ANSAS

WELL COMPLETION REPORT AND DRILLER'S LOG

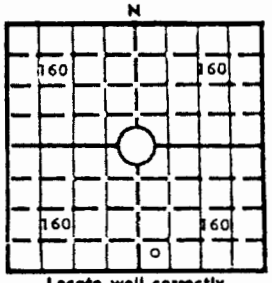
API No. 15 — Hodgeman (County) — 083-20,890 (Number)

S. 36 T. 22S R. 23W (E/W)

Loc. C SW SW SE

County Hodgeman

640 Acres



Locate well correctly

Elev.: Gr. 2209'

DF 2216' KB 2217'

Operator: Kennedy & Mitchell, Inc.	
Address: 7400 West Jefferson Avenue Denver, CO 80235-2099	
Well No.: 44-674	Lease Name: G.E.R.
Footage Location: 330 feet from (N) (S) line	2310 feet from (E) (W) line
Principal Contractor: DaMac Drilling Inc.	Geologist: Rod E. Anderson
Spud Date: 9/17/81 / Date Completed: 10/14/81	Total Depth: 4515' / P.B.T.D.: 4471'
Directional Deviation: N/A	Oil and/or Gas Purchaser: Getty Oil Gathering

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	12¼"	8-5/8"	24#	1366'	50/50 pozmix Class H	200 225	3% CC
Production	7-7/8"	5½"	14#	4514'	50/50 pozmix Class H	50 125	2% gel, salt sat.

LINER RECORD

Top, ft.	Bottom, ft.	Sacks cement

TUBING RECORD

	Setting depth	Packer set at
2-3/8"	4479'	N/A

PERFORATION RECORD

Shots per ft.	Size & type	Depth interval
4		4452'-56', 4442'-48

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
250 gal 15% NE acid #100#	4452'-56', 4442'-48'

INITIAL PRODUCTION

Date of first production	Producing method (flowing, pumping, gas lift, etc.)
11/4/81	Pumping

RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio
	30 bbls.	TSTM MCF	90 bbls.	TSTM CFPB

Disposition of gas (vented, used on lease or sold)	Producing interval(s)
Venting	4442'-4456' Mississippian

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 'e 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	DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:
Kennedy & Mitchell, Inc.	oil
Well No. 44-674 / **Lease Name** G.E.R.	
S 36 T 22S R 23W 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
Surface Sand	0	445'		
Sand, Red Bed	445'	1357'		
Anhydrite	1357'	1398'		
Red Bed, Shale	1398'	1964'		
Shale	1964'	2271'		
Lime, Shale	2271'	4515 RTD		

DST Information and Geologic Markers on attached sheets.

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

Date Received

Robert A. Baker
Signature

Engineer
Title

11/19/81
Date

STATE CORPORATION COMMISSION

5-1027

CONSERVATION DIVISION
Wichita, Kansas

36-22-23W

36-22-23W

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REMARKS:

All measurements are from Kelly Bushing (2217 feet). RTD was 4515 feet (-2298), LTD was also 4515 feet.

One foot drilling time was plotted from 3700 feet to TD. Ten foot samples were saved from 3700 feet to TD.

Two drill stem tests were taken covering Mississippian Warsaw and Osage zones.

At a depth of 4450 feet, the board was 1.24 feet long.

FORMATIONS:

The following are the depths and datums of formation tops encountered as determined by sample and electrical/nuclear log analysis.

Formation	Sample	Log	Datum
Anhydrite	1357	1363	(+854)
Heebner	3747	3744	(-1527)
Toronto	3764	3760	(-1543)
Douglas	3775	3771	(-1554)
Lansing	3805	3803	(-1586)
Stark Shale	4067	4066	(-1849)
Base/Kansas City	4174	4172	(-1955)
Marmaton	4187	4188	(-1971)
Pawnee	4278	4280	(-2063)
Fort Scott	4344	4344	(-2127)
Cherokee	4369	4368	(-2151)
Mississippian-Warsaw	4424	4418	(-2201)
Mississippian-Osage	4441	4441	(-2224)
TD	4515	4515	(-2298)

DRILL STEM TESTS:

A geological log is included with this report and is considered a part of it. Refer to it for sample descriptions. The following are drill stem tests results.

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DRILL STEM TESTS (Cont'd):

Mississippian Warsaw 4424 feet (4418 EL)

DST NO. 1
4380-4450 feet

Open 45 minutes, weak blow increasing to fair. Shut-in 60 minutes. Open 60 minutes, fair blow throughout. Shut-in 90 minutes. Recovered 180 feet of gas in pipe, 135 feet of gassy oil (38° gravity corrected), 50 feet of muddy oil and 60 feet of oil and gas cut mud.

Initial Hydrostatic Head	2363 psi
Initial Flow Pressure	46-61 psi
Initial Shut-in Pressure	992 psi
Final Flow Pressure	84-100 psi
Final Shut-in Pressure	338 psi
Final Hydrostatic Head	2363 psi
Temperature	127°

Mississippian Osage 4441 feet (4441 EL)

DST NO. 2
4451-4465 feet

Open 45 minutes, weak blow throughout. Shut-in 60 minutes. Open 60 minutes, weak blow throughout. Shut-in 90 minutes. Recovered 120 feet of gas in pipe, 320 feet of clean gassy oil (37° gravity corrected) and 90 feet of oil and gas cut muddy water (60% mud 5% oil 35% water).

Initial Hydrostatic Head	2302 psi
Initial Flow Pressure	53-97 psi
Initial Shut-in Pressure	1357 psi
Final Flow Pressure	123-169 psi
Final Shut-in Pressure	1334 psi
Final Hydrostatic Head	2295 psi
Temperature	123°