

# EXPLORATION LOGGING

A GEOLOGICAL - ENGINEERING SERVICE

<b>REMARKS</b> DRILLING CONTRACTOR <b>TAYLOR DRILLING</b> SPUD DATE <b>OCT. 9, 1977 (7:30PM)</b> TYPE MUDS <b>LIGNOSULFONATE</b> CASING RECORD 7" AT 386FT AT HOLE SIZE 6 1/4" TO 3081FT	<b>ABBREVIATIONS</b> NB NEW BIT RRB REBUR BIT CR CORE BIT CR CIRCULATE RETURNS NR NO RETURNS PR POOR RETURNS LAT LOGGED AFTER TRIP TG TRIP GAS CG CONNECTION GAS C CARBIDE DST DRILL STEM TEST J DST INTERVAL I CORE INTERVAL W MUD WEIGHT V MUD VISCOSITY F MUD FILTRATE @ 60/30 MIN FC FILTER CAKE SD SAND CONTENT S SALINITY @ G/G PPM CL R RESISTIVITY OF MUD RESISTIVITY MUD FILTRATE	COMPANY <b>REICHOLD ENERGY CORP.</b> WELL <b>U.S.C.-LONVIEW FIBER #1</b> FIELD <b>NEHALEM BASIN</b> LOCATION <b>SEC. 11 T3N-R5E</b> COUNTY, STATE <b>COLUMBIA, OREGON</b> API WELL INDEX NO. ELEVATION <b>S.L. 333.5 F.S. 844.5FT</b> DATE <b>FROM OCT. 9, 1977 TO 10/14/77</b> DEPTH <b>FROM 420FT TO 3081FT</b> UNIT NO. <b>7</b> LOGGING GEOLOGISTS <b>DON ROGERS TOM CARSON</b>
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OIL Based on live oil in unwashed cuttings and percentage staining of washed cuttings

GAS UNITS Gas Detector calibrated to record 100 units with a mixture of 2% methane-in-air

**LITHOLOGY SYMBOLS**

<input type="checkbox"/> LIMESTONE	<input type="checkbox"/> SANDSTONE	<input type="checkbox"/> GYPSUM AND ANHYDRITE	<input type="checkbox"/> SALT	<input type="checkbox"/> COAL AND LIGNITE	<input type="checkbox"/> CLAY SHALE	<input type="checkbox"/> SILT	<input type="checkbox"/> SANDY SILT	<input type="checkbox"/> SANDY SAND	<input type="checkbox"/> SANDY SILTST.	<input type="checkbox"/> CONGL.	<input type="checkbox"/> CHERT	<input type="checkbox"/> VOL. CANICS	<input type="checkbox"/> INTRUSIVE
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DEPTH FEET	LITHOLOGY	DRILLING MUD				CUTTINGS	REMARKS AND LITHOLOGY DESCRIPTION
		CONTINUOUS	DITCH GAS	CHROMATOGRAPHIC ANALYSIS	GAS		
400						SET 7" CSG TO 386FT. DRILL 5 1/2" HOLE.	
500						SLTSTN-MED GRV, MED BRN, TR GLAUC	
600						CLAY: LT-MED GRV/B, SOFT, SILTY	
700						SLTST: LT-MED GRV, MED BRN, TR GLAUC	
800						SLTST: LT-MED GRV, SFT BRN, SANDY, TR GLAUC	
900						SLTST: LT-MED GRV, MED BRN, SL CALC.	
1000							
1100						W 88 V 45 F 6.4 FC 2/32 PH 10.5 SD 2 1/2 S 650PPM CL	
1200						CLAY: LT-MED GRV, VNR GRV-WHITE, SILTY, SLY.	
1300						CLAY, SLTST: LT-MED GRV, SLY, VNR GRV-WHITE, TR TAN, GRV-WHITE LS.	
1400						TR BLK BRLE LIGNITE	
1500						SLTST: LT-MED GRV, MED BRN, SDY, V SL CALC.	
1600						C=30U AT 45VIS L=10MIN 42SPM GD TR LT TAN HRD LS GD TR LT GRV TUFF.	
1700						SLTSTN: LT GRV-DK GRV CALC, SDY, MED FRM GD TR LM	
1800						CLYSTN: LT BRN-GRV, BR V HYDR, SILTY GD TR SAND, V FINE	
1900							
2000						C=34U AT 45VIS LAG=13MIN 40SPM CLAY, SLTST: CONG LT-MED GRV, BRN, CALC IN PART W/TR GD TR TAN LS.	
2100						W 57 V 45 F 4.8 FC 2/32 PH 10.5 SD 2 1/2 S 1240PPM CL	
2200						SLTST: LT-MED BRN, GRV, BRN, SDY, IN PART, SL VRY CALC, GD TR BLK LIGNITE, MICA, TR SHELL FRGS.	
2300							
2400						C=35U AT 45 VIS LAG= 14 MIN AT 40SPM GD: CLR QTZ PRED, TR MICA, PYR, LIG, MUSC, GLAUC GD TR LM, WH-TAN GD TR SS, CALC CMT, WH-TAN	
2500						SLTSTN: ST-MED BRN, GRV, BRN, SDY, TR LIT, MICA	
2600						LIGNITE: BLK, BRLE W 58.5 V 44 F 4.8 FC 2/32 PH 10.0 SD 2 1/2 S 1300PPM SD: SS: LT GRV, GRV-WH, GRV, PRED, SAND, CLAY, MICA, CLAYEY, SL, MED CALC.	
2700						TUFF: LT GRV, GRV-WHITE, SL, DRY, VRY CALC, SDY, IN PART.	
2800						SD: SS: LT GRV, GRV-WH, GRV, PRED, SAND, CLAY, MICA, CLAYEY, SL, MED CALC.	
2900							
3000						SLTSTN: ST-DK GRV, GRV, BRN, SOFT-HD, GRV, CLAY, FRM, SN TUFF, SILT	
3100						NOTE: WELEX - DEPTH 3081FT RAN WELEX LOGS	