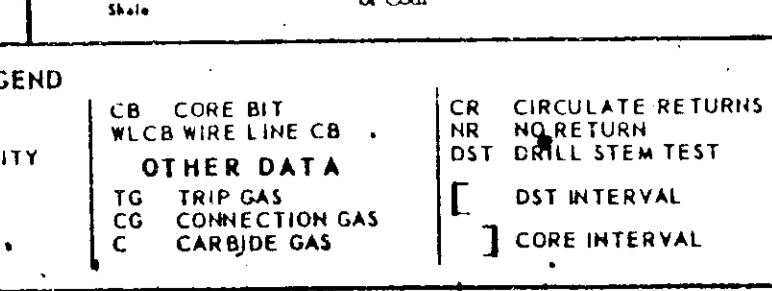


WELL **W33003**  
 COMPANY OREGON NAT. GAS DELV. CO.  
 AREA **MIST**  
 LOCATION **101°5' & 105°W, E40RN, SEC 5, T0N, R0W, W00M**  
 COUNTY, STATE **COLUMBIA CO., OR**

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

LITHOLOGY SYMBOLS: 

REMARKS: WELL ELEV. **BL. 1070.31, CL. 1069.71**  
 SALINITY IN FILTRATE IN **CG/30 MM.**  
 GASTRAP AGITATOR TYPE **CG/30 MM.**  
 MUD GEL/URISPAK **(HEAVY DRLYG FLUIDS)**  
 TAYLOR **110 37**  
**CANNO**  
**13 3/8" to 200'**

MUD DATA: W WEIGHT, V VISCOSITY, F FILTRATE, FC FILTER CAKE, SC SAND IN K  
 LEGEND: S SALINITY, R RESISTIVITY, RF FILTRATE RESISTIVITY, BIT DATA, HB NEW BIT, HBB REIN BIT, CB CORE BIT, WLCB WIRE LINE CB, OTHER DATA, TG TRIP GAS, CONNECTION GAS, CARBIDE GAS, CR CIRCULATE RETURNS, NR NG RETURN, DST DRILL STEM TEST, DST INTERVAL, CORE INTERVAL

DATE **5/20/00** to **5/2/00** DEPTH **40'** to **273'** ENGINEERS **J. DUVALL, B. PORTWOOD**

DEPTH	LITHOLOGY	OIL IN MUD or CUTTINGS Trx Fair xx Good xxx V/Gd kxxx		REMARKS
		MUD ANALYSIS	CUTTING ANALYSIS	
40	CLAY, MD GRAY, SFT, STKY, ...	10 20 30 40 50	10 20 30 40 50	URL SURFACE w/ 17 1/2" O.D. SUC. / GEL/WATER MUD.
50	CLAY, MD GRAY, SFT, STKY, ...	10 20 30 40 50	10 20 30 40 50	PH 10.0, PH 3.0, LD 12W
60	CLAY, MD GRAY, SFT, STKY, ...	10 20 30 40 50	10 20 30 40 50	CONT. AERBAT SLOUGH
70	CLAY, MD GRAY, SFT, STKY, ...	10 20 30 40 50	10 20 30 40 50	WIPE HOLE; SL LOST CIRC-H HBL
80	CLAY, MD GRAY, SFT, STKY, ...	10 20 30 40 50	10 20 30 40 50	CONT. AERBAT SLOUGH
90	CLAY, MD GRAY, SFT, STKY, ...	10 20 30 40 50	10 20 30 40 50	PH 10.0, PH 3.0, LD 12W
100	CLAY, MD GRAY, SFT, STKY, ...	10 20 30 40 50	10 20 30 40 50	CONT. AERBAT SLOUGH
110	CLAY, MD GRAY, SFT, STKY, ...	10 20 30 40 50	10 20 30 40 50	CONT. AERBAT SLOUGH
120	CLAY, MD GRAY, SFT, STKY, ...	10 20 30 40 50	10 20 30 40 50	CONT. AERBAT SLOUGH
130	CLAY, MD GRAY, SFT, STKY, ...	10 20 30 40 50	10 20 30 40 50	CONT. AERBAT SLOUGH
140	CLAY, MD GRAY, SFT, STKY, ...	10 20 30 40 50	10 20 30 40 50	CONT. AERBAT SLOUGH
150	CLAY, MD GRAY, SFT, STKY, ...	10 20 30 40 50	10 20 30 40 50	CONT. AERBAT SLOUGH
160	CLAY, MD GRAY, SFT, STKY, ...	10 20 30 40 50	10 20 30 40 50	CONT. AERBAT SLOUGH
170	CLAY, MD GRAY, SFT, STKY, ...	10 20 30 40 50	10 20 30 40 50	CONT. AERBAT SLOUGH
180	CLAY, MD GRAY, SFT, STKY, ...	10 20 30 40 50	10 20 30 40 50	CONT. AERBAT SLOUGH
190	CLAY, MD GRAY, SFT, STKY, ...	10 20 30 40 50	10 20 30 40 50	CONT. AERBAT SLOUGH
200	CLAY, MD GRAY, SFT, STKY, ...	10 20 30 40 50	10 20 30 40 50	CONT. AERBAT SLOUGH
210	CLAY, MD GRAY, SFT, STKY, ...	10 20 30 40 50	10 20 30 40 50	CONT. AERBAT SLOUGH
220	CLAY, MD GRAY, SFT, STKY, ...	10 20 30 40 50	10 20 30 40 50	CONT. AERBAT SLOUGH
230	CLAY, MD GRAY, SFT, STKY, ...	10 20 30 40 50	10 20 30 40 50	CONT. AERBAT SLOUGH
240	CLAY, MD GRAY, SFT, STKY, ...	10 20 30 40 50	10 20 30 40 50	CONT. AERBAT SLOUGH
250	CLAY, MD GRAY, SFT, STKY, ...	10 20 30 40 50	10 20 30 40 50	CONT. AERBAT SLOUGH
260	CLAY, MD GRAY, SFT, STKY, ...	10 20 30 40 50	10 20 30 40 50	CONT. AERBAT SLOUGH
270	CLAY, MD GRAY, SFT, STKY, ...	10 20 30 40 50	10 20 30 40 50	CONT. AERBAT SLOUGH
280	CLAY, MD GRAY, SFT, STKY, ...	10 20 30 40 50	10 20 30 40 50	CONT. AERBAT SLOUGH
290	CLAY, MD GRAY, SFT, STKY, ...	10 20 30 40 50	10 20 30 40 50	CONT. AERBAT SLOUGH
300	CLAY, MD GRAY, SFT, STKY, ...	10 20 30 40 50	10 20 30 40 50	CONT. AERBAT SLOUGH

OREGON NATURAL GAS 1W 330-3, MIST FIELD, SEC 5, T0N, R0W, W00M, COLUMBIA COUNTY, OREGON