

WELL ANDERSON #1 COMPANY RH EXPLORATION AREA MONITOR LOCATION 6E1, 76'E & 978-31'N of SW COR, SEC 29, 19S, 14E, W88N COUNTY, STATE CLACKAMAS CO., OREGON	- W E G E - WESTERN GEO-ENGINEERS "A SERVICE TO THE OIL AND GAS INDUSTRY"	REMARKS WELL ELEV. GL 236.79' KB. 248.49' SALINITY IN PPM CL FILTRATE IN AC/30 MIN. GAS TRAP AGITATOR TYPE MUD LIGNOSULFANATE BEAVER DRILLT JMC FLUIDS TAYLOR BUE 4
LITHOLOGY SYMBOLS Clay Sand Shale Sandstone Gravel Shell Lignite Coal Lignite Hard Shell Lignite (Chert)		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 REBUR BIT		OTHER DATA CB CORE BIT WLCB WIRE LINE CB TRIP GAS CONNECTION GAS CARBIDE GAS
DATE 9/21/83 TO 10/2/83 DEPTH 60' TO 3406'		ENGINEERS THOMAS DUVAL FISH
CASING 6 5/8" TO 420' TO TO		

DEPTH	LITHOLOGY	MUD ANALYSIS	CUTTING ANALYSIS	REMARKS
		TOTAL OIL IN MUD OR CUTTINGS Tr x Fair xx Good xxx V/Gd xxxx		Mud Data
		PET. VAP. --- BLENDER GAS ---	TOTAL GAS --- PET. VAP. ---	Formation Tests
		10 20 30 40 50 75 100 125 150 175 200	25 50 75 100	Core Analysis
				Surveys
				E Log
100	CLAY, GRAY, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			DRUNG SURFACE HOLE W/ 12 1/2" BIT
200	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			W 6.7 V 40 F 14.0 FC 2/32 S 150 PH 9.0 SD TR SOL 6%
300	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			3/4" OI
400	WOOD FIBER			
500	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			DRILL 6 3/8" PILOT HOLES, THEN OPEN TO 12 1/2" SET 8 5/8" CASING TO 420'. DRILL OUT OF SHOE WITH 7 7/8" BIT.
600	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			W 9.2 VIS 42 PH 12.5 FIL 10.2 FC 2/32 CL 400 SD 3/4" SOL 6%
700	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			W 9.4 V 47 PH 10.5 F 6% FC 2/32 CL 400 SD 1% SOL 6%
800	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			10 15"
900	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			C 87U VIS 47 LAG 8WN SPM 100 100CC DUR 4WN
1000	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			0-30" WIPE HOLE W 9.3 V 48
1100	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			10 15"
1200	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			10 15"
1300	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			C 45U V=45 LAG 12MIN 90SPM 100CC GUR4WN
1400	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			LOST CIRCULATION LITH. PARTLY INFERED.
1500	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			W 6.7 V 52 PH 11.0 F 6.3 FC 2/32 CL 400 SD 3% SOL 6%
1600	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			ADD LCM; LITH INFERRED
1700	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			CONTINUING SL LOSS OF CR: 12 BBL/HR.
1800	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			W 9.2 V 50
1900	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			10 30"
2000	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			W 9.2 V 55 PH 9.5 F 6.3 FC N/A CL 350 SD 1.0% SOL 6%
2100	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			RUN I.F. CK AT 1650'; SYSTEM FUNCTIONAL
2200	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			C 16U VIS 60 LAG 19WN SPM 74W 100CC DUR 10WN
2300	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			10 0"
2400	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			W 9.4 V 64 PH 9.0 F 6.3 FC 2/32 CL 550 SD 3/4" SOL 9%
2500	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			W 9.5 V 55 PH 9.0 F 6.3 FC 2/32 CL 400 SD 3% SOL 10%
2600	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			W 9.5, V 55, PH 9; F 6.1, FC 2/32, S 350, SD 1 1/2, SOL 10%
2700	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			10 30"
2800	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			C 17U VIS 54 LAG 20WN SPM 110 100CC DUR 8WN
2900	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			W 9.4 V 50 PH 9.5 F 10.4 FC 2/32 S 400 SD 1/2" SOL 9%
3000	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			
3100	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			W 9.3 V 65
3200	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			W 9.4 V 55 PH 9.0 F 6.6 FC 2/32 CL 400 SD 3% SOL 9%
3300	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			C 11U VIS 100 LAG 27WN SPM 10W 100 CC DUR 7WN
3400	SAND, GRN, GRN TO BRN, SPT, SOL. SPT, SOL. SPT, SOL.			W 9.4 V 55 PH 9.0 F 6.6 FC 2/32 CL 400 SD 3% SOL 9%
3500	TOTAL DRILLER'S DEPTH 3406'			RAN SCHLUMBERGER.

Drilling Rate in Ft/HR
Bit Data

WB 12,000 RPM 80 PP 1050
WB 16,000 RPM 75 PP 1250
WB 18,000 RPM 80/90 PP 1200
WB 22,000 RPM 114 PP 1600
WB 24,000 RPM 110 PP 1600

9/22/83
9/25/83
9/26/83
9/29/83
9/30/83
10/11/83
10/12/83
10/16/83
10/21/83