REV. 8-1-67

TD 195
38N 31W sec 15

6-22-63

TABLE II

CONTINENTAL OIL COMPANY

CORE ANALYSIS REPORT

RESULTS OF LABORATORY TESTS

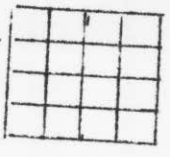
OPERATOR Continental Oil Company WELL Ashley No. 1 LABORATORY No. HBS

SAMPLE NO.	DEPTH FEET	POROSITY %	PERMEABILITY TO AIR MILLIDARCYS (1)		SATURATION % PORE SPACE				SALINITY OF CORE WATER 1000 PPM (4)	PROBABLE PRODUCTION (2)	Sand Grain Density
			HORIZONTAL	VERTICAL	OIL	WATER	VACANT	I.W.S.(3)			
1	30	17.7	26	13	22	68	10				2.66
2	31	21.9	151	57	38	61	1				2.65
3.	32	19.9	43	4.8	24	68	8				2.65
4	33	21.5	285	192	65	35	0				2.64
5	34	24.2	811	497	66	31	3				2.65
6	35	24.4	866	753	69	29	2				2.64
7	36	25.9	801	531	71	29	0				2.66
8	37	25.8	777	758	64	35	1				2.65
9	38	25.7	282	271	48	52	0				2.67
10	39	25.0	449	503	50	47	3				2.66
11	40	24.4	473	499	49	51	0				2.65
12	41	24.2	324	313	30	66	4				2.66
13	42	23.9	495	503	25	72	3				2.66
14	43	21.1	160	121	22	78	0				2.80
15	44	23.8	594	585	27	73	0				2.65
16	45	23.8	480	323	22	75	3				2.66
17	46	23.5	359	110	17	82	1				2.67
18	47	24.6	869	775	18	73	9				2.65

drillers log

700'S. of N. line of NE corner of SE¼
734'W of E. Line

County Bates



sec 15 twp 38 rge 31

owner Conoco

elev ~765 MGS# ____ spl ____

Farm Ashley, William No. 1 TD 170 fm@TD ____ shows oil*
(Conoco Core Hole #1)

status ____ date completed ____

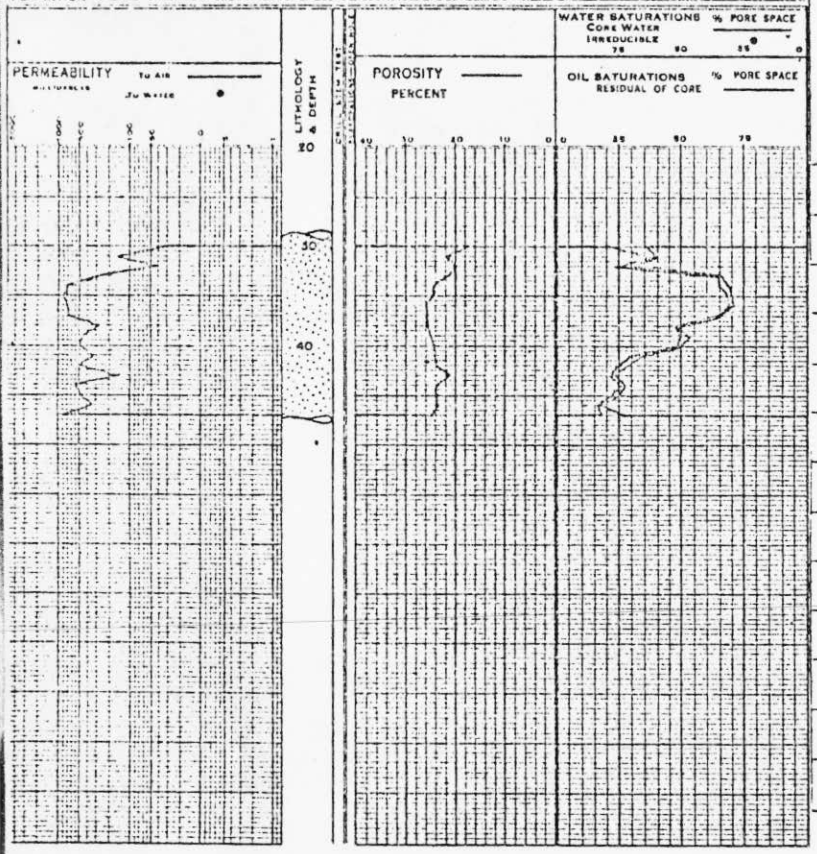
remarks: *reported as bleeding on "sample description" in Bates #1 in corr. file. Also core analysis report on porosity, etc,

(1) "–" INDICATES 'LESS THAN'
(2) PROBABLE PRODUCTION IF COMPLETELY ISOLATED
(3) IRREDUCIBLE INTERSTITIAL WATER SATURATION
(4) EQUIVALENT SODIUM CHLORIDE.

(D) DISINTEGRATED
(NF) NO FLOW
(NCF) NO COMMERCIAL FLOW
(NS) NO SAMPLE OR NO SEALED SAMPLE
(NA) NO ANALYSIS

CONTINENTAL OIL COMPANY
COREGRAPH

OPERATOR CONOCO WELL ASHLEY No. 1 (C.T. No. 1) LABORATORY No. HBS
FIELD REFERENCE ELEVATION MUD WATER
FORMATION BLUE JACKET



DETAILED GEOLOGIC DESCRIPTION

COLOR	% COMPOSITION: SENSITIVE CLAYS	OTHER CLAYS	QUARTZ	FELDSPAR	CALCITE	DOLOMITE				COMPETENCY	CEMENT	% VISIBLE POROSITY: INTERCRYSTALLINE OR GRANULAR	PIN POINT	OOMOLDIC	VUGULAR	FRACTURE	FOSSILS	FRACTURE: ROUGH (UNEVEN)	SPLINTERY	BLOCKY	CONCOIDAL	SEDIMENTARY STRUCTURES (BEDDING)
Lt.gy.-dusky Brn.										Hard	Silica	20-25						x				x-bdd. & v. mica.
Dusky Brn.										Hard	Silica	25						x				x-bdd. w/local steep dips
Lt.gy.-dusky Brn. (salt & pepper)										Hard	Silica	20						x				As Above.

Bates Co.
Oil & Gas

On the following wells Continental Oil Company releases to the Missouri Geological Survey to be used in their open files for public inspection the electric logs, sample descriptions, core analysis, and samples.

William Ashley No. 1
#1 Core Test
Joe Crabb No. 1
#2 Core Test
Charles Crabb No. 1
#3 Core Test
Claypool No, 1
#4 Core Test
D. Jantz No. 1
#5 Core Test
M. Harmon No. 1
Bore Hole #6
Pottorf No. 1
R. Linn No. 1
Core Test #8
B. Yoos No. 1
Core Test #9
Leist No. 1
Core Test #10

Robert C. Bushy

Robert C. Bushy
Division Geologist
Continental Oil Company

SAMPLE DESCRIPTION

Continental Oil Company
#1 William Ashley (Core Hole #1)
73¼' W of E Line, 700' S of N Line of NE corner of SE/4
Sec. 15-38N-31W, Bates County, Missouri

Elev: 765 Approx.

0	- 1	Soil
1	- 6	Red clay & sandy soil
6	- 9	Coarse gravel
9	- 17	Sandy gray sticky shale
17	- 20	Laminated gray shale
20	- 21	Brown fossiliferous limestone
21	- 27	Light gray to black shale
27	- 28	Gray to black shale with trace grey to clear fine grained sand
28	- 29	Gray to clear, fine to med grained sand with asphaltic to free oil
29	- 42	Core #1 (13' cut) - Top 3' stringers black shale. Rest clear to gray, fine to med, subangular to sub-rounded sand w/asphaltic & dark bleeding oil. Upper 3' appeared to be flushed w/fresh wtr.
42	- 57	Core #2 - 5' sand as above ½ to 1' brown fossiliferous limestone 9½' black carbonaceous shale w/fossiliferous foilage and small tree limbs
57	- 60	Black shale as above
60	- 68	Light gray and black shale with sand as above
68	- 80	Black shale
80	- 89	Light gray shale
89	- 110	Gray to black shale
110	- 115	Light gray shale w/gray fine to silty sand stringers
115	- 161	Light gray & black shale with thin stringers sand & sandy shale throughout.
161	- 170	White opaque to light gray semi-opaque chert and gray coarse crystalline fossiliferous limestone.

TD 170'

12-254-S
REV. 8-1-64

PRELIMINARY

#1

CONTINENTAL OIL COMPANY

Report No. 363-64-121-3

CORE ANALYSIS REPORT

RESULTS OF LABORATORY TESTS

This document is the property of CONTINENTAL OIL COMPANY. Its use is restricted to operations in which CONTINENTAL has an interest.

OPERATOR Continental Oil Company WELL Ashley No. 1 LABORATORY No. HBS

SAMPLE NO.	DEPTH FEET	POROSITY %	PERMEABILITY TO AIR MILLIDARCYS (1)		SATURATION % PORE SPACE				SALINITY OF CORE WATER 1000 PPM (4)	PROBABLE PRODUCTION (2)	Sand Grain Density
			HORIZONTAL	VERTICAL	OIL	WATER	VACANT	I.W.S.(3)			
1	30	17.7	26	13	22	68	10				2.66
2	31	21.9	151	57	38	61	1				2.65
3.	32	19.9	43	4.8	24	68	8				2.65
4	33	21.5	285	192	65	35	0				2.64
5	34	24.2	811	497	66	31	3				2.65
6	35	24.4	866	753	69	29	2				2.64
7	36	25.9	801	531	71	29	0				2.66
8	37	25.8	777	758	64	35	1				2.65
9	38	25.7	282	271	48	52	0				2.67
10	39	25.0	449	503	50	47	3				2.66
11	40	24.4	473	499	49	51	0				2.65
12	41	24.2	324	313	30	66	4				2.66
13	42	23.9	495	503	25	72	3				2.66
14	43	21.1	160	121	22	78	0				2.80
15	44	23.8	594	585	27	73	0				2.65
16	45	23.8	480	323	22	75	3				2.66
17	46	23.5	359	110	17	82	1				2.67
18	47	24.6	869	775	18	73	9				2.65

R. J. Cavanaugh
Test Engineer

C. F. Knutson
Reservoir Geology Group Supervisor
Formation Evaluation Section
Production Research Division

RJC-DSG

Copies to:
M. H. Dubrow
Harry Miller
L. P. Thompson
P. R. Warren
J. N. Dew
J. T. Gary
J. E. Landers
H. C. Walther

(1) "—" INDICATES 'LESS THAN'
(2) PROBABLE PRODUCTION IF COMPLETELY ISOLATED
(3) IRREDUCIBLE INTERSTITIAL WATER SATURATION
(4) EQUIVALENT SODIUM CHLORIDE.

(D) DISINTEGRATED
(NF) NO FLOW
(NCF) NO COMMERCIAL FLOW
(NS) NO SAMPLE OR NO SEALED SAMPLE
(NA) NO ANALYSIS