774

BL 2

CONTINENTAL OIL COMPANY

PONCA CITY, OKLAHOMA
APRIL 2, 1954

REPORT No. 96-54

CORE ANALYSIS REPORT

CONTINENTAL OIL COMPANY
A. W. SHONYO NO. 14 WELL
NORTH EDWARDS FIELD
ELLSWORTH COUNTY, KANSAS

THE SUBJECT WELL IS LOCATED IN SEC. 9, T17S, R8W. REFERENCE ELEVATION IS ROTARY BUSHING AT 1650 FEET.

FLOOD POT TESTS WERE MADE ON THE PERMEABLE CORED SECTIONS OF SAND AT THIS WELL, AS NOTED UNDER TABULATED RESULTS.

AVERAGE VALUES FOR THE CORED SECTION OF PAY SAND ARE SUMMARIZED AS FOLLOWS:

NET PAY (CORED SECTION ONLY)	5 FEET
IRREDUCIBLE WATER SATURATION	35 %
INITIAL OIL SATURATION (100 - S_{IWS})	65 %
RESIDUAL OIL AFTER FLOODING	21 %
EFFECTIVE POROSITY	16 %
PERMEABILITY TO AIR	47 MD.
TOTAL RECOVERABLE OIL, BBLS/ACRE/FT. (PRIMARY + SECONDARY)	364 BBLS

THE ABOVE RECOVERABLE OIL ASSUMES A FORMATION VOLUME FACTOR OF 1.20 AND AN 80% RECOVERY EFFICIENCY.

F. R. CONLEY
SENIOR RESEARCH ENGINEER
PRODUCTION RESEARCH DIVISION
DEVELOPMENT AND RESEARCH DEPARTMENT

FRC-VH
DISTRIBUTION:
1. E. W. WEBB
2. R. G. PARKER
3. R. F. DARROW
4. LEWIS McGUIRE
5. G. C. SAWVEL
6. C. L. ARNETT
7. S. R. CROSS
8. J. R. SPENCER
9. FILE

F 13-256-S
REV. 11-15-49

CONTINENTAL OIL COMPANY

CORE ANALYSIS REPORT

CORE SUMMARY

REPORT No. 96-54

OPERATOR CONTINENTAL OIL COMPANY — REPORT DATE 4-2-54 — LABORATORY No. BLZ

WELL A. W. SHONYO No. 14 — PRELIMINARY REPORT TO G. C. SAWYER

FIELD NORTH EDWARDS — ON 2-18-54

COUNTY ELLSWORTH — STATE KANSAS — REFERENCE ELEVATION 1650' RB

LOCATION SEC. 9, T17S, R8W

CORE RECORDS

DATE CORED		2-11-54
CORE NO.		1
TYPE OF CORE		DIAMOND
FORMATION		SIMPSON
INTERVAL CORED: FROM	FEET	3123
TO	FEET	3143
RECOVERED	FEET	20
ANALYZED	FEET	9
TYPE DRILLING MUD		STARCH
WEIGHT	#/ GAL.	10.3
VISCOSITY	MARSH SEC.	39
WATER LOSS	cc/ 30 MIN.	5.8
PH		6
CHLORIDES	PPM	15.2
REPORTED OIL GRAVITY	°API	40

AVERAGES (PERMEABLE FOOTAGE ONLY)

FORMATION		SIMPSON
INTERVAL AVGD.: FROM	FEET	3138
TO	FEET	3142
PRODUCTIVE (2)	FEET	
NON-PRODUCTIVE	FEET	
CORE LOSS	FEET	
PROBABLE PRODUCTION		
POROSITY	%	16.1
PERMEABILITY — HORZ.	MD.	47
SATURATION:		
RESIDUAL OIL	% PORE SP.	23
RESIDUAL WATER	% PORE SP.	48
VACANT	% PORE SP.	29
I.W.S. (3)	% PORE SP.	35*

* TEST DATA ONLY

WELL COMPLETION DATA

COMPLETED AT PB 3177' FROM TD 3210'. 5 1/2" CASING AT 3203'. PERFORATED 3139'-3158' AND 3170'-3174'. FRACTURED WITH 4000 GAL. OIL AND 6000# SAND. IP PUMPING 179 BARRELS.

(DRILLING WIRE 3-9-54)

P-13-254-B
REV. 6-1-51

CONTINENTAL OIL COMPANY

CORE ANALYSIS REPORT

RESULTS OF LABORATORY TESTS

OPERATOR CONTINENTAL OIL COMPANY WELL A. W. SHONYO No. 14 LABORATORY No. BLZ

SAMPLE NO.	DEPTH FEET	POROSITY %	PERMEABILITY TO AIR MILLIDARCYS (1)		SATURATION % PORE SPACE				ACID SOL. %		RESIDUAL OIL AFTER WATER FLOODING % PORE SPACE
			HORIZONTAL	VERTICAL	OIL	WATER	VACANT	I.W.S.(3)			
SIMPSON SAND											
1	3134	3.4	-.2		3	62	35		42		
2	3135	2.9	-.2		10	81	9		41		
3	3136	2.1	-.2		14	86	0		78		
4	3137	3.3	-.2		25	62	13		83		
5	3138	19.3	167		33	36	31	15*	43		23
6	3139	15.3	31		24	45	31	38*	41		21
7	3140	15.1	7.2		18	48	34	39*	49		19
8	3141	13.4	7.7		18	60	22	49*	55		23
9	3142	17.0	23		23	53	14	34*	32		20

(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