

WELL TY SETTLES CINDY #1
 A: I #36-039-COCOP
 COMPANY Ty R. SETTLES
 AREA CHESHIRE
 LOCATION 3467'N & 2307'W OF S7
 CORNER, SEC 23, T16S,
 R5W, WBEF
 COUNTY, STATE LANE COUNTY, OREGON

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

LITHOLOGY SYMBOLS

| | | | | | | | | | | |
|------|------|------|------------|--------------|---------|------------|------|---------|-------|------|
| | | | | | | | | | | |
| Sand | Clay | Silt | Silty Sand | Congl. Silt. | Lignite | Vol. Intr. | Salt | Limest. | Chert | Tuff |

REMARKS

WELL ELEV. GL. 332'
 KB. 345'
 SALINITY IN PPM CL-
 FILTRATE IN CC/30 MIN.
 GASTRAP AGITATOR TYPE
 MUD LIGNOSULFONATE
 BEAVER DRILLING
 FLUIDS
 WELTEC RIG #460

CASING
 0' TO 302'

LEGEND

| | | | |
|--|---|--|---|
| MUD DATA W WEIGHT V VISCOSITY F FILTRATE FC FILTER CAKE SD SAND IN % | SALINITY S SALINITY R RESISTIVITY RF FILTRATE RESISTIVITY BIT DATA NB NEW BIT RRB RERUN BIT | CORE BIT WLCB WIRE LINE CB OTHER DATA TG TRIP GAS CG CONNECTION GAS C CARBIDE GAS | CIRCULATE RETURNS NR NO RETURN DST NO DRILL STEM TEST [DST INTERVAL] CORE INTERVAL |
|--|---|--|---|

DATE 2/25/85 to 2/27/85 DEPTH 330' to 1601' ENGINEERS J. DUVALL B. FORTWOOD

| DEPTH | SAMPLE LITHOLOGY | OIL IN MUD or CUTTINGS Tr x Fair xx Good xxx V/Gd xxxx | | REMARKS |
|-------|---|--|------------------|--|
| | | MUD ANALYSIS | CUTTING ANALYSIS | |
| 300 | VOLCANICLASTICS; DK GRN-GRY, MOTTLED, HD. | | | SET 8-5/8" CSG & 3 1/2" DRILL CUT W/ 7-7/8" BIT |
| 350 | VOLCANICLASTICS A/A, TR CALCITE | | | |
| 400 | CHROM=100% C1 | | | |
| 450 | VOLC BRECCIA MD-DK GRY/GRN-GRY, HD; TR CALC, TR PYR | | | |
| 500 | CHROM=100% C1 | | | |
| 550 | TUFF, MD GRY, CALC, HD. | | | |
| 600 | VOLCANICLASTICS; DK GRY, MOTTLED, HD; TUFF, MD GRY, HD; BRK RED CINDEA, TR CALC | | | W 9.0 V 4.2 PH 11.5 F 8.6 FC 2/32 S 250 SD 3/4 SCL 9% |
| 650 | CHROM=100% C1 | | | |
| 700 | TUFF, MD GRY, MOTTLED, HD; VOLCANICLASTICS; MD-DK GRY, MOTTLED, HD | | | |
| 750 | VOLCCLSTCS, VGTD, MD-LT GRN-GRY, MD GRY, BRK RD, HD; CLAY, MD GRY, SFT, SOL; | | | |
| 800 | CHROM=100% C1 | | | |
| 850 | VOLCCLSTCS, MD-DK GRY, MOTTLED, HD; TU, LT GRN-GRY, MD GRY, HD; TR CALC | | | |
| 900 | CHROM=100% C1 | | | |
| 950 | VOLCCLSTCS A/A; TR PYR | | | |
| 1000 | CHROM=100% C1 | | | |
| 1050 | VOLCCLSTCS, MD BRN-GRY, MOTTLED, HD; CMN PYR; | | | |
| 1100 | VOLCCLSTCS, VGTD, MD GRY, LT GRY, WH, MOTTLED, GLASSY; CMN CALC, CMN PYR | | | |
| 1150 | VOLCCLSTCS, MD-DK GRY, MD GRN-GRY, MOTTLED, HD | | | |
| 1200 | CHROM=100% C1 | | | |
| 1250 | VOLCCLSTCS, MD-DK GRY, MOTTLED, HD | | | |
| 1300 | VOLCCLSTCS, MD-DK GRY, MOTTLED, HD | | | |
| 1350 | VOLCCLSTCS, MD-DK GRY, MOTTLED, HD | | | |
| 1400 | VOLCCLSTCS, MD-DK GRY, MOTTLED, HD | | | |
| 1450 | VOLCCLSTCS, MD-DK GRY, MOTTLED, HD | | | |
| 1500 | VOLCCLSTCS, MD-DK GRY, MOTTLED, HD | | | |
| 1550 | VOLCCLSTCS, MD-DK GRY, MOTTLED, HD | | | |
| 1600 | VOLCCLSTCS, MD-DK GRY, MOTTLED, HD | | | |
| 1650 | VOLCCLSTCS, MD-DK GRY, MOTTLED, HD | | | |
| 1700 | VOLCCLSTCS, MD-DK GRY, MOTTLED, HD | | | |