

REPORT

FOR

BELLEAIR OIL CORPORATION

ON

BARKER WELL NO. ^{D-36T}~~D~~-36T

Copy Three Date 2-16-53

E. R. LOTTCHER ENGINEERING

PETROLEUM CONSULTANTS - CORE ANALYSIS

1115A O'FALLON

EARLOUGHER ENGINEERING

PETROLEUM CONSULTANTS - CORE ANALYSES

3316 EAST 21ST STREET

TULSA, OKLAHOMA

February 16, 1953

Belleair Oil Corporation
281 Greenwich Avenue
Greenwich, Connecticut

Attention - Mr. George W. Cain

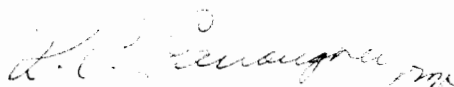
Re - Core Analysis
Barker Well No. O-36
Sec. 4, T.27-S., R.18-E.
Neosho County, Kansas

Gentlemen:

Attached are results of analysis, together with profile and summary,
covering core received from your above well.

Yours very truly

EARLOUGHER ENGINEERING



R. C. Earlougher, Engineer

JMR 1

Encl 1

cc - Lloyd Burton (2)

915
771
H 77

EARLOUGHER ENGINEERING
CORE SUMMARY

Company Belleair Oil Corporation Lease Barker Well No. O-36

Location 250 feet North of South Line, 455 feet West of Center Line

Section 4 Twp. 27-S Rge. 18-E County Neosho State Kansas

Formation Cored Bartlesville Sand Type Core Rotary, 3-inch

Date Cored 1-31-53 Date Shot 2-2-53 Coring Fluid Water

Depths: Elevation, ground	915.0 feet
Started coring, shale	718.0 "
Top of oil sand	720.3 "
Bottom of core, oil sand	741.5 "
Net feet of oil sand cored, including 5.7 ft core loss	18.2 "
Total feet cored	23.5 "
Feet analyzed	18.2 "

Shot Record:

Set Packer _____ Feet

Depth, Feet		Feet	Shell Diameter	Quarts Per Foot	Quarts Total
From	To				

Set packer with bottom of cement at 723.5 feet.
Total Depth 741.5 feet.
Sand not shot.

Completion Data:

Hrs. well stood after coring _____; Feet Fluid in Hole _____ (Oil _____ Water _____)

Clean-out time, hrs. _____; Initial production, bbls. day _____ (Oil _____ Water _____)

Remarks: The Bartlesville section was rotary cored from 718.0 to 741.5 feet commencing in shale and stopping in oil sand. The core was sampled by Belleair Oil Corporation.

Results of analyses indicate 18.2 net feet of probable watered-out oil sand between depths 720.3 and 741.5 feet. This includes 5.7 net feet of core loss but does not include any sand below 741.5 feet.

(Continued following page)

The average oil saturation is 26 per cent and average core water saturation 54 per cent. Average porosity is 19.8 per cent and average permeability 35 millidarcys. Individual values are fairly uniform throughout the section. Laboratory water flooding tests indicated an average residual oil saturation of 17 per cent and total flood pot oil recovery was 2290 barrels per acre.

Estimated oil recovery by water flooding in the field is 500 barrels per acre from the area of which this core is representative.

Although the core indicates the sand to be watered-out in this well it was retained as an oil well for the present time.

JMR 1

SUMMARY OF CORE ANALYSES DATA

COMPANY

Barker

WELL NO. 0-36

Sec.	Formation	Depth, Ft.		Net Ft. of Sand	Avg. Por.	Avg. Core Saturation		Core Oil Content		Permeability		Flood Pot Residuals				Oil Recovery Bbl./Acre	
		From	To			Oil	Water	Avg. B/A. Ft.	Total B/Ac.	Avg. Md.	Capacity Ft. x Md.	Saturation	Oil Content		Diff.	Flood Pot	
													B/A. Ft.	B/Ac.			
BARTLESVILLE																	
1	Oil Sand	720.3	722.0	1.2	15.9	35.	43.	433.	520.	4.9	5.9	22.	59.	271.	330.	190.	280.
2	Oil Sand	723.7	741.5	17.0**	20.1	25.	55.	389.6	610.	37.	634.	17.	71.	265.	4,510.	2,100.	2,330.
1&2	Oil Sand	720.3	741.5	18.2**	19.8	26.	54.	392.7	130.	35.	640.	17.	70.	266.	4,840.	2,290.	2,610.
** Includes 5.7 feet core loss, probable sand.																	

EARLOUGHER ENGINEERING
RESULTS OF SATURATION TESTS

COMPANY Belleair Oil Corporation

WELL Barker No. 0-36

Sof. No.	Depth Feet	Porosity Per Cent	Per Cent Saturation			Avg. Oil Content Bbl./A. Ft.	Feet of Sand		Total Oil Content Bbl./Acre
			Oil	Water	Total		Ft.	Cum.	
1	720.4	15.4	33.	43.	76.	390.	0.8	0.8	310.
2	721.8	16.9	40.	--	--	520.	0.4	1.2	210.
3	724.2	18.1	27.	55.	82.	380.	1.0	2.2	380.
4	725.2	18.3	27.	--	--	390.	1.0	3.2	390.
5	726.2	18.4	21.	70.	91.	310.	1.1	4.3	340.
6	727.2	17.0	24.	--	--	320.	0.8	5.1	260.
7	728.2	23.2	21.	51.	72.	370.	1.0	6.1	370.
8	729.2	20.9	23.	--	--	370.	1.1	7.2	410.
9	730.4	21.0	27.	51.	78.	440.	1.2	8.4	530.
10	731.4	21.5	27.	--	--	450.	1.2	9.6	540.
11	737.9	20.1	25.	58.	83.	380.	5.7	15.3	2,170.
12	738.2	20.3	32.	--	--	500.	0.7	16.0	350.
13	738.8	19.6	31.	45.	76.	470.	0.4	16.4	190.
14	740.2	22.2	21.	--	--	360.	0.8	17.2	290.
15	740.8	18.8	25.	57.	82.	370.	0.6	17.8	220.
16	741.3	19.2	28.	--	--	420.	0.4	18.2	170.

RESULTS OF LABORATORY FLOODING TESTS

COMPANY Belleair Oil CorporationLEASE BarkerWELL NO. 0-36

Sample No.	Depth	Porosity	Perm. Approx.	Before Flooding ^{1/}			Max. Press. Psi.	Water Through C.C.	Time Min.	Flood Pot Residual			Flood Pot Oil Recovery Bbl./A. Ft.
				Oil Sat.	Water Sat.	Oil Content Bbl./A. Ft.				Oil Sat.	Water Sat.	Oil Content Bbl./A. Ft.	
F-2	721.8	16.9	4.0	40.	--	520.	40.	70.	555.	22.	59.	280.	236.
F-4	725.2	18.3	34.	27.	--	390.	40.	4,553.	555.	18.	76.	260.	133.
F-6	727.2	17.0	27.	24.	--	320.	40.	10,701.	615.	16.	84.	220.	100.
F-8	729.2	20.9	56.	23.	--	370.	40.	4,551.	555.	14.	72.	230.	142.
F-10	731.4	21.5	49.	27.	--	450.	40.	3,800.	555.	14.	67.	230.	222.
F-12	738.2	20.3	30.	32.	--	500.	40.	5,229.	615.	17.	72.	260.	240.
F-14	740.2	22.2	48.	21.	--	360.	40.	3,181.	555.	17.	53.	290.	68.
F-16	741.3	19.2	12.	28.	--	420.	10-40.	9,442.	435.	25.	75.	370.	52.

^{1/} Unless otherwise noted, oil content and saturation before flooding equals flood pot oil recovery plus flood pot residual.

EARLOUGHER ENGINEERING
RESULTS OF PERMEABILITY TESTS

COMPANY Belleair Oil Corporation

WELL Barker No. 0-36

Sample No.	Depth Feet	Permeability Millidarcys	Feet of Sand		Capacity Ft. X Md.	Sample No.	Depth Feet	Permeability Millidarcys	Feet of Sand		Capacity Ft. X Md.
			Ft.	Cum. Ft.					Ft.	Cum. Ft.	
1	720.8	2.4	0.6	0.6	1.4	16	729.4	51.	0.5	7.2	26.
2	721.1	2.4	0.2	0.8	0.5	17	730.1	25.	0.6	7.8	15.
3	721.7	10.	0.4	1.2	4.0	18	730.6	44.	0.6	8.4	26.
4	722.1	0.3	0.2*			19	731.2	59.	0.6	9.0	35.
5	723.9	22.	0.4	1.6	8.8	20	731.8	28.	0.6	9.6	17.
6	724.4	51.	0.6	2.2	31.	21	735.0	32.	2.8	12.4	90.
7	724.9	26.	0.5	2.7	13.	22	735.3	25.	2.9	15.3	73.
8	725.4	38.	0.5	3.2	19.	23	738.0	38.	0.4	15.7	15.
9	725.9	42.	0.6	3.8	25.	24	738.5	17.	0.3	16.0	5.1
10	726.4	47.	0.5	4.3	24.	25	739.0	28.	0.4	16.4	11.
11	726.9	25.	0.4	4.7	10.	26	739.9	56.	0.4	16.8	22.
12	727.4	29.	0.4	5.1	12.	27	740.4	40.	0.4	17.2	16.
13	727.9	81.	0.5	5.6	41.	28	740.6	37.	0.6	17.8	22.
14	728.4	59.	0.5	6.1	30.	29	741.1	25.	0.4	18.2	10.
15	728.9	61.	0.6	6.7	37.						

* Not included in cumulative feet of sand.

Recommended
Shot, Qts./Ft.

Permeability, Millidarcys

0 2 4 340 320 300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 Fm. Leg Depth Feet 80 60 40 20 0 Percent Oil Sat. 80 60 40 20 0 Percent Water Sat. 40 20 0 10 20 30 0 200 400 600 800 1000 1200 Percent Porosity Oil Content, Bbls./A.Ft.

Set packer with bottom of cement at 723.5 feet.
Total Depth 741.5 feet.
Sand not shot.

Core loss, probable fracture

Shaded Area - Recoverable oil from laboratory flooding tests.

Sec.	Sand	Depth, Feet		Net Ft. of Sand	Avg. Por.	Average Core Sat.		Core Oil Content		Permeability		Flood Pot Residuals			
		From	To			Oil	Water	Avg. B./A.Ft.	Total Bbl./Ac.	Avg. Mds.	Capacity Ft. x Md.	Saturation		Oil Content	
												Oil	Water	B./A.Ft.	Bbl./Ac.
	<u>BARTLESVILLE</u>														
1	Oil Sand	720.3	722.0	1.2	15.9	35.	43.	433.	520.	4.9	5.9	22.	59.	271.	330.
2	Oil Sand	723.7	741.5	17.0**	20.1	25.	25.	389.	6,610.	37.	634.	17.	71.	265.	4,510.
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**Includes 5.7 feet core loss, probable sand.

COMPANY BELLEAIR OIL CORPORATION

LEASE BARKER WELL NO. 0-36

LOCATION 250' N. of S.L., 455' W. of Center Line

SEC. 4 T. 27S R. 18E COUNTY Nowata

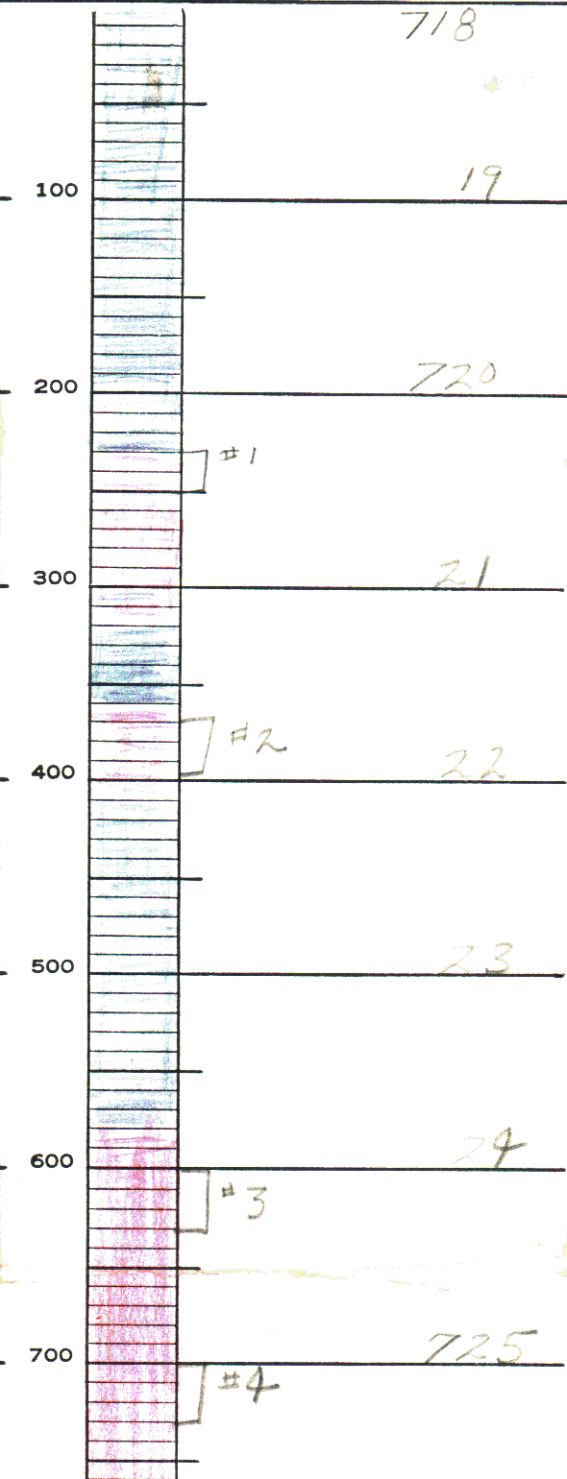
STATE Kansas DATE 2-4-53

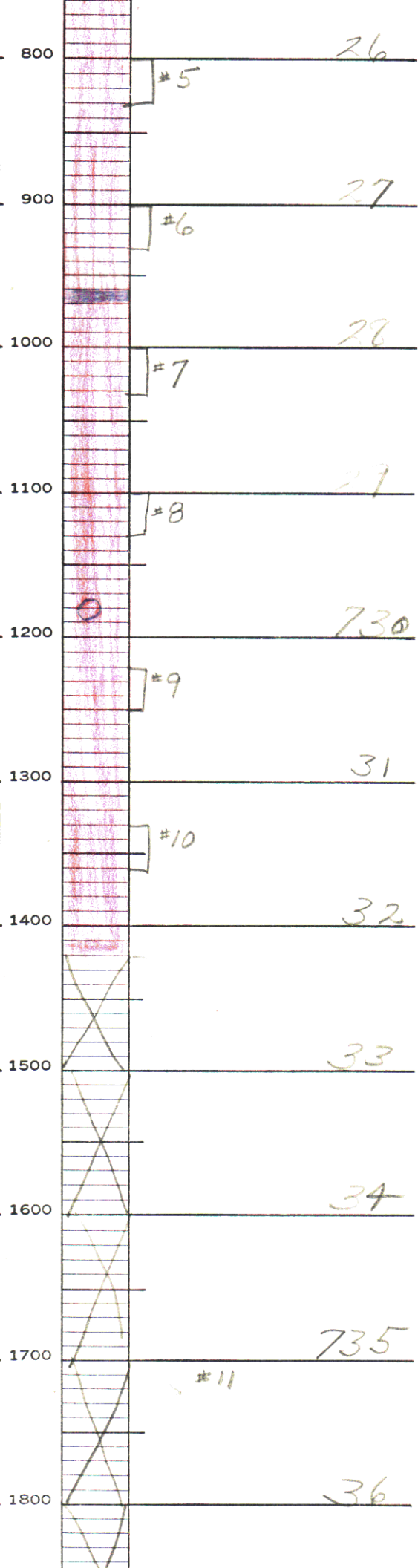
EARLOUGHER ENGINEERING TULSA, OKLAHOMA

T.	R.
27S	18E
ELEVATION	
915 ft.	
PRODUCTION	

Belleair	COMPANY
Barker	0-36
	NO.
COMMENCED	718.0
COMPLETED	741.5
REMARKS	250' N of S. line
	455' W of E
	see 4

FORM 187 - For Sale by Ross-Martin Co., Tulsa





1900

37

2000

38

#12

2100

#13

39

2200

740

#14

2300

#15

41

#16

← END CORE
T.D.

2400

