



02357525

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

RECEIVED
NOV 8 1971

Company MIDWEST OIL CORPORATION Formation "J" SAND Page 1 of 2
Well NO. 4 COLORADO 34-3-59 Cores DIA. CONV. 4" File RP-2-4237
Field PONCHO Drilling Fluid WBM Date Report 10-6-71
County ADAMS State COLORADO Elevation 5039 KB Analysts RM
Location SE SE Sec. 34 T3S R59W Remarks CONVENTIONAL CORE ANALYSIS

CORE ANALYSIS RESULTS
(Figures in parentheses refer to footnote remarks)

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS		POROSITY PERCENT	RESIDUAL SATURATION		PROBABLE PRODUCTION	REMARKS
		HORIZONTAL	VERTICAL		OIL % VOLUME % PORE	TOTAL WATER % PORE		
	6009-12							Shl dk gry vfg bent britt
	6012-19							Ss wh vfg gtz v/cly v/shly
1	6019-20	<0.1	<0.1	16.6	1.2	75.9		Ss wh vfg v/cly shly
2	6020-21	0.4	0.2	20.8	3.8	72.5		Ss wh vfg v/cly shly
3	6021-22	0.3	0.2	20.8	2.4	70.6		Ss wh vfg v/cly shly
4	6022-23	1.0	1.1	20.3	3.9	65.0		Ss wh vfg v/cly s & p
5	6023-24	0.3	0.1	18.1	3.9	73.0		Ss wh vfg v/cly shly
6	6024-25	0.2	<0.1	19.1	3.7	68.0		Ss wh vfg v/cly shly
7	6025-26	0.5	0.1	18.1	3.3	68.5		Ss wh vfg v/cly shly
8	6026-27	2.5	2.1	17.7	3.4	62.6		Ss wh vfg cly
9	6027-28	0.4	0.1	16.6	4.8	62.6		Ss wh vfg v/cly shly
10	6028-29	0.3	<0.1	14.6	7.5	54.1		Ss wh vfg v/cly shly
11	6029-30	3.8	1.0	12.4	7.3	50.0		Ss wh vfg v/cly shly
12	6030-31	7.0	7.3	21.4	5.1	61.6		Ss wh fn v/cly s & p
13	6031-32	1.1	0.4	16.6	6.6	60.3		Ss wh vfg v/cly shly
14	6032-33	1.6	0.4	17.9	6.1	55.9		Ss wh vfg v/cly shly
15	6033-34	3.8	5.1	18.7	5.9	57.2		Ss wh vfg v/cly
16	6034-35	0.5	0.1	17.7	2.8	59.4		Ss wh vfg v/cly shly
17	6035-36	10	8.7	18.5	3.2	52.0		Ss wh fn cly
18	6036-37	8.3	1.8	17.2	3.5	52.9		Ss wh fn cly shly
19	6037-38	17	12	18.5	5.9	49.1		Ss wh fn cly carb
20	6038-39	54	48	19.6	4.1	53.0		Ss wh fn cly
21	6039-40	22	24	18.5	3.2	46.0		Ss wh fn cly s & p
22	6040-41	1.7	0.2	17.6	4.5	48.3		Ss wh fn cly carb lam
23	6041-42	5.5	4.3	13.8	3.6	34.0		Ss wh vfg cly pyritic
24	6042-43	8.6	1.7	16.8	4.8	42.3		Ss wh vfg cly carb lam
25	6043-44	6.9	3.6	16.0	5.0	40.0		Ss wh vfg cly carb
26	6044-45	31	22	14.8	5.4	41.2	VF	Ss wh fn cly carb lam
27	6045-46	8.1	10	14.2	9.1	38.7	VF	Ss wh vfg cly
28	6046-47	5.5	5.5	16.1	10.6	46.0	VF	Ss wh vfg cly carb lam
29	6047-48	16	15	13.5	14.1	23.0		Ss wh fn cly
30	6048-49	23	14	16.2	14.2	34.0		Ss wh fn cly
31	6049-50	16	15	15.7	12.7	33.7		Ss wh fn cly
32	6050-51	24	19	15.1	12.6	35.7		Ss wh fn cly
33	6051-52	9.3	1.9	16.8	11.3	39.9		Ss wh fn v/cly carb
34	6052-53	12	13	12.8	15.6	26.6		Ss wh fn cly
35	6053-54	35	21	17.9	14.5	34.1		Ss wh fn cly

NOTE: SERVICE NO. 5-A, 1-B.

VF = VERTICAL FRACTURE.

(*) REFER TO ATTACHED LETTER. (1) INCOMPLETE CORE RECOVERY-INTERPRETATION RESERVED. (2) OFF LOCATION ANALYSES-NO INTERPRETATION OF RESULTS.

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 operation, or profitableness of any oil, gas or other mineral well or well in connection with which such report is used or relied upon.

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

Company MIDWEST OIL CORPORATION Formation "J" SAND Page 2 of 2
 Well NO. 4 COLORADO 34-3-59 Cores DIA. CONV. 4" File RP-2-4237
 Field PONCHO Drilling Fluid WBM Date Report 10-6-71
 County ADAMS State COLORADO Elevation 5039 KB Analysts RM
 Location SE SE Sec. 34 T3S R59W Remarks CONVENTIONAL CORE ANALYSIS

CORE ANALYSIS RESULTS

(Figures in parentheses refer to footnote remarks)

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS		POROSITY PERCENT	RESIDUAL SATURATION		PROBABLE PRODUCTION	REMARKS
		HORIZONTAL _A	VERTICAL		OIL % VOLUME % PORE	TOTAL WATER % PORE		
36	6054-55	32	6.2	19.3	15.0	33.2		Ss wh fn cly carb lam
37	6055-56	41	39	14.8	10.8	29.7		Ss wh fn sli cly
38	6056-57	41	36	15.8	14.5	32.9		Ss wh fn sli cly
39	6057-58	36	27	16.8	11.3	32.7	VF	Ss wh fn sli cly
40	6058-59	57	44	16.4	14.0	31.1	VF	Ss wh fn sli cly
41	6059-60	44	23	17.6	14.2	33.0		Ss wh fn sli cly
42	6060-61	5.6	0.2	15.9	10.7	53.5		Ss wh vfg cly carb
43	6061-62	34	30	18.3	15.3	36.0		Ss wh fn sli cly
44	6062-63	23	24	14.8	15.5	27.7	VF	Ss wh fn sli cly
45	6063-64	30	31	14.0	13.6	26.4		Ss wh fn sli cly
46	6064-65	36	30	12.7	11.8	23.6		Ss wh fn sli cly
47	6065-66	7.2	9.8	16.5	13.9	30.3		Ss wh fn v/cly
48	6066-67	2.1	1.9	13.5	8.1	36.3		Ss wh vfg v/&ly
49	6067-68	<0.1	<0.1	4.2	0.0	33.3		Ss gry vfg v/cly qtz
	6068-69							LOST CORE

NOTE: SERVICE NO. 5-A, 1-B. VF = VERTICAL FRACTURE.

(*) REFER TO ATTACHED LETTER.

(1) INCOMPLETE CORE RECOVERY—INTERPRETATION RESERVED.

(2) OFF LOCATION ANALYSES—NO INTERPRETATION OF RESULTS.

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 operation, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.



CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

COMPANY MIDWEST OIL CORPORATION FIELD PONCHO FILE RP-2-4237
 WELL NO. 4 COLORADO 34-3-59 COUNTY ADAMS DATE 10-6-71
 LOCATION SE SE Sec. 34 T3S R59W STATE COLORADO ELEV. 5039 KB

CORE-GAMMA CORRELATION

These analyses, opinions or interpretations are based on observations and material 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 operation, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

VERTICAL SCALE: 5" = 100'

CORE-GAMMA SURFACE LOG
(PATENT APPLIED FOR)

GAMMA RAY
RADIATION INCREASE →

COREGRAPH

TOTAL WATER ———
PERCENT TOTAL WATER
80 60 40 20 0

PERMEABILITY ———
MILLIDARCYS
100 50 10 5 1

POROSITY ———
PERCENT

OIL SATURATION -----
PERCENT PORE SPACE
0 20 40 60 80

