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FA

CONTINENTAL OIL COMPANY

Ponca City, Oklahoma
August 31, 1949

CONTINENTAL OIL COMPANY
G. R. SMITH NO. 5 WELL
BOGGS FIELD
BARBER COUNTY, KANSAS

The analysis of 27 feet of Simpson sand from 4886 feet to 4905 feet in the subject well indicates average values as follows: permeability, 331 millidarcys; porosity, 13.8 percent; oil saturation, 23 percent; and water saturation, 22 percent. A study of previous core reports on wells in this reservoir reveals that the black sand which is often present is non-productive even though it has a good oil saturation. The presence of this condition can be determined best by flood tests. Therefore, samples are being saved for flood tests which can be made when the equipment is available.

There seems to be no adequate explanation of the low water saturation data reported unless there was evaporation loss before the samples were sealed.

R. R. Newton
Associate Research Engineer
Production Laboratory
Development and Research Department

RRN-GB
Distribution:

1. Mr. J. B. Steele, Jr.
2. Mr. F. L. Dunn
3. Mr. G. C. Clark
Mr. C. H. McNeese
Mr. M. H. Dubrow
4. Mr. E. W. Webb
Mr. H. H. Hinson
Mr. J. A. Murphy
5. Mr. C. L. Arnett
Mr. L. P. Carpenter
Mr. W. E. Landrum
Mr. T. C. Davis
6. Mr. Bill Iverson
7. Mr. R. L. Messman
8. Kennecott Copper Corporation
9. File

CONTINENTAL OIL COMPANY

CORE ANALYSIS REPORT
CORE SUMMARY

Operator <u>Conoco</u>	Date <u>August 31, 1949</u>	Research Lab. No. <u>FA</u>
Well <u>G. R. Smith No. 5</u>	Date samples received <u>7-21-49</u>	Analysts: <u>Swearingen</u> <u>Finley</u> <u>Hatcher</u>
Field <u>Boggs</u>	Date analysis completed <u>8-1-49</u>	
County <u>Barber</u>	Reported by <u>Telephone</u>	Checked by <u>Cavanaugh</u>
State <u>Kansas</u>	To <u>J.B. Steele Jr.</u> on <u>8-2-49</u>	Distribution:
Location <u>Sec. 21, T. 33S., R. 12W.</u> Type of Core: _____		
Elev. <u>1531</u> XXXXXX	Conventional <input checked="" type="checkbox"/>	Diamond <input type="checkbox"/>
Drilling Mud Data		
Weight <u>9.7</u> #/ <u>Gal.</u>	Wire line <input type="checkbox"/>	Side Wall <input type="checkbox"/>
Visc. <u>39</u> MARSH Sec.	Received in <u>Foil</u>	
Water loss <u>14</u> cc/ <u>7</u> min.		
pH <u>9.5</u>		
Chlorides <u>4000</u> ppm		

CORE RECORD:

Formation cored Simpson Sand

Depths:

Started coring 4853 ft.Top of section 4876 ft.Bottom of section 4907 ft.Bottom of core 4907 ft.Total cored 54 ft.Core recovered 49 ft.Analyzed 27 ft.

REMARKS:

COMPLETION DATA: Completed as a dry hole at TD 4896', in Simpson Sand.
Will be used as a salt water disposal well.
(Hot Sheet - August 24, 1949)

PRODUCTION DATA:

CONTINENTAL OIL COMPANY

CORE ANALYSIS REPORT

RESULTS OF SATURATION TESTS

OPERATOR Conoco WELL G. R. Smith No. 5 RESEARCH LAB. No. FA

SAMPLE NO.	DEPTH FEET	POROSITY %	SATURATION % PORE SPACE			CONNATE WATER % PORE SPACE (1)	Permeability Md.		A.P.I. GRAVITY	RESIDUAL CHLORIDES PPM	REMARKS
			OIL	WATER	VACANT		Horiz	Vert			
1.	4876	9.1	20	8							
1.	4876	9.1	20	8	72		71	60			
2.	4877	12.2					302	239			
3.	4878	11.8	17	22	61		336	136			
4.	4879	11.8					246	234			
5.	4879.5	12.6	20	23	57		332	4.1			
6.	4880	12.3					299	194			
7.	4881	14.8	24	10	66		477	406			
8.	4881.5	14.1					247	207			
9.	4882	13.8	16	41	43		360	72			
10.	4883	14.9	21	18	61		649	101			
11.	4884	15.0	17	22	61		846	776			
12.	4885.5	13.4	28	10	62		244	99			
13.	4886	14.2					520	393			
14.	4887	15.5	27	8	65		419	315			
15.	4892.5	14.9					306	166			
16.	4893	17.0	25	14	61		697				
17.	4894	15.2	24	23	53		370				
18.	4895	15.2	20	20	60		164				
19.	4896	15.9					440				
20.	4897	14.7	21	35	44		158				
21.	4898	16.0	19	31	50		161				
22.	4899	14.9	24	20	56		344				
23.	4900	15.0					711				
24.	4902.5	13.7	26	30	44		215				
25.	4904	11.9					147				
26.	4904.5	11.9	30	16	54		95				
27.	4905.5	10.5	35	23	42		92				
28.	4906.5	13.8	15	40	45		7.4				

SUMMARY

DEPTH FEET FROM	TO	FEET OF SAND	AVG. POROSITY	AVG. OIL SATURATION	AVG. WATER SATURATION	AVG. CONNATE WATER	Avg. Permeability Horizontal
4876	4907	27*	13.8	23	22		331

*Does not include 4.0 feet core loss.

(1) LABORATORY DETERMINATION BY CAPILLARITY UNLESS OTHERWISE NOTED. (NS) NO SAMPLE.

CONTINENTAL OIL COMPANY CORELOG

Operator Conoco
 Well G. R. Smith No. 5
 Field Boggs
 County Barber
 State Kansas
 Location Sec. 21, T. 33S., R. 12W.

Date August 31, 1949
 Research Lab. No. FA
 Cores By _____
 Remarks Simpson sand



