

COMPANY KEICHHOLD ENERGY CORP.
AREA NEHALEM BASIN
LOCATION 863'S & 1318'E of NW CORN SEC 10; T6N; R5W NBM
COUNTY, STATE COLUMBIA CO., OREGON

LITHOLOGY SYMBOLS
 [] Sand
 [] Silt
 [] Silty Sand
 [] Silty Clay
 [] Clay
 [] Shale
 [] Calc. Sand
 [] Calc. Silt
 [] Calc. Silty Sand
 [] Calc. Silty Clay
 [] Calc. Clay
 [] Calc. Shale
 [] Calc. G. Sand
 [] Calc. G. Silt
 [] Calc. G. Silty Sand
 [] Calc. G. Silty Clay
 [] Calc. G. Clay
 [] Calc. G. Shale
 [] Calc. G. G. Sand
 [] Calc. G. G. Silt
 [] Calc. G. G. Silty Sand
 [] Calc. G. G. Silty Clay
 [] Calc. G. G. Clay
 [] Calc. G. G. Shale

REMARKS
 WELL ELEV. GL. 936.6'
 SALINITY IN PPM 3L
 FILTRATE IN CC 30 MIN.
 GAS TRAP AGITATOR TYPE
 MUD CYPAN/GEL (3ARIOD)
 TAYLOR DRILLING #4

LEGEND
 MUD DATA: W WEIGHT, V VISCOSITY, F FILTRATE, FC FILTER CAKE, SD SAND IN %
 SALINITY: S SALINITY, R RESISTIVITY, RF FILTRATE RESISTIVITY
 BIT DATA: NB NEW BIT, RRB RERUN BIT
 CORE BIT: CB CORE BIT, WCB WIRE LINE CB
 OTHER DATA: TG TRIP GAS, CG CONNECTION GAS, C CARBIDE GAS
 RETURNS: CR CIRCULATE RETURNS, NR NO RETURNS, DR DRILL STEM TEST
 INTERVALS: [] DST INTERVAL, [] CORE INTERVAL

DATE 6/21/79 to 6/28/79 DEPTH 50' to 3116' ENGINEERS IRWIN CONVERSE

DEPTH	SAMPLE LITHOLOGY	MUD ANALYSIS		REMARKS
		TOTAL DITCH GAS	CUTTING ANALYSIS	
0				DRILLING AHEAD W/ 9-7/8" BIT.
100	SILTSTN, DK BRN, HU, SH, SOY, W/ MIN DK GRAY BRN VOLC PEBBLES.			GEL & WATER MUD
150	CHROMATOGRAPH=100% C1			
200	DARK GRAY SOY SILTSTN AS ABOVE.			W 60 V 37
250	CHROMATOGRAPH=100% C1			
300	SILTSTN, DK BRN, HU, SH, SOY, W/ MIN DK GRAY & FINE LT GRAY/GRY-BRN CLAYSTN.			W 64 V 39
350	SILTSTN, A/A & DK GRAY W/ MIN BUNNY, SOY, CLAY, BUFFACEOUS SILTSTN, VAR. GRAIN, BRN, LT GRAY, W/ MIN VOLC PEBBLES.			GEL & WATER MUD
400	CHROMATOGRAPH = 100% C1 SILTSTN/SNDI SILTSTN, FRIALBE, BRN, A/A, W/ SOY, A/A, GRAY, 20% FINE, LT GRAY, BRN, SOY, TR FOSSIL FRAG (SHELL)			
450	TG=Nil SILTSTN, MED-DK GRAY SOY, LT GRAY, SOY, GRAY CLAY			SET 7" CASING TO 399FT
500	MED-DK GRAY SOY SILTSTN, W/ MIN CALCIC, LT GRAY SOY STRINGS.			
550	CHROMATOGRAPH=100% C1			
600	SILTSTN/CLAY; SILTSTN, DK GRAY, FRIBLE, SOY, W/ MIN GRAY, SOY, W/ MIN TR FOSSIL FRAG (SHELL)			W 61 V 36
650	CHROMATOGRAPH=100% C1			
700	CLAY, MED GRAY, BRN, SOY, W/ MIN CALCIC, LT GRAY SOY & MIN MICROVICA			
750	CHROMATOGRAPH=100% C1, 150			
800	NOTE: SHAKER BYPASSED DUE TO DR GAS FROM 716 TO 750 RATE LOG INTERP. FROM DRILLING CLAY, LT GRAY, SILTY, SOY, W/ MIN CALCIC, LT GRAY SOY & MIN MICROVICA			LOST CIRCULATION APPROX 40BBL
850	CHROMATOGRAPH=100% C1			W 66 V 41
900	CLAY, A/A			C=210u C VIS 41 LAG=5MIN 60SPM W 66 V 37 PH 11.5 F 18.2 FC 3/32 S 200 SD TR
950	CLAY/SAND, CLAY, LT GRAY, SOY, W/ MIN CALCIC, LT GRAY SOY & MIN MICROVICA			
1000	CHROMATOGRAPH=100% C1			S 90
1050	CLAY, MED GRAY, SOY, W/ MIN CALCIC, LT GRAY SOY & MIN MICROVICA			
1100	CHROMATOGRAPH=100% C1			
1150	CLAY, MED GRAY, SOY, W/ MIN CALCIC, LT GRAY SOY & MIN MICROVICA			
1200	CHROMATOGRAPH=100% C1			W 68 V 38
1250	CLAY, MED GRAY, SOY, W/ MIN CALCIC, LT GRAY SOY & MIN MICROVICA			
1300	CHROMATOGRAPH=100% C1			
1350	CLAY, MED GRAY, SOY, W/ MIN CALCIC, LT GRAY SOY & MIN MICROVICA			NO GAS RETURNS IN CUTTINGS; EQUIPMENT MALFUNCTION.
1400	CHROMATOGRAPH=100% C1			W 71 V 40
1450	SHALE/CLAY, MED-DK GRAY, SOY, W/ MIN CALCIC, LT GRAY SOY & MIN MICROVICA			
1500	CHROMATOGRAPH=100% C1			W 67 V 40
1550	SILTSTN, DK BRN, GRAY, SOY, W/ MIN CALCIC, LT GRAY SOY & MIN MICROVICA			
1600	TG=38u SILTSTN, DK BRN, GRAY, SOY, W/ MIN CALCIC, LT GRAY SOY & MIN MICROVICA			DULL YELLOW FLUOR IN CUTTINGS, BUT TO FAINT DULL YELLOW, NO ODOR OR FLUOR IN MUD
1650	CHROMATOGRAPH = 70% C1, 21% X C3			C=50u C VIS 42 LAG=9MIN 50SPM
1700	SILTSTN, A/A			
1750	CG=7u			
1800	SILTSTN/CLAY, MED-DK GRAY, SOY, W/ MIN CALCIC, LT GRAY SOY & MIN MICROVICA			DULL YELLOW FLUOR IN CUTTINGS, BUT TO FAINT YELLOW, NO ODOR OR FLUOR IN MUD
1850	CG=8u			
1900	CLAY/SILTSTN, A/A, W/ MIN MICROVICA			W 66 V 37 NOTE: CRG MHT MIN. IN SAMPLE 2 FLUOR IN CUTTINGS IS PROBABLY PLASTIC
1950	CG=9u			
2000	CLAY/SILTSTN, A/A, W/ MIN MICROVICA			W 68 V 39 PH 9.0 F 7.2 FC 2/32 S 410 SD 1/8"
2050	CG=10u			
2100	CLAY, MED GRAY, SOY, W/ MIN CALCIC, LT GRAY SOY & MIN MICROVICA			BRIGHT YELLOW FLUOR IN CUTTINGS; BUT TO BRIGHT LIGHT YELLOW, NO ODOR OR FLUOR IN MUD
2150	CG=11u			
2200	CLAY/SILTSTN, A/A, W/ MIN MICROVICA			W 71 V 42
2250	CG=12u			
2300	CLAY, MED-DK BRN, GRAY, SOY, W/ MIN CALCIC, LT GRAY SOY & MIN MICROVICA			TRACE DULL YELLOW FLUOR IN CUTTINGS.
2350	CG=13u			
2400	CLAY, MED GRAY, SOY, W/ MIN CALCIC, LT GRAY SOY & MIN MICROVICA			BRIGHT YELLOW FLUOR SPECKS IN CUTTINGS
2450	CG=14u			
2500	CLAY & SILTSTN, A/A			W 70 V 48 W 70 V 39 PH 8 F 4.8 FC 2/32 S 380 SD TR CHROMATOGRAPH=100% C1
2550	CLAY, MED GRAY, SOY, W/ MIN CALCIC, LT GRAY SOY & MIN MICROVICA			
2600	CG=15u			
2650	CLAY, MED GRAY, SOY, W/ MIN CALCIC, LT GRAY SOY & MIN MICROVICA			W 71 V 39 PH 8 F 5 FC 2/32 S 410 SD TR CHROMATOGRAPH=100% C1
2700	CG=16u			
2750	CLAY, MED GRAY, SOY, W/ MIN CALCIC, LT GRAY SOY & MIN MICROVICA			
2800	CG=17u			
2850	CLAY, MED GRAY, SOY, W/ MIN CALCIC, LT GRAY SOY & MIN MICROVICA			W 72 V 43
2900	CG=18u			
2950	CLAY, MED GRAY, SOY, W/ MIN CALCIC, LT GRAY SOY & MIN MICROVICA			W 73 V 43
3000	CG=19u			
3050	CLAY, MED GRAY, SOY, W/ MIN CALCIC, LT GRAY SOY & MIN MICROVICA			
3100	CG=20u			RAN WELEX LOG
3116	TOTAL DRILLERS 3116'			