

WELL COLUMBIA COUNTY 11-33  
API # 009-00062  
COMPANY REICHHOLD ENERGY CORP.

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

AREA MIST  
LOCATION 293'S & 524'E OF NW CRN  
Sec 33; 77N; R5W WB&M  
COUNTY, STATE COLUMBIA, OREGON

**LITHOLOGY SYMBOLS**

Sand  
 Clay  
 Silt  
 Shale  
 Lignite  
 Coal  
 Volcanic  
 X  
 Z  
 A

**REMARKS**

WELL ELEV. GL. 956.98'  
KB. 967.58'

**MUD DATA**

W WEIGHT  
V VISCOSITY  
F FILTRATE  
FC FILTER CAKE  
SD SAND IN %

**LEGEND**

S SALINITY  
R RESISTIVITY  
RF FILTRATE RESISTIVITY  
BIT DATA  
NB NEW BIT  
RRB RERUN BIT

CB CORE BIT  
WCB WIRE LINE CB  
NR NO RETURN  
TC TRIP GAS  
CG CONNECTION GAS  
CC CARBIDE GAS

CR CIRCULATE RETURNS  
NR NO RETURN  
DST DRILL STEM TEST  
DST INTERVAL  
CORE INTERVAL

DATE 7/24/81 to 7/30/81 DEPTH 45' to 2741' ENGINEERS CONVERSE THOMAS

SALINITY IN PPM CL  
FILTRATE IN CC/30 MIN.  
GAS TRAP AGITATOR TYPE  
MUD LIGNOSULFONATE (BARIOD)  
TAYLOR DRILLING Co. #5

**CASING**

7" to 398'  
TO  
TO

DEPTH	SAMPLE LITHOLOGY	OIL IN MUD or CUTTINGS		REMARKS
		TOTAL DITCH GAS	CUTTING ANALYSIS	
0				SPUDDED w/ 9 7/8" BIT & CONDUCTOR. MUD GEL/WATER RIG WATER S=50
100	SAND, LT BRWN, VFN-MD FRAGS, CL & VFN QZ TRIP FROM A, SBANG, SBRD LT BRWN SOL, SGT, S, TV CHROM=100% C1			
200	CLAY, GR, SLTY, SOL SOFT, W/MIN. SMD, VFN, QTZ CLAY/SLTSTN, DK GR, FRM-HRD FRM-HRD, TRIP GAS, VFN, CL QZ CHROM=100% C1			TIGHT HOLE PULLED 30,000 OVER STRG WT. w 9.1 (67) v 53 s 50
300	HD CALC SS BONE CHROM=100% C1			C=400U 53VIS LAG=1.5MIN 60SPM 100CC DUR 2MIN
400	SDY SLTSTN, DK GR, FRM TO OCC HD, CLAY, GR, SOFT SLTY, SH, VFN SD, URUND MICRONICA, TR LIG CHROM=100% C1			w 9.1 (67) v 45
500	SDY SLTSTN, A/A W/ ABUND BRITTLE SH, SLTY, LT GR CHROM=100% C1			RUN CASING & 425', SET & 398', REDUCE MOLE TO 6A". w 8.5 (64) v 35
600	SLTSTN, DK GR, BRWN, FRM HRD, SDY, VFN, SUG, CL FRAGS, LIGN, MICR, SBRD CHROM=100% C1			
700	SLTSTN, DK GR, SOY, FIRM SBANG TO SBRND, RED CHLDR, HD QZ, LIG, CLAY FRM GR, SGT, S, CLAY CHROM=100% C1			w 8.5 (64) v 50
800	SS, MED GR, FN, SBANG QZ, RED ASH, ABUND FIRM, SH, LT GR, SUG FIRM, FRI, SHELL FRAGS CHROM=100% C1			w 8.5(64) v 37 PH 10.0 F 7.0 FC 1/32 S 100 SD TR SOL 2%
900	CLAY, LT GR, BRWN, SOFT PART SOL, SUG, MINEUC, FR QZ SD, SHELL FRAGS CHROM=100% C1			C=95U 60SPM LAG=3MIN 60SPM 100CC DUR 2MIN
1000	CLAY, MIN SLTSTN AS ABOVE CHROM=100% C1			w 8.7 (65) v 37
1100	CLAY, LT GR, BRWN, SOFT SOL, FRM, FIRM, SUG, S SHELL FRAGS, LIG, CLAY CHROM=100% C1			w 8.7 (66) v 33
1200	CLAY, GR, SOL, SOFT, VFN SMD, VFN-FN, CL QZ, SBANG FR, SUG, S, SUG, S, SUG, S FR, TA LUG, S, SHELL FRAGS CHROM=100% C1			C=98U VIS 33 LAG 4MIN 60 SP 100CC DUR 3MIN
1300	SLTSTN/CLAY, MD GR, SOY SUG, FRM, W, LIGN, SUG SL CALC, VFN-FN, CL QZ PYR, LIGN, MICR, SBRD CHROM=100% C1			C=98U VIS 33 LAG 4MIN 60 SP 100CC DUR 3MIN
1400	SLTSTN/CLAY, MD GR, SOY SUG, FRM, W, LIGN, SUG SL CALC, VFN-FN, CL QZ PYR, LIGN, MICR, SBRD CHROM=100% C1			w 9.2 (69) v 62 F 6.4 FC 2/32 PH 10 S 100 SD TR SOL 6
1500	CLAY/SLTSTN, DK GR, FRM FRM-HRD, VFN, CL QZ, SBRD STRCS CHROM=100% C1			
1600	CLAY, SLTY, MED GR, GRN SOFT, TO FIRM, FR TG-30U CHROM=100% C1			w 9.2 (69) v 60
1700	CALC SLTSTN BONE CHROM=100% C1			
1800	SLTY CLAY, MED GR, GRN SUG, FRM, SUG, LIG, CLAY MICA, KAOL. CHROM=100% C1			C=75U VIS 47 LAG 7MIN 60 SP 100CC DUR 4MIN
1900	SLTY CLAY, MED GR, GRN SUG, FRM, SUG, LIG, CLAY MICA, KAOL, FOSSIL FRAGS CHROM=100% C1			w 9.5 (71) v 50
2000	CLAY, MD-DK GR, FRM, NON SOL, SLTY, VFN, SUG, SBRD SUG, FUFF, MICA, TR, MICRONICA LIGN, SHELL FRAGS, F CHROM=100% C1			
2100	CLAY, MD-DK GR, FRM, NON SOL, SLTY, VFN, SUG, SBRD SUG, FUFF, MICA, TR, MICRONICA LIGN, SHELL FRAGS, F CHROM=100% C1			w 9.3 (69) v 47 F 5.6 FC 2/32 PH 10 S 100 SD TR
2200	CLAY, MD-DK GR, FRM, NON SOL, SLTY, VFN, SUG, SBRD SUG, FUFF, MICA, TR, MICRONICA LIGN, SHELL FRAGS, F CHROM=100% C1			w 9.3 (69) v 75
2300	CLAY, MD-DK GR, FRM, NON SOL, SLTY, VFN, SUG, SBRD SUG, FUFF, MICA, TR, MICRONICA LIGN, SHELL FRAGS, F CHROM=100% C1			C=63U 75VIS LAG 9MIN 60SPM 100CC DUR 4MIN
2400	CLAY, MD-DK GR, FRM, NON SOL, SLTY, VFN, SUG, SBRD SUG, FUFF, MICA, TR, MICRONICA LIGN, SHELL FRAGS, F CHROM=100% C1			LOST CIRC, PULLED 3 STDS, REGAINED CIRC, 105U GAS KICK AT BOTTOMS UP. S=750 PROB PACKED OFF @ 2329'.
2500	CLAY, MD-DK GR, FRM, NON SOL, SLTY, VFN, SUG, SBRD SUG, FUFF, MICA, TR, MICRONICA LIGN, SHELL FRAGS, F CHROM=100% C1			w 9.5 (71) v 47 F 4 FC 2/32 PH 10 S 100 SD TR
2600	SAND, LT GR, BRWN, CALC SBRND, CL & VFN QZ LIGN, TA LUG, S, SHELL FRAGS CLAY, SOFT, SOL CHROM=100% C1			w 9.4 (70) v 42
2700	SAND, LT GR, BRWN, CALC SBRND, CL & VFN QZ LIGN, TA LUG, S, SHELL FRAGS CLAY, SOFT, SOL CHROM=100% C1			w 9.4 (70) v 48
2741	WELDED TUFF, MED GR, BLUE GRY, V, MD, ABUND PYR, CALCITE, FRM GRN GRY, BASALTIC SLTSTN. WCG=17U TOTAL DRILLER'S DEPTH 2741'			RAN WELX LOGS P & A