

CORE ANALYSIS RESULTS

Company HILLIARD OIL AND GAS INCORPORATED Formation BONE SPRINGS File 623-3661
 Well UNION STATE NO. 1 Core Type DIAMOND 4 1/4" Date Report 5-10-75
 Field E.K. BONE SPRINGS Drilling Fluid WATER BASE MUD Analysts BOONE"
 County LEA State N.M. Elev. 3901 GL Location 660 FNL & FEL SEC 32-18-34

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

CONVENTIONAL ANALYSIS

	9541.0-52.0					SAND, SHY
1	9552.0-53.0	<0.1	4.2	0.0	76.2	SAND, SHY
2	53.0-54.0	5.4	14.7	10.2	22.4	SAND
3	54.0-55.0	0.6	8.5	2.4	38.8	SAND
4	55.0-56.0	4.9	14.1	10.6	21.3	SAND
5	56.0-57.0	<0.1	3.0	0.0	73.3	SAND, SHY
	9557.0-59.0					SAND, SHY
6	9559.0-60.0	<0.1	5.8	0.0	51.7	SAND, SHY
7	60.0-61.0	5.5	14.4	13.2	25.7	SAND
8	61.0-62.0	1.4	10.4	8.7	27.9	SAND
9	62.0-63.0	2.2	12.6	10.3	30.2	SAND
10	63.0-64.0	<0.1	6.2	0.0	58.1	SAND, SHY
11	64.0-65.0	<0.1	6.2	0.0	51.6	SAND, SHY
12	65.0-66.0	<0.1	3.6	0.0	80.6	SAND, SHY
13	66.0-67.0	<0.1	4.7	0.0	70.2	SAND, SHY
14	67.0-68.0	<0.1	3.9	0.0	79.5	SAND, SHY
15	68.0-69.0	<0.1	3.9	0.0	79.5	SAND, SHY
16	69.0-70.0	<0.1	3.4	0.0	73.5	SAND, SHY
17	70.0-71.0	<0.1	3.0	0.0	72.7	SAND, SHY
18	71.0-72.0	<0.1	4.7	19.1	46.8	SAND, SHY
19	72.0-73.0	<0.1	4.5	0.0	68.9	SAND, SHY
20	73.0-74.0	0.1	5.4	16.7	61.1	SAND, SHY
21	74.0-75.0	<0.1	3.7	0.0	73.0	SAND, SHY
22	75.0-76.0	<0.1	3.9	12.8	69.2	SAND, SHY
	9576.0-02.0					SAND, SHY

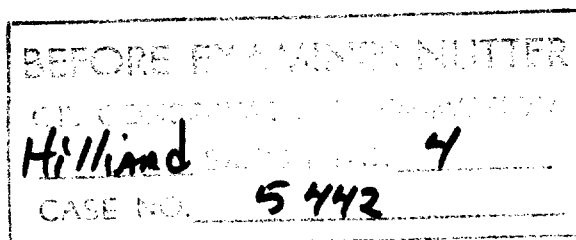


Exhibit #4