

WELL CAVENHAM FOREST INDUSTRIES  
 COMPANY ARCO OIL AND GAS COMPANY  
 AREA PITTSBURG

**WESTERN GEO-ENGINEERS**  
 "A SERVICE TO THE OIL AND GAS INDUSTRY"

LOCATION 1706' N AND 2536' E OF THE  
 SE CORNER, SEC 9, T5N, R4E  
 COUNTY, STATE COLUMBIA Co., OREGON

**LITHOLOGY SYMBOLS**

□	Sand	□	Shale	□	Clay	□	Gravel	□	Coal	□	Oil	□	Water
□	City	□	State	□	County	□	Section	□	Township	□	Range	□	Line

**REMARKS**  
 WELL ELEV. GL 1410.21  
 SALINITY IN PPM 0  
 FILTRATE IN CC/30 MIN. 0  
 GAS TRAP AGITATOR TYPE  
 MUD LIGNOSULFONATE  
 (FACOBAR)

**LEGEND**

<b>MUD DATA</b> W WEIGHT V VISCOSITY F FILTRATE FC FILTER CAKE SD SAND IN 5	<b>SALINITY</b> R RESISTIVITY RF FILTRATE RESISTIVITY	<b>BIT DATA</b> NB NEW BIT RRB RETURN BIT	<b>CB CORE BIT</b> WLCB WIRE LINE CB OTHER DATA	<b>CR CIRCULATE RETURNS</b> NR NO RETURN DST DRILL STEM TEST DST INTERVAL
--	---	---	---	--

DATE 8/27/86 to 9/6/86 DEPTH 0 to 3242 ENGINEERS J. McGRATH  
 J. McGRATH

**CASING**  
 0-5/8" TO 440'  
 7" TO 1772'

DEPTH	LITHOLOGY	MUD ANALYSIS	CUTTING ANALYSIS	REMARKS
0	DRILLING RATE IN BIT DATA			
0-100	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			DRILL SURFACE W/ 12" BIT:SPUD W/ GEL/WATER MUD.
100-200	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			
200-300	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			
300-400	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			
400-500	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			
500-600	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			
600-700	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			
700-800	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			
800-900	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			
900-1000	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			
1000-1100	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			
1100-1200	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			
1200-1300	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			
1300-1400	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			
1400-1500	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			
1500-1600	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			
1600-1700	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			
1700-1800	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			
1800-1900	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			
1900-2000	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			
2000-2100	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			
2100-2200	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			
2200-2300	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			
2300-2400	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			
2400-2500	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			
2500-2600	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			
2600-2700	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			
2700-2800	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			
2800-2900	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			
2900-3000	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			
3000-3100	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			
3100-3242	SLT:SN:DK GRV:ACT:Z:SDY CALS:FR:AL:MICA			

ARCO OIL & GAS CO., CAVENHAM FOREST INDUSTRIES #35-9, PITTSBURG, COLUMBIA CO., OREGON, T5N, R4E, SEC 9, W88