING 13 3/8 AT 1006 FORMATION _____ PUMP PRESS. 200 PSI@ 48 SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BARDID GEL _____ PCF _____ SEC. _____ CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

YIELD PT. #/100 SQ. FT. _____ CC WATER LOSS _____ CC HT-HP WATER LOSS _____ CC 132 % _____ %
FILTER CAKE SOLIDS SAND

CHLORIDE PPM _____ OIL % _____ CA PPM _____ pH _____ ALK _____ GALS (% MIN.) _____ OTHER REMARKS _____

SURVEYS 1984' 0°45' 535W

FAIL DRILD. 12 1/4" HOLE F/ 2034' - 2154'. DRILLING BLIND W/
WATER. SWEEPING HOLE W/ GEL PILLS. PROBLEMS W/ FILL
ON CONNECTION, CIRC. OUT W/ GEL. POH @ 6AM TO
CHANGE BITS.

~ 4000 BBLs WATER PUMPED

CUMULATIVE MUD COST 18,384

CUMULATIVE DAILY COST 494,130.

DRILLING REPRESENTATIVE SAS/RJA

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELLS No-562

DRILLING DAYS 27 CUM. ROTATING HRS. 245 3-20 19 80

L. NO. DOE 85-18 FIELD BEOWAWE CONTRACTOR KENAI # 7

DEPTH 2208 BIT NO. 9 12 1/4 SEC 584 54 12 NONE INC.
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM 2154 FT. TO 2208 FT. 54 FT. IN 12 HRS. 18 1000# 55 RPM
WT. ON BIT SPEED

DRILLING SETUP BIT, 3PTREAMER, LEAD COLLAR, STAB, SHOCK SUB, MONEL, STAB,
10 D.C., XOVER, D.P.

LAST CASING 13 3/8 AT 1006 FORMATION BASALT PUMP PRESS. 200 PSI@ 60 SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL 8.8 PCF 45 SEC. 17 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

U #/100 SQ. FT. 18 CC _____ CC 4 132 3 % TR %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

200 PPM _____ % 20 PPM 8.0 _____
CHLORIDE OIL CA pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL POH. CHANGED BHA. RIH. DRLD AHEAD BLIND W/ WATER FROM
2154'-2156'. REGAINED PARTICLE CIRC. CIRC + COND MUD.
REGAINED FULL CIRC. DRLD 12 1/4" F/ 2156'-2208' @
6AM. TEMP. AFTER CIRC. WAS STABLE:

IN 79° OUT 102°

6AM IN 126° OUT 136°

CUMULATIVE MUD COST 19602

CUMULATIVE DAILY COST 505,143

DRILLING REPRESENTATIVE SAS/RTA.

RIG PHONE NO. _____

PROGRESS OF DRILLING WELL No-562

DRILLING DAYS 28 CUM. ROTATING HRS. 258 3-21 19 80

NO. DOE 85-18 FIELD BEOWAWE CONTRACTOR KENAI # 7
DEPTH 2287 BIT NO. 9 12 1/4 SIZE MAKE-TYPE Sec 584 133 FEET 25 1/2 HOURS JETS NONE T-2 B-2 CONDITION
FROM 2208 FT. TO 2287 FT. 79 FT. IN 13 1/2 HRS. 25 WT. ON BIT 1000# 55 RPM SPEED
DRILLING SETUP SAME

LAST CASING 13 1/8 AT 1006 FORMATION BASALT PUMP PRESS. 400 PSI@ 56 SPM
PUMP OUTPUT GPM ANNULAR VEL. FT./MIN. (D.P.) NOZZLE VEL. FT./SEC.
DRLG. FLUID BAROID GEL 8.8 PCF 25 SEC. 17 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.
YIELD PT. #/100 SQ. FT. WATER LOSS CC HT-HP WATER LOSS CC FILTER CAKE SOLIDS SAND %
200 PPM 200 PPM 8.0
CHLORIDE OIL CA pH ALK GALS (% MIN.) OTHER REMARKS
SURVEYS 2257' 2030' S59W

DRILD. 12 1/4" HOLE F/ 2208'-2279'. CIRC + SURVEYED. POH.
TIGHT BRAKES. PICK UP DYNA @ 6AM.

GAM MUD IN 138° - OUT 1480

CUMULATIVE MUD COST 19,879 CUMULATIVE DAILY COST 513,685. DRILLING REPRESENTATIVE SAS/RTA
RIG PHONE NO.

DAILY PROGRESS OF DRILLING WELLS Pro-562

DRILLING DAYS 29 CUM. ROTATING HRS. 262^{3/4} 3-22 1980

WELL NO. DOE 85-18 FIELD BEOWAWE CONTRACTOR KENAI # 7

DEPTH 2345 BIT NO. 10 12 1/4 SEC GMBB 58 4 1/4 15 1/2 T-2 D-6
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO.
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM 2287 FT. TO 2345 FT. 58 FT. IN 4 1/4 HRS. 15 1000# RPM
WT. ON BIT SPEED

DRILLING SETUP BIT, BIT SUB, DYNA, KICK SUB, XOVER, MANUEL, STAR, 6 D.C.,
X-OVER, D.P.

LAST CASING 13 3/8 AT 1006 FORMATION BASACT PUMP PRESS. 1000 PSIG 43 SPM
SIZE DEPTH

PUMP OUTPUT GPM ANNULAR VEL. FT./MIN. (D.P.) NOZZLE VEL. FT./SEC.

DRLG. FLUID BAROID GEL 9.0 PCF 15 SEC. 30 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

8 #/100 SQ. FT. 14 CC CC 4 4 % TR %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

200 PPM % 200 PPM 9.0
CHLORIDE OIL CA PH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS 2301, 1045 571W

DETAIL P/U DYNA + BHA. TWISTED OFF 1 D.C. PIN WHILE
MAKING IT UP. RIH. DYNA DRLD F/2287'-2345. DYNA
FAILED. POM @ 6AM.

CUMULATIVE MUD COST 20,263 CUMULATIVE DAILY COST 524,064 DRILLING REPRESENTATIVE SAS / RJA

RIG PHONE NO.

DAILY PROGRESS OF DRILLING WELLS Pro-562

DRILLING DAYS 30 CUM. ROTATING HRS. 273^{3/4} 2-23 19 80

L NO. DOE 85-18 FIELD BEOWAWE CONTRACTOR KENAI # 7

DEPTH 2437 BIT NO. 11 12^{3/4} SEC. 584 92 11 1515 INC.
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM 2345 FT. TO 2437 FT. 92 FT. IN 11 HRS. 25 1000# 55 RPM
WT. ON BIT SPEED

DRILLING SETUP BIT, 3PT REAMER, SHOCK SUB, MONEL, STAB, 8 D.C.

20 JTS. H.W. D.P., 4^{1/2}" D.P.

LAST CASING 13^{3/8} AT 1006 FORMATION BASACT PUMP PRESS. 1000 PSI@ 50 SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL 8.8 PCF 40 SEC. 7 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

9 #/100 SQ. FT. 10 CC 2^{1/2} 3 % 1/4 %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

150 PPM 80 PPM 8.0
CHLORIDE OIL CA pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS 2376' 1° N 43° W 2418' 1° N 8° W

TAIL PIU New BHA + 20 JTS 4^{1/2}" H.W. D.P. RIH. REAMED
DYNA DRIL RUN 2287'-2345' DRLD. 12^{3/4}" HOLE 2345'-
2437'. MUD IN 156° - MUD OUT 174°. LOSSING 15
BBLS/HR.

CUMULATIVE MUD COST 20,263 CUMULATIVE DAILY COST 549,476 DRILLING REPRESENTATIVE SAS / RJA

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELLS Pro-562

DRILLING DAYS 31 CUM. ROTATING HRS. 286 3/4 3-24 19 80

WELL NO. DOE 85-18 FIELD BEOWAWE CONTRACTOR KENA # 7

DEPTH 2569 BIT NO. 12 12 1/4 G M 88
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM 2437 FT. TO 2569 FT. 132 FT. IN 13 HRS. 30 1000# 55 RPM
WT. ON BIT SPEED

DRILLING SETUP BIT, BIT SUB, DYNA, KICK SUB, XOVER, MONEL, STAB, 2 P.C.
XOVER, 20 JTS, H.W. D.P., XOVER, 4 1/2" P.P.

LAST CASING 13 3/8 AT 1006 FORMATION ALTERED QUARTZ PUMP PRESS. 1000 PSI @ 48 SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL 8.9 PCF 45 SEC. 22 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

8 #/100 SQ. FT. 8 CC 3 132 4 % 14 %
YIELD PT. WATER LOSS HT-HP WATER LOSS CC FILTER CAKE SOLIDS SAND

200 PPM 70 PPM 9.5
CHLORIDE OIL CA PH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS 2478' 1° N 12W 2539' 1° N 2W

DETAIL DRLD 12 1/4" 2437' - 2569', CIRC + SURVEYED. POH. P/U
DYNA. R/H. BREAKING CIRC @ SHOE @ 6 AM.

MUD IN 162° MUD OUT 172°
RAN MUD COOLER 45 MIN.

CUMULATIVE MUD COST 22,937 CUMULATIVE DAILY COST 563,945 DRILLING REPRESENTATIVE SAS / R/A

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELL Pro-562

DRILLING DAYS 32 CUM. ROTATING HRS. 293 3-25 19 80

WELL NO. DOE 85-18 FIELD BEOUAWE CONTRACTOR KENAI # 7

DEPTH 2603 BIT NO. 12 SIZE 12 1/4" MAKE-TYPE SEC. GMSB FEET 34 HOURS 6 1/4 JETS 202015 CONDITION T-3 B-5 N
 BIT NO. 11 (RR) SIZE 12 1/4" MAKE-TYPE SEC. S84 FEET _____ HOURS _____ JETS 11 CONDITION INC.

FROM 2569 FT. TO 2603 FT. 34 FT. IN 6 1/4 HRS. 15 1000# _____ WT. ON BIT _____ SPEED _____ RPM _____

DRILLING SETUP BIT, 3 PT. REAMER, SHOCK SUB, FLOAT SUB, MONEL, STAB, DC, STAB, 3DC, STAB, 4DC, STAB, XOVER, 20 JTS. H.W. D.P., XOVER, 4" D.P.

LAST CASING 13 3/8 AT 1006 DEPTH FORMATION ANDSITE PUMP PRESS. 800 PSI@ 52 SPM _____

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID MUD CO. GEL TYPE 8.8 WEIGHT PCF 50 FUNNEL VISC. SEC. 22 PLASTIC VISC. CPS
10 #/100 SQ. FT. 8 WATER LOSS CC 2 1/2 FILTER CAKE CC 4 SOLIDS % 1/4 SAND %

200 PPM CHLORIDE OIL % 60 PPM CA pH 9.5 ALK _____ GALS (% MIN.) _____ OTHER REMARKS _____

SURVEYS _____

DETAIL RIH W/ DYNA DRILL. DRLD. FROM 2569'-2603'. POH. CHANGED BHA. STAGE IN HOLE @ 1000' AND 2000'. REAMED HOLE FROM 2569'-2603'. DRLG. AHEAD @ 6AM.

MUD IN 119° MUD OUT 126° COOLER RUNNING SURFACE TEMP. 201° WHEN CIRC. DYNA DRIL UP.

CUMULATIVE MUD COST 23,474 CUMULATIVE DAILY COST 572,970 DRILLING REPRESENTATIVE SAS/RJA

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELL No-562

DRILLING DAYS 33 CUM. ROTATING HRS. 315 3-26 1980

NO. DOE 85-18 FIELD BEOUWAWE CONTRACTOR KENAI # 7

DEPTH 2791 BIT NO. 11 (RR) 12 1/4 SEC 584 188 2 18/18/18 TAK.
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ _____ _____ _____ _____ _____
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM 2603 FT. TO 2791 FT. 188 FT. IN 22 HRS. 30 1000# 55 RPM
WT. ON BIT SPEED

DRILLING SETUP SAME

LAST CASING 13 3/8 AT 1006 FORMATION SANDSTONE + PUMP PRESS. 800 PSI@ 52 SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL 8.9 PCF 50 SEC. 21 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

13 #/100 SQ. FT. 7 CC _____ CC 2 132 5 % 14 %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

200 PPM % 40 PPM 9.5 _____ _____ _____
CHLORIDE OIL CA pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS 2613' 10³⁰ N41E 2701 10³⁰ N34E

TAIL DRLD. 12 1/4" HOLE F/ 2603 - 2791. POM TO SHOE @ GAM.
DRAWWORKS MOTOR DOWN.
MUD IN 83° MUD OUT 105°

CUMULATIVE MUD COST 24,587 CUMULATIVE DAILY COST 605,275 DRILLING REPRESENTATIVE SAS / RTA

RIG PHONE NO. _____

ONLY PROGRESS OF DRILLING WELL No-562

DRILLING DAYS 34 CUM. ROTATING HRS. 345 3/27 19 80

NO. D.O.E. 85-18 FIELD Beowauke CONTRACTOR Kenai #7

DEPTH 2903 BIT NO. 11 RR 12 1/4" Sec. S-84 300 32 11
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM 2791 FT. TO 2903 FT. 112 FT. IN 10 HRS. 30 60 RPM
WT. ON BIT 1000# SPEED

DRILLING SETUP 12 1/4" bit, 3 pt. reamer, stock sub, float sub, manel, stabilizer, d.c. stab, 3 d.c.'s, stab, 4 d.c.'s, stab, x-over, 20 j+s
H.W.D.P., x-over, d.p.

LAST CASING 19 3/8" AT 1006' FORMATION 800 PUMP PRESS. _____ PSI@ _____ SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID Baroid Gel 9.2 PP9 45.0 SEC. 16 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

8 #/100 SQ. FT. 8.0 CC 2 CC 5 % 1/4 %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

200 PPM _____ % 40 PPM 10 PH _____ ALK _____ GALS (% MIN.) _____ OTHER REMARKS
CHLORIDE OIL CA PH

SURVEYS 2794' 1015' N40E

DETAIL POH. Repair drawworks engine. RIH +/-2000', break circ, RIH +/-2791'. Drld 12 1/4" hole +/-2791' - 2822'. Survey'd. Drld 12 1/4" hole +/-2903' @ 6 AM.

mud in temp 86°

mud out temp 107° cooling tower on

Lost 150 bbls during int. +/-2791' - 2903'

CUMULATIVE MUD COST 26,796 CUMULATIVE DAILY COST 66,567 DRILLING REPRESENTATIVE BRR/upm
 RIG PHONE NO. 704-

DAILY PROGRESS OF DRILLING WELLS No-562

DRILLING DAYS 35 CUM. ROTATING HRS. 332 1/4 3-28 19 80

WELL NO. DOE 85-18 FIELD BEOWAWE CONTRACTOR KENAI # 7

DEPTH 2974 BIT NO. 11 (RR) SIZE 11 MAKE-TYPE SEC. 584 FEET 371 HOURS 39 1/4 JETS 11 CONDITION Inv.

BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 11 CONDITION _____

FROM 2903 FT. TO 2974 FT. 71 FT. IN 7 1/4 HRS. 30 1000# 50 WT. ON BIT 50 SPEED _____ RPM _____

DRILLING SETUP 12 1/4 BIT, 3PT REAMER, SHOCK SUB, FLOAT SUB, MONEL, STAB, DC, STAB, 4 DC, STAB, 3 DC, STAB, X OVER, 20 JTS. A.O.

LAST CASING 13 3/8 AT 1006 DEPTH FORMATION 800 PUMP PRESS. 52 PSI@ _____ SPM _____

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID MUD CO. _____ TYPE GEL WEIGHT 9.1 PCF FUNNEL VISC. 45 SEC. 16 CPS

8 #/100 SQ. FT. 8 CC 15.1 CC 2.32 5 % _____ %

YIELD PT. _____ WATER LOSS _____ HT-HP WATER LOSS _____ FILTER CAKE _____ SOLIDS _____ SAND _____

200 PPM _____ % 20 PPM 10 pH .4/.9 _____ GALS (% MIN.) _____ OTHER REMARKS _____

CHLORIDE OIL CA PH ALK

SURVEYS _____

DETAIL DRLD. 12 1/4" HOLE F1 2903' - 2974'. CIRC + SURVEYED. FISH, SHOCK SUB BROKE APART @ MANDRIL. (LEFT - BIT, 3PT REAMER, BOTTOM OF SHOCK SUB). TOP FISH @ 2962'. L/D SHOCK SUB + MONEL. W/O FISHING TOOL MAN. R/H W/ OVERSHOT. OVERSHOT EXTENSION, BUMPER SUB, STAB, 4 DC, 20 JTS H.O., D.P. R/H @ 6 AM.

2945 MUD IN 82° MUD OUT 105°
COOLER ON

CUMULATIVE MUD COST 27,706 CUMULATIVE DAILY COST 625,984 DRILLING REPRESENTATIVE BR/RJA

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELLS No-562

DRILLING DAYS 36 CUM. ROTATING HRS. 332 1/4 3-29 19 80

WELL NO. DOE 85-18 FIELD BEOWAWE CONTRACTOR KENAI # 7

DEPTH 2974 BIT NO. 9(RR) 12 1/4 Sec 584
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM _____ FT. TO _____ FT. IN _____ HRS. 1000# _____ RPM
WT. ON BIT SPEED

DRILLING SETUP 12 1/4 BIT, 3PT REAMER, FLOAT SUB, MONEL, STAB, IDC, STAR, 3DC, STAB, 4DC, STAB, 20JTS. HW. D.P.

LAST CASING 13 3/8 AT 1006 FORMATION _____ PUMP PRESS. _____ PSI @ _____ SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID 62L 8.9 PCF 40 SEC. 6 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

14 #/100 SQ. FT. 55 CC 7 CC 3 % TR %
YIELD PT. WATER LOSS HT+HP WATER LOSS FILTER CAKE SOLIDS SAND

200 PPM 280 PPM 12.0
CHLORIDE OIL CA pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL RIH W/ FISHING TOOLS. BROKE CIRC @ 2000', 2950', LOST CIRC. PIU FISH + POH. RECOVERED BIT, 3PT REAMER, BOTTOM OF SHOCK TOOL. LID FISHING TOOLS. CHANGED BITS. MIU BHA. RIH TO 1500'. UNABLE TO OBTAIN CIRC. (LOST 250 BBLS). RIH TO 2000'. UNABLE TO OBTAIN CIRC. (LOST 500 BBLS). PULLED UP TO FLUID LEVEL IN PIPE. (LEVEL @ 320'), RIH TO 2000'. UNABLE TO OBTAIN CIRC. (LOST 400 BBLS) @ 6 AM.

CUMULATIVE MUD COST 29,155 CUMULATIVE DAILY COST 639,641 DRILLING REPRESENTATIVE B.R. IRJA.
 RIG PHONE NO. _____

ONLY PROGRESS OF DRILLING WELL No-562

DRILLING DAYS 37 CUM. ROTATING HRS. 332 1/4 3-30 19 80

L NO. DOE 85-18 FIELD BEOWAQUE CONTRACTOR KENAI # 7

DEPTH 2974 BIT NO. 9 (RR) 12 1/4" SEC. 584
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM _____ FT. TO _____ FT. IN _____ HRS. 1000# _____ RPM
WT. ON BIT SPEED

DRILLING SETUP 12 1/4 BIT, 3PT REMMER, FLOAT SUB, MONELL, STAB, IDC, STAB,
3DC, STAB, 2DC, STAB, 2DC., 10 JTS. H.W., JARS, 10 JTS H.W., D.P

LAST CASING 13 3/8 AT 1006' FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL 8.9 PCF 60 SEC. 9 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

44 #/100 SQ. FT. 40 CC 6 3 % TR %
YIELD PT. WATER LOSS HT+HP WATER LOSS FILTER CAKE SOLIDS SAND

200 PPM 280 PPM 12.5
CHLORIDE OIL CA pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

... FAIL UNABLE TO GAIN CIRC. AFTER TOTAL OF ~ 1150 RBCLS MUD.
POH. & CHANGED BHA. PIU JARS + NEW SHOCK SUB. SET UP
RIG TO DRILL BLIND. RIH TO 850'. RAN TEMP SURVEY
OBTAINED 480° (BELIEVED TO BE WRONG). RIH TO 2974 @
6 AM.

CUMULATIVE MUD COST 39,141 CUMULATIVE DAILY COST 652,916

DRILLING REPRESENTATIVE BR/RJA

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELLS No-562

DRILLING DAYS 38 CUM. ROTATING HRS. 340 3-31 19 80

NO. DOE 85-18 FIELD BEOWAUC CONTRACTOR KENAI # 7
 DEPTH 3149 BIT NO. 9(RR) 12 1/4" SIZE SEC. 584 FEET 175' HOURS 7 3/4 JETS 161818 CONDITION DK.
 BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 11 CONDITION _____
 FROM 2974 FT. TO 3149 FT. 175 FT. IN 7 3/4 HRS. 30 WT. ON BIT 1000# 55 SPEED RPM

DRILLING SETUP SAME

LAST CASING 13 3/8 AT 1006 FORMATION _____ PUMP PRESS. 500 PSI @ 59 SPM
 SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL _____ PCF _____ SEC. _____ CPS
 MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.
 YIELD PT. #/100 SQ. FT. WATER LOSS CC HT-HP WATER LOSS CC FILTER CAKE SOLIDS SAND %
 CHLORIDE PPM OIL % CA PPM pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL RIH TO 2974'. ATTEMPTED TO FILL HOLE FROM TOP. PUMPED IN 150 BBLs. WATER. DRLD. BLIND W/ WATER 2974'-2995'. CIRC DOWN 250 BBLs. GEL. MAKE CONNECTION. DRLD. BLIND 2995'-3025. CIRC DOWN 250 BBLs GEL. PUMPED DOWN 500 BBLs GEL/LCM. DRLD BLIND W/ WATER 3025'-3149'. AFTER EACH 30' DRLD. PUMPED GEL/LCM. TOTAL OF ~1000 BBLs. POH 10 STANDS. WAIT ON MUD @ 6 AM.

7 3/4 HRS. BLIND W/ WATER @ 400 BBLs / HR.
TOTAL FLUID DOWN HOLE 3250 BBLs WATER
2000 BBLs MUD/LCM
5250 BBLs TOTAL

CUMULATIVE MUD COST 33,902 CUMULATIVE DAILY COST 669,485 DRILLING REPRESENTATIVE BR/RJA
 RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELLS No-562

DRILLING DAYS 39 CUM. ROTATING HRS. 340 4-1 19 80

WELL NO. DOE 85-18 FIELD BEOWAWE CONTRACTOR KENAI # 7

DEPTH 3149 BIT NO. 9(RR) 12 1/4 SEC 584 175 7 3/4 16V8119
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ 1 1 _____
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM _____ FT. TO _____ FT. IN _____ HRS. 1000# _____ RPM
WT. ON BIT SPEED

DRILLING SETUP 12 1/4 BIT, 3PT REAMER, FLOAT SUB, MONEL, STAB, DC, STAB, 3 DC, STAB, 2 DC, STAB, 2 DC, 10 JTS H.W., JARS, 10 JTS H.W., D.P.

LAST CASING 13 3/8 AT 1006 FORMATION _____ PUMP PRESS. _____ PSIG _____ SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL/WATER 8.9 PCF 100 SEC. 15 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

30 #/100 SQ. FT. 8 CC 3 1/2 3 % 7R %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

200 PPM _____ % 40 PPM 10.5 1/1.5 _____
CHLORIDE OIL CA PH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL WAITING ON MUD. MIXED PIT OF LCM. DECISION MADE TO CORE FROM 3149'- 3179'. PUMPED 250 BBLs. GEL + LCM. @ 2500'. DUMPED + CLEANED MUD PIT. MIX HIGH VISC. MUD. RIH TO 3079'. FOUND 70' FILL. CIRC. OUT FILL F/ 3079' TO 3149' W/ 250 BBLs. MUD. PULLED 3 STANDS, WAIT 45 MIN. RIH TO 3119'. FOUND 30' FILL. CIRC OUT FILL F/ 3119' TO 3149' W/ 250 BBLs. MUD. PULLED 3 STANDS, WAIT 45 MIN. RIH TO 3107' FOUND 42' FILL. PULLED 3 STANDS, WAIT 45 MIN. RIH TO 3094', FOUND 55' FILL @ 6 AM.

CUMULATIVE MUD COST 36,225 CUMULATIVE DAILY COST 680,596 DRILLING REPRESENTATIVE BR/RTJA
 RIG PHONE NO. 702-635-5556

DAILY PROGRESS OF DRILLING WELL No-562

DRILLING DAYS 40 CUM. ROTATING HRS. 340 4-2 19 80

WELL NO. DOE 85-18 FIELD BEOWAWE CONTRACTOR KENAI 7

DEPTH 3149 BIT NO. 9(RR) 12 1/4" SEC 584 175 7314 161818 2-2-I
SIZE MAKE-TYPE FEET HOURS JETS CONDITION
 BIT NO. _____ 11 _____
SIZE MAKE-TYPE FEET HOURS JETS CONDITION
 FROM _____ FT. TO _____ FT. _____ FT. IN _____ HRS. _____ 1000# _____ RPM
WT. ON BIT SPEED

DRILLING SETUP 12 1/4" BIT, 3PT. REAMER, SHOCK SUB, FLOAT SUB, MONEL, STAB, 1 DC, STAB, 3 DC, STAB, 2 DC, STAB, 2 DC, 10TTS. H.W., JARS, 10TTS H.W., D.P

LAST CASING 13 3/8 AT 1006 FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL _____ PCF _____ SEC. _____ CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.
 _____ #/100 SQ. FT. _____ CC _____ CC _____ % _____ %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND
 _____ PPM _____ % _____ PPM _____
CHLORIDE OIL CA pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL MIXED HIGH VISC. GEL PILL. PUMPED PILL (400 BBLs)
WHILE CIRC. OUT FILL FROM 3094' - 3149'. POH 10 STANDS.
WAIT ON PILL 5 HRS. RIH TO 3149'. NO FILL. POH. P/U
CB. RIH @ 6AM W/ CB.

NOTE: THE LCM DISCUSSED IS ON ITS WAY.

CUMULATIVE MUD COST 39,104

CUMULATIVE DAILY COST 692,289.

DRILLING REPRESENTATIVE BR./RJA

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELL Pro-562

DRILLING DAYS 41 CUM. ROTATING HRS. 346 1/2 4-3 19 80

WELL NO. DOE 85-18 FIELD BEOWAWE CONTRACTOR KENAI # 7

DEPTH 3188 BIT NO. CORE HEAD 8 3/4" DIAMOND 30 6 1/2 11
SIZE MAKE-TYPE FEET HOURS JETS CONDITION
 BIT NO.
SIZE MAKE-TYPE FEET HOURS JETS CONDITION
 FROM 3158 FT. TO 3188 FT. 30 FT. IN 6 1/2 HRS. 20 1000* 40 RPM
WT. ON BIT SPEED

DRILLING SETUP C.H., C.B., IDC, STAB, 3DC, STAB, 2DC, STAB, 2DC, 10JTS H.W.,
JARS, 10JTS H.W., D.P

LAST CASING 13 3/8 AT 1006 FORMATION PUMP PRESS. PSI @ SPM
SIZE DEPTH

PUMP OUTPUT GPM ANNULAR VEL. FT./MIN. (D.P.) NOZZLE VEL. FT./SEC.

DRLG. FLUID BAROID GEL PCF SEC. CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.
 #/100 SQ. FT. CC CC 132 % %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND
 PPM % PPM pH ALK GALS (% MIN.) OTHER REMARKS
CHLORIDE OIL CA

SURVEYS

DETAIL RIH TO 3149'; CORED INTERVAL BETWEEN 3149'-3179'. PUMPED
GEL WHILE CORING BLIND ~ 1500 BBLs. STRAPPED OUT OF
HOLE. CORRECTED DEPTH 3188'. L/D C.B. RIH W/ DRLG. SET UP
@ 6am.

CUMULATIVE MUD COST 42,173 CUMULATIVE DAILY COST 716,617 DRILLING REPRESENTATIVE BR/RJA
 RIG PHONE NO.

DAILY PROGRESS OF DRILLING WELL No-562

DRILLING DAYS 42 CUM. ROTATING HRS. 346 1/2 4-4 19 80

WELL NO. DOE 85-18 FIELD BEOWAWA CONTRACTOR KENAI # 7

DEPTH <u>3187</u>	BIT NO. _____	SIZE _____	MAKE-TYPE _____	FEET _____	HOURS _____	JETS <u>11</u>	CONDITION _____
	BIT NO. _____	SIZE _____	MAKE-TYPE _____	FEET _____	HOURS _____	JETS <u>11</u>	CONDITION _____
FROM _____	FT. TO _____	FT. _____	FT. _____	IN _____	HRS. _____	1000# _____	RPM _____
				WT. ON BIT	SPEED		

DRILLING SETUP 12 1/4" BIT, 3PT REAMER, LEAD COLLAR, STAB, FLOAT SUB, MONEL, STAB, DC, STAB, 3DC, STAB, 2DC, STAB, 2DC, 10 JTS HW, JARS, 10 JTS HW, D.P

LAST CASING 13 3/8 AT 1006 FORMATION _____ PUMP PRESS. _____ PSIG _____ SPM

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID <u>BAROID</u>	MUD CO. _____	GEL	TYPE _____	8.8	WEIGHT _____	PCF _____	50	FUNNEL VISC. _____	SEC. _____	15	PLASTIC VISC. _____	CPS _____
<u>25</u>	#/100 SQ. FT.	<u>12</u>	CC	<u>3 1/2</u>	CC	<u>3</u>	%	<u>3</u>	%	<u>0</u>	%	
YIELD PT.		WATER LOSS		HT-HP WATER LOSS		FILTER CAKE	SOLIDS	SAND				
<u>150</u>	PPM	<u>0</u>	%	<u>TR</u>	PPM	<u>9.0</u>		<u>5.8</u>				
CHLORIDE		OIL		CA		pH		ALK		GALS (% MIN.)		OTHER REMARKS

SURVEYS _____

DETAIL REPAIRED SEAL IN HYDRIL, RIH TO 1935'. REAMED THROUGH BRIDGE TO 1965'. RIH TO 2118'. REAMED THROUGH BRIDGE TO 2145', RIH TO 3045', FOUND 142' FILL. CIRC. OUT FILL @ 6AM.

CUMULATIVE MUD COST 43,329 CUMULATIVE DAILY COST 727,647 DRILLING REPRESENTATIVE RR/RJA

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELL Pro-562

DRILLING DAYS 43 CUM. ROTATING HRS. 348 4-5 19 80

WELL NO. DOE 85-18 FIELD _____ CONTRACTOR Kenac #7

DEPTH 3208 BIT NO. 9 RR 12 1/4 Sec. FB4 20 1 1/2 11
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ 11
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM 3188 FT. TO 3208 FT. 20 FT. IN 1 1/2 HRS. 30 1000# 50 RPM
WT. ON BIT SPEED

DRILLING SETUP bit, 3 point reamer, L.C., stab float sub, monel, stab, D.C.

stab, 3-DC, stab, 2 D.C., stab, 2 DC, 10 H.W. jars, 10 H.W., D.P.

LAST CASING 13 1/8 AT 1006 FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID Baroid Gel 8.8 PCF 50 SEC. 15 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

25 #/100 SQ. FT. 12 CC 3 1/2 3 % _____ %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

150 PPM _____ % T PPM 9 _____
CHLORIDE OIL CA pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL Circulate out fill, mix Gel pill, circulate, P.O.H. 5
Stands wait 1 hour R.L.H. to 3208 no fill. P.O.H. to 2145'
hit bridge work through 100' of tight hole. Ream back
through 2045' to 2145' P.O.H. Rig up Schlumberger ray
temp. survey hit bridge at 1932' log indicated lost
circulation zone at 1850' fluid level at 200' log D.L.L
out of hole. R.L.H with drill assy. to 1909'. Reamed
to 1949' R.L.H to 2219' Reamed to 2259'. R.L.H. to 3133'
75' of fill circulate out fill at 6AM.

CUMULATIVE MUD COST 46,897

CUMULATIVE DAILY COST 740,064

DRILLING REPRESENTATIVE B.R.S

RIG PHONE NO. 702-635-5556

DAILY PROGRESS OF DRILLING WELL No-562

DRILLING DAYS 44 CUM. ROTATING HRS. 348 4-6- 1980

WELL NO. 85-18 FIELD Beowawe CONTRACTOR Kenai #7

DEPTH 3208 BIT NO. 9 RR 12 1/4 Sx 584 FEET HOURS 11 CONDITION

BIT NO. SIZE MAKE-TYPE FEET HOURS 11 CONDITION

FROM _____ FT. TO _____ FT. IN _____ HRS. 1000# SPEED RPM

WT. ON BIT SPEED

DRILLING SETUP _____

LAST CASING 13 7/8 AT 1006 FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM

SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID Bercoiel Gel LCM PCF SEC. CPS

MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

YIELD PT. #/100 SQ. FT. CC HT-HP WATER LOSS CC 132 % SAND %

FILTER CAKE SOLIDS

CHLORIDE PPM OIL % CA PPM pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL Circulate out fill to 3208' mix gel pill spot on bottom P.O.H. no bridges. Rig up Schlumberger Run temp. survey hit bridge at 1355' P.O.H. Run sonic log stopped at 1355' Rig down loggers. R.l.H. hit bridge at 1350 circulate mixed L.C.M. spot pill at 1350' P.O.H. 5 stands wait 1 hour. Unable to fill hole from surface. Spot L.C.M. pill at 1350' Pull up 5 stands wait 1 hour. unable to fill hole from surface. R.l.H. and reamed through plug at 1350 at 6:AM.

CUMULATIVE MUD COST 50,729 CUMULATIVE DAILY COST 763,259 DRILLING REPRESENTATIVE B.R.R.

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELL Pro-562

DRILLING DAYS 45 CUM. ROTATING HRS. 348 4-7 19 80

WELL NO. 85-18 FIELD Beowawe CONTRACTOR Kenai #7

DEPTH 3208 BIT NO. 9 RR 12 1/4 Suc S 84 FEET HOURS 11 JETS 11 CONDITION

BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS _____ CONDITION _____

FROM _____ FT. TO _____ FT. IN _____ HRS. 1000# _____ RPM _____

WT. ON BIT _____ SPEED _____

DRILLING SETUP _____

LAST CASING 13 3/8 AT 1006 FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID _____ Gel-LCM _____ PCF _____ SEC. _____ CPS

MUD CO. _____ TYPE _____ WEIGHT _____ FUNNEL VISC. _____ PLASTIC VISC. _____

YIELD PT. _____ #/100 SQ. FT. _____ CC _____ CC _____ 132 _____ % _____ %

WATER LOSS _____ HT+HP WATER LOSS _____ FILTER CAKE _____ SOLIDS _____ SAND _____

CHLORIDE _____ PPM _____ % _____ PPM _____ pH _____ ALK _____ GALS (% MIN.) _____

OTHER REMARKS _____

SURVEYS _____

DETAIL Hit bridge at 1852' mix L.C.M. spot at 1852' Regained circulation. Circulate and condition mud, lost circulation after 6 hours. Spot L.C.M. at 1852' P.O.H. 5 stands wait 2 hours. Regained circulation at 1852' circulating at 6 AM.

Lost circ again at 7 AM.

CUMULATIVE MUD COST 59520

CUMULATIVE DAILY COST 726,930

DRILLING REPRESENTATIVE _____

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELL No-562

DRILLING DAYS 46 CUM. ROTATING HRS. 348 4-8 1980

W. NO. DAE. 85-16 FIELD Beowawe CONTRACTOR Kenai #7

DEPTH 3208 BIT NO. 9RR 12 1/4 SEC. 584 FEET HOURS 11 CONDITION
SIZE MAKE-TYPE

BIT NO. _____ 11 _____
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM _____ FT. TO _____ FT. _____ FT. IN _____ HRS. 1000# _____ RPM
WT. ON BIT SPEED

DRILLING SETUP _____

LAST CASING 13 3/8 AT 1006 FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID Baroid Gel & L.C.M. 9.2 PCF 50 SEC. 20 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

18 #/100 SQ. FT. _____ CC _____ CC _____ % _____ %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

CHLORIDE PPM _____ OIL % _____ CA PPM _____ pH _____ ALK _____ GALS (% MIN.) _____ OTHER REMARKS _____

SURVEYS _____

DETAIL Regained circulation last one hour, spot L.C.M. pill at 1850', wait 3hrs. Mix L.C.M, Spot at 1850' wait 3hrs. Unable to fill hole through Kill line. Water pump broke down, one pump repaired. Thaw out water lines at 6:AM

CUMULATIVE MUD COST 64,318 CUMULATIVE DAILY COST 808,561 DRILLING REPRESENTATIVE BRR/CF

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELLS 0-562

DRILLING DAYS 47 CUM. ROTATING HRS. 348 4-9 1980

WELL NO. 85-18 FIELD Beowawe CONTRACTOR Kenai #7
 DEPTH 3208 BIT NO. 9RR 12 1/4 Sec 584 No 11
SIZE MAKE-TYPE FEET HOURS JETS CONDITION
 BIT NO.
SIZE MAKE-TYPE FEET HOURS JETS CONDITION
 FROM FT. TO FT. FT. IN HRS. 1000# RPM
WT. ON BIT SPEED
 DRILLING SETUP Same

LAST CASING 1 3/8 AT 1006 FORMATION PUMP PRESS. PSI@ SPM
SIZE DEPTH
 PUMP OUTPUT GPM ANNULAR VEL. FT./MIN. (D.P.) NOZZLE VEL. FT./SEC.
 DRUG. FLUID Baroid Gel-LCM PCF 70 SEC. CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.
 YIELD PT. #/100 SQ. FT. CC CC 132 % %
WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND
 CHLORIDE PPM OIL % CA PPM pH ALK GALS (% MIN.) OTHER REMARKS
 SURVEYS

DETAIL Mix L.C.M. pill and spot at 972' regain circulation at 12 noon. Stage in hole at 1032; 1092; 1451; 1757; 2152; 2227; 2516; 2819; 2950'. Bridges encountered at 1850 to 1870' at 2152' to 2162', at 2222' to 2232' Reamed through bridges at rate of 5' per hour. Circulation rate still sensitive. Lost approx 250 bbls mud in last 18 hrs sense circulation established (due to over loading hole) Circulate at 2950' at 6 AM. 100% returns
Mud in 116° mud out 140°

CUMULATIVE MUD COST 67,518 CUMULATIVE DAILY COST 824,019 DRILLING REPRESENTATIVE S.A.S./CF
 RIG PHONE NO.

DAILY PROGRESS OF DRILLING WELL No-562

DRILLING DAYS 48 CUM. ROTATING HRS. 348 4-10- 1980

NO. 85-18 FIELD Beowawe CONTRACTOR Kenai #7

DEPTH 3208 BIT NO. 9RR 12 1/4 Sec 584 None
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ 11
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM _____ FT. TO _____ FT. _____ FT. IN _____ HRS. _____ 1000# _____ RPM
WT. ON BIT SPEED

DRILLING SETUP Same

LAST CASING 13 3/8 AT 1006 FORMATION _____ PUMP PRESS. 300 PSI@ 45 SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID Baroid Gel LCM 8.7 PCF 65 SEC. 25 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

21 #/100 SQ. FT. 8.4 CC 2.132 3 % 1/4 %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

230 PPM 80 PPM 8
CHLORIDE OIL CA PH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL Circulate and condition at 2850 R11H and tag fill at 3164'
44' of fill, Pull to shoe wait 5 hrs. Stage in hole at 300'
intervals bit small bridge at 1350' circulate and condition
mud at 2950. P.O.H. Lay down bottom hole assay at
6 AM.

CUMULATIVE MUD COST 69,065

CUMULATIVE DAILY COST 833,414

DRILLING REPRESENTATIVE S.A.S.

RIG PHONE NO. 702 635 5556

PROGRESS OF DRILLING WELLS Pro-562

DRILLING DAYS 49 CUM. ROTATING HRS. 348 4-11 1980

WELL NO. D.O.E. 85-18 FIELD BEDWAWE CONTRACTOR KENAI # 7

DEPTH 3208 BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 11 CONDITION _____
BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 11 CONDITION _____
FROM _____ FT. TO _____ FT. IN _____ HRS. 1000# _____ RPM _____
WT. ON BIT _____ SPEED _____
DRILLING SETUP _____

LAST CASING 13 3/8 AT 1006 FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM _____
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL 8.7 PCF 37 SEC. 15 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.
11 #/100 SQ. FT. 8.7 CC _____ CC 2 132 3 % 1/4 %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND
230 PPM _____ % 80 PPM 8 _____
CHLORIDE OIL CA pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL LAY DOWN DRILL COLLARS. R.I.H. WITH OPEN END DRILL PIPE TO 3093' CIRCULATE AND CONDITION MUD. RIG UP B.J., PUMPED 59 SACKS OF 8X12 GRAVEL, B.J. PUMP BROKE DOWN. PULL 5 STANDS WAIT 2 HRS. R.I.H TO 3197' NO PLUG, PULL TO SHOE WAIT ON GRAVEL PACKER FROM BAKERSFIELD AT 6:AM

CUMULATIVE MUD COST 19065

CUMULATIVE DAILY COST 845.155

DRILLING REPRESENTATIVE SAS / CF

RIG PHONE NO. 702-635-5556

PROGRESS OF DRILLING WELL No-562

DRILLING DAYS 50 CUM. ROTATING HRS. 348 4-12- 19 80

WELL NO. D.O.E. 85-18 FIELD Beowawe CONTRACTOR Kenai #7

DEPTH 3108 BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 11 CONDITION _____

BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 11 CONDITION _____

FROM _____ FT. TO _____ FT. IN _____ HRS. 1000# _____ RPM _____

WT. ON BIT _____ SPEED _____

DRILLING SETUP _____

LAST CASING 13 3/8 AT 1006 FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM _____

SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) _____ NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID Bargid Gel 8.8 PCF 40 SEC. 12 CPS _____

MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

11 #/100 SQ. FT. 8.8 CC 2.132 CC 4 % 7 %

YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

220 PPM % 64 PPM 8 _____ _____ _____

CHLORIDE OIL CA pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL Stage 14 hole from shoe to 3197' Rig up gravel packers pump
234 sacks 6x12 gravel. 25% excess. top top of gravel plug at
2947' P.O.H. R.L.H. with 12 1/4 bit and 2 D.C. of GPM

CUMULATIVE MUD COST 69702

CUMULATIVE DAILY COST 860950

DRILLING REPRESENTATIVE S.A.S./CF

RIG PHONE NO. 702 635-5556

DAILY PROGRESS OF DRILLING WELLS No-562

DRILLING DAYS 51 CUM. ROTATING HRS. 348 4-13 19 80

WELL NO. D.O.E. 85-18 FIELD Beowawe CONTRACTOR Kenai #7

DEPTH <u>3208</u>	BIT NO. _____	SIZE _____	MAKE-TYPE _____	FEET _____	HOURS _____	JETS <u>11</u>	CONDITION _____
	BIT NO. _____	SIZE _____	MAKE-TYPE _____	FEET _____	HOURS _____	JETS <u>11</u>	CONDITION _____
FROM _____	FT. TO _____	FT. _____	FT. _____	IN _____	HRS. _____	1000# _____	RPM _____
						WT. ON BIT _____	SPEED _____

DRILLING SETUP _____

LAST CASING 13 3/8 AT 1006 FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID Barrid Gel PCF _____ SEC. _____ CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

YIELD PT. #/100 SQ. FT. _____ CC WATER LOSS _____ CC HT-HP WATER LOSS _____ CC 132 % _____ %
FILTER CAKE SOLIDS SAND

CHLORIDE PPM _____ OIL % _____ CA PPM _____ pH _____ ALK _____ GALS (% MIN.) _____ OTHER REMARKS _____

SURVEYS _____

DETAIL Stage in hole with 12 1/4" bit circulate up gravel string through
cut hole tag sand plug at 2947' circulate and condition
mud. P.O.H. lay down bottom Assy. Rig up casing logs
Run 51 Jts 9 5/8 40# N80 Butt casing. Make up hanger
9 5/8 x 13 3/8 liner hanger engaged with tie back connection
at 6AM (stage casing in hole at 2940, 1512, 2140)

CUMULATIVE MUD COST 70,127 CUMULATIVE DAILY COST 869,211 DRILLING REPRESENTATIVE S.A.S./CF

RIG PHONE NO. 702 635-5556

PROGRESS OF DRILLING WELL No-562

DRILLING DAYS 52 CUM. ROTATING HRS. 348 4-14- 1980

WELL NO. D.O.E. 85-18 FIELD Beowawe CONTRACTOR Kenaj #7

DEPTH <u>3208</u>	BIT NO. _____	SIZE _____	MAKE-TYPE _____	FEET _____	HOURS _____	JETS <u>11</u>	CONDITION _____
	BIT NO. _____	SIZE _____	MAKE-TYPE _____	FEET _____	HOURS _____	JETS <u>11</u>	CONDITION _____
FROM _____	FT. TO _____	FT. _____	FT. _____	IN _____	HRS. _____	1000# _____	RPM _____
				WT. ON BIT _____	SPEED _____		

DRILLING SETUP _____

LAST CASING 1 3/8 AT 1006 FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM _____

SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) _____ NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID Burpid MUD CO. _____ TYPE _____ WEIGHT _____ PCF _____ SEC. _____ CPS _____

YIELD PT. _____	#/100 SQ. FT. _____	WATER LOSS _____	CC _____	HT-HP WATER LOSS _____	CC _____	FILTER CAKE <u>132</u>	% _____	SAND _____	% _____
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CHLORIDE _____	PPM _____	OIL _____	% _____	CA _____	PPM _____	pH _____	ALK _____	GALS (% MIN.) _____	OTHER REMARKS _____
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SURVEYS _____

DETAIL Make up liner hanger baker line did not have right cross over sub from liner hanger Kelly to packer assembly. Wait on sub. Make up packer assembly and stand at drill pipe. Could not work liner hanger part complete shut off valve. One slip die off liner hanger fell into hole P.O.H. Laying down casing at 6 AM.

CUMULATIVE MUD COST 70 340

CUMULATIVE DAILY COST 879,961

DRILLING REPRESENTATIVE SAS /CF

RIG PHONE NO. 702 635-5556

PROGRESS OF DRILLING WELLS -562

DRILLING DAYS 53 CUM. ROTATING HRS. 348 APRIL 15 1980

WELL NO. D.O.E 85-18 FIELD BEOUWAUVE CONTRACTOR KENDAL 7

DEPTH 3208 BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 11 CONDITION _____

BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 11 CONDITION _____

FROM _____ FT. TO _____ FT. IN _____ HRS. 1000# _____ WT. ON BIT _____ SPEED _____ RPM _____

DRILLING SETUP _____

LAST CASING 13 3/8 AT 1006 FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM

SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID Gel MUD CO. TYPE WEIGHT PCF FUNNEL VISC. SEC. PLASTIC VISC. CPS

YIELD PT. #/100 SQ. FT. WATER LOSS CC HT-HP WATER LOSS CC FILTER CAKE SOLIDS SAND

CHLORIDE PPM OIL % CA PPM pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL Lay down 9 5/8 casing. Pick up Halliburton 13 3/8 retrievable bridge plug set at 60' tare out B.O.P.E. Remove gate valve (Gate valve I.D. 12 3/8) (liner hanger O.D. 12 3/16) Dress internal casing to well head weld and nipple up class III B.O.P.E. at 6:30.

CUMULATIVE MUD COST 70340 CUMULATIVE DAILY COST 890,133 DRILLING REPRESENTATIVE SAS/CF

RIG PHONE NO. 702 635-5556

PROGRESS OF DRILLING WELLS 562

DRILLING DAYS 54 CUM. ROTATING HRS. 348 4-16 19 80

NO. D.O.E. 85-18 FIELD BEDWAUVE CONTRACTOR KEDWAH 7
 DEPTH 3208 BIT NO. #1 RR 12 1/4 SEC M44N NOISE
SIZE MAKE-TYPE FEET HOURS JETS CONDITION
 BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 1/1 CONDITION _____
 FROM _____ FT. TO _____ FT. FT. _____ FT. IN _____ HRS. 1000# _____ RPM _____
WT. ON BIT SPEED
 DRILLING SETUP BIT, FLOAT SUB, BIT SUB, 1-D.C., 20 JTs, H.W.D.P., D.P.

LAST CASING 13 3/8 AT 1006 FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM
SIZE DEPTH
 PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.
 DRLG. FLUID BAROID GEL 8.7 PCF 35 SEC. 8 CPS _____
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.
4 #/100 SQ. FT. 12.8 CC HT-HP WATER LOSS CC 2 1/2 3 % SAND %
YIELD PT. WATER LOSS FILTER CAKE SOLIDS
230 PPM 72 PPM 8 ALK GALS (% MIN.) OTHER REMARKS
CHLORIDE OIL CA pH
 SURVEYS _____

DETAIL INSTALLED CLASS III B.O.P.E. AND TEST. BRIDGE PLUG WAS PUMPED DOWN HOLE WITH 200PSI. STAGED IN HOLE TO 2947' CIRCULATE AND CONDITION MUD P.O.H. LAYING DOWN DRILL COLLARS AT 6AM

CUMULATIVE MUD COST 71190 CUMULATIVE DAILY COST 900.605 DRILLING REPRESENTATIVE SAS/CF
 RIG PHONE NO. 702 6355556

PROGRESS OF DRILLING WELLS 1-562

DRILLING DAYS 55 CUM. ROTATING HRS. 348 4-17 19 80

WELL NO. DOE 85-18 FIELD BEOUWAVE CONTRACTOR KENAI #7

DEPTH 3208 BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 1/1 CONDITION _____
 BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 1/1 CONDITION _____
 FROM _____ FT. TO _____ FT. IN _____ HRS. 1000# _____ WT. ON BIT _____ SPEED _____ RPM _____

DRILLING SETUP _____

LAST CASING 9518 AT 2946 FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM _____
 SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL _____ PCF _____ SEC. _____ CPS _____
 MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

YIELD PT. #/100 SQ. FT. _____ CC HT-HP WATER LOSS _____ CC 132 % _____ %
 WATER LOSS FILTER CAKE SOLIDS SAND

CHLORIDE PPM _____ % OIL _____ CA PPM _____ pH _____ ALK _____ GALS (% MIN.) _____ OTHER REMARKS _____

SURVEYS _____

DETAIL TEST BOPE TO 1000 PSI. RIG UP CSG. TONGS. RAN

51 JTS. OF 9518" 40# N-80 BUTT CSG. W/ BAKER-LINE LINER

HANGER W/ TIE BACK CONNECTION. SHOE @ ²⁹³⁷~~2946~~' TOP

LINER ²⁹⁵⁵~~2946~~' CIRC. CSG. 3 HRS @ 2948'. HALLOBURTON

CMT'D AS FOLLOWS: PREFLUSH 100 CF WATER, 100 CF CaCl2,

100 CF WATER, 100 CF SODIUM SILICA, 100 CF WATER. PUMPED

1800 CF CMT. (200% EXCESS) CLASS "G", 1:1 PERRILITE,

35% SILICA FLOUR, 3/10 GEL, 1/2% CFR 2. DISPLACED W/

938 CF MUD. LOST CIRC. W/ 50 CF LEFT TO DISP.

CIP @ 1:10 AM. PULLED OUT 60'. CIRC. F.O.H. R.H

W/ 12 1/4" BIT @ 6 AM.

CUMULATIVE MUD COST 71190

CUMULATIVE DAILY COST 980,825

DRILLING REPRESENTATIVE SAS/RJA

RIG PHONE NO. _____

DA 1 PROGRESS OF DRILLING WELLS 562

DRILLING DAYS 56 CUM. ROTATING HRS. 348 4-18 19 80

L NO. DOE 85-18 FIELD BEOUWAVE CONTRACTOR KENAI #7

DEPTH 3208 BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 11 CONDITION _____
 BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 11 CONDITION _____
 FROM _____ FT. TO _____ FT. FT. _____ IN _____ HRS. _____ 1000# _____ RPM _____
 WT. ON BIT _____ SPEED _____

DRILLING SETUP _____

LAST CASING 95/8 AT 2937 FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM
 SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL PCF _____ SEC. _____ CPS
 MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

YIELD PT. #/100 SQ. FT. _____ CC _____ CC _____ 132 _____ % _____ %
 WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

CHLORIDE PPM _____ % _____ PPM _____ pH _____ ALK _____ GALS (% MIN.) _____ OTHER REMARKS

SURVEYS _____

FAIL POH W/ 12 1/4 BIT. TEST LAP FROM SURFACE, NO GOOD.
WOULD PUMP AWAY W/ 250 PSE. P/U 5 3/4" D.C. +
STAND IN DERRICK. PREP. LOCATION FOR DST. MAKE
RTTS TOOL @ 6AM.

CUMULATIVE MUD COST 71245

CUMULATIVE DAILY COST 982,285

DRILLING REPRESENTATIVE SAS/RTA

RIG PHONE NO. 702-635-5556

DAILY PROGRESS OF DRILLING WELL Pro-562

DRILLING DAYS 57 CUM. ROTATING HRS. 348 4-19 19 80

WELL NO. DOE 85-18 FIELD BEOWAWE CONTRACTOR KENAI #7

DEPTH <u>3208</u>	BIT NO. _____	SIZE _____	MAKE-TYPE _____	FEET _____	HOURS _____	JETS <u>11</u>	CONDITION _____
	BIT NO. _____	SIZE _____	MAKE-TYPE _____	FEET _____	HOURS _____	JETS <u>11</u>	CONDITION _____
FROM _____ FT.	TO _____ FT.	FT. _____ FT.	IN _____	HRS. _____	1000# _____	WT. ON BIT _____	SPEED _____ RPM

DRILLING SETUP _____

LAST CASING 95/8 AT 2937 ^{top} FORMATION @ 785 PUMP PRESS. _____ PSI @ _____ SPM

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BARDID GEL _____ PCF _____ SEC. _____ CPS

YIELD PT. _____	#/100 SQ. FT. _____	WATER LOSS _____ CC	HT-HP WATER LOSS _____ CC	FILTER CAKE <u>732</u>	% SOLIDS _____	% SAND _____
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CHLORIDE _____ PPM	OIL _____ %	CA _____ PPM	pH _____	ALK _____	GALS (% MIN.) _____	OTHER REMARKS _____
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SURVEYS _____

DETAIL RIH W/ RTTS TOOL TO 728'. TOOL WOULD NOT HOLD PRESSURE. POH. PACKER O.K. RIH W/ H.W. D.P. TO 723'. HALLO BURTON SQUEEZED; 50 CIP WATER PREFLUSH, 58 CIP CaCl2, 100 CIP WATER, 58 CIP FLO-CHECK, 50 CIP WATER. INITIAL PRESSURE 500 PSI. PREFLUSH BROKE PRESSURE TO 0. PUMPED 650 CIP CLASS "G" OMT. W/ 1:1 PERRILIT. 40% SILICA FLOUR, 3% GEL, 3/4% CFR-2. PUMPED @ RATE OF 2 BBL/S/MIN. PRESSURE STARTED BUILDING WHEN 500 CIP WAS MIXED. DISPLACED D.P. W/ 80 CIP MUD @ 1 BBL/MIN. FINAL SQUEEZE PRESSURE 600 PSI. CIP @ 4 PPM. POH. L/D RTTS. RIH W/ 12 1/4" BIT, CIRC OUT EXCES POH. WOC. TEST LAP @ 4 AM W/ 500 PSI. FOR 15 MIN. OK. TEAR OUT BOPE @ 6 AM.

CUMULATIVE MUD COST 71,445 CUMULATIVE DAILY COST 1,054,802 DRILLING REPRESENTATIVE SAS/RJA

RIG PHONE NO. _____

AILY PROGRESS OF DRILLING WELL No-562

DRILLING DAYS 58 CUM. ROTATING HRS. 350 4-20 19 80

WELL NO. DOE 85-18 FIELD BEOWAWE CONTRACTOR KENAI #7

DEPTH 3208 BIT NO. 13 8 3/4" SEC.S3 2 NONE ING.
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM _____ FT. TO _____ FT. _____ FT. IN _____ HRS. _____ 1000# _____ RPM
WT. ON BIT SPEED

DRILLING SETUP _____

LAST CASING 9 5/8 AT 2739 FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL _____ PCF _____ SEC. _____ CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

YIELD PT. #/100 SQ. FT. _____ CC _____ CC _____ 132 _____ % _____ %
WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

CHLORIDE PPM _____ % _____ PPM _____ pH _____ ALK _____ GALS (% MIN.) _____ OTHER REMARKS

SURVEYS _____

DETAIL REMOVED BOPE. INSTALLED MASTER GATE VALVE.

NIPPLE UP CLASS III BOPE. TEST BLIND RAMS @ 1000 PSI.

RIH W/ 8 3/4" BIT TO 785'. C/O CMT 785'-805'. RIH TO

2809' TAGGED CMT. TESTED CSG. + BOPE. TO 1000 PSI.

DRLD CMT TO 2890 @ 6 AM.

CUMULATIVE MUD COST 71,510

CUMULATIVE DAILY COST 4,083,312

DRILLING REPRESENTATIVE SAS/RJA

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELL No-562

DRILLING DAYS 59 CUM. ROTATING HRS. 360 4-21 19 80

WELL NO. DOE 85-18 FIELD BEOVAWE CONTRACTOR KENAI #7

DEPTH 3208 BIT NO. 13 8 3/4" SEC S-3 C/O GRAVEL 12 NONE ING.
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ 11 _____
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM _____ FT. TO _____ FT. _____ FT. IN _____ HRS. _____ 1000# _____ RPM
WT. ON BIT SPEED

DRILLING SETUP 8 3/4" BIT, BIT SUB, 10 D.C., 2 JTS. HW.D.P.

LAST CASING 9 5/8 AT 2937 FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL 8.8 PCF 45 SEC. _____ CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

YIELD PT. #/100 SQ. FT. _____ CC WATER LOSS _____ CC HT+HP WATER LOSS _____ CC FILTER CAKE 132 % SOLIDS _____ % SAND _____

CHLORIDE PPM _____ OIL % _____ CA PPM _____ pH _____ ALK _____ GALS (% MIN.) _____ OTHER REMARKS _____

SURVEYS _____

DETAIL C/O CMT FROM 2890' TO SHOE @ 2937'. C/O SAND
PLUG 2937'-3208'. CIRC + COND MUD. POM. HALLOBURTO.
TOOL TRUCK BROKE DOWN IN RENO W/ DST TOOLS.
RIH W/ 8 3/4" BIT. CIRC + COND MUD. WAITING ON DST
TOOLS @ 6AM.

CUMULATIVE MUD COST 71,860

CUMULATIVE DAILY COST 1,092,256

DRILLING REPRESENTATIVE SAS/ICVA

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELL Pro-562

DRILLING DAYS 60 CUM. ROTATING HRS. 360 4-22 19 80

NO. DOE 85-18 FIELD BEOWAWE CONTRACTOR REAR # 7

DEPTH <u>3208</u>	BIT NO. _____	SIZE _____	MAKE-TYPE _____	FEET _____	HOURS _____	JETS <u>11</u>	CONDITION _____
	BIT NO. _____	SIZE _____	MAKE-TYPE _____	FEET _____	HOURS _____	JETS <u>11</u>	CONDITION _____
FROM _____	FT. TO _____	FT. _____	FT. _____	IN _____	HRS. _____	1000# _____	RPM _____
				WT. ON BIT _____	SPEED _____		

DRILLING SETUP SAME

LAST CASING 9 5/8 AT 2937 FORMATION _____ PUMP PRESS. _____ PSIG _____ SPM _____
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID <u>BAROID</u>	MUD CO. <u>6</u>	TYPE <u>65L</u>	WEIGHT <u>8.9</u>	PCF _____	FUNNEL VISC. <u>40</u>	SEC. <u>10</u>	PLASTIC VISC. _____
YIELD PT. <u>6</u>	#/100 SQ. FT. <u>15</u>	CC _____	HT-HP WATER LOSS _____	CC <u>2</u>	<u>132</u>	<u>4</u>	% <u>1/4</u>
CHLORIDE <u>200</u> PPM	OIL _____ %	CA <u>40</u> PPM	pH <u>8.0</u>	ALK _____	GALS (% MIN.) _____	OTHER REMARKS _____	

SURVEYS _____

DETAIL CIRC + COND MUD @ 2937'. WAIT ON DST TOOLS. POH.
RIG UP AGNEW + SWEET. RAN TEMP. RECORDER FROM
1500' - 2935' (4 TIMES). P/U DST TOOLS. R/H. SET
PACKER @ 2865' @ 5:30 AM, TAIL 2935'. MAKING
UP HEAD @ 6 AM.

MUD IN 140° MUD OUT 160°

CUMULATIVE MUD COST 72,310

CUMULATIVE DAILY COST 1,100,990

DRILLING REPRESENTATIVE SAS/RJA

RIG PHONE NO. 702-635-5556

ONLY PROGRESS OF DRILLING WELL Pro-562

DRILLING DAYS 61 CUM. ROTATING HRS. 360 4/23 19 80

NO. DOE 85-18 FIELD BEOWANE CONTRACTOR KENAI #7

DEPTH 3208 BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS 11 JETS _____ CONDITION _____
 BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS 11 JETS _____ CONDITION _____
 FROM _____ FT. TO _____ FT. IN _____ HRS. 1000# _____ WT. ON BIT _____ SPEED _____ RPM _____

DRILLING SETUP _____

LAST CASING 9 5/8 AT 2937 FORMATION _____ PUMP PRESS./ PSI@ _____ SPM _____
 SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL P.S PCF 32 SEC. 5 CPS
 MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.
3 #/100 SQ. FT. 20 CC 1/32 3 %
 YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND
160 PPM 20 PPM 8.0
 CHLORIDE OIL CA pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL M/U SURFACE LINES FOR DST. INSTALLED COIL TUBING UNIT. COIL TUBING STAGED IN TO 2500'. PUMPED NITROGEN THROUGH COIL TUBING. NITROGEN DISPLACED THEORETICAL RATHOLE VOLUME + FORMATION FLUID. WELL DID NOT FLOW WHEN NITRO. WAS SHUT OFF. TEST & SHUT IN @ SURFACE FOR 6 HRS. PULLED OUT COIL TUBING. EQUALIZED D.P. CIRC BOTTOMS UP. POH. L/D PACKER. REMOVED TEMP. + PRESS. CHARTS. RIG UP GEOTHERMAL TESTING SERVICES TO RUN TEMP. SURVEYS @ 6AM

CUMULATIVE MUD COST 73,345 CUMULATIVE DAILY COST 1,126,808 DRILLING REPRESENTATIVE BR. / RJA

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELL No. 562

DRILLING DAYS 62 CUM. ROTATING HRS. 365 1/4 4-24 19 80

WELL NO. DOE 85-18 FIELD BEOWAWE CONTRACTOR KENAI 7

DEPTH 3281 BIT NO. #13 (RR) 8 3/4 S3J 73 5 1/4 13/16 1/2 ING.
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS _____ CONDITION _____

FROM 3208 FT. TO 3281 FT. 73 FT. IN 5 1/4 HRS. 20 1000# 60 RPM
WT. ON BIT SPEED

DRILLING SETUP 8 3/4" BIT, STAB, IDC, STAB, IDC, STAB, 4DC, STAB, 4DC, STAB

LAST CASING 9 5/8 AT 2937 FORMATION _____ PUMP PRESS. 900 PSI@ 49 SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL 8.9 PCF 46 SEC. 15 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

9 #/100 SQ. FT. 14 CC 2 1/32 4 % 14 %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

200 PPM 40 PPM 9.6
CHLORIDE OIL CA pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL GEO THERMAL TESTING SERVICE RAN TEMP. SURVEYS IN
THE INTERVALS 2800'-3208' & 0'-3208'. RIG DOWN GTS.
M/U BHA. RIH. DRLD F/ 3208 - 3281. POH TO CHANGE
BITS @ 6 AM.

CUMULATIVE MUD COST 74,114 CUMULATIVE DAILY COST 1,136,192 DRILLING REPRESENTATIVE BR./RJA
RIG PHONE NO. 702-635-5556

DAILY PROGRESS OF DRILLING WELLS No-562

DRILLING DAYS 63 CUM. ROTATING HRS. 377 1/4 4-25 19 80

NO. DOE 85-18 FIELD BEOVAWE CONTRACTOR KENAI 7

DEPTH 3442 BIT NO. 14 8 3/4" S84F 161 12 13 13 1/2
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 11 _____
CONDITION

FROM 3281 FT. TO 3442 FT. 161 FT. IN 12 HRS. 30 1000# 50 RPM
WT. ON BIT SPEED

DRILLING SETUP 8 3/4" BIT, STAB, MONEL, STAB, IDC, STAB, 4 DC, STAB, 5 DC, STAB, 10 JTS H.W., JARS, 10 JTS H.W.

LAST CASING 9 5/8 AT 2937 FORMATION _____ PUMP PRESS. 1000 PSI@ 50 SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL 8.9 PCF 47 SEC. 14 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

8 #/100 SQ. FT. 8 CC 2 132 4 % 1/4 %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

200 PPM 100 PPM 10.0
CHLORIDE OIL CA pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS 3305 10 3427 1015

ALL POH. CHANGED BITS, PLU MONEL. RIH W/ BIT #14. BROKE CIRC @ 2000' & 2600'. DRLD 8 3/4" HOLE FROM 3281-3305. SURVEYED. DRLD FROM 3305-3427. SURVEYED. DRLD 3427-3442 @ 6 AM.

CUMULATIVE MUD COST 74,626 CUMULATIVE DAILY COST 1,147,196 DRILLING REPRESENTATIVE BR / RJA
 RIG PHONE NO. 702-635-5556

DAILY PROGRESS OF DRILLING WELLS 0-562

DRILLING DAYS 64 CUM. ROTATING HRS. 393³/₄ 4-26 19 80

L. NO. DOE 85-18 FIELD BEOWAWE CONTRACTOR KENAI #7

DEPTH 3744 BIT NO. 14 8³/₄" S84F 463 28¹/₂ 11
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM 3442 FT. TO 3744 FT. 302 FT. IN 16¹/₂ HRS. 40 45 RPM
WT. ON BIT 1000# SPEED

DRILLING SETUP 8³/₄" BIT, STAB, MONEL, STAB, IDC, STAB, 4DC, STAB, 5DC, STAB, 10 HW, JARS, 10 HW.

LAST CASING 9⁵/₈ AT 2937 FORMATION _____ PUMP PRESS. 900 PSI@ 49 SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL 9.0 PCF 44 SEC. 12 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

11 #/100 SQ. FT. 10 CC 2¹³/₂ 4 % 1/4 %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

200 PPM _____ % 40 PPM 9.0 _____
CHLORIDE OIL CA pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS 3427' 1015 N82E

DETAIL DRLD. 8³/₄" HOLE 3442'-3744', RIG DOWN 5 HRS. FOR REPAIR ON PUMP. SURVEYING @ 6 AM.

CUMULATIVE MUD COST 75,226 CUMULATIVE DAILY COST 1,159,614 DRILLING REPRESENTATIVE BR/RJA

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELLS Pro-562

DRILLING DAYS 65 CUM. ROTATING HRS. 403 4-27 19 80

WELL NO. DOE 85-18 FIELD BEOWAWE CONTRACTOR KENAI # 7

DEPTH 3834 BIT NO. 14 8 3/4 S84F 553 373 1/4 12/31/3 8-8-OUT
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ SIZE MAKE-TYPE FEET HOURS JETS CONDITION
FROM 3744 FT. TO 3834 FT. 90 FT. IN 9 1/4 HRS. 30 1000# 45 RPM
WT. ON BIT SPEED

DRILLING SETUP SAME

LAST CASING 9 5/8 AT 2937 FORMATION _____ PUMP PRESS. 900 PSI@ 49 SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL 9.0 PCF 46 SEC. 16 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

9 #/100 SQ. FT. 8 CC 2 1/2 4 % 1/4 %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

200 PPM 80 PPM 9.5
CHLORIDE OIL CA pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL DRLD 8 3/4" HOLE 3744' - 3834'. WIPED HOLE.
POH @ 6 AM.

CUMULATIVE MUD COST 75,970

CUMULATIVE DAILY COST 1,168,972

DRILLING REPRESENTATIVE BIR / RJA

RIG PHONE NO. _____

PROGRESS OF DRILLING WELLS Pro-562

DRILLING DAYS 66 CUM. ROTATING HRS. 403 4-28 19 80

WELL NO. DOE 85-18 FIELD BEDWAWE CONTRACTOR KENAI # 7

DEPTH 3834 BIT NO. SIZE MAKE-TYPE FEET HOURS JETS CONDITION
BIT NO. SIZE MAKE-TYPE FEET HOURS JETS CONDITION
FROM FT. TO FT. 0 FT. IN HRS. 1000# RPM
WT. ON BIT SPEED

DRILLING SETUP

LAST CASING 9510 AT 2937 FORMATION PUMP PRESS. PSI@ SPM
SIZE DEPTH

PUMP OUTPUT GPM ANNULAR VEL. FT./MIN. (D.P.) NOZZLE VEL. FT./SEC.

DRLG. FLUID BARDID GEL MUD CO. TYPE PCF FUNNEL VISC. SEC. PLASTIC VISC. CPS

YIELD PT. #/100 SQ. FT. WATER LOSS CC HT-HP WATER LOSS CC FILTER CAKE SOLIDS SAND % %

CHLORIDE PPM OIL % CA PPM pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS

DETAIL POH. LOST 1 CORE & INSERTS IN HOLE. WAIT ON GEOTHERMAL TESTING SERVICE. RIG UP G.T.S. RAN TEMP SURVEY 0-2900'. COULD NOT GET SURVEY TOOL DEEPER THAN 2900'. POH W/ SURVEY TOOL @ 6 AM.

CUMULATIVE MUD COST 75,970 CUMULATIVE DAILY COST 1,185,791

DRILLING REPRESENTATIVE BR/RJA

RIG PHONE NO.

DAILY PROGRESS OF DRILLING WELLS Pro-562

DRILLING DAYS 67 CUM. ROTATING HRS. 403 4-29 19 80

NO. DOE 85-18 FIELD BEO WAVE CONTRACTOR KENAI # 7

DEPTH <u>3834</u>	BIT NO. <u>15</u>	SIZE <u>8 3/4</u>	MAKE-TYPE <u>S44F</u>	FEET	HOURS	JETS <u>11</u>	CONDITION
BIT NO. _____		SIZE _____	MAKE-TYPE _____	FEET _____	HOURS _____	JETS <u>11</u>	CONDITION _____
FROM _____ FT.	TO _____ FT.	IN _____ FT.	HRS. _____	WT. ON BIT _____	1000# _____	SPEED _____	RPM _____

DRILLING SETUP 8 3/4 BIT, JUNK SUB, STAB, MONEL, STAB, IDC, STAB, 4DC, STAB, 5DC, STAB, 9 HW., JARS, 11 HW.

LAST CASING 9 5/8 AT 2937 FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID <u>BAROID</u>	MUD CO. _____	TYPE <u>GEL</u>	WEIGHT <u>8.8</u>	PCF _____	FUNNEL VISC. <u>49</u>	SEC. <u>18</u>	PLASTIC VISC. _____	CPS _____
<u>12</u> YIELD PT.	#/100 SQ. FT. <u>10</u>	CC _____	HT-HP WATER LOSS _____	CC <u>2 132</u>	<u>4</u> FILTER CAKE	% <u>4</u> SOLIDS	% _____ SAND	% _____
<u>200</u> CHLORIDE PPM	OIL _____ %	<u>160</u> CA PPM	<u>9.5</u> pH	ALK _____	GALS (% MIN.) _____	OTHER REMARKS _____		

SURVEYS _____

DETAIL G.T.S. UNABLE TO RUN TEMP. SURVEY PAST 2900'. RIG DOWN G.T.S.
P/U BIT # 15 & JUNK SUB. RIH. CHANGE OUT W/ NEW JARS.
BROKE CIRC. @ 1000'. RIH TO 2500'. CIRC. BOTTOMS UP. RIH
TO 3500', CIRC. @ 6 AM.

MUD TEMP OUT 165°
IN 145°

CUMULATIVE MUD COST 76,677. CUMULATIVE DAILY COST 1,203,030. DRILLING REPRESENTATIVE BR/RJA
 RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELL No-562

DRILLING DAYS 68 CUM. ROTATING HRS. 403 4-30 19 80

L NO. DOE 85-18 FIELD BEOUAWE CONTRACTOR KENAI #7

DEPTH	<u>3834</u>	BIT NO.	<u>15</u>	SIZE	<u>8 3/4"</u>	MAKE-TYPE	<u>S44F</u>	FEET	<u>REAMED</u>	HOURS	<u>6</u>	JETS	<u>11</u>	CONDITION
		BIT NO.		SIZE		MAKE-TYPE		FEET		HOURS		JETS	<u>11</u>	CONDITION
FROM		FT. TO		FT.		IN		HRS.		1000#		WT. ON BIT		SPEED
														RPM

DRILLING SETUP 8 3/4" BIT, JUNK SUB, STAB, MONEL, STAB, IDC, STAB, 4DC, STAB, 5DC, STAB, 9HW., JARS, 11H.W.

LAST CASING _____ AT _____ DEPTH _____ FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID	<u>BAROID</u>	MUD CO.	<u>GEL</u>	TYPE	<u>9.0</u>	WEIGHT	PCF	<u>50</u>	FUNNEL VISC.	SEC.	<u>19</u>	PLASTIC VISC.	CPS	
	<u>.2</u>	#/100 SQ. FT.	<u>11</u>	WATER LOSS	CC			<u>2</u>	<u>132</u>	CC	<u>4</u>	%	<u>5</u>	%
	<u>200</u>	PPM		%	<u>100</u>	PPM	<u>10.</u>							
	CHLORIDE		OIL		CA		pH	ALK		GALS (% MIN.)			OTHER REMARKS	

SURVEYS _____

DETAIL REAMED F/ 3663' - 3826'. CIRC. RIG UP PRUETT WIRE-LINE
RAN 6 TEMP. SURVEYS F/ 2900' - 3810'. RIG DOWN PRUETT.
REAMED F/ 3826 - 3834 @ 6 AM.

CUMULATIVE MUD COST 77,281 CUMULATIVE DAILY COST 1,212,983 DRILLING REPRESENTATIVE BR/ RJA

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELLS 0-562

DRILLING DAYS 69 CUM. ROTATING HRS. 403 5.1 1980

NO. 85-18 D.O.E. FIELD BEDWAUWE CONTRACTOR KENAI #7

DEPTH 3836 BIT NO. 15 874 544F 2 13.812 75 D.G.
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO.
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM 3834 FT. TO 3836 FT. 2 FT. IN HRS. 1000# RPM
WT. ON BIT SPEED

DRILLING SETUP 8 3/4" BIT, JUNK SUB, STAB, MONEL STAB, 1-D.C. STAB, 4-D.C. STAB, 5 D.C. STAB, 9 H.W., JARS, 11-H.W.

LAST CASING 9 5/8 AT 2937 FORMATION PUMP PRESS. PSI@ SPM
SIZE DEPTH

PUMP OUTPUT GPM ANNULAR VEL. FT./MIN. (D.P.) NOZZLE VEL. FT./SEC.

DRLG. FLUID BAROID GEL 8.9 PCF 44 SEC. 15 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

10 #/100 SQ. FT. 10 CC CC 2.132 4 % %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

200 PPM % 160 PPM 9.5
CHLORIDE OIL CA pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS

DETAIL COMPLETED REAMING FROM 3826' TO 3834' DRILL NEW HOLE TO 3836', WORK ON JUNK AT 3836' P.O.H. RETRIEVED MISCELLANEOUS JUNK OUT OF JUNK SUB. PICK UP MAGNET R.I.H. BRAKE CIRCULATION AT 1000' AND 2500', WORK MAGNET AT 3836' P.O.H. AT 6:AM.

CUMULATIVE MUD COST 77,712

CUMULATIVE DAILY COST 1220,120

DRILLING REPRESENTATIVE B.R.R./CF

RIG PHONE NO.

DAILY PROGRESS OF DRILLING WELLS 562

DRILLING DAYS 70 CUM. ROTATING HRS. 414 1/2 5-2 19 80

L NO. DOE 85-18 FIELD BEOWAWE CONTRACTOR KENAI # 7

DEPTH 3964 BIT NO. 16 83/4 Sec M895 128 11 1/2 12/13/13
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS _____ CONDITION _____

FROM 3836 FT. TO 3964 FT. 128 FT. IN 11 1/2 HRS. 45 1000# 50 RPM
WT. ON BIT SPEED

DRILLING SETUP 83/4 BIT, JUNK SUB, STAB, MONEL, STAB, IDC, STAB, 4DC, STAB, 5DC, STAB, 9 HW., JARS, 10 H.W.

LAST CASING 95/8 AT 2937 FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL 9.0 PCF 45 SEC. 17 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

9 #/100 SQ. FT. 10 CC 2/32 4 % 1/4 %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

200 PPM _____ % _____ PPM 9.8
CHLORIDE OIL CA pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS 3940' 2° S 67° E

DETAIL FOH w/ MAGNET. RECOVERED CONE FROM MAGNET & MISC. JUNK FROM JUNK SUB. P/U NEW BIT. R/H. BROKE CIRC. @ 1500' & 3000'. DRLD. 83/4" HOLE 3836'-3946'. CIRC & SURVEYED. DRLD 3946'-3964' @ 6AM. DRLG. AHEAD.

CUMULATIVE MUD COST 78,552 CUMULATIVE DAILY COST 4,236, 175 DRILLING REPRESENTATIVE BR / RJA

RIG PHONE NO. _____

DRILLING PROGRESS OF DRILLING WELLS 0-562

DRILLING DAYS 71 CUM. ROTATING HRS. 425 5-3 19 80

WELL NO. DOE 85-18 FIELD BEOWAWE CONTRACTOR KENAI #7

DEPTH	BIT NO.	SIZE	MAKE-TYPE	FEET	HOURS	JETS	CONDITION
<u>4039</u>						<u>11</u>	
						<u>11</u>	
FROM <u>3964</u>	FT. TO <u>4039</u>	FT. <u>75</u>	IN <u>10 1/2</u>	HRS. <u>45</u>	1000#	<u>50</u>	RPM
				WT. ON BIT		SPEED	

DRILLING SETUP 8 3/4" BIT, JUNK SUB, STAB, MONEL, STAB, DC, STAB, 4 DC, STAB, 5 DC, STAB, 9 HW. JARS, 11 HW.

LAST CASING 9 5/8 AT 2937 DEPTH FORMATION 900 PUMP PRESS. 44 PSI@ _____ SPM

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID	MUD CO.	TYPE	WEIGHT	PCF	FUNNEL VISC.	SEC.	PLASTIC VISC.	CPS
<u>BAROID</u>		<u>GEL</u>	<u>8.9</u>		<u>43</u>		<u>16</u>	
<u>8</u>	#/100 SQ. FT.	<u>10</u>	CC	<u>15.3</u>	CC	<u>2 1/2</u>	<u>4</u>	%
<u>180</u>	YIELD PT. PPM	%	PPM	<u>9.5</u>	HT-HP WATER LOSS	FILTER CAKE	SOLIDS	SAND
	CHLORIDE	OIL	CA	pH	ALK	GALS (% MIN.)	OTHER REMARKS	

SURVEYS _____

DETAIL DRLD. 8 3/4" HOLE 3964-4039'. CIRC + POH @ 6 AM

MUD TEMP IN 125° OUT 145°

COOLER ON

CUMULATIVE MUD COST 79,341 CUMULATIVE DAILY COST 1,257,248 DRILLING REPRESENTATIVE BR/RTA

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELLS 0-562

DRILLING DAYS 72 CUM. ROTATING HRS. 425 5-4 19 80

WELL NO. DOE 85-18 FIELD BEDWAVE CONTRACTOR KENAM #7

DEPTH 4039 BIT NO. 16 834# Sec MS95 203 22 13/16/12 5-3-J
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS _____ CONDITION _____

FROM _____ FT. TO _____ FT. _____ FT. IN _____ HRS. _____ 1000# _____ RPM
WT. ON BIT SPEED

DRILLING SETUP 834" BIT, JUNK, RIB, REAMER, LEAD COLLAR, STAB, MONEL, STM.
1DC, STAB, 1DC, STAB, 2DC, STAB, 3DC, STAB, 3DC, STAB, 10HW, JAR, 10HW

LAST CASING 95/8 AT 2937 FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL 8.9 PCF 43 SEC. 15 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

9 #/100 SQ. FT. 10.3 CC 16.8 CC 2 132 4 % NONE %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

160 PPM 40 % 9.0 PPM _____ ALK _____ GALS (% MIN.) _____ OTHER REMARKS
CHLORIDE OIL CA pH

SURVEYS _____

DETAIL POH. L/D JARS. (UNSCREWED IN BODY). POH C/O JUNK
SUB. L/D BENT MONEL. RIG DOWN 5HRS (DRAWWORKS
MOTOR). W/O NEW JARS + MONEL. MUU BHA. RIH TO 2500'
CIRC. RIH @ 6AM

CUMULATIVE MUD COST 79,341 CUMULATIVE DAILY COST 1,263,620 DRILLING REPRESENTATIVE BR/RJA

RIG PHONE NO. _____

PROGRESS OF DRILLING WELLS 562

DRILLING DAYS 73 CUM. ROTATING HRS. 447 5-5 1980

WELL NO. DOE 85-18 FIELD BEOWAWE CONTRACTOR KENAI # 7

DEPTH 4128 BIT NO. 17 SIZE 8 3/4 MAKE-TYPE SMITH FG 89 FEET 20 HOURS MMVH JETS INC. CONDITION

BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 11 CONDITION _____

FROM 4039 FT. TO 4128 FT. 89 FT. IN 20 HRS. 45 1000# 45 RPM

WT. ON BIT _____ SPEED _____

DRILLING SETUP SAME

LAST CASING 9 5/8 AT 2937 FORMATION VALMY PUMP PRESS. 900 PSI@ 44 SPM

SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROLD MUD CO. GEL TYPE 9.2 PCF 50 SEC. 19 CPS

WEIGHT FUNNEL VISC. PLASTIC VISC.

12 #/100 SQ. FT. 7.8 CC 2 1/2 7 % 14 %

YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

200 PPM 60 PPM 10.0

CHLORIDE OIL CA pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL RIH TO 3836'. ENCOUNTERED TIGHT HOLE. CIRC. + COND.
MUD. REAMED 3836' - 4039'. DRLD 8 3/4" HOLE 4039 -
4128 @ 6 AM.

MUD IN 123° OUT 154°

COOLER ON

CUMULATIVE MUD COST 80,946 CUMULATIVE DAILY COST 1,248,073 DRILLING REPRESENTATIVE SAS / RJA

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELLS Pro-562

DRILLING DAYS 74 CUM. ROTATING HRS. 462 1/2 5-6 19 80

WELL NO. DOE 85-18 FIELD BEONAWE CONTRACTOR KENAI # 7

DEPTH	<u>4224</u>	BIT NO.	<u>17</u>	<u>8 3/4</u>	<u>SMITH FL 185</u>	<u>35 1/2</u>	<u>MMH</u>	<u>T-58-518-</u>					
				SIZE	MAKE-TYPE	FEET	HOURS	JETS	CONDITION				
		BIT NO.	<u>18</u>	<u>8 3/4</u>	<u>Sec M 8F</u>			<u>11</u>					
				SIZE	MAKE-TYPE	FEET	HOURS	JETS	CONDITION				
FROM	<u>4129</u>	FT. TO	<u>4224</u>	FT.	<u>96</u>	FT.	IN	<u>15 1/2</u>	HRS.	<u>45</u>	1000#	<u>45</u>	RPM
											WT. ON BIT	SPEED	

DRILLING SETUP SAME

LAST CASING 9 5/8 AT 2937 FORMATION UNKN PUMP PRESS. 900 PSI@ 44 SPM

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID	<u>BAROID</u>	<u>62C</u>	<u>9.2</u>	PCF	<u>44</u>	SEC.	<u>16</u>	CPS
	MUD CO.	TYPE	WEIGHT		FUNNEL VISC.		PLASTIC VISC.	
	<u>5</u>	<u>6</u>	<u>13.8</u>	CC	<u>2</u>	<u>7</u>	<u>1/4</u>	%
	YIELD PT.	WATER LOSS	HT-HP WATER LOSS	CC	FILTER CAKE	SOLIDS	SAND	%
	<u>160</u>	<u>90</u>	<u>9.0</u>					
	PPM	PPM	pH	ALK	GALS (% MIN.)	OTHER REMARKS		
	CHLORIDE	OIL	CA					

SURVEYS _____

DETAIL DELD. 8 3/4" HOLE 4128'-4224'. POW. CHANGED B ITS.
REPAIRED RIG 2 HRS. RIN @ 6 AM.

CUMULATIVE MUD COST 84,406 CUMULATIVE DAILY COST 1,290,971 DRILLING REPRESENTATIVE SAS / RTA
 RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELLS Pro-562

DRILLING DAYS 75 CUM. ROTATING HRS. 479 1/2 5-7 19 80

WELL NO. DOE 85-18 FIELD BEOWAWE CONTRACTOR KENAI #7
 DEPTH 4400 BIT NO. 18 8 3/4 SEC M89F 176 17 16M16 INC.
SIZE MAKE-TYPE FEET HOURS JETS CONDITION
 BIT NO.
SIZE MAKE-TYPE FEET HOURS JETS CONDITION
 FROM 4224 FT. TO 4400 FT. 176 FT. IN 17 HRS. 30-35 1000# 45 RPM
WT. ON BIT SPEED
 DRILLING SETUP SAME

LAST CASING 9 5/8 AT 2937 FORMATION VALMUY PUMP PRESS. 1000 PSI@ 52 SPM
SIZE DEPTH
 PUMP OUTPUT GPM ANNULAR VEL. FT./MIN. (D.P.) NOZZLE VEL. FT./SEC.
 DRLG. FLUID BAROID GEL 9.2 PCF 45 SEC. 15 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.
6 #/100 SQ. FT. 6.8 CC 13.9 CC 2 /32 7 % 14 %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND
160 PPM % 80 PPM 8.9
CHLORIDE OIL CA pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS

DETAIL RIH. CIRC. @ 2800'. RIH TO 4224'. WORKED JUNK
SUB. DRILD. 8 3/4" HOLE F/4224 - 4400' @ 6AM.

MUD IN 120° OUT 148
COOLER ON.

CUMULATIVE MUD COST 81,586 CUMULATIVE DAILY COST 1,299.857 DRILLING REPRESENTATIVE SAS/RJA
 RIG PHONE NO.

DAILY PROGRESS OF DRILLING WELLS Pro-562

DRILLING DAYS 76 CUM. ROTATING HRS. 491 5-8 19 80

L NO. DOE 85-18 FIELD BEOWAWE CONTRACTOR KENAI # 7

DEPTH 4543' BIT NO. 18 8 3/4 SECM 89F 319 28 1/2 161416
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 1 1 CONDITION _____

FROM 4400 FT. TO 4543 FT. 143 FT. IN 11 1/2 HRS. 30-35 1000# 45 RPM
WT. ON BIT SPEED

DRILLING SETUP 8 3/4" BIT, JUNK SUB, 3PT REAMER, LEAD COLLAR, STAB, MOVEL, STAB, IDC, STAB, IDC, STAB, 2DC, STAB, 3DC, STAB, 3DC, STAB, 10TTHW, STAB, 10K.

LAST CASING 9 5/8 AT 2937 DEPTH FORMATION VALMY PUMP PRESS. 900 PSI@ 44 SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL _____ _____ _____ _____ _____ _____ _____ _____
MUD CO. TYPE WEIGHT PCF FUNNEL VISC. SEC. PLASTIC VISC. CPS

YIELD PT. #/100 SQ. FT. WATER LOSS CC HT-HP WATER LOSS CC FILTER CAKE 132 SOLIDS % SAND %

CHLORIDE PPM OIL % CA PPM pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL DRLD. 8 3/4" HOLE F/4400' - 4543' CIRC. BOTTOMS UP.

RIG UP PRUETT WIRELINE FOR TEMP. SURVEY. RUNNING TEMP. SURVEYS @ GAM.

CUMULATIVE MUD COST 82,120 CUMULATIVE DAILY COST 1,310,689 DRILLING REPRESENTATIVE BR/RTA

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELL No-562

DRILLING DAYS 77 CUM. ROTATING HRS. 491 5/9 1980

NO. DOE 85-19 FIELD BEOWAWE CONTRACTOR KENAI # 7

DEPTH 4543 BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 11 CONDITION _____
 BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 11 CONDITION _____
 FROM _____ FT. TO _____ FT. IN _____ FT. IN _____ HRS. _____ 1000# _____ RPM _____
 WT. ON BIT _____ SPEED _____

DRILLING SETUP _____

LAST CASING 9 5/8 AT 2937 FORMATION VALMYP PUMP PRESS. 800 PSI@ 45 SPM
 SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL 8.9 PCF 43 SEC. 18 CPS
 MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.
7 #/100 SQ. FT. 8 CC 2 132 4 %
 YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND %
160 PPM _____ % _____ PPM 9.9 _____
 CHLORIDE OIL CA pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL COMPLETED TEMP. SURVEY. RIG DOWN PRIETT.
WIPED HOLE TO SHO. BROKE CIRC @ 2900'. RIN TO
4540' & CIRC. WAITING ON SCHLUMBERGER FOR LOGS
@ 6AM.

CUMULATIVE MUD COST 82,561 CUMULATIVE DAILY COST 1,328,669

DRILLING REPRESENTATIVE BR/RJA

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELL Pro-562

DRILLING DAYS 78 CUM. ROTATING HRS. 291 5-10 19 80

WELL NO. D.O.E. 85-18 FIELD BEDWAWE CONTRACTOR KENAI #7

DEPTH <u>4543'</u>	BIT NO. _____	SIZE _____	MAKE-TYPE _____	FEET _____	HOURS _____	JETS <u>11</u>	CONDITION _____
	BIT NO. _____	SIZE _____	MAKE-TYPE _____	FEET _____	HOURS _____	JETS <u>11</u>	CONDITION _____
FROM _____	FT. TO _____	FT. _____	FT. _____	IN _____	HRS. _____	1000# _____	RPM _____
						WT. ON BIT _____	SPEED _____

DRILLING SETUP _____

LAST CASING 9 5/8 AT 2937 FORMATION VALMY PUMP PRESS. _____ PSI@ _____ SPM
 SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BARDID GEL PCF _____ SEC. _____ CPS
 MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

YIELD PT. #/100 SQ. FT. _____ CC _____ CC 132 % _____ %
 WATER LOSS HT+HP WATER LOSS FILTER CAKE SOLIDS SAND

CHLORIDE PPM _____ % OIL _____ % CA PPM _____ PH _____ ALK _____ GALS (% MIN.) _____ OTHER REMARKS _____

SURVEYS _____

DETAIL WAIT ON SCHLUMBERGER, RIG UP LOGGERS RUN TEMP. SURVEY
RUNNING DIFFL /SP AT 6:AM.

CUMULATIVE MUD COST 82561 CUMULATIVE DAILY COST 1,337,366 DRILLING REPRESENTATIVE BRR /LF

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELL Pro-562

DRILLING DAYS 79 CUM. ROTATING HRS. 491 5-11 1980

WELL NO. D.O.E 85-18 FIELD BEOWAWE CONTRACTOR KENAI # 7

DEPTH 4543 BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS 11 JETS _____ CONDITION _____

BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS 11 JETS _____ CONDITION _____

FROM _____ FT. TO _____ FT. _____ FT. IN _____ HRS. _____ 1000# _____ WT. ON BIT _____ SPEED _____ RPM

DRILLING SETUP _____

LAST CASING 9 5/8 AT 2937 FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BARDID GEL _____ PCF _____ SEC. _____ CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

YIELD PT. #/100 SQ. FT. _____ CC _____ CC _____ 132 % _____ %
WATER LOSS HT+HP WATER LOSS FILTER CAKE SOLIDS SAND

CHLORIDE PPM OIL % CA PPM pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL COMPLETED DIFFL, RAN TEMP SURVEY, RAN C.B.L., SONIC LOG,
LOGGING AT 6:AM

CUMULATIVE MUD COST 82,561

CUMULATIVE DAILY COST 1,346,365

DRILLING REPRESENTATIVE BRR/CF

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELL Pro-562

DRILLING DAYS 80 CUM. ROTATING HRS. 491 5-12 19 80

NO. D.O.E. 85-18 FIELD BEDWAUWE CONTRACTOR KENAI 7

DEPTH 4543 BIT NO. 19 83/4 STC FS
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM _____ FT. TO _____ FT. IN _____ HRS. 1000# _____ RPM
WT. ON BIT SPEED

DRILLING SETUP 83/4" BIT, JUNK SUB, 3-POINT REAMER, LEAD COLLAR, STAB, MONEL STAB, 1 D.C. STAB, 2-DC STAB, 2-DC STAB, 2-DC STAB, 10-H.W., JARS, 10 HW.

LAST CASING 95/8 AT 2937 FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BARDID GEL _____ PCF _____ SEC. _____ CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

YIELD PT. #/100 SQ. FT. _____ CC _____ CC 132 % _____ %
WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

CHLORIDE PPM _____ % _____ PPM _____ ALK _____ GALS (% MIN.) _____ OTHER REMARKS

SURVEYS _____

AIL RAN DIP METER WITH TEMP. SURVEY, RAN FDC, CNL GR WITH TEMP SURVEY RIG DOWN LOGGERS. PICK UP NEW BIT R.H. AT 6AM

CUMULATIVE MUD COST 82847 CUMULATIVE DAILY COST 1355.062 DRILLING REPRESENTATIVE BRR/CF

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELL Pro-562

DRILLING DAYS 81 CUM. ROTATING HRS. 505 5-13- 1980

L NO. D.O.E. 85-18 FIELD BEOWAWE CONTRACTOR KENJAI #7

DEPTH 4653 BIT NO. 19 8 3/4 STC FS 110 14 16 MW 11
SIZE MAKE-TYPE FEET HOURS JETS CONDITION
BIT NO. _____ SIZE MAKE-TYPE FEET HOURS JETS CONDITION
FROM 4543 FT. TO 4653 FT. 110 FT. IN 14 HRS. 35 1000# 45-50 RPM
WT. ON BIT SPEED

DRILLING SETUP _____

LAST CASING 9 5/8 AT 2937 FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL 8.9 PCF 43 SEC. 16 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.
6 #/100 SQ. FT. 9 CC 17.1 CC 2 1/2 4 %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND
150 PPM _____ % 40 PPM 9.0
CHLORIDE OIL CA pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

TAIL R.I.H. BRAKE CIRCULATION AT 1500', 2900', 3700', 4540'
DRILL 8 3/4" HOLE FROM 4543' TO 4653' DRILLING AREA 1"
6AM

CUMULATIVE MUD COST 83,499 CUMULATIVE DAILY COST 1,415.697 DRILLING REPRESENTATIVE BRE/CF
RIG PHONE NO. _____

PROGRESS OF DRILLING WELL Pro-562

DRILLING DAYS 82 CUM. ROTATING HRS. 529 5-14 1980

WELL NO. D.O.E 85-18 FIELD BEDOUAWE CONTRACTOR KENAI 7

DEPTH 4849 BIT NO. 19 8 3/4 STC F5 306 38 16116/6
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM 4653 FT. TO 4849 FT. 196 FT. IN 24 HRS. 35 1000# 45-50 RPM
WT. ON BIT SPEED

DRILLING SETUP 8 3/4 bit, Junk sub, 3 point reamer, lead collar stab, monel stab, 1-DC stab, 1-DC, stab, 2 DC, stab, 2 DC, stab, 2 DC stab, 10-HW, Jars, 10 HW,

LAST CASING 9 5/8 AT 2937 FORMATION Valmy PUMP PRESS. _____ PSI@ _____ SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL 8.9 PCF 48 SEC. 18 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

8 #/100 SQ. FT. 6.8 CC 14.1 CC 2.132 4 % _____ %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

160 PPM _____ % 60 PPM 9.2 _____
CHLORIDE OIL CA pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL Drill 8 3/4 hole from 4653' to 4849' drilling ahead at 6 AM

CUMULATIVE MUD COST 83,880

CUMULATIVE DAILY COST 1,425,844

DRILLING REPRESENTATIVE BRR/CF

RIG PHONE NO. 702

DAILY PROGRESS OF DRILLING WELLS Pre-562

DRILLING DAYS 83 CUM. ROTATING HRS. 540 5-15 1980

WELL NO. D.O.E. 85-18 FIELD BEOWAUJE CONTRACTOR KENAI # 7

DEPTH 4985 BIT NO. 19 8 3/4 STC F5 317 39 1/2 16/16/16 6-5 IG
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. 20 8 3/4 STC T4 125 9 16/16/16
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM 4849 FT. TO 4985 FT. 136 FT. IN 10 1/2 HRS. 35 1000# 45-50 RPM
WT. ON BIT SPEED

DRILLING SETUP 8 3/4' bit, Junk sub, 3pt. reamer, lead collar, stab, manel, stab, 1-D.C., Stab, 1-DC, Stab, 2 D.C, Stab, 2 D.C., Stab, 2DC, Stab, 10 HW, Jars, 10 HW.

LAST CASING 9 5/8 AT 2937' FORMATION Valmy PUMP PRESS. 800 PSI@ 52 SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID Gel 8.9 PCF 41 SEC. 15 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

7 #/100 SQ. FT. 6.6 CC 13.9 CC 2.12 4 % NIL %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

PPM _____ % 80 PPM 9.5 ALK _____ GALS (% MIN.) _____ OTHER REMARKS
CHLORIDE OIL CA PH

SURVEYS 4945' N 32 E 2° 45'

DETAIL DRILL 8 3/4' HOLE FROM 4849 TO 4860' CIRCULATE P.C.H.
CHANGE BITS. STAGE IN HOLE AT 2900, 3900, 4860'. DRILL
8 3/4" HOLE FROM 4860 TO 4985' DRILLING AHEAD AT 6 A.M.

CUMULATIVE MUD COST 84483 CUMULATIVE DAILY COST 1442.076 DRILLING REPRESENTATIVE BRR/CF
 RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELLS Pro-562

DRILLING DAYS 84 CUM. ROTATING HRS. 555 5-16 1980

WELL NO. D.O.E. 85-18 FIELD BEDWAUWE CONTRACTOR KENDAL #7

DEPTH <u>5111</u>	BIT NO. <u>20</u>	SIZE <u>8 3/4"</u>	MAKE-TYPE <u>STC FA</u>	FEET <u>251</u>	HOURS <u>23</u>	JETS <u>16/10/2</u>	CONDITION <u>3/10/10</u>
	BIT NO. <u>21</u>	SIZE <u>8 3/4</u>	MAKE-TYPE <u>STC FS</u>	FEET <u>40</u>	HOURS	JETS <u>11</u>	CONDITION
FROM <u>4985</u>	FT. TO <u>5111</u>	FT. <u>126</u>	IN <u>14</u>	HRS. <u>35</u>	1000#	<u>45-50</u>	RPM
				WT. ON BIT		SPEED	

DRILLING SETUP _____

LAST CASING 95/8 AT 2937 DEPTH FORMATION _____ PUMP PRESS. _____ PSIG _____ SPM

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID <u>BARDID</u>	MUD CO. _____	TYPE <u>GEL</u>	WEIGHT <u>8.9</u>	PCF _____	FUNNEL VISC. <u>4.0</u>	SEC. <u>14</u>	PLASTIC VISC. _____	CPS _____
<u>7</u>	#/100 SQ. FT. <u>7.5</u>	CC _____	<u>14.8</u>	CC _____	<u>2.02</u>	<u>4</u>	% _____	% _____
YIELD PT. _____	WATER LOSS _____	HT-HP WATER LOSS _____	FILTER CAKE _____	SOLIDS _____	SAND _____	OTHER REMARKS		
<u>160</u>	PPM _____	% _____	<u>8.0</u>	PPM _____	<u>9.5</u>	OTHER REMARKS		
CHLORIDE _____	OIL _____	CA _____	pH _____	ALK _____	GALS (% MIN.) _____	OTHER REMARKS		

SURVEYS _____

DETAIL 8 3/4 HOLE 4985-5111 CIRCULATE P.O.H. CHANGE BIT
R.L.H. SERVICE DRILL COLLARS R.L.H. AT 6:11

CUMULATIVE MUD COST 85050 CUMULATIVE DAILY COST 1453.077 DRILLING REPRESENTATIVE BREICE
 RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELLS Pro-562

DRILLING DAYS 85 CUM. ROTATING HRS. 355 5-17 1980

WELL NO. DOE 85-18 FIELD BEOUWALIE CONTRACTOR KENAI 7

DEPTH 5111 BIT NO. 21 8 3/4 SMITH ES
SIZE MAKE-TYPE FEET HOURS JETS CONDITION
BIT NO. _____ SIZE MAKE-TYPE FEET HOURS JETS CONDITION
FROM _____ FT. TO _____ FT. _____ FT. IN _____ HRS. _____ 1000# _____ RPM
WT. ON BIT SPEED

DRILLING SETUP _____

LAST CASING 9 5/8 AT 2937 FORMATION _____ PUMP PRESS. _____ PSIG _____ SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BARDID GEL _____ PCF _____ SEC. _____ CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

YIELD PT. #/100 SQ. FT. _____ CC _____ CC _____ % _____ %
WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

CHLORIDE PPM _____ OIL % _____ CA PPM _____ pH _____ ALK _____ GALS (% MIN.) _____ OTHER REMARKS

SURVEYS _____

DETAIL R.I.H. TO 500' RIG DOWN FOR REPAIR TO DRAW WORKS
CLUTCH REPAIR. R.I.H. TO 2000' RIG DOWN FOR REPAIRS TO
CLUTCH. RIG DOWN AT 6:AM

CUMULATIVE MUD COST 85,050 CUMULATIVE DAILY COST 1,457,884 DRILLING REPRESENTATIVE BRK/CF
RIG PHONE NO. 702 635-5556

DAILY PROGRESS OF DRILLING WELLS Pro-562

DRILLING DAYS 86 CUM. ROTATING HRS. 555 5-18 1980

WELL NO. D.O.E 85-18 FIELD BEDWAVE CONTRACTOR KENAI 7

DEPTH 511 BIT NO. 21 SIZE 8 5/8 MAKE-TYPE STC F5 FEET _____ HOURS _____ JETS 11 CONDITION _____

BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 11 CONDITION _____

FROM _____ FT. TO _____ FT. IN _____ HRS. _____ 1000# _____ RPM _____
WT. ON BIT _____ SPEED _____

DRILLING SETUP _____

LAST CASING 9 5/8 AT 2937 FORMATION _____ PUMP PRESS. _____ PSIG _____ SPM _____
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL MUD CO. TYPE WEIGHT PCF FUNNEL VISC. SEC. PLASTIC VISC. CPS

YIELD PT. #/100 SQ. FT. WATER LOSS CC HT-HP WATER LOSS CC FILTER CAKE SOLIDS SAND % %

CHLORIDE PPM OIL % CA PPM pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL RIG DOWN 24 HRS FOR CLUTCH REPAIR.

CUMULATIVE MUD COST 85,050 CUMULATIVE DAILY COST 146,0549 DRILLING REPRESENTATIVE B.R.R. / K

RIG PHONE NO. 702 635-5556

DAILY PROGRESS OF DRILLING WELLS Pro-562

DRILLING DAYS 87 CUM. ROTATING HRS. 555 5-19- 19 80

WELL NO. D.O.E 85-18 FIELD BEDONAWF CONTRACTOR KENAI 7

DEPTH 5111 BIT NO. 21 SIZE 8³/₄ MAKE-TYPE STCFS FEET _____ HOURS _____ JETS 11 CONDITION _____

BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 11 CONDITION _____

FROM _____ FT. TO _____ FT. IN _____ HRS. 1000# _____ WT. ON BIT _____ SPEED _____ RPM _____

DRILLING SETUP _____

LAST CASING 9⁵/₈ AT 2937 FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM _____
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID Gel _____ PCF _____ SEC. _____ CPS _____
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

YIELD PT. #/100 SQ. FT. WATER LOSS CC HT-HP WATER LOSS CC FILTER CAKE 132 SOLIDS % SAND %

CHLORIDE PPM OIL % CA PPM pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL BIG DOWN 24 HRS REPAIRING DRAWWORKS.

CUMULATIVE MUD COST 851050

CUMULATIVE DAILY COST 14441092

DRILLING REPRESENTATIVE BRR/CF

RIG PHONE NO. 702 635-5556

DAILY PROGRESS OF DRILLING WELLS No-562

DRILLING DAYS 88 CUM. ROTATING HRS. 555 5-20 1980

W. L. NO. D.O.F 85-18 FIELD BEDWAWE CONTRACTOR KENAI 7

DEPTH <u>5111</u>	BIT NO. <u>21</u>	<u>8 3/4</u>	<u>STC F5</u>			<u>11</u>	
		SIZE	MAKE-TYPE	FEET	HOURS	JETS	CONDITION
	BIT NO. _____	SIZE	MAKE-TYPE	FEET	HOURS	JETS	CONDITION
FROM _____	FT. TO _____	FT.	FT.	IN _____	HRS.	1000#	RPM
				WT. ON BIT		SPEED	

DRILLING SETUP _____

LAST CASING 9 5/8 AT 2937 FORMATION _____ PUMP PRESS. _____ PSIG _____ SPM

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL _____ PCF _____ SEC. _____ CPS

MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

YIELD PT. #/100 SQ. FT. WATER LOSS CC HT-HP WATER LOSS CC FILTER CAKE SOLIDS SAND %

CHLORIDE PPM OIL % CA PPM pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL RIG DOWN 19 HRS. REPAIRING DRAWWORKS CLUTCH. P.E.H.
SERVICING DRILLPIPE HEAVY WEIGHT AND DRILL COLLARS AT 6:AM.

CUMULATIVE MUD COST 85,050 CUMULATIVE DAILY COST 1,467,926 DRILLING REPRESENTATIVE BRR/RJA RIG PHONE NO. 702

DAILY PROGRESS OF DRILLING WELLS Pro-562

DRILLING DAYS 89 CUM. ROTATING HRS. 570 5-21 1980

WELL NO. D.O.E 85-18 FIELD BEDWAWE CONTRACTOR KENAI #7

DEPTH 5227 BIT NO. 21 SIZE 8 3/4 MAKE-TYPE SMITH FS FEET 116 HOURS 15 JETS 16 1/16 CONDITION
BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS _____ CONDITION
FROM 5111 FT. TO 5227 FT. 116 FT. IN 15 HRS. 25 1000# 45-50 RPM
WT. ON BIT _____ SPEED _____

DRILLING SETUP 8 3/4 BIT, JUNK SUB, 3PT. REAMER, LEAD COLLAR, STAB, MONEL, STAB, 1DC, STAB, 1-DC, STAB, 2DC, STAB, 2-D.C., STAB, 2 D.C. STAB, 10 1/2 H.W. JARS, 10-H.W.

LAST CASING 7 5/8 AT 2937 FORMATION _____ PUMP PRESS. 800 PSIG 52 SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID MUD CO. GEL TYPE 9.0 WEIGHT PCF 40 FUNNEL VISC. SEC. 13 PLASTIC VISC. CPS
6 #/100 SQ. FT. 6.2 CC 14.2 CC 2.32 4 % 160 PPM 100 PPM 9.1 ALK GALS (% MIN.)
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND
CHLORIDE OIL CA pH OTHER REMARKS

SURVEYS _____

DETAIL TEST B.O.P.E. R.I.H. CIRCULATE AT 3000', 4000', 4500', 5111'. DRILL 8 3/4" HOLE FROM 5111 - 5227 DRILLING AHEAD AT 6AM

MUD TEMP IN 140° OUT 185°
CODLEIZ ON

CUMULATIVE MUD COST 85,954 CUMULATIVE DAILY COST 1,478,360 DRILLING REPRESENTATIVE BRB/CF

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELL Pro-562

DRILLING DAYS 90 CUM. ROTATING HRS. 577 5-22 1980

WELL NO. D.O.E 85-18 FIELD BEOWAWE CONTRACTOR KENAI 7

DEPTH 5318 BIT NO. 21 SIZE 8 3/4 MAKE-TYPE STC F5 FEET 207 HOURS 22 JETS 164616 CONDITION _____
 BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 11 CONDITION _____
 FROM 5222 FT. TO 5318 FT. 91 FT. IN 7 HRS. 35 WT. ON BIT 1000# 45-50 SPEED RPM

DRILLING SETUP _____

LAST CASING 9 5/8 AT 2937 FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM
 SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID Gel 9.1 PCF 43 SEC. 19 CPS
 MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.
10 #/100 SQ. FT. 7 CC 14.8 CC 2.32 5 % 1/4 %
 YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND
180 PPM OIL % 100 PPM 9.5 pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL Drilled 8 3/4 hole from 5227' to 5260' work on pumps, drill ahead to 5318' bit plugged unable to circulate. P.O.H. to 4400' bit unplugged worked on pump able to circulate at 4400'. R.I.H. to 4700 circulate R.I.H. to 5318 at 6AM

Total down time 8 1/2 hrs Rig repair

CUMULATIVE MUD COST 86,628 CUMULATIVE DAILY COST 1,485,697 DRILLING REPRESENTATIVE B.R/CF
 RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELL Pro-562

DRILLING DAYS 91 CUM. ROTATING HRS. 597 5-23 1980

NO. D.O.E. 85-18 FIELD BEQUAJE CONTRACTOR ATLANTIC

DEPTH 5502 BIT NO. 21 8 3/4 STC FS 391 42 16/16/16
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM 5318 FT. TO 5502 FT. 184 FT. IN 20 HRS. 35 1000# 45 RPM
WT. ON BIT SPEED

DRILLING SETUP BIT, JUNKSUB, 3 PT. REAMER, LEAD COLLAR STAB, MONEL STAB, 4-D.C. STAB
1-DC STAB, 2 DC STAB, 2 DC STAB, 2 DC STAB, 10 HW, JARS, 10 HW.

LAST CASING 9 5/8 AT 2937 FORMATION UDLMY PUMP PRESS. _____ PSI@ _____ SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL 9.1 PCF 45 SEC. 18 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

10 #/100 SQ. FT. 7.0 CC 14.9 CC 2.32 5 % 1/4 %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

160 PPM % 100 PPM 9.5 _____ _____ _____
CHLORIDE OIL CA PH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS 5370' 2°N 30°E

DETAIL Drill 8 3/4 hole from 5318' to 5370' circulate survey drill
ahead to 5502 drilling ahead at 6AM.

CUMULATIVE MUD COST 87,954 CUMULATIVE DAILY COST 1,496,517 DRILLING REPRESENTATIVE BRR/CF
 RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELL Pro-562

DRILLING DAYS 92 CUM. ROTATING HRS. 600 May 24 19 80

WELL NO. D.O.E. 85-18 FIELD Beowawe CONTRACTOR Kenai #7

DEPTH 5528 BIT NO. 21 8 3/4" Smith F5 417 45 161616 5-5-I
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. 22 8 3/4" Smith F57 11
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM 5502 FT. TO 5528 FT. 26 FT. IN 3 HRS. 35 1000# 45 RPM
WT. ON BIT SPEED

DRILLING SETUP _____

LAST CASING 9 5/8" AT 2937 FORMATION Valmy PUMP PRESS. _____ PSI@ _____ SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID Baroid Gel 9.1 PCF 43 SEC. 17 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

8 #/100 SQ. FT. 7.2 CC 15.2 CC 2 1/2 5 % 1/4 %
YIELD PT. WATER LOSS HT+HP WATER LOSS FILTER CAKE SOLIDS SAND

180 PPM _____ % _____ PPM 9.8 _____ _____ _____
CHLORIDE OIL CA pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL Drld 8 3/4" hole f/5502' t/5528'. POH. Magnaflux d.c. & stab. L/D 1 cracked d.c.,
two stab, and junk sub. RIH w/new bit @ 6 AM.

CUMULATIVE MUD COST 87,954

CUMULATIVE DAILY COST 1,514,891

DRILLING REPRESENTATIVE BRF/RJA

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELL Pro-562

DRILLING DAYS 93 CUM. ROTATING HRS. 617 May 25 19 80

L NO. D.O.E. 85-18 FIELD Beowawe CONTRACTOR Kenai #7

DEPTH <u>5672</u>	BIT NO. <u>22</u>	SIZE <u>8 3/4"</u>	MAKE-TYPE <u>Smith F57</u>	FEET <u>144</u>	HOURS <u>17</u>	JETS <u>1 1</u>	CONDITION
FROM <u>5528</u> FT. TO <u>5672</u> FT.		FT. <u>144</u> FT.	IN <u>17</u> HRS.	WT. ON BIT <u>35</u>	1000#	SPEED <u>45</u>	RPM

DRILLING SETUP _____

LAST CASING 9 5/8" AT 2937 DEPTH FORMATION Valmy PUMP PRESS. _____ PSI@ _____ SPM

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID <u>Baroid</u>	MUD CO.	TYPE <u>Gel</u>	WEIGHT <u>9.2</u>	PCF	FUNNEL VISC. <u>46</u>	SEC. <u>19</u>	PLASTIC VISC. CPS
<u>11</u>	#/100 SQ. FT.	<u>7.6</u>	CC	<u>15.2</u>	CC	<u>2 1/2</u>	<u>5</u> % <u>1/4</u> %
YIELD PT.		WATER LOSS		HT-HP WATER LOSS		FILTER CAKE	SOLIDS SAND
<u>180</u>	PPM	<u>20</u>	PPM	<u>10.0</u>			
CHLORIDE	OIL	CA	pH	ALK	GALS (% MIN.)	OTHER REMARKS	

SURVEYS _____

DETAIL Drl'd 8 3/4" hole f/5528' t/5672'. Drlg ahead @ 6 AM.

Temp in: 130°

Temp out: 163°

CUMULATIVE MUD COST 87,954 CUMULATIVE DAILY COST 1,523,588 DRILLING REPRESENTATIVE BRR/RJA

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELL Pro-562

DRILLING DAYS 94 CUM. ROTATING HRS. 640 May 26 19 80

WELL NO. D.O.E. 85-18 FIELD Beowawe CONTRACTOR Kenai #7

DEPTH 5850 BIT NO. 22 8 3/4" S-F 57 322 40 11
SIZE MAKE-TYPE FEET HOURS JETS CONDITION
BIT NO. SIZE MAKE-TYPE FEET HOURS JETS CONDITION
FROM 5672 FT. TO 5850 FT. 178 FT. IN 23 HRS. 35 1000# RPM
WT. ON BIT SPEED

DRILLING SETUP _____

LAST CASING 9 5/8" AT 2937 FORMATION Valmy PUMP PRESS. _____ PSI@ _____ SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID Baroid Gal 8.8 PCF 40 SEC. 15 CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.
8 #/100 SQ. FT. 7.6 CC 15.2 CC 2 1/32 4 % 1 %
YIELD PT. WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND
180 PPM 100 PPM 9.8
CHLORIDE OIL CA pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL Drld 8 3/4" hole f/5672' t/5850'. Drlg ahead @ 6 AM.

Temp in 133°; Temp out 165°

CUMULATIVE MUD COST 89,739 CUMULATIVE DAILY COST 1,534,158 DRILLING REPRESENTATIVE BRR/RJA

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELL Pro-562

DRILLING DAYS 95 CUM. ROTATING HRS. 652 May 27 19 80

WELL NO. D.O.E. 85-18 FIELD Beowawe CONTRACTOR Kenai #7

DEPTH 5927 BIT NO. 22 8 3/4" S-F57 399 52 11
SIZE MAKE-TYPE FEET HOURS JETS CONDITION

BIT NO. _____ SIZE MAKE-TYPE FEET HOURS JETS CONDITION

FROM 5850 FT. TO 5927 FT. 77 FT. IN 12 HRS. 35 1000# 45 RPM
WT. ON BIT SPEED

DRILLING SETUP 8 3/4" bit, 3 pt. reamer, lead collar, stab, monel, stab, one d.c., stab, one d.c. stab, 2 d.c.'s, stab, 2 d.c.'s, stab, 2 d.c.'s, stab, 10 H.W., jars, 10 H.W.

LAST CASING 9 5/8" AT 2937 FORMATION Valmy PUMP PRESS. _____ PSI@ _____ SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID Baroid Gel _____ PCF _____ SEC. _____ CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

YIELD FT. _____ #/100 SQ. FT. _____ CC _____ CC _____ % _____ %
WATER LOSS HT-HP WATER LOSS FILTER CAKE SOLIDS SAND

CHLORIDE _____ PPM _____ % _____ PPM _____ pH _____ ALK _____ GALS (% MIN.) _____ OTHER REMARKS

SURVEYS 5916' 4° N32E

DETAIL Drld 8 3/4" hole f/5850' t/5927' T.D. Circulate bottoms up. Survey. Wiped hole to shoe. Circulate for logs @ 6 AM.

CUMULATIVE MUD COST 89,739

CUMULATIVE DAILY COST 1,512,855

DRILLING REPRESENTATIVE BRR/RJA

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELLS Pro-562

DRILLING DAYS 96 CUM. ROTATING HRS. 652 5-28 19 80

WELL NO. DOE 85-18 FIELD BEOUAWE CONTRACTOR KENAI 7

DEPTH 5927' BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 11 CONDITION _____
BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 11 CONDITION _____
FROM _____ FT. TO _____ FT. IN _____ FT. IN _____ HRS. 1000# _____ WT. ON BIT _____ SPEED _____ RPM _____

DRILLING SETUP _____

LAST CASING 9 5/8 AT 2937 FORMATION Volmy PUMP PRESS. _____ PSI@ _____ SPM _____
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BARDID GEL PCF _____ SEC. _____ CPS _____
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

YIELD PT. #/100 SQ. FT. WATER LOSS CC HT-HP WATER LOSS CC 132 % SAND %
FILTER CAKE SOLIDS

CHLORIDE PPM OIL % CA PPM pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL P.O.H. Rig up Schlumberger run DISFL / Temp Survey
Sonic-Caliper FDC-CNL-GR at 6AM

CUMULATIVE MUD COST 89739 CUMULATIVE DAILY COST 1,550,870 DRILLING REPRESENTATIVE BRR-1 CF

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELL Pro-562

DRILLING DAYS 97 CUM. ROTATING HRS. 652 5-29 1980

WELL NO. D.O.E 85-18 FIELD BEDWAWE CONTRACTOR KENVAL #7

DEPTH 5927' BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 11 CONDITION _____

BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 11 CONDITION _____

FROM _____ FT. TO _____ FT. IN _____ HRS. 1000# _____ RPM _____

WT. ON BIT _____ SPEED _____

DRILLING SETUP _____

LAST CASING 9 5/8 AT 2937 FORMATION UDLMY PUMP PRESS. _____ PSI@ _____ SPM _____

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL _____ PCF _____ SEC. _____ CPS _____

MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

YIELD PT. #/100 SQ. FT. WATER LOSS CC HT-HP WATER LOSS CC FILTER CAKE SOLIDS SAND

CHLORIDE PPM OIL % CA PPM pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL Schlumberger completed FDC-CNL-GR and ran dipmeter Rig down loggers. Rig up to lay down drill string. Laying down drill pipe at 6AM

CUMULATIVE MUD COST 89,739 CUMULATIVE DAILY COST 1,580,986 DRILLING REPRESENTATIVE BRR/CF

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELLS Pro-562

DRILLING DAYS 98 CUM. ROTATING HRS. 652 5-30 1980

WELL NO. D.O.E 85-18 FIELD BEOWALIE CONTRACTOR KENAI 7

DEPTH 5927 BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 11 CONDITION _____
BIT NO. _____ SIZE _____ MAKE-TYPE _____ FEET _____ HOURS _____ JETS 11 CONDITION _____
FROM _____ FT. TO _____ FT. IN _____ HRS. 1000# _____ RPM
WT. ON BIT _____ SPEED _____

DRILLING SETUP _____

LAST CASING 9 5/8 AT 2937 FORMATION _____ PUMP PRESS. _____ PSI@ _____ SPM
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BARDID GEL MUD CO. TYPE WEIGHT PCF FUNNEL VISC. SEC. PLASTIC VISC. CPS

YIELD PT. #/100 SQ. FT. WATER LOSS CC HT-HP WATER LOSS CC FILTER CAKE SOLIDS SAND % %

CHLORIDE PPM OIL % CA PPM pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL COMPLETED LAYING DOWN DRILL PIPE, LAY DOWN DRILL COLLARS AND KELLY. REMOVED B.O.P.E. REPLACED MUD CROSS WITH TUBING HEAD AT 6:AM.

CUMULATIVE MUD COST 89,739 CUMULATIVE DAILY COST 1,588.187 DRILLING REPRESENTATIVE BRR/CF

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELLS # 562

DRILLING DAYS 99 CUM. ROTATING HRS. 652 5-31 19 80

WELL NO. DOE 85-18 FIELD BEDWAWE CONTRACTOR KENNAI 7

DEPTH <u>5927</u>	BIT NO. _____	SIZE _____	MAKE-TYPE _____	FEET _____	HOURS _____	JETS <u>11</u>	CONDITION _____
	BIT NO. _____	SIZE _____	MAKE-TYPE _____	FEET _____	HOURS _____	JETS <u>11</u>	CONDITION _____
FROM _____	FT. TO _____	FT. _____	FT. _____	IN _____	HRS. _____	1000# _____	RPM _____
DRILLING SETUP _____				WT. ON BIT _____		SPEED _____	

LAST CASING 9 5/8 AT 2937 FORMATION _____ PUMP PRESS. _____ PSIG _____ SPM _____

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID GEL MUD CO. _____ TYPE _____ WEIGHT _____ PCF _____ FUNNEL VISC. _____ SEC. _____ PLASTIC VISC. _____ CPS _____

YIELD PT. _____	#/100 SQ. FT. _____	CC _____	HT-HP WATER LOSS _____	CC _____	<u>132</u>	FILTER CAKE _____	SOLIDS _____	% _____	SAND _____	% _____
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CHLORIDE _____	PPM _____	OIL _____	% _____	CA _____	PPM _____	pH _____	ALK _____	GALS (% MIN.) _____	OTHER REMARKS _____
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SURVEYS _____

DETAIL REPLACED MUD CROSS WITH TUBING HEAD. NIPPLE UP
BOPE CHANGE PIPE RAMS FOR 2 7/8" TUBING AT 6:AM.

CUMULATIVE MUD COST 89,739 CUMULATIVE DAILY COST 1,595,388 DRILLING REPRESENTATIVE BRR/RA

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELLS 10-562

DRILLING DAYS 100 CUM. ROTATING HRS. 1052 6-1 19 80

WELL NO. DOE 85-18 FIELD BEDOUANE CONTRACTOR KENAI 7

DEPTH <u>5927</u>	BIT NO. _____	SIZE _____	MAKE-TYPE _____	FEET _____	HOURS _____	JETS <u>11</u>	CONDITION _____
	BIT NO. _____	SIZE _____	MAKE-TYPE _____	FEET _____	HOURS _____	JETS <u>11</u>	CONDITION _____
FROM _____	FT. TO _____	FT. _____	FT. _____	IN _____	HRS. _____	1000# _____	RPM _____
				WT. ON BIT _____	SPEED _____		

DRILLING SETUP _____

LAST CASING 9 5/8 AT 2937 FORMATION _____ PUMP PRESS. _____ PSIG _____ SPM _____

SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BARDID WATER _____ PCF _____ SEC. _____ CPS

MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

YIELD PT. _____	#/100 SQ. FT. _____	CC _____	HT-HP WATER LOSS _____	CC _____	FILTER CAKE <u>132</u>	% SOLIDS _____	% SAND _____
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CHLORIDE _____ PPM	OIL _____ %	CA _____ PPM	pH _____	ALK _____	GALS (% MIN.) _____	OTHER REMARKS _____
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SURVEYS _____

DETAIL COMPLETED CHANGING PIPE RAMS FOR 2 7/8 TUBING, TEST
B.O.P.E., RIG UP POWER TUBING TONGS, RAN 187 JTS OF 2 7/8 6 1/2 #
N-80 ATLAS BRADFORD DSS TUBING. CHANGE OVER TO FORMATION
WATER THROUGH TUBING AT 3000' + 5900' CIRCULATE BOTTOMS
UP. LANDED TUBING TUBING IN TUBING HEAD. B & W FLOAT SHOE
AT 5922' REMOVING B.O.P.E. AT 6:AM.

CUMULATIVE MUD COST 89,739 CUMULATIVE DAILY COST 1,629,244 DRILLING REPRESENTATIVE BRR / RA

RIG PHONE NO. _____

DAILY PROGRESS OF DRILLING WELLS No. 562

Return to 2800

DRILLING DAYS 101 CUM. ROTATING HRS. 652 6-2 19 80

NO. D.D.E 85-18 FIELD BEOUWAWE CONTRACTOR KENAI 7

DEPTH <u>5927</u>	BIT NO. _____	SIZE _____	MAKE-TYPE _____	FEET _____	HOURS _____	JETS <u>11</u>	CONDITION _____
	BIT NO. _____	SIZE _____	MAKE-TYPE _____	FEET _____	HOURS _____	JETS <u>11</u>	CONDITION _____
FROM _____	FT. TO _____	FT. _____	FT. _____	IN _____	HRS. _____	1000# _____	RPM _____
				WT. ON BIT _____	SPEED _____		

DRILLING SETUP _____

LAST CASING 95/8 AT 2937 FORMATION _____ PUMP PRESS. _____ PSIG _____ SPM _____
SIZE DEPTH

PUMP OUTPUT _____ GPM ANNULAR VEL. _____ FT./MIN. (D.P.) NOZZLE VEL. _____ FT./SEC.

DRLG. FLUID BAROID WATER _____ PCF _____ SEC. _____ CPS
MUD CO. TYPE WEIGHT FUNNEL VISC. PLASTIC VISC.

YIELD PT. @/100 SQ. FT. _____ CC WATER LOSS _____ CC HT-HP WATER LOSS _____ CC FILTER CAKE 132 SOLIDS % SAND %

CHLORIDE PPM OIL % CA PPM pH ALK GALS (% MIN.) OTHER REMARKS

SURVEYS _____

DETAIL REMOVE B.O.P.E. INSTALLED 3" POWER-R-SEAL GATE VALVE ON TUBING HEAD. RELEASED RIG AT 2:PM 6-1-1980

CUMULATIVE MUD COST 89,739

CUMULATIVE DAILY COST 11663,938

DRILLING REPRESENTATIVE BRR/BA

RIG PHONE NO. _____