

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

RECEIVED

Page No. 1
JUN 7 1967

CORE ANALYSIS RESULTS

U. S. GEOLOGICAL SURVEY
GARDINER, N. M.

Company Walter Duncan Formation Dakota File RP-3-2203
Well North Hogback 7-2 Core Type Rock head Date Report 5/9/67
Field North Hogback Drilling Fluid Chem-Gel Analysts Graham
County San Juan State New Mex. Elev. 5048 Grid Location Sec. 7-T29N-R16W

Lithological Abbreviations

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCS K	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
1	716-17	9.3	12.2	4.1	82.0	SH:DK BRN,SDY,CARB,CALC
2	717-18	26.2	12.9	3.9	86.1	SLST:DK BRN,SDY,CARB,ARGIL,CALC
3	718-19	4.25	13.8	5.1	83.3	SH:DK BRN,SDY,SLI/CALC
4	719-20	30.9	14.1	8.5	83.0	SH:DK BRN,SLI/SDY,SLI/CALC
5	720-21	5.9	13.1	3.8	76.9	SS:GRY, FN, ARGIL, CALC, W/SLT STRNGRS
6	721-22	3.8	16.3	3.1	77.3	SS:GRY, FN, ARGIL, CALC, W/SLT STRNGRS
7	722-23	4.3	14.1	3.6	79.4	SS:GRY, FN, ARGIL, CALC, W/SLT STRNGRS
8	723-24	38.2	16.5	4.2	76.4	SS:GRY, FN-MED, ARGIL, CALC, W/SLT STRNGRS
9	724-25	3.0	12.4	5.6	79.6	SS:GRY, FN-MED, ARGIL, CALC, W/SLT STRNGRS
10	725-26	3.4	11.7	6.0	78.6	SS:GRY, FN-MED, ARGIL, CALC, W/SLTY
11	726-27	3.8	10.0	7.0	78.0	SS:DK BRN, FN-MED, CALC, V/SLTY
12	727-28	38.2	10.4	26.9	57.6	SS:LT GRY, FN, ARGIL, CALC
13	728-29	39.8	19.2	19.3	46.3	SS:LT GRY, FN, SLI/ARGIL, V/SLI/CALC
14	729-30	52.6	22.1	19.9	52.5	SS:LT GRY, FN, SLI/ARGIL, V/SLI/CALC
15	730-31	16.1	15.7	5.1	62.0	SS:GRY, FN, CLEAN, W/SLT LAM
16	731-32	13.6	17.9	15.7	59.2	SS:GRY, FN, CLEAN, /SLT LAM
17	732-33	6.8	17.7	14.7	52.5	SS:LT GRY, FN, SLI/ARGIL, LOC CALC, W/SH LAM
18	733-34	67.6	18.3	6.0	72.8	SS:LT GRY, FN, SLI/ARGIL, LOC CALC, W/SH LAM
19	734-35	3.0	19.1	5.8	77.1	SS:LT GRY, FN, SLI/ARGIL, LOC CALC, W/SLT LAM
20	735-36	27.1	16.9	4.2	64.0	SS:LT GRY, FN, SLI/ARGIL, W/SH LAM
21	736-37	263.0	23.8	23.6	38.2	SS:GRY, FN, CLEAN
22	737-38	281.0	22.4	21.4	41.1	SS:GRY, FN, CLEAN
23	738-39	453.0	22.7	24.6	42.7	SS:GRY, FN-MED, CLEAN
24	739-40	585.0	23.2	23.7	45.2	SS:GRY, FN, CLEAN
25	740-41	690.0	23.2	22.0	41.4	SS:GRY, FN, CLEAN
26	741-42	730.0	22.6	23.9	46.9	SS:GRY, FN, CLEAN, W/SH LAM
27	742-43	364.0	23.7	20.7	63.0	SS:GRY, FN, CLEAN, W/SH LAM
28	743-44	1220.0	24.5	21.6	63.0	SS:GRY, FN, CLEAN, W/SH LAM
29	744-45	450.0	22.9	25.7	36.7	SS:GRY, FN, CLEAN
30	745-46	770.0	19.6	25.1	37.9	SS:GRY, FN, CLEAN
31	746-47	309.0	21.9	21.0	56.1	SS:GRY, FN, CLEAN
32	747-48	392.0	21.7	18.4	55.4	SS:GRY, FN, CLEAN
33	748-49	166.0	22.7	17.6	56.4	SS:GRY, FN, CLEAN, W/SH LAM
34	749-50	438.0	25.1	15.9	51.8	SS:GRY, FN, CLEAN
35	750-51	381.0	21.5	20.9	55.3	SS:GRY, FN, CLEAN, W/SH LAM
36	751-52	170.0	20.4	16.7	56.9	SS:GRY, FN, CLEAN, W/SH LAM
37	752-53	152.0	23.7	13.5	62.4	SS:GRY, FN, CLEAN, W/SH LAM
38	753-54	371.0	21.1	19.9	55.9	SS:GRY, FN, CLEAN
39	754-55	222.0	25.2	12.0	58.8	SS:GRY, FN, CLEAN

SERVICE #5-A

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

