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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

FAQ

CORE ANALYSIS RESULTS

Company CONTINENTAL OIL COMPANY — Formation ARBUCKLE — File CP-10-529-FC
Well WATKINS NO. 2 — Core Type DIAMOND — Date Report 5-3-60
Field BEMIS-SHUTTS — Drilling Fluid WATER BASE MUD — Analysts KUHLMAN
County ELLIS — State KANSAS — Elev. 2049' DF — Location SE SW NW SEC 2-11S-18W

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: OIL	RESIDUAL SATURATION PER CENT PORE: TOTAL WATER	SAMPLE DESCRIPTION AND REMARKS
4-17	18-23	28-33	29-36	40-41	42-44	
1	3591.0-91.5	13	7.5	25.4	56.1	Dol, sm-med vugs, loc dense
2	3591.5-92.0	42	15.8	29.7	44.3	Dol, sm-med vugs, loc dense
3	3592.0-93.0	3.6	11.7	12.8	70.0	Dol, sl/vgy, frac, loc dense
4	3593.0-94.0	<0.1	9.3	7.5	90.2	Dol, sl/shy, few pp vugs, loc dense
	~~3594.0-98.0~~					Lost core
5	3598.0-98.5	142	16.8	25.6	48.2	Dol, sl/ool, pp vugs, loc dense
6	3598.5-99.5	16	17.8	26.4	50.0	Dol, w/sh lams, sl/ool, loc dense
7	3599.5-00.5	2.7	16.2	26.6	53.2	Dol, lge vugs, chty, loc dense
	~~3600.5-03.0~~					Lost core
8	3603.0-04.0	<0.1	1.9	~~Tr~~	94.7	Dol, dense, sl/shy, chty
9	3604.0-05.0	8.4	17.6	23.9	54.0	Dol, sl/shy, sl/vgy, loc dense
10	05.0-06.0	1.0	14.8	13.5	50.0	Dol, sl/shy, sl/vgy, loc dense
11	06.0-07.0	6.4	18.3	19.1	55.2	Dol, sl/chty, sl/vgy, loc dense
12	07.0-08.0	0.7	11.0	16.4	60.0	Dol, sl/chty, pp vugs, loc dense
13	08.0-09.0	5.0	5.6	28.6	39.4	Dol, sl/chty, sm vugs, loc dense
14	09.0-10.0	2.4	4.5	22.2	48.8	Dol, vgy, loc dense
15	3610.0-11.0	44	20.0	29.0	49.5	Dol, chty, frac, loc dense
	~~3611.0-14.0~~					Lost core
16	3614.0-15.0	0.4	6.3	11.1	68.2	Dol, sl/shy, vgy, loc dense
17	3615.0-16.0	5.4	12.7	25.2	50.6	Dol, sl/shy, frac, pp vugs, loc dense
18	16.0-17.0	7.6	19.5	30.8	36.6	Dol, shy, loc dense
19	17.0-18.0	<0.1	3.3	30.4	51.6	Dol, shy, dense, weathered cht
20	18.0-19.0	0.1	9.7	19.6	69.0	Dol, frac, loc dense
21	3619.0-20.0	0.2	2.5	16.0	56.0	Dol, frac, pp vugs, chty, loc dense
	~~3620.0-22.0~~					Lost core
22	3622.0-23.0	<0.1	6.5	24.6	58.4	Dol, chty, loc dense
23	3623.0-24.0	0.1	8.4	25.0	60.6	Dol, chty, loc dense
24	24.0-25.0	<0.1	1.8	~~Tr~~	94.5	Dol, dense, chty, frac
25	25.0-26.0	<0.1	2.0	~~Tr~~	95.0	Dol, dense, chty, frac
26	26.0-27.0	<0.1	3.7	27.0	67.5	Dol, dense, sl/chty, frac
27	27.0-28.0	0.1	13.2	37.2	45.5	Dol, pp vugs, loc dense
28	28.0-29.0	0.3	10.6	19.8	56.6	Dol, chty, pp vugs, loc dense
29	29.0-30.0	0.1	8.0	20.0	63.6	Dol, chty, vgy, frac, loc dense
30	30.0-31.0	<0.1	9.1	~~Tr~~	87.7	Dol, dense, w/sh lams
31	3631.0-32.0	8.7	16.0	3.7	82.5	Dol, dense, w/sh lams, chty

These analyses, opinons 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 profitableness 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
DALLAS, TEXAS

File CP-10-529-FC Page No. 2
Well WATKINS NO. 2

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
32	3632.0-33.0	22	19.5	11.9	67.2	Dol, gran
33	3633.0-34.0	9.3	9.9	9.1	77.6	Dol, sl/vgy, frac, loc dense
34	34.0-35.0	2.1	6.4	4.7	89.2	Dol, dense, frac
35	35.0-36.0	3.2	9.8	10.2	78.6	Dol, dense, frac
36	36.0-37.0	<0.1	8.2	8.5	81.8	Dol, dense, chty, few vugs
37	37.0-38.0	<0.1	2.8	Tr	67.8	Dol, dense, w/sh lams
38	38.0-39.0	6.3	16.0	5.0	85.0	Dol, sl/vgy, sl/shy, loc dense
39	39.0-40.0	1.7	6.4	6.2	71.8	Dol, sl/chty, frac, loc dense
40	3640.0-41.0	8.1	6.7	23.8	59.7	Dol, ool, vgy
	3641.0-42.0					Lost core

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CONTINENTAL OIL COMPANY
DATA FOR CORE ANALYSIS

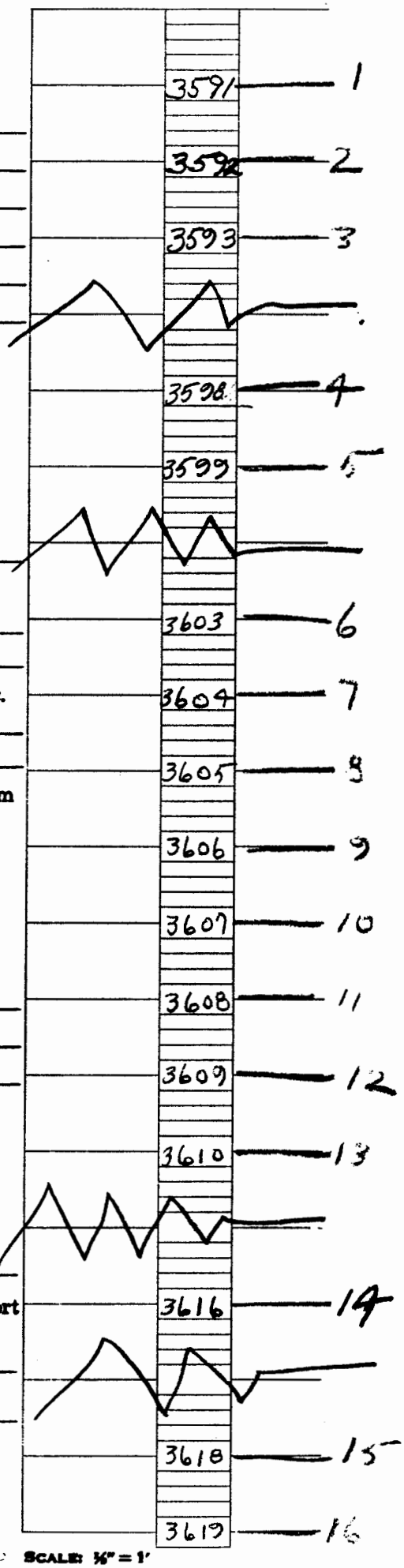
1. Operator
2. Well M E Watkins No. 2
3. Field Bemis - Shutts
4. County Ellis
5. State W. Kans
6. Location
7. Elevation GR DF RB
8. Formation
9. Core Recorded? Yes/No
10. Crude Oil Grav. ° API est. meas.
11. Formation Water Chlorides ppm
12. Analysis Requested.
    a. ☐ Routine Core Analysis (Includes saturation of sealed sample, porosity, horizontal and vertical permeability, chlorides, and irreducible interstitial water tests.)
    b. ☐ Flood Tests: 1/ ft.
    c. ☐ Acid Sol.: 1/ ft.
    d. ☐ Research Study (Attach Detailed Sheet.)
    e. ☐ Water Perm.: 1/ ft
    f. ☐
13. Core No.
14. Date Cored
15. Sampled by
16. Date Shipped
17. Shipped by
18. Shipped Via
19. Type of Core:
    ☐ Conventional
    ☐ Diamond
    ☐ Wire Line
    ☐ Side Wall
    ☐ Cable Tool
    ☐
20. Drilling Fluid Data:
    a. Type
    b. Weight #/
    c. Visc. Marsh Sec.
    d. Water Loss cc/
    e. pH
    f. Chlorides ppm

FAQ

~~FAP~~

21. REMARKS:
22. Send Preliminary Results to:
    at . Results desired
    by (Hour and/or Day)
    for (Operation).
23. Priority ☐ A ☐ B ☐ C
24. AFE or Other Unit Charge
25. Furnish addresses of partner companies that desire copies of final report on reverse side of this form.
26. Analysis requested by:

Core analysis started when we found out it had ~~had~~ been commercially analyzed. Shut down our analysis. Will some date – Some plugs are cut washed + extracted. Plug analysis would not be significant due to mud. RJG 5/11/60



DIVISION COPY

F 13-18-PC

CONTINENTAL OIL COMPANY
DATA FOR CORE ANALYSIS

1. Operator _____
2. Well Watkins # 2
3. Field _____
4. County _____
5. State _____
6. Location _____
7. Elevation _____ GR DF RB
8. Formation _____
9. Core Recorder? Yes/No
10. Crude Oil Grav. _____° API est. meas.
11. Formation Water Chlorides _____ ppm
12. Analysis Requested.
    a. ☐ Routine Core Analysis (Includes saturation of sealed sample, porosity, horizontal and vertical permeability, chlorides, and irreducible interstitial water tests.)
    b. ☐ Flood Tests: 1/_____ ft.
    c. ☐ Acid Sol.: 1/_____ ft.
    d. ☐ Research Study (Attach Detailed Sheet.)
    e. ☐ Water Perm.: 1/_____ ft
    f. ☐ _____
13. Core No. _____
14. Date Cored _____
15. Sampled by _____
16. Date Shipped _____
17. Shipped by _____
18. Shipped Via _____
19. Type of Core:
    ☐ Conventional
    ☐ Diamond
    ☐ Wire Line
    ☐ Side Wall
    ☐ Cable Tool
    ☐ _____
20. Drilling Fluid Data:
    a. Type _____
    b. Weight _____ #/_____
    c. Visc. _____ Marsh Sec.
    d. Water Loss _____ cc/_____
    e. pH _____
    f. Chlorides _____ ppm

FAQ

FAP

21. REMARKS: _____

22. Send Preliminary Results to: _____
    at _____ Results desired
    by _____ (Hour and/or Day)
    for _____ (Operation).
23. Priority ☐ A ☐ B ☐ C
24. AFE or Other Unit Charge _____
25. Furnish addresses of partner companies that desire copies of final report on reverse side of this form.
26. Analysis requested by: _____

