

779

CONTINENTAL OIL COMPANY

RESEARCH AND DEVELOPMENT DEPARTMENT

PRODUCTION RESEARCH DIVISION

TECHNICAL SERVICE REPORT

MARCH 16, 1959

NO. 43-59

ECT

ADDRESS INQUIRY TO:

J. J. REYNOLDS, DIRECTOR

H. F. COFFER

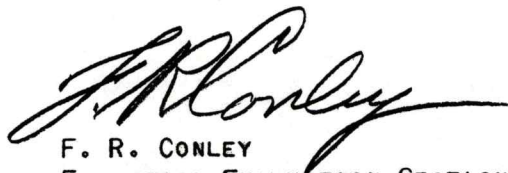
TO MR. E. L. MANERING, PONCA CITY, OKLAHOMA

SUBJECT: CORE ANALYSIS - CONTINENTAL OIL COMPANY - JOHN ORD NO. 30
WELL, COUNTRY CLUB FIELD, LABETTE COUNTY, KANSAS

CORE ANALYSIS RESULTS ARE SUBMITTED FOR THE DENNIS AND BARTLESVILLE SANDS AT THE SUBJECT WELL.

THE DENNIS SAND CORE (200-269 FEET) WAS CUT AND ANALYZED TO DETERMINE ITS POTENTIALITIES FOR INSITU COMBUSTION. THIS CORE WAS CUT USING AN OIL-BASE MUD; AN AVERAGE OIL SATURATION OF 10 PER CENT AND A WATER SATURATION OF 66 PER CENT WERE OBTAINED. THIS SAND AT THIS WELL WILL PRODUCE ONLY WATER.

THREE INTERVALS OF THE BARTLESVILLE SAND WERE PERFORATED BETWEEN 689 AND 732 FEET FOR AN INITIAL POTENTIAL OF 35 BARRELS OIL AND 36 BARRELS WATER PUMPING. TD IS 778 FEET.



F. R. CONLEY

FORMATION EVALUATION SECTION SUPERVISOR

RJC-RW

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CONTINENTAL OIL COMPANY

CORE ANALYSIS REPORT

CORE SUMMARY

OPERATOR <u>CONTINENTAL OIL COMPANY</u>	REPORT DATE <u>3-16-59</u>	LABORATORY No. <u>ECT</u>
WELL <u>JOHN ORD No. 30</u>	PRELIMINARY REPORT TO <u>E. L. MANERING</u>	
FIELD <u>COUNTRY CLUB</u>	ON <u>1-17-59</u>	
COUNTY <u>LABETTE</u> STATE <u>KANSAS</u>	REFERENCE ELEVATION <u>972' DF</u>	<u>792' DF</u>
LOCATION _____	<i>per Core Graph</i>	

CORE RECORDS

DATE CORED		1-3-59	1-13-59				
CORE No.		1-4-59	1-14-59				
TYPE OF CORE		1	2				
FORMATION		DIAMOND	DIAMOND				
INTERVAL CORED: FROM	FEET	DENNIS	BARTLESVILLE				
To	FEET	200	654				
RECOVERED	FEET	269	732				
ANALYZED	FEET	69	63				
TYPE DRILLING MUD		67	37				
WEIGHT	#/ GAL	OIL BASE	OIL BASE				
VISCOSITY	MARSH SEC.	7.8	7.8				
WATER LOSS	CC/	50	50				
PH		0	0				
CHLORIDES	PPM	-	-				
REPORTED OIL GRAVITY	°API	-	-				
		25	35				

AVERAGES (PERMEABLE FOOTAGE ONLY)

FORMATION		DENNIS	-----BARTLESVILLE-----				
INTERVAL AVGD.: FROM	FEET	200	689	729			
To	FEET	269	707	732			
PRODUCTIVE (2)	FEET						
NON-PRODUCTIVE	FEET						
CORE LOSS	FEET						
PROBABLE PRODUCTION							
POROSITY	%	17.7	16.2	17.4			
PERMEABILITY - HORZ.	MD.	22	37	6.3			
SATURATION:							
RESIDUAL OIL	% PORE SP.	10	29	20			
RESIDUAL WATER	% PORE SP.	66	48	62			
VACANT	% PORE SP.	24	23	18			
I.W.S. (3)	% PORE SP.	32	31	43			

WELL COMPLETION DATA

CONTINENTAL OIL COMPANY

CORE ANALYSIS REPORT

RESULTS OF LABORATORY TESTS

OPERATOR CONTINENTAL OIL COMPANY WELL JOHN ORD No. 30 LABORATORY No. ECT

SAMPLE NO.	DEPTH FEET	POROSITY %	PERMEABILITY TO AIR MILLIDARCY (1)		SATURATION % PORE SPACE				SALINITY OF CORE WATER 1000 PPM (4)	PROBABLE PRODUCTION (2)	
			HORIZONTAL	VERTICAL	OIL	WATER	VACANT	I.W.S. (3)			
DENNIS SAND											
1s	200	16.4	1.7	0.8	13	60	27	35			
2s	201	11.1	6.7	<.1							
3s	202	16.7	2.2	0.9	9	60	31				
4s	203	18.4	3.8	2.4	9	53	38				
5s	204	16.5	2.3	0.5	7	74	19	40			
6s	205	16.2	9.7	3.9	17	59	24				
7s	206	18.5	4.8	2.4	15	50	35	32			
8s	207	18.4	5.4	2.1	15	53	32				
9s	208	18.7	16	12	20	43	37				
10s	209	18.4	7.9	4.1	14	50	36				
11s	210	8.9	<.1	<.1							
12s	211	9.0	1.0	<.1							
13s	212	16.5	2.5	0.9	0	74	26				
14s	213	13.8	1.8	0.3	0	92	8				
15s	214	9.6	7.6	2.1							
16s	215	20.7	87	70	15	57	28	22			
17s	216	20.3	84	4.9	13	48	39				
18s	217	19.7	92	34	14	46	40	24			
19s	218	18.4	51	8.9	6	52	42				
20s	219	20.3	86	31	18	42	40				
21s	220	20.4	76	38	11	47	42	25			
22s	221	17.9	52	2.4	4	62	34				
23s	222	18.6	32	14	8	52	40				
24s	223	17.3	23	9.0	8	57	35				
25s	224	15.1	2.5	0.4	1	73	26				
26s	225	18.0	16	9.1	1	57	42	30			
27s	226	17.8	11	3.0	3	61	36				
28s	227	18.5	19	7.8	5	58	37				
29s	228	18.4	16	6.4	8	54	38				
30s	229	18.3	10	2.2	10	63	27				
31s	230	18.5	18	4.0	3	59	38				
32s	234	17.3	9.4	4.0	9	55	36	36			
33s	235	18.0	9.7	2.2	17	53	30				
34s	236	18.9	16	2.1	18	49	33				
35s	237	18.4	11	6.4	22	50	28				
36s	238	18.0	11	2.7	25	50	25	35			
37s	239	18.3	11	3.4	18	53	29				
38s	240	19.7	23	8.6	25	48	27				
39s	241	17.3	8.7	1.9	15	56	29	34			
40s	242	17.6	8.8	1.9	3	71	26				
41s	243	18.6	45	31	5	45	50				
42s	244	16.1	6.1	1.4	6	79	15				

(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

CORE ANALYSIS REPORT

RESULTS OF LABORATORY TESTS

OPERATOR CONTINENTAL OIL COMPANY WELL JOHN ORD No. 30 LABORATORY No. ECT

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			HORIZONTAL	VERTICAL	OIL	WATER	VACANT	I.W.S. (3)			
43s	245	18.2	19	19	24	49	27				
44s	246	17.4	7.7	5.3	4	85	11				
45s	247	19.8	41	23	24	45	31	28			
46s	248	19.2	26	4.6	19	50	31				
47s	249	19.3	29	5.3	25	53	22				
48s	250	18.7	25	9.0	11	58	31				
49s	251	17.6	20	2.0	5	82	13				
50s	252	18.3	12	1.8	3	80	17				
51s	253	18.3	11	2.4	1	86	13				
52s	254	16.3	18	5.6							
53s	255	19.4	32	20	5	83	12	28			
54s	256	16.7	6.0	1.8	1	93	6				
55s	257	17.6	6.6	2.1	10	86	4	39			
56s	258	15.3	1.2	<.1	4	83	13				
57s	259	18.4	12	9.0	2	88	10	34			
58s	260	18.4	16	12	3	78	19				
59s	261	19.1	19	10	3	77	20	34			
60s	262	19.3	33	17	5	84	11				
61s	263	19.5	39	25	1	87	12				
62s	264	18.9	32	17	6	77	17				
63s	265	19.9	48	32	3	87	10				
64s	266	19.4	26	10	4	85	11	30			
65s	267	17.4	10	3.5	6	80	14				
66s	268	15.3	71	37	29	45	26				
67s	269	16.9	2.9	<.1	10	76	14				

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CONTINENTAL OIL COMPANY

CORE ANALYSIS REPORT

RESULTS OF LABORATORY TESTS

OPERATOR CONTINENTAL OIL COMPANY WELL JOHN ORD No. 30 LABORATORY No. ECT

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)			
BARTLESVILLE SAND											
2	657	5.5	0.4								
5	660	13.3	0.3		10	84	6				
8	663	13.2	0.6		26	59	15				
11	666	14.3	0.5		23	67	10				
14	669	7.9	<.1								
17	672	4.8	<.1								
20	675	8.2	<.1								
23	678	12.2	1.0		10	75	15				
26	681	6.9	<.1								
29	684	10.5	3.8		83	8	9				
32	687	9.8	<.1								
34	689	10.6	<.1		11	87	2				
35	690	13.7	2.6		31	42	27				
36	691	14.4	2.7		31	49	20				
37	692	15.2	1.2		13	64	23				
38	693	17.2	4.0		21	52	27	35			
39	694	16.1	1.7		14	64	22	40			
40	695	9.6	<.1								
41	696	9.2	<.1		12	85	3				
42	697	9.2	0.5		57	41	2				
43	698	8.7	<.1								
44	699	8.5	0.2								
45	700	16.1	0.4		18	59	23				
46	701	18.5	42		34	39	27	29			
47	702	20.4	72		32	39	29	25			
48	703	18.6	117		34	40	26	28			
49	704	19.9	50		28	47	25	31			
50	705	19.6	87		31	44	25	30			
51	706	19.1	132		29	46	25	32			
52	707	15.4	<.1		28	49	23				
707-722' SHALE											

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CONTINENTAL OIL COMPANY

CORE ANALYSIS REPORT

RESULTS OF LABORATORY TESTS

OPERATOR CONTINENTAL OIL COMPANY WELL JOHN ORD No. 30

LABORATORY No. ECT

SAMPLE NO.	DEPTH FEET	POROSITY %	PERMEABILITY TO AIR MILLIDARCY (1)		SATURATION % PORE SPACE				SALINITY OF CORE WATER 1000 PPM (4)	PROBABLE PRODUCTION (2)	
			HORIZONTAL	VERTICAL	OIL	WATER	VACANT	I.W.S. (3)			
53	722	5.4	<.1								
56	725	5.3	D								
59	728	7.8	<.1								
60	729	17.2	2.9		16	64	20	45			
61	730	16.9	6.3		20	63	17	44			
62	731	17.4	7.4		33	60	7	39			
63	732	18.0	8.5		12	61	27	43			

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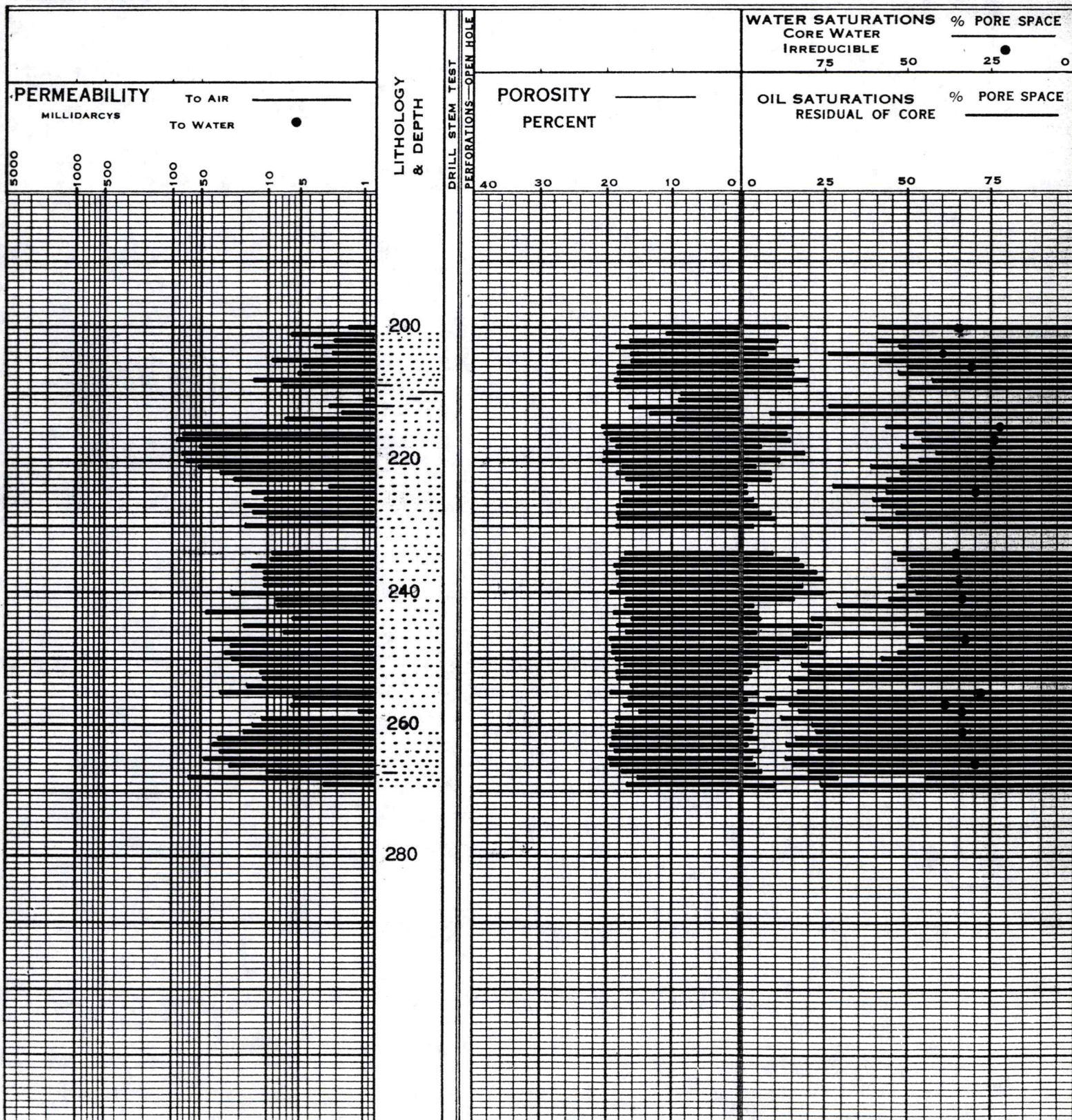
(NCF) NO COMMERCIAL FLOW

(NS) NO SAMPLE OR NO SEALED SAMPLE

(NA) NO ANALYSIS

CONTINENTAL OIL COMPANY
COREGRAPH

OPERATOR CONTINENTAL OIL COMPANY WELL JOHN ORD No. 30 LABORATORY No. ECT
FIELD COUNTRY CLUB REFERENCE ELEVATION 792' DF MUD OIL BASE
FORMATION DENNIS SAND



CONTINENTAL OIL COMPANY

PRODUCTION LABORATORY

IRREDUCIBLE WATER — PERMEABILITY

FIELD COUNTRY CLUB STATE KANSAS

FORMATION DENNIS SAND

WELL

JOHN ORD No. 30

LAB. NO.

ECT

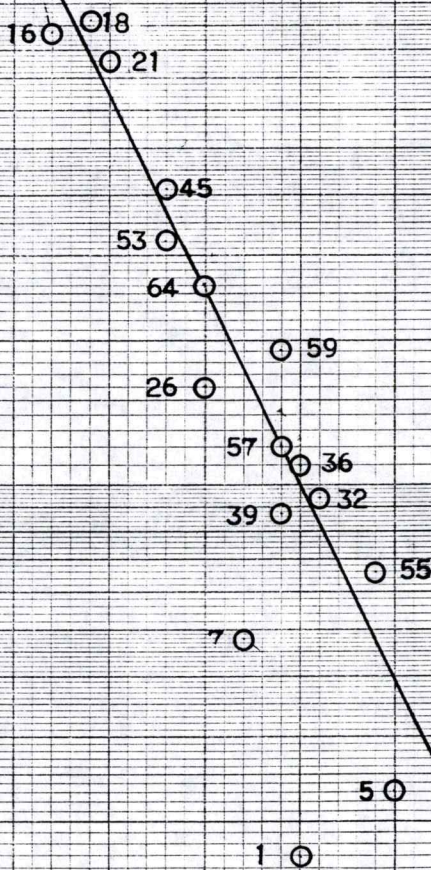
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PERMEABILITY (MILLIDARCYS)

1.0

0.1

IRREDUCIBLE WATER



CONTINENTAL OIL COMPANY

PRODUCTION LABORATORY

CONTINENTAL OIL COMPANY

COREGRAPH

IRREDUCIBLE WATER — PERMEABILITY

FIELD COUNTRY CLUB

STATE KANSAS

FORMATION BARTLESVILLE

OPERATOR CONTINENTAL OIL COMPANY

WELL JOHN ORD No. 30

WELL 7921 DE

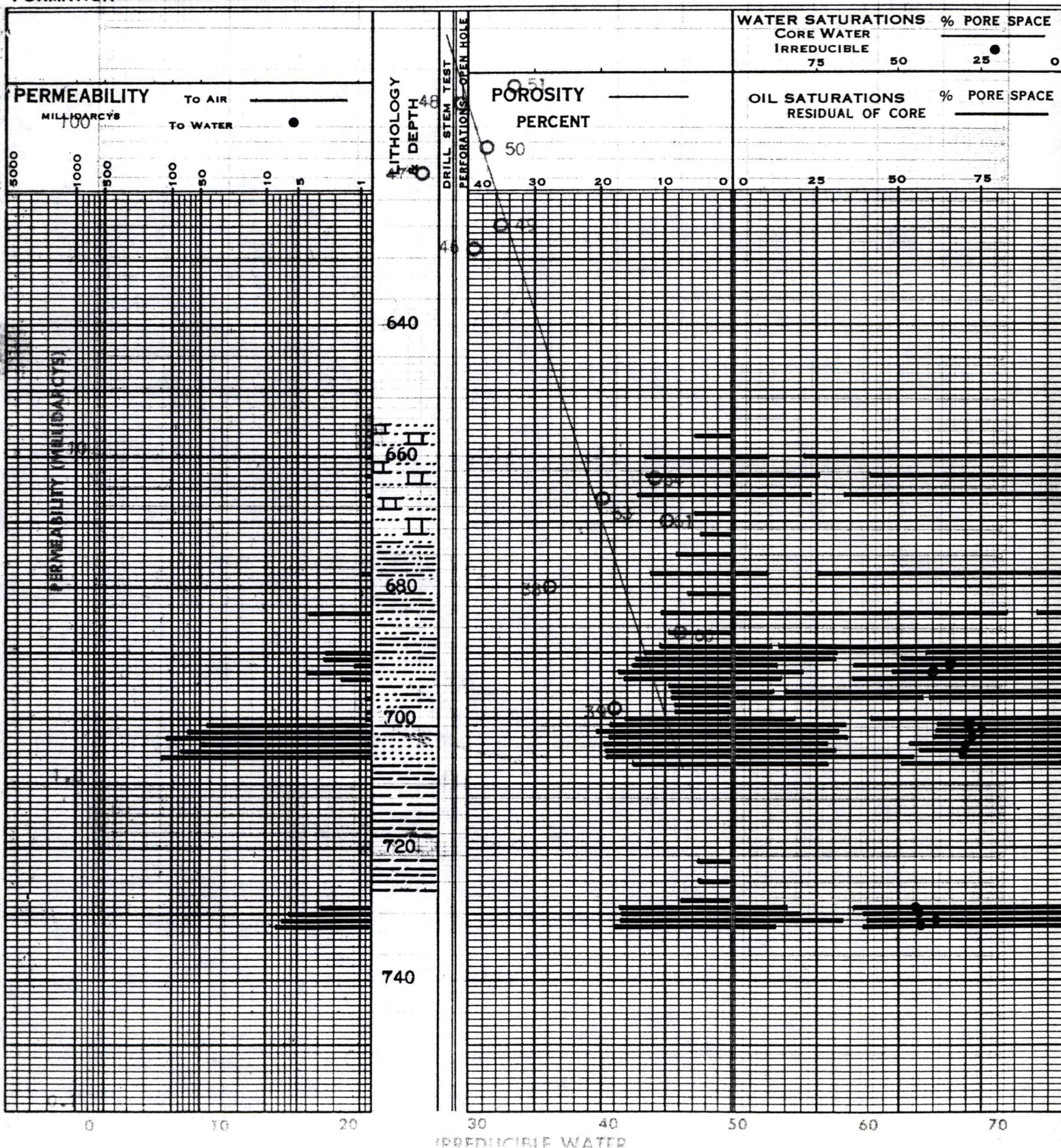
LABORATORY No. ECT

FIELD COUNTRY CLUB

REFERENCE ELEVATION JOHN ORD No. 30

MUD OIL BASE

FORMATION BARTLESVILLE SAND



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1000

CONTINENTAL OIL COMPANY
PRODUCTION LABORATORY

IRREDUCIBLE WATER - PERMEABILITY
FIELD COUNTRY CLUB STATE KANSAS
FORMATION BARTLESVILLE

WELL LAB. NO.
JOHN ORD No. 30 EGT
X ORD #34 FSA
X ORD #35 FSI
O Ord #30 Perun

