

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

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

15-051-02845-00-00

API NUMBER NA  
LEASE NAME Riedel  
WELL NUMBER 5  
SPOT LOCATION C W/2 SW SW  
SEC. 31 TWP. 13 RGE. 19 (E) or (W)  
COUNTY Ellis  
Date Well Completed 6-5-1957  
Plugging Commenced 7-19-1990  
Plugging Completed 7-19-1990

TYPE OR PRINT  
NOTICE: Fill out completely  
and return to Cons. Div.  
office within 30 days.

LEASE OPERATOR A. L. Abercrombie, Inc.  
ADDRESS Rt. #1, Box 56, Great Bend, Ks. 67530  
PHONE # (316) 793-8186 OPERATORS LICENSE NO. 5393

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

Did you notify the KCC/KDHE Joint District Office prior to plugging this well? Yes

Which KCC/KDHE Joint Office did you notify? Hays, Kansas

Is ACO-1 filed? Yes If not, is well log attached? \_\_\_\_\_

Producing formation KC-Arbuckle Depth to top 3685 bottom 3946 T.D. 4003

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
Lansing-KC	Oil-water	3685	3816	8 5/8	260	None
Arbuckle	Oil-water	3907	3946	5 1/2	3961	None

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.

Mix 295 sacks 65/35 Poz  
8% Gel, 500# hulls - 50 sacks 60/40 Poz, 8% Gel, 50# hulls. Pump down 5 1/2 casing.  
Max pressure 300#. Standing pressure 150#. Job complete 2:30 pm 7-19-90.  
Mix 5 sacks 65/35 Poz 8% Gel - Pump Down Surface Pipe MP 100#. Shut in 0#.

(If additional description is necessary, use BACK of this form.)

Name of Plugging Contractor A. L. Abercrombie, Inc. License No. 5393  
Address Rt. #1, Box 56, Great Bend, Ks. 67530

STATE OF Kansas COUNTY OF Barton, ss.

E. L. Abercrombie (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) E L Abercrombie

(Address) Rt. #1, Box 56, Great Bend, Ks.



SUBSCRIBED AND SWORN TO before me this 24 day of July, 1990

Susan M. Evers  
Notary Public

My Commission expires: 7-29-92.

MUSGROVE PETROLEUM CORPORATION, INC.  
801 Union Center  
Wichita, Kansas

May 21, 1957

15-051-02845-00-10  
Musgrove Petroleum Corporation, Inc.  
801 Union Center  
Wichita, Kansas

Re: Geological Report  
Musgrove's C. E. Riedel No. 5  
C W/2 SW SW Section 31-13S-19W  
Ellis County, Kansas

Well Commenced: May 8, 1957  
Well Completed: May 18, 1957  
Surface Pipe: 8 5/8" @ 260'  
w/175 Sx  
Long String: 5 1/2 @ 3960.85

Gentlemen:

One-foot drilling time was kept on the subject test from 3200 feet to the total depth. Ten-foot samples were saved from 3200 feet to 3550 feet and five-foot samples from 3550 feet to the total depth.

Drilling was observed by the undersigned and Fredrick W. Stump from 3200 feet to 3678 feet and by the undersigned from 3678 to the total depth.

No drill stem tests were taken because of the favorable structural position of the test in relation to producing wells in the vicinity. A Schlumberger Laterolog Survey was taken upon completion of the test.

Listed below are elevations and formation tops, along with a sample description of the interesting zones:

ELEVATIONS: Ground Level 2287  
Derrick Floor 2290  
Kelly Bushing 2292 Datum

<u>Formation</u>	<u>Sample Tops</u>	<u>Electric Log Tops</u>
Topeka	3284	3287 (- 995)
Heebner	3545	3546 (-1254)
Toronto	3566	3567 (-1275)
Lansing/Kansas City	3584	3587 (-1295)
Base Kansas City	3826	3828 (-1536)
Conglomerate	3867	3870 (-1578)
Reworked Arbuckle	3903	3903 (-1611)
Arbuckle	3908	3906 (-1614)
Total Depth	4000	4003 (-1711)

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Wichita, Kansas

All formation tops and zones described below are corrected to electric log measurements and depths:

TOPEKA LIMESTONE - 3287 (-995)

There were no zones of porosity development which contained shows of free oil within this zone.

LANSING/KANSAS CITY - 3587 (-1295)

3617 - 23 Limestone, tan, finely crystalline, with poorly developed vugular porosity with a show of free oil.

3765 - 79 Limestone, tan, oolitic with good oolitic porosity and saturation of free oil.

3786 - 91 Limestone, white to tan, finely crystalline with poorly developed vugular porosity with a show of free oil.

3807 - 10 Limestone, tan, finely crystalline, slightly sucrosic with fair intercrystalline and poor vugular porosity. The zone is saturated with free oil.

REWORKED ARBUCKLE - 3903 (-1611)

3903 - 3906 The zone consists of coarse crystalline, silicified dolomite with poorly sorted, well rounded quartz grains contained within the dolomite. The zone is saturated with free oil.

ARBUCKLE - 3906 (-1614)

3906 - 4003 Dolomite, tan to white, fine to medium crystalline, with a good show of free oil to 3960 feet.

STRUCTURAL COMPARISON WITH NEARBY TESTS

Formation	Musgrove's Riedel #5 C W/2 SW SW 31-13-19W	Musgrove's Riedel #1 NE SW SW 31-13-19W	Musgrove's Riedel #3 C W/2 W/2 SW 31-13-19W
Lansing	-1295	-1293	-1287
Arbuckle	-1614	-1628	-1617

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