

KANSAS DRILLERS LOG

S. 9 T. 12 R. 15 ^K/_W

API No. 15 — 167 — 21,234
County Number

Loc. SE NW NW

County Russell

Operator

Mai Operations

Address

Box 33 Russell, Kansas 67665

Well No.

#12

Lease Name

Sutton

Footage Location

990 feet from (N) (S) line 990 feet from (E) (W) line

Principal Contractor

Duke Drilling

Geologist

Francis Whisler

Spud Date

Sept 16, 1978

Total Depth

2980

P.B.T.D.

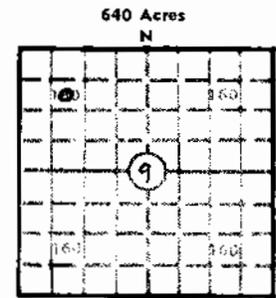
2951

Date Completed

Sept 21, 1978

Oil Purchaser

Koch Oil



Locate well correctly

Elev.: Gr. 1707

DF 1709 KB 1712

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 1/2	8 5/8	32#	535	common	275	2%gel 3%cc
Production	7 7/8	5 1/2	14#	2979	50-50 pezmix	250	2%gel 18%salt .75% GPR2

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			2.5	Jumbo jet	2370-78
TUBING RECORD Size <u>2 1/16</u> <u>2 1/16</u> Setting depth <u>2785</u> <u>2317</u> Packer set at <u>2785</u> <u>2317</u>			4	Golden jets	2904-08 2883-87
			4	Golden jets	2862-66

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
1000 gal noneE and 3000 gal CRA	2862 thru 2908
Frac 12,500# sand 10-20 sand with 500 gal acid	2370-78

INITIAL PRODUCTION

Date of first production		Producing method (flowing, pumping, gas lift, etc.)			
RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio	
	bbls.	MCF	bbls.	CFPB	
Disposition of gas (vented, used on lease or sold)			Producing interval(s)		

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, 3830 So. Meridian (P.O. Box 17027), Wichita, Kansas 66217. 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 Mai Operations		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.: Dual injection
Well No. 12	Lease Name Sutton	
S <u>9</u> T <u>12S</u> R <u>15W</u> ^E _W		

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
As per drillers log attached				
DST# 1- 2357-2390 15-60-60-60 with fair steady blow throughout test. Recovery: 180' of gas -60' of Oil cut mud - 60' water cut mud with show of oil - 60' water cut mud IFP - 81-90psi FFP - 105-138psi IBHP - 235 FBHP-222psi				
DST #2- 2858-2915 30-60-60-60 with fair blow slightly decreasing throughout Recovery: 190' of very slight oil cut mud IFP - 118-125 psi FFP - 132-145 psi IBHP - 381 psi FBHP-357 psi				

USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.

Date Received	<p style="text-align: right;"><i>Richard J. Fran</i></p> <p style="text-align: right;">Signature</p> <p style="text-align: right;"><i>Operator</i></p> <p style="text-align: right;">Title</p> <p style="text-align: right;"><i>Nov 15, 1978</i></p> <p style="text-align: right;">Date</p>
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DRILLERS WELL LOG

9-12-15W

DATE COMMENCED: September 10, 1978
DATE COMPLETED: September 21, 1978

Mai Operations
SECTION #12
SE NW NW
Sec. 9 - T12S-R15W
Russell County, Ks.

DEPTH: 1712 L.B.

0	-	65'	Clay & Sand
65	-	220'	Shale & Shells
220	-	310'	Sand
310	-	329'	Sand (Hard)
329	-	765'	Shale, Red Bed
765	-	801'	Anhydrite
801	-	2552'	Shale & Lime
52	-	2574'	Lime
2574	-	2584'	Shale
2584	-	2804'	Lime
2804	-	2808'	Shale
2808	-	2828'	Lime & Shale
28	-	2839'	Lime
2839	-	2855'	Shale
2855	-	2900'	Lime
		2900'	RTO

EXPLORATION DATA

DEPTH	765
DEPTH	2552
DEPTH	2574
DEPTH	2584
DEPTH	2804
DEPTH	2808
DEPTH	2828
DEPTH	2839
DEPTH	2855
DEPTH	2900

SURFACE PIPES: Set 32", 6-5/8" pipe @ 500' w/275 sacks cement, 2% gel, 3 cc.

PRODUCTION CASING: Run used 14", 5" casing @ 2979' w/250 sacks 50/50 pozzol, w 2% Gel & 18% salt & .75% GEL-2, 1/2 floccul per sack.

A F F I D A V I T

STATE OF KANSAS
COUNTY OF BARTON) ss.

Leonard Williamson, of lawful age, does swear and state that the facts and statements herein contained are true and correct to the best of his knowledge.

Leonard Williamson