

KANSAS

WELL COMPLETION REPORT AND
DRILLER'S LOGAPI No. 15 — 141 — 20,097
County Number

Operator

Frontier Oil Company

Address

1720 KSB Building, Wichita, Kansas 67202

Well No.

1

Lease Name

Angel

Footage Location

330 feet from (X) (S) line 1220 feet from (E) (W) line NE/4

Principal Contractor

Red Tiger Drilling Company

Geologist

Richard Parker

Spud Date

5/18/81

Date Completed

10-10-81

Total Depth

3,302'

P.B.T.D.

Directional Deviation

none

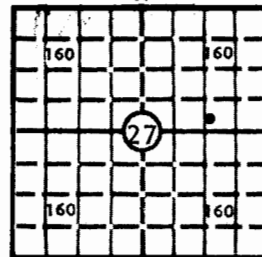
Oil and/or Gas Purchaser

Koch Oil Company

S. 27 T. 10S R. 15W E W

Loc. S/2 S/2 NE/4 (100'E of)

County Osborne

640 Acres
N

Locate well correctly

Elev.: Gr. 1771

DF 1774 KB 1,776'

CASING RECORD

Report of all strings set — surface, intermediate, production, etc.

Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs/ft.	Setting depth	Type cement	Sacks	Type and percent additives
Surface	12 1/4"	8 5/8"	24#	224'	Common	165	2% Gel, 3% C.C.
Production	7 7/8"	4 1/2"	10.5#	3,300'	Common	200	10% Salt

LINER RECORD

Top, ft.	Bottom, ft.	Sacks cement
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PERFORATION RECORD

Shots per ft.	Size & type	Depth interval
4	DPs	3024-3028

TUBING RECORD

Size	Setting depth	Packer set at
2 3/8"	3375	n/a

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
500 Gal 15% Regular STATE CORPORATION COMMISSION	3024-3028
JUL 27 1982	

CONSERVATION DIVISION
Wichita, Kansas

INITIAL PRODUCTION

Date of first production		Producing method (flowing, pumping, gas lift, etc.)			
10-10-81		pumping			
RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio	
	5 bbls.	-0- MCF	2 bbls.	-0- CFPB	
Disposition of gas (vented, used on lease or sold)			Producing interval(s)		
n/a			3024-3028 (Lansing-KC)		

INSTRUCTIONS: As provided in KCC Rule 82-2-125, within 90 days after completion of a well, one completed copy of this Drillers Log shall be transmitted to the State Geological Survey of Kansas, 4150 Monroe Street, Wichita, Kansas 67209. Copies of this form are available from the Conservation Division, State Corporation Commission, 245 No. Water, Wichita, Kansas 67202. Phone AC 316-522-2206. If confidential custody is desired, please note Rule 82-2-125. Drillers Logs will be on open file in the Oil and Gas Division, State Geological Survey of Kansas, Lawrence, Kansas 66044.

Operator Frontier Oil Company		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.: Oil	
Well No. 1	Lease Name Angel	Ruggles South	
S 27 T 10S R 15W 100'E of C/S 1/2 S 1/2 NE 1/4		Ossorne County, Ks	
WELL LOG		SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.	
Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.			
FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME
			DEPTH
Shale & Sand	0	228	Anhydrite 909(+ 867
Clay & Red Bed	228	848	Brownville Lm 2324(- 548
Shale & Red Bed	848	909	Dover Lime 2401(- 625
Anhydrite	909	942	Tarkio 2440(- 664
Shale & Red Bed	942	1160	Howard 2627(- 851
Shale	1160	2114	Topeka 2652(- 876
Lime & Shale	2114	2270	Heebner 2898(-1122
Shale & Lime	2270	2425	Toronto 2921(-1145
Shale	2425	2504	Lansing-KC 2946(-1170
Lime	2504	3302	BKC 3205(-1429
RTD		3302	Conglomerate 3296(-1520
			RTD 3302(-1526
			4 1/2" 3300(-1524
USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.			
Date Received	George A. Angle Owner Signature Title 10-20-81 Date		

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