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**CONTINENTAL OIL COMPANY**  
**CORE ANALYSIS REPORT**  
**CORE SUMMARY**

BSJ

REPORT No. 304-54

OPERATOR CONTINENTAL OIL COMPANY REPORT DATE 9-2-54 LABORATORY No. BSJ  
 WELL C. M. CAVIN "A" No. 1 PRELIMINARY REPORT TO R. B. SMITH  
 FIELD GERLANE ON 7-12-54  
 COUNTY BARBER STATE KANSAS REFERENCE ELEVATION 1406' RB  
 LOCATION SEC. 29, T33S, R11W

**CORE RECORDS**

		6-23-54	6-24-54	6-24-54	6-26-54		
DATE CORED		6-23-54	6-24-54	6-24-54	6-26-54		
CORE No.		1	2	3	4		
TYPE OF CORE		DIAMOND	DIAMOND	DIAMOND	DIAMOND		
FORMATION		←-----MISSISSIPPI CHAT-----→					
INTERVAL CORED: FROM	FEET	4490	4535	4554	4575		
TO	FEET	4535	4554	4575	4580		
RECOVERED	FEET	45	19	21	5		
ANALYZED	FEET	33	2	12	5		
TYPE DRILLING MUD		←-----STARCH-IMPERMEX-----→					
WEIGHT	#/ GAL.	10.3	10.3	10.3	10.3		
VISCOSITY	MARSH SEC.	40	44	44	42		
WATER LOSS	CC/30 MIN.	21	15	15	15		
PH		6	6	6	6		
CHLORIDES	PPM	152,000	152,000	152,000	152,000		
REPORTED OIL GRAVITY	°API						

**AVERAGES (PERMEABLE FOOTAGE ONLY)**

FORMATION		MISSISSIPPI CHAT					
INTERVAL AVGD.: FROM	FEET	4490					
TO	FEET	4579					
PRODUCTIVE (2)	FEET						
NON-PRODUCTIVE	FEET						
CORE LOSS	FEET						
PROBABLE PRODUCTION							
POROSITY	%	15.2					
PERMEABILITY - HORZ.	MD.	12					
SATURATION:							
RESIDUAL OIL	% PORE SP.	25					
RESIDUAL WATER	% PORE SP.	33					
VACANT	% PORE SP.	42					
I.W.S. (3)	% PORE SP.						

**DISTRIBUTION:**

**WELL COMPLETION DATA**

1. E. W. WEBB
2. R. G. PARKER
3. R. F. DARROW
4. F. L. DUNN
5. R. B. SMITH
6. C. L. ARNETT
7. S. R. CROSS
8. J. R. SPENCER
9. FILE

COMPLETED AT TD 4580' IN MISSISSIPPI CHAT. 5 1/2" CASING AT 4564'. OPEN HOLE. EST. 1P 308 BARRELS OIL AND TRACE OF WATER FLOWING THROUGH 20/64" CHOKE.

(DRILLING WIRE 8-26-54)

*R. B. Smith*  
*J. R. Spencer*

# CONTINENTAL OIL COMPANY

## CORE ANALYSIS REPORT RESULTS OF LABORATORY TESTS

OPERATOR CONTINENTAL OIL COMPANY WELL C. M. CAVIN "A" No. 1 LABORATORY No. BSJ

SAMPLE NO.	DEPTH FEET	POROSITY %	PERMEABILITY TO AIR MILLIDARCYS (1)		SATURATION % PORE SPACE				FLUORESCENCE YELLOW
			HORIZONTAL	VERTICAL	OIL	WATER	VACANT	I.W.S.(3)	
<b>MISSISSIPPI CHAT</b>									
1	4490	14.7	8.3		12	26	62		90%
2	4491	1.6	-.2						TRACE DULL
3	4492	3.0	-.2						TRACE DULL
4	4493	6.0	0.5		14	48	38		TRACE PALE
5	4494	5.5	1.3						TRACE DULL
6	4495	3.4	-.2						NONE
7	4496	6.5	1.0		22	64	14		10% DULL
8	4497	5.3	1.9						80% DULL
9	4498	8.1	2.8		27	67	6		80% DULL
10	4499	5.7	-.2		29	70	1		10% DULL
11	4500	6.3	4.6						90% DULL
12	4501	6.7	-.2		28	67	5		90% DULL
13	4502	1.7	-.2						90% DULL
14	4503	7.8	-.2		26	60	14		YELLOW
15	4504	10.9	1.4		29	43	28		YELLOW
16	4505	8.7	1.8		40	43	17		YELLOW
17	4506	10.2	-.2		33	28	39		YELLOW
18	4507	8.6	-.2		28	48	24		YELLOW
19	4508	10.1	0.7		25	29	46		YELLOW
20	4509	8.7	-.2		25	45	30		75%
21	4510	10.4	-.2		20	36	44		YELLOW
22	4511	7.7	-.2						
23	4512	11.7	-.2		18	45	37		80%
24	4513	1.1	-.2						
25	4514	20.7	1.3		13	35	52		DULL
26	4515	21.0	2.7		16	47	37		DULL
27	4516	21.7	0.4		18	31	51		DULL
28	4517	14.1	4.0		20	48	32		DULL
29	4518	19.4	1.4		13	45	42		DULL
30	4520	19.5	4.4		18	39	43		90% DULL
31	4521	17.9	0.9		23	33	44		DULL
32	4524	20.4	1.0		24	52	24		50% DULL
33	4525	12.7	-.2		20	36	44		30%
34	4543	15.4	-.2		15	80	5		80% DULL
35	4544	20.4	19		22	25	53		50% DULL
36	4563	10.2	0.4		35	20	45		80% DULL
37	4564	24.9	2.2		11	32	57		95%
38	4565	14.3	2.3						
39	4566	11.4	0		34	33	33		50%
40	4567	31.1	6.1		24	30	46		TRACE

(1) "--" INDICATES 'LESS THAN'  
 (2) PROBABLE PRODUCTION IF COMPLETELY ISOLATED  
 (3) IRREDUCIBLE INTERSTITIAL WATER SATURATION. VALUES MARKED BY AN ASTERISK (\*) ARE LABORATORY DETERMINATIONS.  
 (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

## CORE ANALYSIS REPORT

### RESULTS OF LABORATORY TESTS

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			HORIZONTAL	VERTICAL	OIL	WATER	VACANT	I.W.S. (3)	
41	4568	30.3	24		31	14	55		NONE
42	4569	9.7	2.8		27	3	70		25% DULL
43	4570	2.3	1.4		74	16	10		NONE
44	4571	13.8	NA						
45	4572	32.4	252		34	6	60		TRACE
46	4573	35.6	D		21	2	77		NONE
47	4574	1.9	-.2						
48	4575	0.9	-.2						
49	4576	1.9	8.1						
50	4577	7.6	2.4		25	14	61		NONE
51	4578	NA	NA						
52	4579	10.2	D						

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# CONTINENTAL OIL COMPANY COREGRAPH

OPERATOR CONTINENTAL OIL COMPANY WELL C. M. CAYIN "A" No. 1 LABORATORY No. BSJ  
 FIELD GERLANE REFERENCE ELEVATION 1406' RB MUD STARCH-IMPERMEX  
 FORMATION MISSISSIPPI CHAT (TOP AT 4488')

