

CORE ANALYSIS RESULTS

Company The Atlantic Refining Company Formation As Noted File RP-3-918
 Well Navajo No. 30 Core Type Diamond Date Report 2-3-59
 Field Horseshoe Gallup Drilling Fluid Oil Emulsion Analysts Clifford
 County San Juan State New Mex. Elev. 5499.12' GR Location Sec 31-31N-16W

Lithological Abbreviations

SAND - SD SHALE - SH LIME - LM	DOLOMITE - DOL CHERT - CH GYPSUM - GYP	ANHYDRITE - ANHY CONGLOMERATE - CONG FOSSILIFEROUS - FOSS	SANDY - SDY SHALY - SHY LIMY - LMY	FINE - FN MEDIUM - MED COARSE - CSE	CRYSTALLINE - XLN GRAIN - GRN GRANULAR - GRNL	BROWN - BRN GRAY - GY VUGGY - VGY	FRACTURED - FRAC LAMINATION - LAM STYLOLITIC - STY	SLIGHTLY - SL/ VERY - V/ WITH - W/
--------------------------------------	--	---	--	---	---	---	--	--

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	

Upper Tocito

1	1160-61	0.03	8.4	33.3	38.1	
2	61-62	<0.01	6.2	29.0	54.9	
3	62-63	0.01	9.2	21.7	69.3	
4	63-64	<0.01	7.8	37.2	52.6	
5	1164-65	0.04	6.6	27.3	59.1	
6	1169-70	0.20	5.2	13.5	55.8	
7	70-71	[79	15.0	16.0	28.7	
8	71-72	[253	18.7	13.9	31.5	
9	72-73	0.10	11.4	27.2	51.6	
10	73-74	[106	18.8	18.6	25.0	
11	74-75	0.08	10.1	20.8	46.6	
12	75-76	[140	9.7	14.4	34.1	
13	76-77	[91	13.4	14.9	28.4	
14	77-78	0.05	9.0	15.6	40.1	
15	78-79	[8.5	11.3	25.7	31.0	
16	1179-80	0.04	9.7	16.5	48.4	
17	1187-88	[1.1	17.7	16.9	33.3	
18	88-89	0.40	11.7	12.8	42.7	
19	1189-90	0.02	5.3	17.0	47.2	

7' > 1 MD
 678.6 MD FT
 7' @ 97 MD PERM
 7' @ 149 % POR.

Lower Tocito

20	1233-34	[96	19.5	15.4	40.0	
21	34-35	[176	17.3	17.9	32.4	
22	35-36	0.48	12.1	11.6	47.1	
23	36-37	0.01	8.0	6.2	78.9	
24	37-38	0.24	10.3	11.6	75.6	
25	38-39	0.05	12.6	11.1	68.2	
26	1239-40	0.07	13.6	11.7	64.7	

BEFORE THE
 OIL CONS. COM. OF NEW MEXICO
 SANTA FE, NEW MEXICO
 Atlantic Refining Co. No. 10
 CASE 1576