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CONTINENTAL OIL COMPANY

CORE ANALYSIS REPORT

CORE SUMMARY

COZ

REPORT No. 435-55

OPERATOR CONTINENTAL OIL COMPANY

REPORT DATE 12-30-55 LABORATORY No. COZ

WELL U. B. HARBAUGH No. 14

PRELIMINARY REPORT TO R. N. PLUMMER

FIELD RHODES

ON 11-18-55

COUNTY BARBER STATE KANSAS

REFERENCE ELEVATION 1421' DF

LOCATION Sec. 29, T33S, R11W

CORE RECORDS

DATE CORED		11-3-55	11-4-55	11-6-55		
CORE No.		2	3	4	5	
TYPE OF CORE		DIAMOND	DIAMOND	DIAMOND	DIAMOND	
FORMATION		MISSISSIPPI				
INTERVAL CORED: FROM	FEET	4505	4533	4546	4563	4621
TO	FEET	4533	4546	4563	4621	4652
RECOVERED	FEET	23	13	17	56	31
ANALYZED	FEET	NONE	13	17	42	NONE
TYPE DRILLING MUD		STARCH				
WEIGHT	#/ GAL	10.4				
VISCOSITY	MARSH SEC.	45				
WATER LOSS	cc/30 MIN	10.2				
PH		6				
CHLORIDES	-PPM %	14				
REPORTED OIL GRAVITY	°API	14				

AVERAGES

FORMATION					
INTERVAL AVGD.: FROM	FEET				
TO	FEET				
PRODUCTIVE (2)	FEET				
NON-PRODUCTIVE	FEET				
CORE LOSS	FEET				
PROBABLE PRODUCTION					
POROSITY	%				
PERMEABILITY - HORZ.	MD.				
SATURATION:					
RESIDUAL OIL	% PORE SP.				
RESIDUAL WATER	% PORE SP.				
VACANT	% PORE SP.				
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. RAY N. PLUMMER
6. C. L. ARNETT
7. S. R. CROSS
8. J. T. GARY
9. FILE

COMPLETED AT TD 4652'. 5 1/2" CASING SET AT 4650'.
PERFORATED 3 INTERVALS BETWEEN 4549' & 4626'. 1P
58 BBLs. OIL, 4 BBLs. WATER & 372 MCF GAS FLOWING
THROUGH 21/64" CHOKE. GOR 6414. DRILLING WIRE 12-6-55.

APL Only

CONTINENTAL OIL COMPANY

CORE ANALYSIS REPORT

RESULTS OF LABORATORY TESTS

OPERATOR CONTINENTAL OIL COMPANY WELL HARBAUGH No. 14

LABORATORY No. COZ

SAMPLE NO.	DEPTH FEET	POROSITY %	PERMEABILITY TO AIR MILLIDARCY (1)		SATURATION % PORE SPACE						REMARKS
			HORIZONTAL	VERTICAL	OIL	WATER	VACANT	I.W.S.(S)			
MISSISSIPPI CHAT											
1	4534	2.3	2.9	-.1							
2	4535	3.3	2.1	8.8							
3	4536	9.0	0.9	0	26	41	33				WATER SENSITIVE SHALES
4	4537	6.1	2.3	-.1	46	51	3				
5	4538	7.2	1.1	-.1	32	55	13				
6	4539	13.5	18	-.1	11	43	46				
7	4540	14.0	1.0	-.1	7	52	41				
8	4541	16.6	1.1	-.1	32	30	38				
9	4542	24.4	53	10	8	45	47				
10	4543	2.9	-.1	-.1							
11	4544	24.8	11	1.1	7	47	46				
12	4545	11.2	0.5	-.1	18	71	11				
13	4546	6.5	-.1	-.1	20	26	54				
14	4547	0.7	-.1	-.1							
15	4548	8.4	-.1	-.1	30	54	16				
16	4549	8.3	8.1	-.1	37	38	25				
17	4550	0.9	-.1	-.1							
18	4551	7.1	1.1	-.1	19	18	63				
19	4552	1.0	-.1	-.1							
20	4553	0.6	-.1	-.1							
21	4554	0.9	-.1	-.1							
22	4555	1.3	-.1	-.1							
23	4556	0.8	-.1	-.1							
24	4557	2.4	-.1	-.1							
25	4558	4.9	-.1	-.1	48	52	0				
26	4559	4.4	-.1	-.1							
27	4560	5.6	-.1	-.1	53	47	0				
28	4561	7.4	-.1	-.1	38	35	27				
29	4562	5.7	-.1	-.1							
30	4563	3.3	-.1	-.1							
31	4564	6.6	-.1	-.1	42	58	0				
32	4565	5.8	-.1	-.1							
33	4566	3.0	-.1	-.1							
34	4567	2.0	-.1	-.1							
35	4568	2.4	-.1	-.1							
36	4569	0.6	-.1	-.1							
37	4570	3.3	-.1	-.1							
38	4571	2.8	-.1	-.1							
39	4572	2.7	-.1	-.1							
40	4573	6.7	-.1	-.1	26	51	23				
41	4574	6.1	-.1	-.1							
42	4575	7.9	-.1	-.1	58	41	1				
43	4576	8.8	0.3	0.2	17	55	28				
44	4577	8.7	0.2	-.1	23	74	3				

- (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

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OPERATOR CONTINENTAL OIL COMPANY WELL

HARBAUGH No. 14

LABORATORY No. COZ

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			HORIZONTAL	VERTICAL	OIL	WATER	VACANT	I.W.S. (3)			
45	4578	10.3	0.6	0.2	19	71	10				
46	4579	13.8	0.6	0.5	20	56	24				
47	4580	8.1	-.1	-.1							
48	4581	14.9	0.8	0.5	18	48	34				
49	4582	6.5	-.1	-.1							
50	4583	7.4	0.1	-.1	15	75	10				
51	4584	8.6	-.1	-.1	21	70	9				
52	4585	6.3	1.5	-.1							
53	4586	8.8	0.2	-.1	22	70	8				
54	4587	8.8	-.1	-.1	16	59	25				
55	4588	7.5	-.1	.6	28	72	0				
56	4589	6.7	-.1	-.1							
57	4590	8.4	-.1	-.1	26	74	0				
58	4591	6.9	-.1	-.1							
59	4592	9.6	-.1	-.1	19	69	12				
60	4593	9.5	-.1	-.1	12	75	13				
61	4594	8.5	-.1	-.1	58	41	1				
62	4595	8.2	-.1	-.1	22	72	6				
63	4596	8.1	-.1	-.1	12	78	10				
64	4597	8.3	-.1	-.1	16	81	3				
65	4598	7.5	-.1	-.1	9	76	15				
66	4599	1.9	-.1	-.1							
67	4614	0.5	-.1	-.1							
68	4615	8.0	-.1	-.1							
69	4616	0.6	-.1	D							FRACTURES
70	4617	0.5	-.1	-.1							"
71	4618	21	11	5.4	23	57	20				
72	4619	9.9	6.9	D							FRACTURES

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COREGRAPH

OPERATOR CONTINENTAL OIL COMPANY WELL U. B. HARBAUGH No. 14 LABORATORY No. CQZ
 FIELD RHODES REFERENCE ELEVATION 1421' DF MUD STARCH
 FORMATION MISSISSIPPI

