

STATE OF KANSAS
STATE CORPORATION COMMISSION
200 Colorado Derby Building
Wichita, Kansas 67202

WELL PLUGGING RECORD
K.A.R.-82-3-117

API NUMBER 15-097-20,094 - 0000

LEASE NAME Dean

WELL NUMBER 1-4

C SE SW Ft. from S Section Line

_____ Ft. from E Section Line

SEC. 4 TWP. 30S RGE. 19W(E) or (W)

COUNTY Kiowa

Date Well Completed 3/17/70

Plugging Commenced 7-11-94

Plugging Completed 7-13-94

7-11-94 (date)

LEASE OPERATOR Graham-Michaelis Corporation

ADDRESS P.O. Box 247 Wichita, Kansas 67201

PHONE#() 264-8394 OPERATORS LICENSE NO. 5134

Character of Well oil

(Oil, Gas, D&A, SWD, Input, Water Supply Well)

The plugging proposal was approved on 7-11-94 (date)

by Richard Lacy (KCC District Agent's Name).

Is ACO-1 filed? If not, is well log attached? Geological/Completion Reports attached

Producing Formation Mississippi Depth to Top 5092' Bottom 5202' T.D. 5202'

Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS

CASING RECORD

Formation	Content	From	To	Size	Put in	Pulled out
				8 5/8	1004	0
				5 1/2	5199	3230

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same and depth placed, from feet to feet each set.

Pump 25 sks. of cement & 2 sks. of hulls to 4900'

Pull pipe to 1050 & pump 50 sks. of cement from 1050 to 950

Pull pipe to 500' pump 40 sks. of cement from 500 to 400'

Pulled out of hole pump 10 sks. of cement from 40 to 0 cut off & cap 8 5/8 3' (If additional description is necessary, use BACK of this form.)

Name of Plugging Contractor Sargent's Casing Pulling Service License No. 6547

Address P.O. Box 506 Liberal, Kansas 67905-0506

NAME OF PARTY RESPONSIBLE FOR PLUGGING FEES: Graham - Michaelis Corporation

STATE OF Kansas COUNTY OF Kowa , ss.

Dave Patterson, Production Superintendent (Employee of Operator) or (Operator) of above-described well, being first duly sworn on oath, says: That I have knowledge of the facts, statements, and matters herein contained and the log of the above-described well as filed that the same are true and correct, so help me God.

(Signature) *Dave Patterson*

AUG 19 1994

(Address)

P.O. Box 769, Woodward, OK 78082

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CORPORATION
19 COMMISSION

SUBSCRIBED AND SWORN TO before me this 22nd day of August , 19 1994

Aldine M. Jean AUG 23 1994

Notary Public CONSERVATION

8-23-94

My Commission Expires: *Aldine M. Johnson*

NOTARY PUBLIC
State of Kansas

MY APP'T. EXPIRED 3-19-97

WICHITA, KANSAS
Formerly
Revised 05-88


**GRAHAM
MICHAELIS
DRILLING COMPANY**

WILLIAM L. GRAHAM

W. A. MICHAELIS, JR.

(316) AMherst 4-8394

GRAHAM BUILDING • 211 NORTH BROADWAY • WICHITA, KANSAS 67202

GEOLOGICAL REPORT

Dean #1-4

LOCATION: C SE/4 SW/4; Section 4-30S-19W
Kiowa County, Kansas

DRLG. CONTRACTOR: Graham-Michaelis Drilling, Inc.

DRLG. COMMENCED: March 4, 1970

DRLG. COMPLETED: March 17, 1970

CASING RECORD: 8 5/8" @ 1004' w/475 sx cement
5 1/2" @ 5199' w/125 sx cement

ELEVATION: 2305' G.L. - 2314' K.B.

TOTAL DEPTH: Driller - 5200'
Log - - - 5202'

FIELD: Alford

During the drilling of this test, ten foot samples were saved from 4400' to total depth and deposited at the Kansas Geological Society, Wichita, Kansas. Two foot drilling time was recorded from 3700' to total depth. A Schlumberger Dual Induction-Laterolog and Borehole Compensated Sonic Log-Gamma Ray was run with all measurements taken from Kelly Bushing. Two drill stem tests were run.

FORMATION TOPS AND THEIR SUBSEA DATUM

Lansing	4472 (-2158)
Base Kansas City	4894 (-2580)
Cherokee	5021 (-2707)
Mississippi	5092 (-2778)

ZONES OF INTEREST

<u>Mississippi</u> <u>5100 - 5107'</u>	Lime, slightly dolomitic with fair intercrystalline porosity. Schlumberger Electric Log Calculations using R_w .035 Porosity - 22-27%. Salt Water Saturation - 18%
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DRILL STEM TEST #1
5057-5114'

Open: 45 minutes. Gas to surface in 1 minute.
5 min. gas gauge - 4,450 mcf
10 min. gas gauge - 7,120 mcf
and stabilized with spray of mud.

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GEOLOGICAL REPORT

Dean #1-4

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Recovery: nothing
ISIP: 1546# in 30 minutes
FP: (1314-1164)
FSIP: 1407# in 30 minutes

Note: When picking up drill collars to go back in hole after test, we noticed slight amount of oil had drained out of the pipe.

Mississippi
5122 - 5130'

Dolomite & Lime. Buff to tan with some glauconitic material. Good porosity, fair stain.
Schlumberger Electric Log Calculations using R_w .035
Porosity - 18-24%. Salt Water Saturation - 72%

Mississippi
5133 - 5140'

Delomitic Lime as above.
Schlumberger Electric Log Calculations using R_w .035
Porosity - 20-24%. Salt Water Saturation - 77%

DRILL STEM TEST #2
5115-5148'

Open: 75 minutes. Gas to surface in 15 minutes, too small to measure.
Recovery: 180' oil and gas cut mud
90' mud cut oil
720' frothy, gassy, heavy mud cut oil
ISIP: 1551# in 30 minutes
FP: (167-334)
FSIP: 1500# in 45 minutes

RECOMMENDATION: Based upon the results of the drill stem tests and electric log calculations, it was recommended to set production pipe for further testing of the Mississippi zones.

There were no other zones above the Mississippi that warrant testing prior to abandonment.

This test was flat with the well to the south on the top of the Mississippi.

Jack L. Yinger
Jack L. Yinger - Geologist

JLY/mj

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COMPLETION REPORT
Dean #1-4

April 12, 1970

Killed well with 80 barrels treated water and ran 166 joints 2" tubing, 1 - 3 ft. perf. sub, 1 - 6 ft. pup, 1 - 1 25/32" seating nipple to set tubing at 5150'. Swabbed well in and blew for 8 hours. Shut in for night.

April 13, 1970

Shut in Casing Pressure - 1160#, Shut in Tubing Pressure 800#. Open tubing, tubing blew dead.

April 15, 1970

Swabbed well in tubing to kick off.
Flowing well on 24/64" choke.
Venting 3,790 mcf gas with 3½ barrels oil per hour.
Flowing well on 28/64" choke.
Venting 3,500 mcf gas. Flow Casing Pressure 825#, Flow Tubing Pressure 505# with 6.66 barrels of oil per hour - no water.

D. Patterson/mj

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TOTAL DEPTH: Driller - 5200'
Log - - - 5205'

FIELD: Alford

PRODUCING FROM: Mississippi - Top 5092' (-2778)

PERFORATIONS: 5126' - 5130'; 5132' - 5136'

PRODUCTION TUBING: 2" tubing - 166 joints set at 5150'.

April 9, 1970 Rigged up Pratt Well Service Unit.

April 10, 1970 Ran Correlation Log and Cement Bond Log. Bond Log shows good cement to 4932'. Perforated 5126' to 5130' and 5132' to 5136'. Swabbed well down for 3 hours. Well making $\frac{1}{2}$ barrel oil per hour and show of gas. Oil has mud emulsion. Shut in for night.

April 11, 1970 Fluid level is at 3400'. Shut in casing pressure 180#. Swabbed down to bottom. Making approximately 50 mcf gas and $2\frac{1}{2}$ barrels of oil per hour. Acidized with 500 gallons mud acid. Max. pressure 1800#, dropped to 1200#, fell to 400# when acid was on bottom. Treat at 300#, fell to 0# in 1 minute. Swab well down to 1900' when it kicked off flowing. After 2 hours venting 4,260 mcf gas with 920# on casing. After 6 hours, venting 3,790 mcf gas with $3\frac{1}{2}$ barrels of oil per hour with 1100# on casing. Shut in for night.

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