

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

WELL: 011-047-A-R04.1
COMPANY: ARCO OIL & GAS
AREA: PITTSBURGH
LOCATION: 1055.56' N & 865.04' W of NE CORN. SEC 4; T54N; R14W; S69E
COUNTY, STATE: COLUMBIA COUNTY, OH

LITHOLOGY SYMBOLS

REMARKS

WELL ELEV. OL 886.5'
KX 892.5'
SALINITY IN PPM 0
FILTRATE IN CC/30 MIN. 0
GAS TRAP AGITATOR TYPE 0
MUD LOSS/DIFFUSION RATE (AGGRAS) 0
MCL #12 25

CAUSING

0-5/20' 1000'
TO
TO

MUD DATA: W WEIGHT, R RESISTIVITY, V VISCOSITY, F FILTRATE, FC FILTER CAUSE, SD SAND LOSS

SALINITY, RESISTIVITY, BIT DATA, MUD RESIST, MUD REQUEST

LEGEND: CR CORE BIT, MCK MCK LINE CR, OTHER DATA, CR CIRCULATE RETURNS, DST DRILL STEM TEST, DST INTERVAL, CORE INTERVAL

DATE: 9/15/86 TO 9/17/86 DEPTH: 630' TO 1935' ENGINEERS: J. DUVALL, J. SANDSTROM

DEPTH	SAMPLE	LITHOLOGY	OIL IN MUD OR CUTTINGS Tr x Fair xx Good xxx V/Gd xxx				REMARKS
			MUD ANALYSIS	MUD ANALYSIS	CUTTING ANALYSIS	CUTTING ANALYSIS	
600		CHROMIUM				NOTE: ANGLE & DIRECTION ARE REAL TOTAL COORDINATES, ETC., ARE AVERAGE. N.O.P. 609' (BL OUT W 89' BIT. W 9.5, V 39)	
700		CHROMIUM				2'45" N56E TVD 647.99' (w=7.05) SEC 2.07' S 500, RHF 1.04 DM	
800		CHROMIUM				6'40" N69E TVD 709.8' (w=7.22) SEC 6.49'	
900		CHROMIUM				7'30" N69E TVD 739.6' (w=7.09) SEC 9.67'	
1000		CHROMIUM				4'00" N55E TVD 811' (w=7.34) SEC 21.08'	
1100		CHROMIUM				MOD SLOUGH W 9.5 V 39	
1200		CHROMIUM				41'45" N55E TVD 902' (w=7.09) SEC 36.63'	
1300		CHROMIUM				16'45" N56E TVD 962' (w=7.67) SEC 79.88'	
1400		CHROMIUM				WOK, ADD STABS S 330 RHF 5.48 W 9.6 V 39	
1500		CHROMIUM				16'45" N56E TVD 1022' (w=7.74) SEC 124.21'	
1600		CHROMIUM				S 350 RHF 7.78 W 10.0 V 38 C 340 SPH 57' 100CC LAG 14MM BUR 5MM	
1700		CHROMIUM				15'30" N65E TVD 1363' (w=16.48) SEC 158.41'	
1800		CHROMIUM				15'45" N59E TVD 1481' (w=22.51) SEC 190.84'	
1900		CHROMIUM				W 9.1, V 38, W 8.4, FC 87/35, PH 11.2, S 500, RD 30%, SOL 6%	
1935		CHROMIUM				46'00" N56E TVD 1598' (w=27.51) SEC 226.45'	
1950		CHROMIUM				W 10.1 V 41 S 450 RHF 3.560MMH	
1960		CHROMIUM				LC: PACK OFF, PUMP AWAY 30 DBLS. S 500, RHF 4.000MMH	
1970		CHROMIUM				47'30" N64E TVD 1777' (w=25.41) SEC 277.55'	
1980		CHROMIUM				W 10.1 V 45 S 700 RHF 3.270MMH	
1990		CHROMIUM				W 10.1 V 45	
2000		CHROMIUM				48'45" N56E TVD 1853' (w=41.51) SEC 345.70'	