drillers log

1240' FNL, 1172' FWL

county Bates

sec 19 twp 38 rge 31

owner Conoco Inc.

elev ~805 MGS# spl

farm Crabb, Joe No. 1 TD 300 fm@TD shows oil

(Conoco Core Hole #2)

status date completed

"sample description"

remarks: * reported on ~~log~~ in Bates #1 file in corr. file. Also Core analysis report on porosity, etc.

C0011 00070

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 Joe Crabb (Core Hole #2)
1240' FNL, 1172' FWL, Sec. 19-38N-31W
Bates County, Missouri

Elev: 805 Approx.

0 - 2	Yellow shale
2 - 4	Gray shale
4 - 5	Lignite & coal shale
5 - 7	Yellow shale
7 - 9	Gray shale
9 - 14	Limy gray shale
14 - 26	Gray shale
26½ - 3"	Streak coal
26½ - 28½	Gray shale
28½ - 29	Light gray shale, soft
29 - 31	White clear, fine to med subangular sand, no stain - full wtr
31 - 33	Light gray, fine grained sandy shale
33 - 33½	Brown dense hard lime
33½ - 39½	Lt gray, fn grnd sdy sh, sli dk gray last 2-3 ft & less sand
39½ - 40	Dark brown dense hard limestone
40 - 48	Dark gray shale
48 - 53	Gray shale
53 - 55	Black shale
55 - 60	Light gray shale
60 - 63	Dark gray shale
63 - 74	Light gray shale, sticky & slightly fine sandy shale
74 - 89	Dark gray to black shale, some slightly slaty
89 - 91	Black slate shale
91 - 93	Soft gray and slightly green shale
93 - 99½	White sticky soft gray shale & some pl. green shale
99½ - 100	Light gray & white, fine grnd subangular sandy limestone
100 - 112	Dense hard cal fn grained sand, sli light brown to clr & lt gray
112 - 115	Dense light gray sandy shale, slightly coarse at base
115 - 119	Clr to gray, fn to med gr, subangular sand, sli calcareous, sandy streaks in gray sh w/trace asphaltic stain
Core #1	119-125
119 - 120	Light gray, fine to med grnd subangular sli shaly & micaceous sd w/some fine hairline shale streaks - little bleeding oil
120 - 125	Light Gray silty to fine grain dense sd, fine hairline shale stringers from 121½ to 122½, also 123.5 to 123.7. Very slight visible bleeding oil - microscopic bleeding of oil & some bubbles.
125 - 127	(drilled) Sand as above but more consistently med grained sand with continued bleeding oil
Core #2	127-142
127 - 131	Light gray, fine grn, subangular, very sli shaly & mica sand, tr very poor free oil, also some very thin shale stringers.
131 - 142	Light gray, fine-med grn, subang, mica sand w/traces very poor oil stn, no free oil & no odor - a few very scattered shale stringers w/traces of mica (137 - 142 appears to contain considerable fresh wtr, also few traces of oil stain).

#1 Joe Crabb (Core Hole #2)
Sec 19-38N-31W
Bates County, Missouri

142 - 155	Sand as above
155 - 157	Gray shale
157 - 159	Gray sandy shale
159 - 161	Sand as above
161 - 173	Gray sandy shale
173 - 174	Light gray sticky shale
174 - 200	Light gray, fine sandy shale
200 - 213	Sand as above w/some white chalk & shaly - sand appears well washed and almost white in appearance.
213-213.3	Very thin coal streak
213 - 254	Dark gray cherty & platy shale - almost black w/trace green shale @ 220'.
254 - 256	Light gray sandy shale
256 - 268	Light gray shale
268 - 269	Dark gray to almost black shale streaks
269 - 274	Light gray shale
274 - 278	Broken porous sand w/streaks dense brown shale, some sli calcareous.
278 - 289	Dark gray shale
289 - 293	Sli weathered chert - tan opaque sli geodal chert w/some white to gray opaque chert - Conglomerate chert?
293 - 296	Light gray to white sticky soft shale, sli incr grn sh @ 296
296 - 300	White chalky w/light gray dense ls and gray opaque chert & white opaque chert.

RTD 300'

CONTINENTAL OIL COMPANY

CORE ANALYSIS REPORT

Report No. 364-64-121-3

Missouri Thermal Recovery Project

RESULTS OF LABORATORY TESTS

OPERATOR Continental Oil Company WELL J. Crabb No. 1 (C.T.02) LABORATORY No. [illegible]

SAMPLE NO.	DEPTH FEET	POROSITY %	PERMEABILITY TO AIR MILLIDARCYS (1)		SATURATION % PORE SPACE				SALINITY OF CORE WATER 1000 PPM (4)	PROBABLE PRODUCTION (2)
			HORIZONTAL	VERTICAL	OIL	WATER	VACANT	I.W.S. (3)		
1	120	16.7	1.5	0.3	17	79	4			
2	120.5	16.4	1.9	0.4	20	76	4			
3	121.5	16.7	1.4	0.3						
4	123	15.8	1.0	0.2						
5	123.5	14.9	0.4	0.1						
6	124.5	14.8	0.2	0.1						
7	127	12.4	0.1	<.1	4	96	0			
8	128.5	13.8	0.4	<.1	1	98	1			
9	129	13.6	0.7	0.5						
10	130.5	10.3	1.0	0.2						
11	131.5	16.1	3.1	1.0	8	91	1			
12	132.5	17.4	4.3	1.7	6	80	14			
13	133.5	18.1	36	14	5	76	19			
14	134.5	18.9	11	2.8	5	88	7			
15	135.5	18.9	14	6.4	4	92	4			
16	136.5	17.8	4.4	1.4	5	83	12			
17	137.5	13.4	0.5	0.2						
18	138.5	17.9	30	24	4	91	5			
19	139.5	17.3	12	1.6	4	96	0			
20	140.5	17.9	33	30	4	91	5			
21	141.5	15.3	6.1	4.7	3	91	6			

R. J. Cavanaugh
Test Engineer

C. F. Knutson
Reservoir Geology Group Supervisor
Formation Evaluation Section

RJC-DSG

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(1) [illegible] 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