GL04734-2

NL BAROID PETROLEUM SERVICES

GEOTHERMAL LOG
BAROID LOGGING SYSTEMS

WELL STE AMBOAT SPRINGS ST-10 COMPANY GULF MINERAL RESOURCES LOCATION WASHOE CO., NEVADA

LEGEND

NB NEW BIT NCB NEW CORE BIT TG TRIP GAS NR NO RETURNS EL ELECTRIC LOG CO CIRCULATE OUT RETURNS CG CONNECTION GAS

DRILLING RATE (FT PER HR / X MIN PER FT)	LITHOLOGY	DEPTH	TEMPERATURE °F (IN / OUT)	CONDUCTIVITY MUD (IN / OUT)	BACKGROUND GAS HOT WIRE UNITS	H_2S PPM	CO_2 PPM	REMARKS
SPUD WELL 6-16-80 LOGGERS ON 4:00 P.M.			DRILLING CONTRACTOR- AQUA DRILLING CO. RIG NO. 2					
NB 1 HTC J-7 8 1/2"		0						ALLUVIUM-STREAM & LAKE SEDS, WELL SRT. I.P. PRED. GRANITE SAND WITH OCCAS. BSLTIC-ANDESITE FRAGS
			NO TEMPERATURES- SURFACE HOLE DRILLED WITH AIR					
		100						GRANITE/SANDS
								GRANITE, OR GRANODIORITE WHT, MED SFT, HORNBLENDE, BIOT, FLDSPR ALT. TO CLY
		200						GRANODIORITE, WHT, FN-MED GRND, HORNBLENDE, BIOT. PHENOS.
SET 7" CASING- 312' BN 1- 312' NB2 HTC J-33 6-17-80 6 1/4" J. OPEN IN 312'		300	DRILLING WITH MUD- TEMP. PANEL IN OPERATION					GRANODIORITE, A/A MED. HRD.
					WT 8.4 VIS 32 FIL 28 PH 11.0 CL 450			RUBBLE ZONE, GRAN. SANDS, OXIDIZED I.P.
6-19-80 SET CEMENT PLUG-382'		400	LOST CIRCULATION- 382'					GRANODIORITE, A/A
								GRANODIORITE, A/A
		500						METASEDIMENTS- QTZITE & ARGILLITE LT-DK GY, BLK, V. FN. GRND, V. HRD. TR. EPIDOTE
					WT 8.5 VIS 32 FIL 22.4 PH 11.5 CL 450			GRANODIORITE, WHT, MED. HRD, QTZ/ HORN./BIOT. FELD. ALT. TO CLY
		600						
6-20-80								GRANODIORITE, A/A
BN2 STC 26 1/2 HR. NB3 HTC J-55 J. OPEN IN 690'		700						
					WT 8.9 VIS 39 FIL 22.4 PH 8.5 CL 460			GRANODIORITE, LT GY TO WHT, FN GRND, MED SFT QTZ/HORN/BIOT. ABND. CLY ALT.
6-21-80		800						GRANODIORITE, A/A, W/ INCR CLY ALT.
BN3 140' 9 HR. NB4 STC F-2 J. OPEN IN 930'					WT 9.1 VIS 39 FIL 16 PH 10.5 CL 168			METASEDIMENTS- ARGILLITE & QTZITE, DK GY TO BLK, AMORPH. TO MICROXTLN, HRD
		900						METASEDIMENTS, A/A, LT. GY-GN, TR CHLOR. ALT.
X 10 6-22-80								
X 10					VIS 35 WT 8.7			METASEDS, PRED. QTZITE, LT GY-GN, W/ MNR. ARGILLITE, BLK, V. FN GRND TO MICROXTLN I.P., V. SILICIOUS
DRILL RATE SCALE CHANGE 2 4 6 8 5 10 15 20								
6-23-80		1000			RPM 85 SPM 45 PP 140			
BN4 203' 42 HR. 10 10 1/4 6-24-80 RR BN3 IN 1033' ADD 155' OF D.C. TO BHA								METASEDS A/A, PRED. ARGILLITE, W/ MNR QTZITE TR. CALC.
					VIS 37 WT 8.9			
X 10 6-25-80 BN3 67' 31 HR 10 10 1/4 NB6 STC F-4 IN 1100 94' OF D.C. IN BHA		1100			RPM 85 SPM 45 PP 120			METASEDIMENTS, A/A, W/ TR. EPID.
6-26-80			LOST CIRC.- 1122'					
					VIS 36 WT 8.9			
RIG SERVICE		1200						METASEDS, PRED. ARGILLITE, W/ MNR QUARTZITE BLK, HRD, MICROXTN, MNR CLY ALT.
6-27-80								
BN6 165' 31 1/4 HR. NB7 HTC J-33 J. OPEN IN 1265'			LOST 25 BBL MUD AT 1254'		VIS 36 WT 8.9 RPM 85 SPM 45 PP 120			
		1300						METASEDS, QTZITE & ARGILLITE, DK GY, INCR. CLY ALT, ABND. EPID., TR. CALC.
6-28-80			LOST CIRC- 1341'		VIS 39 WT 8.9			METASEDS, A/A, HVY CLY ALT, INCR. CALC, DECR. EPID. TR. PYRRHOTITE
		1400	LOSING MUD- 688L/HR.		WOB 9-11 RPM 85 SPM 45 PP 140			
6-29-80								METASEDS, A/A, DECR. CLY ALT.
BN7 169' 36 HR. NB 8 HTC J-33								METASEDS, PRED. QTZT, LT GY-BRN, MAS-MICROXLN, V HD, ABNT DISM PYRT-PYRRHT, TR BORNITE VNS, TR EPID., CALC FRAC FL
6-30-80		1500			WOB 9 RPM 80 SPM 50 PP 120			
			LOSING MUD AT 1525' ADD LCM		VIS 42 WT 8.6			METASEDS, ARGLT/ PHYLT, GY-BLK, V. SIL, V HD, BRIT, BIOT I.P., DISM PYRT, TR EPID, ABNT CALC FRAC FL, MNR QTZT A/A
DRLG RATE MIN/FT 5 10 15 20			TEMP °F IN / OUT 60 80 100 110	CONDUCTIVITY	HOT WIRE GAS UNITS 10 20	H_2S PPM 5		
		1600			WOB 9 RPM 86 SPM 45 PP 100			METASEDS, ARGLT/ PHYLT A/A, INCR QTZT, LT BRN-GY, MICROXLN-MAS, DISM PYRT-CHALCOPYRT, TR CLY ALTR
7-1-80								
RIG SERVICE					VIS 38 WT 8.6			
BN8 281' 42 1/2 HR. NB9 HTC J-33		1700						METASEDS, ARGLT/ PHYLT, BLK-BRN-DK GY, SIL, BRIT HD, DISM PYRT, BIOT, CALC FRAC FL, OCC QTZT.
7-2-80					WOB 9 RPM 70 SPM 62 PP 175			
			BUILD MUD VOL.					
		1800			W 8.9 V 39 F 20 PH 9.5 CL 300			METASEDS, A/A, INCR QTZT, TR CLY ALT.
RIG SERVICE								
			ADD WATER TO LOWER MUD WT.		WOB 9 RPM 80 SPM 45 PP 125			METASEDS, PHYLT/ ARGLT, MNR QTZT, A/A, TR CHLORITE, ABNT CHALCOPYT & PYRT
7-3-80		1900			WT 8.1 VIS 40			
TD AT 1923 FT								