

15-065-03281-0000

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

Form CP-4
Rev. 12-15-80

WELL PLUGGING RECORD

Give All Information Completely
Make Required Affidavit

COUNTY Graham SEC. 10 TWP. 10S RGE. 26 E/W
Location as in quarters or footage from lines:
C SE NW NW

Lease Owner Tenneco Oil Company
Lease Name Elrick Track 11 #4 Well No. _____
Office Address Box 1485 Great Bend, Kansas 67530
Character of Well (Completed as Oil, Gas or Dry Hole): _____
Date Well Completed _____
Application for plugging filed _____
Plugging commenced 7-28-82
Plugging completed 8-2-82
Reason for abandonment of well or producing formation _____

Locate Well
correctly on above
Section Platt.

_____ Depleted
Was permission obtained from the Conservation Division or it's
Agent's before plugging was commenced? Yes

Name of Conservation Agent who supervised plugging of this well Dennis Hamel
Producing formation _____ Depth to top _____ bottom _____ T.D. 4268'

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"	203'	none
				5-1/2"	4265'	1660'

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 hold. If cement or other plugs were used, state the character of same and depth placed, from _____ feet to _____ feet for each plug set.

Bottom was already plugged off with 100 sacks cement. casing was already loose, pulled 50 joints of 5-1/2". Plugged well with 6 sacks hulls, 28 sacks gel, 140 sacks cement.

Plugging Complete.

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AUG 09 1982
CONSERVATION DIVISION
Wichita, Kansas

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

Name of Plugging Contractor Kelso Casing Pulling

STATE OF Kansas COUNTY OF Rice, ss.
R. Darrell Kelso (employee of owner) or (owner or operator) of the

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 and that the same are true and correct. So help me God.

(Signature) R. Darrell Kelso
Box 347 Chase, Ks. 67524
(Address)

SUBSCRIBED AND SWORN TO before me this 5th day of August, 19 82



Irene Hoover
Notary Public.

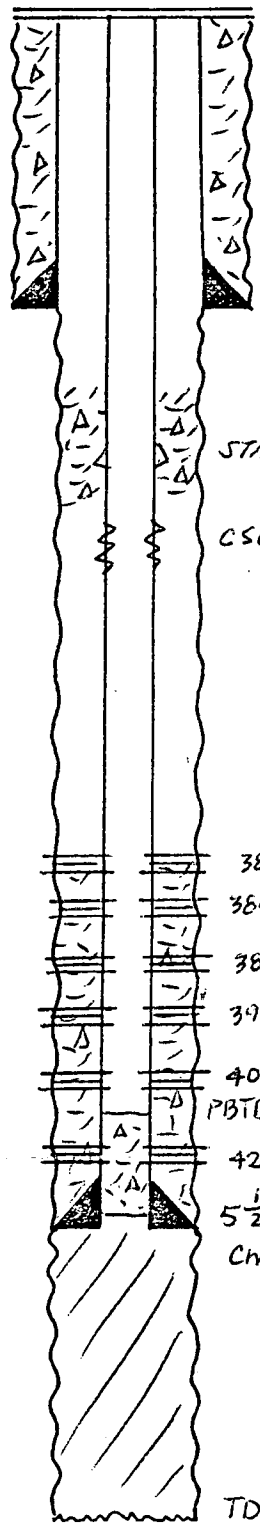
My Commission expires: _____

LEASE # WELL # ELRICK 11-4
FIELD: ELRICK

LOCATION SE N1/4 Sec 10-10S-25W
Co. STATE GRAHAM Co. Kansas

DATE 5/10/82

TOC WI _____ RI _____
ELEV. GL 2539 KB 2544 DF _____



8 5/8" @ 203'
Cmted w/ 130 SX

STAGE collar @ 1950'
CSG PARTED @ 2019

3802-3805 ZONE 1
3841-45 ZONE 2 D 1/2 A
3890-93 ZONE 4 D 1/2 A
3945-50 ZONE 6 D 1/2 A
4016-19 ZONE 8
PBTD @ 4240'
4257-60 CHEROKEE
5 1/2" 14 15.5 @ 4266'
Cmted w/ 200 SX

TD @ 4267'

DATE COMPLETED 8/6/58
FORMATION KANSAS CITY ToRonto
INITIAL TREATMENT:

WORKOVERS, STIMULATIONS, CHG IN PRODUCTION METHODS.

REMARKS.

CHRONOLOGICAL WELL HISTORY

TRACT 11

THE KIMBARK COMPANY, LTD.

ROME #4

LOCATION: SE NW NW, SECTION 10, T-10-S, R-25-W, GRAHAM COUNTY, KANSAS

ELEVATION: 2539 G.L., 2544 K.B.

OPERATIONS:

- 7/19/58 RURT
- 7/20/58 DRILLED 12 $\frac{1}{4}$ " HOLE TO 203. RAN 6 JOINTS (196') 3-5/8" SS CASING LANDED AT 203' K.B. CEMENTED W/130 SX POZMIX W/ 2% CACL. WOC.
- 7/21/58 WOC. DRILLED TO 1950.
- 7/22/58 DRILLED TO 2435.
- 7/23/58 DRILLED TO 3005.
- 7/24/58 DRILLED TO 3200.
- 7/25/58 DRILLED TO 3590.
- 7/26/58 DRILLED TO 3818. DST #1 3779-3803. OPEN 1 HR W/STRONG BLOW THROUGHOUT. GAS TO SURFACE IN 15 MIN. REC. 3460' OIL AND MUDDY OIL. IBHP 1195#, IFP 450#, FFP 975#, FBHP 1160#.
- 7/27/58 DRILLED TO 3980.
- 7/28/58 DRILLED TO 4050. DST #2 3957-3980. OPEN 30 MIN W/NO BLOW. REC. 15' MUD. ALL PRESSURES ZERO. DST #3 3978-4023. OPEN 1 HR W/GOOD BLOW THROUGHOUT. REC. 60' GAS CUT AND LIGHTLY OIL CUT MUD, 120' OIL AND GAS CUT MUD, 240' HEAVILY OIL CUT MUD AND MUDDY OIL. IBHP 582#, IFP 94#, FFP 232#, FBHP 538#.
- 7/29/58 DRILLED TO 4220.
- 7/30/58 DRILLED TO 4267 T.D. RAN WELEX GUARD LOG. DST #4 4253-4267. OPEN 1 HR W/STRONG BLOW THROUGHOUT. REC. 1100' GAS, 300' CLEAN OIL, 180' FOGGY OIL. IBHP 1395#, IFP 40#, FFP 130#, FBHP 1000# WHICH WAS STILL BUILDING AT END OF 20 MIN.
- 7/31/58 LAID DOWN DRILL PIPE
- 8/1/58 RAN 132 JOINTS (4265') 5 $\frac{1}{2}$ ", 14#, J-55 AS CASING, CEMENTED AT 4268' W/200 SX CEMENT. STAGE COLLAR SET AT 1950 AND STAGED W/100 BBLs KEMPACK CIRCULATED BEHIND PIPE.

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MAY 27 1962

CONSERVATION DIVISION
Wichita, Kansas

July 31, 1958

The Kimbark Co.
300 Fillmore St.
P. O. Box 1557
Denver, Colorado

Re: The Kimbark Co., # 4 Rome
SE NW NW, Sec. 10-10-25W
Graham County, Kansas

Gentlemen:

Following is my report on your # 4 Rome, an Elrick, NE Pool well, at the above captioned location. Samples were examined from 3400 to total depth on this well, and drilling progress was watched from 3700 to total depth.

	<u>Sample Tops</u>	<u>Guard Log Tops</u>
Elevation:	2541 DF - 2544 RB	
Heebner	3771 (-1227)	3769 (-1225)
Toronto	3793 (-1249)	3791 (-1247)
Lansing	3809 (-1265)	3802 (-1258)
Base Kansas City	4047 (-1503)	4045 (-1501)
Cherokee Group	4240 (-1696)	4239 (-1695)
Cherokee Lime	4251 (-1707)	4250 (-1706)
Total Depth	4267 (-1723)	4266 (-1722)

There were no showings of oil in the samples above the Toronto on this well.

The Toronto was topped at 3793 and a drill stem test was taken at a depth of 3803 with the packer set at 3779. It was open one hour with a strong blow thruout, had gas to the surface in 15 minutes, and recovered 3460 feet of oil and muddy oil. Initial BHP was 1195#, IFP-450#, FFP-975#, and FBHP-1160#. The porous zone on the Guard Log is from 3791 to 3796; it calculates 15% porosity and 27% water saturation. Perforations opposite this zone should be from 3792 to 3796.

The Lansing-Kansas City section was picked from samples at 3809. Examination of the Guard Log shows this top to be in

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error. Shale in the samples from 3804 to 3809 must have been cavilags for this well has no developed shale break between the Toronto lime and the top of the Lansing. The lower portion of the Toronto is shaley lime, but the Lansing is definitely at 3802 by Guard Log measurements or 3804 on drillers measurements. All porous zones will be described using Guard Log measurements.

I have revised my system of numbering the zones after study of all four wells and will forward to you a chart showing the present numbering along with the minus datums on the various zones in each of the four wells. This re-numbering has been necessary to standardize with the eleven main lime beds within the Lansing-Kansas City section.

The description and porosity calculations of the porous zones present in this well are as follows:

1. 3802-3812: White fossiliferous lime with fair porosity and stain and a show of free oil. Porosity 11%. Water saturation 32% from 3802-07 and 48% - 3807-12.
(Top Zone)

It is doubtful then the varying water saturation percentages represent an oil-water contact, but probably a lithologic change not apparent from sample examination.

2. 3841-3844: White fossiliferous limestone with fair porosity and stain. Porosity 11%, Water saturation 32%.
(30' Zone)
3. 3852-3854: White slightly cherty limestone with a trace of fractured porosity and spotted stain. Porosity 10%, Water saturation 40%.
(50' Zone)
4. 3880-3882: Gray slightly fossiliferous limestone with poor porosity and a trace of stain. Porosity 9%, Water saturation 60%.
5. 3890-3894: White fossiliferous limestone with a trace of spotted stain, and fair porosity. Porosity 14%, Water saturation 65%.
(80' Zone)
- 5A. 3898-3902: White slightly fossiliferous lime with a trace of stain and a very slight show of free oil. Porosity 9%, Water saturation 55%.
(90' Zone)

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6. 3933-3935: Gray, fossiliferous lime with slight porosity and a trace of stain. Porosity 10%, Water saturation 25%.
7. 3945-3951: White fossiliferous lime with fair porosity spotted stain and a show of free oil. Porosity $11\frac{1}{2}\%$, Water saturation 24%.
(140' Zone)
8. 3974-3977: Chalky white and gray crystalline lime with slight porosity and a trace of stain. Porosity 10%, Water saturation 84%.
(160' Zone)

A drill stem test was taken covering this zone from 3957 to 3980. It was open 30 minutes with no blow. Tool was flushed after 15 minutes. Recovery was 15 feet of mud. All bottom hole and flow pressures were zero.

Zone # 9 (180' Zone) had no developed porosity as shown by the Guard Log. Samples had a slight amount of stain, but poor porosity.

10. 4015-4019: White fossiliferous and slightly porous (200' Zone) limestone, with spotted stain and a trace of free oil. Porosity 12%, water saturation 22%.

A drill stem test was taken covering both zones 9 and 10, from 3978 to 4023. It was open 1 hour with a good blow thruout. Recovery was 60 feet of gas cut and lightly oil cut mud, 120 feet of oil and gas cut mud, 240 feet of heavily oil cut mud and muddy oil. 18HP-582#, 1FP-94#, FFP-232#, and FBHP was 538#.

Zone 11 had no developed porosity and was shaley.

The well was drilled to the Cherokee lime, which was topped at 4250 and drilled to a depth of 4266. Samples showed some dark stain from 4257 to 4260, in white to cream fossiliferous and coarse crystalline lime. The stain appeared to be asphaltic and no free oil was found in the samples. It was decided to run the Guard Log to evaluate this show before deciding whether to drill stem test it. The Guard Log showed good porosity, 12%, and low water saturation, 16%, so a drill stem test was run from 4252 to 4266 (Guard Log Measurement which equals 4253 to 4267 drillers measurement). It

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was open 1 hour with a strong blow thruout and recovered 1100 feet of gas in the pipe, 300 feet of clean oil, and 180 feet of froggy oil. IBHP-1395#, IFP-40#, FFP-180#, and FBHP-1000# which was still building at the end of 20 minutes.

Casing was run and cemented one foot off bottom with further testing to be done through perforations.

Primary zones of production in this well seem to be the Cherokee, zone 10, zone 7, zone 1, and the Toronto. Zones which have possibility of production, but which are doubtful are zones 6, 3, and 2. Zones 4, 5, 5A, and 8, shows no possibilities and should not be perforated.

A condensed copy of the time log accompanies this report.

Yours very truly,

POWELL & RUWE



Steve Powell

SP:jg