

IMPORTANT  
 Kans. Geo. Survey request  
 samples on this well.

S. 20 T. 16 R. 25 ~~W~~  
 W  
 Loc. 150 S of SW SW  
 County Ness

API No. 15 — 135 — 20,769  
 County Number

Operator  
Chief Drilling Co., Inc.

Address  
905 Century Plaza  
Wichita, Kansas

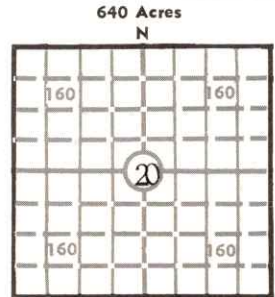
Well No. #1 Lease Name  
Michaelis

Footage Location  
 feet from (N) (S) line feet from (E) (W) line

Principal Contractor  
Company Tools Geologist  
Robert Lewellyn

Spud Date  
6/15/73 Total Depth  
4542' P.B.T.D.

Date Completed  
7/11/73 Oil Purchaser  
Clear Creek



Locate well correctly  
 Elev.: Gr. 2581  
 DF 2583 KB 2586

**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
	<u>12 1/4"</u>	<u>8 5/8"</u>	<u>28#</u>	<u>296'</u>	<u>common quick set</u>	<u>175</u>	
		<u>5 1/2"</u>	<u>14#</u>	<u>4532'</u>	<u>(bottom) 60-40 posmix</u>	<u>250</u>	<u>salt saturated w/10 bbls. salt</u>
					<u>(top) 50-50 posmix</u>	<u>300</u>	<u>flush 6% gel</u>

**LINER RECORD**

**PERFORATION RECORD**

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			<u>2</u>	<u>strip jets</u>	<u>4534-4538</u>

**TUBING RECORD**

Size	Setting depth	Packer set at
<u>2"</u>	<u>4534'</u>	

**ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD**

Amount and kind of material used	Depth interval treated
<u>250 gal. regular 15% acid w/mud additive</u>	<u>4534-4538</u>
<u>750 gal. 28% acid</u>	<u>4534-4538</u>

**INITIAL PRODUCTION**

Date of first production  
7/27/73 Producing method (flowing, pumping, gas lift, etc.)  
Pump

RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio
	<u>20</u> bbls.		<u>22%</u> MCF	<u>22%</u> bbls.

Disposition of gas (vented, used on lease or sold)  
Miss. Dolomite 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.

20-16-25w

DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:

Operator Chief Drilling Co., Inc.  
 Well No. 1 Lease Name Michaelis Oil Well  
 S 20 T 16 R 25 W E W

**WELL LOG**

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.

SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
<b>FORMATION TOPS</b>				
DST #1 4390-4450'			Anhydrite	1952
Open 30/30 90/60"			Base Anhy.	1988
Good blow through out			R.T.D.	4542
Rec. 1200' gas in pipe				
400' clean gassy oil				
60' muddy gassy oil				
IBHP: 1011#/30" FBHP: 1003#/60"				
FP: 121-193#				
<b>ELECTRIC LOG TOPS</b>				
			Heebner	3849
			Toronto	3865
			Lansing KC	3889
			Base KC	4205
			Pawnee	4328
			Ft. Scott	4402
			Mississippi	4493
			Miss. Dolomite	4528
			L.T.D.	4543
DST #2 4496-4514'				
Open 30/30 30/30"				
Weak blow for 22"				
Rec. 10' mud				
All pressures 16#				
DST #3 4498-4529'				
Open 30/30 30/30"				
Weak blow for 30"				
Rec. 45' mud				
IBHP: 96#/30" FBHP: 80#/30"				
FP: 64-64#				
DST #4 4497-4542'				
Open 30/30 90/60"				
Weak steady blow				
Rec. 60' gas in pipe				
120' heavy oil and gas cut mud				
IBHP: 710#/30" FBHP: 803#/60"				
FP: 30-78#				
			<b>FORMATION</b>	<b>FROM TO</b>
			Surface Sand	0 471
			Sand & Shale	471 1286
			Shale & Sand	1286 1420
			Sand	1420 1714
			Sand & Shale	1714 1775
			Shale	1775 2142
			Sand & Shale	2142 2345
			Shale & Shells	2345 2860
			Shale	2860 2926
			Shale & Shells	2926 3230
			Shells	3230 3432
			Shale & Shells	3432 3580
			Shale	3580 3730
			Shells	3730 3880
			Lime & Shale	3880 4150
			Lime	4150 4326
			Lime & Shale	4326 4400
			Lime	4400 4542
			R.T.D.	4542

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

Date Received SEP 1973  
 RECEIVED STATE GEOLOGICAL SURVEY OF KANSAS

*June Robinson*  
 Signature  
 Vice President  
 Title  
 August 23, 1973  
 Date