

15-065-20263-00-00

STATE OF KANSAS
STATE CORPORATION COMMISSION

Form CP-4

Give All Information Completely
Make Required Affidavit
Mail or Deliver Report to:
Conservation Division
State Corporation Commission
212 No. Market
Wichita, Kansas

WELL PLUGGING RECORD

Graham County, Sec. 1 Twp. 10S Rge. (E) 22 (W)

Location as "NE/CNW/SW" or footage from lines C E 1/2 NE SE

Lease Owner Imperial Oil Co.

Lease Name Biden Well No. 1

Office Address 780 Fourth National Bldg., Wichita, Ks.

Character of Well (completed as Oil, Gas or Dry Hole) Dry Hole

Date well completed Oct. 6 19 69

Application for plugging filed Oct. 6 19 69

Application for plugging approved Oct. 6 19 69

Plugging commenced Oct. 6 19 69

Plugging completed Oct. 6 19 69

Reason for abandonment of well or producing formation No commercial quantities of oil and/or gas were encountered.

If a producing well is abandoned, date of last production 19

Was permission obtained from the Conservation Division or its agents before plugging was commenced? yes

Name of Conservation Agent who supervised plugging of this well W. L. Nichols, Moreland, Kansas

Producing formation Depth to top Bottom Total Depth of Well 3936 Feet

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
Surface casing			209'	8 5/8"	185 sacks	-Not pulled

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 3936 feet to feet for each plug set.

Set first plug at 900 ft. with 70 sacks cement.
Set second plug at 180' with 20 sacks cement.
Set third plug at 40 ft. with 10 sacks cement.

RECEIVED
STATE CORPORATION COMMISSION
10-14-1969
OCT 14 1969
CONSERVATION DIVISION
Wichita, Kansas

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

Name of Plugging Contractor Imperial Oil Company

Address 780 Fourth National Bldg., Wichita, Kansas 67202

STATE OF KANSAS, COUNTY OF SEDGWICK, ss. Charley V. Shank

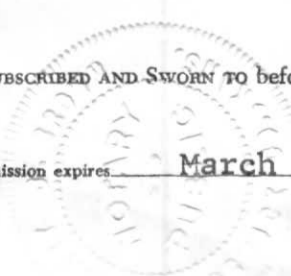
(employee of owner) or (owner or operator) of the above-described well, being first duly sworn on oath, says: That I have knowledge of the facts, statements, and matters herein contained and the log of the above-described well as filed and that the same are true and correct. So help me God. IMPERIAL OIL COMPANY

(Signature) Charley V. Shank
Charley V. Shank
780 Fourth National Bldg., Wichita, Ks.
(Address)

SUBSCRIBED AND SWORN TO before me this 9th day of October, 19 69

My commission expires March 3, 1970

Mary J. Brown
Mary J. Brown Notary Public.



DRILLER'S LOG

Imperial Oil Company
780 Fourth National Bldg.
Wichita, Kansas 67202

#1 Biden
C E 1/2 NE SE Sec. 1-10S-22W
Graham County, Kansas

Total Depth: 3936 feet

Elevation: 2330 K.B.

Commenced: September 25, 1969

Completed: October 6, 1969
Dry Hole

Contractor: Imperial Oil Co., Rig #2

Casing Record: Set 8 5/8" surface casing at 209 ft. with 185 sacks cement.

Figures indicate bottom of formations:

- 40' Sand-rock
- 209' Sand-shale
- 1315' Shale-shells
- 1545' Dakota Sand
- 1745' Shale-shells
- 1804' Shale
- 1848' Anhydrite
- 2100' Shale
- 2290' Shale-shells
- 3506' Lime-shale
- 3732' Lime
- 3761' Lime-shale
- 3800' Lime
- 3865' Lime-shale
- 3936' Lime
- 3936' Rotary Total Depth

Sample Tops:

- Top Anhydrite 1804 (f 526)
- Base Anhydrite 1848 (f 482)
- Topeka 3312 (- 982)
- Heebner 3517 (-1187)
- Toronto 3540 (-1210)
- Lansing 3555 (-1225)
- Base Kansas City 3783 (-1453)
- Marmaton 3844 (-1514)
- Conglomerate 3879 (-1549)
- Arbuckle 3929 (-1599)
- Total Depth 3936 (-1606)

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Wichita, Kansas

We hereby certify this to be a correct and accurate log of the above described well, as shown on the daily drilling reports.

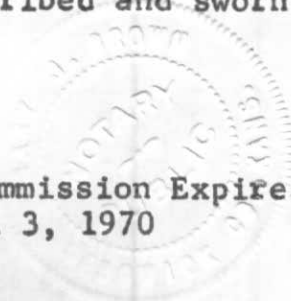
IMPERIAL OIL COMPANY

By Charley V. Shank
Charley V. Shank

Subscribed and sworn to before me this 9th day of October, 1969.

Mary J. Brown
Mary J. Brown, Notary Public

My Commission Expires:
March 3, 1970



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CONSERVATION DIVISION
Wichita, Kansas

GEOLOGICAL REPORT

#1 BIDEN
C E $\frac{1}{2}$ NE SE Sec. 1-10S-22W
Graham County, Kansas

GEOLOGICAL REPORT

Company: Imperial Oil Company
 Farm: #1 Biden
 Contractor: Imperial Oil Company, Rig #2
 Pool: Brownsville
 Rotary Completed: 10-6-69

Graham County, Kansas
 C E½ NE SE Sec. 1-10S-22W
 Elevation: 2330 K.B.
 Rotary Total Depth: 3936'

Geological Data:

Samples were examined from 3400 ft. to Rotary Total Depth. One foot drilling time was kept from 3280 ft. to Rotary Total Depth. (Electric log information: No electric log was run.)

Formation Tops

	<u>Sample Tops</u>
Top Anhydrite	1804 (≠ 526)
Base Anhydrite	1848 (≠ 482)
Topeka	3312 (- 982)
Heebner	3517 (-1187)
Toronto	3540 (-1210)
Lansing	3555 (-1225)
Base Kansas City	3783 (-1453)
Marmaton	3844 (-1514)
Conglomerate	3879 (-1549)
Arbuckle	3929 (-1599)
Total Depth	3936 (-1606)

Porosity and Shows of OilTopeka
3489-95

Limestone, buff to white, fine to medium crystalline fossiliferous, trace light scattered stain with some good even stain. Fair to good vugular porosity. Fair odor.

DST #1

3481-3506'. Open 90 minutes. Fair blow. Recovered 250 ft. muddy water. ICIP 1215#/30", IFP 46#, FFP 140#, FCIP 1169#/30".

Lansing
3559-64

(Top) Limestone, buff to white, fine to medium crystalline, light scattered stain with fair show of free oil. Fair to good vuggy porosity. Good odor.

DST #2

3551-70'. Open 60 minutes. Weak blow. Recovered 40 ft. mud with few specks of oil. ICIP 892#/30", IFP 35#, FFP 46# FCIP 880#/30".

3601-05

(35' Zone) Limestone, buff to white, fine to dense, trace light stain in few pieces. Very slight show of free oil. Very poor vugular porosity. Faint odor.

GEOLOGICAL REPORT: #1 Biden

- DST #3: 3580-3605'. Open 90 minutes. Weak blow for 25 minutes. Recovered 5 ft. mud. ICIP 40#/30", IFP 23#, FFP 23#, FCIP 23#/30".
- 3607-09 (50' Zone) Limestone, buff to white, fine to dense, with trace of chert, tan, fresh. No show of odor.
- 3629-33 (70' Zone) Limestone, buff, fine to sucrosic, light scattered stain with trace of free oil. Fair vugular porosity. Faint odor.
- DST #4 3605-37'. Open 60 minutes. Strong blow. Recovered 90 ft. very slightly oil and gas cut mud, 180 ft. slightly oil and gas cut mud. ICIP 1318#/30", IFP 70#, FFP 152#, FCIP 1237#/30".
- 3641-48 (90' Zone) Limestone, buff, fine to sucrosic and oolitic. Light, scattered spotty stain, mostly barren. Fair show of free oil. Good porosity and good odor.
- DST #5 3637-52'. Open 90 minutes. Fair blow. Recovered 260' muddy water with trace of oil. ICIP 469#/30", IFP 93#, FFP 129#, FCIP 129#/30".
- 3697-3700 (140' Zone) Limestone, white, fine to mealy, trace of light scattered spotty stain with trace of free oil. Poor vugular porosity. Faint odor.
- 3717-21 (160' Zone) Limestone, white to gray, medium crystalline, light scattered spotty stain with slight show of free oil. Fair vugular porosity. Faint odor.
- DST #6 3687-3732'. Open 90 minutes. Weak blow. Recovered 80 ft. muddy water with trace of oil. ICIP 903#/30", IFP 23#, FFP 117#, FCIP 856#/30".
- 3758-63 (200' Zone) Limestone, buff to cream, fine to sucrosic, good saturation in part with light, scattered, stain in part with fair show of free oil. Fair vugular porosity. Faint odor.
- 3673-75 (220' Zone) Limestone, white to cream, fine with much chalk. No show or odor.
- DST #7 3744-3800' Open 90 minutes. Weak blow. Recovered 135 ft. mud with no show. ICIP 1112#/30", IFP 46#, FFP 117#, FCIP 1077#/30".

GEOLOGICAL REPORT: #1 Biden

Marmaton
3854-59

Limestone, buff, fine, light scattered spotty stain with some good even stain with slight show of free oil. Poor to fair pin-point and vugular porosity. Faint odor.

DST #8

3840-65'. Open 90 minutes. Weak blow. Recovered 40 ft. very slightly oil cut mud. ICIP 375#/30", IFP 35#, FFP 46#, FCIP 46#/30".

Arbuckle
3930-35

(Top) Dolomite, gray to white to tan, fine to medium. Trace of dark, spotty stain with slight trace of free oil. Fair to poor vugular porosity. No odor.

DST #9

3929-36'. Open 60 minutes. Recovered 480' salt water. ICIP 1135#/30", IFP 35#, FFP 234#, FCIP 1123#/30".

Rotary Total Depth 3936 (-1606)

October 6, 1969

D & A

IMPERIAL OIL COMPANY

Charley V. Shank
Charley V. Shank

CVS:jd

15-065-20263-00-00

DRILLING TIME LOG

#1 Biden

C E 1/2 NE SE Sec. 1-10S-22W

Graham County, Kansas

Depth	Minutes	Remarks
<u>1' Intervals</u>		
3275-3280	2/3-2-2-2-1	
90	1-1-2-3-3/2-2-2-2-1	
3300	1-2-1-1-2/1-4-2-4-3	
3300-3310	4-2-3-4-3/4-4-2-1-2	
20	1-4-4-3-2/2-3-4-4-5	
30	4-5-4-5-4/5-4-4-4-3	
40	3-3-2-3-4/3-4-3-3-4	
50	3-1-2-2-1/1-2-3-2-2	
60	2-4-5-5-3/5-5-5-5-4	
70	3-3-2-3-2/2-2-2-3-3	
80	5-5-5-5-5/4-3-2-2-2	
90	2-1-2-2-2/5-5-6-7-5	
3400	6-4-3-3-3/3-2-2-3-2	
3400-3410	2-3-4-2-2/4-4-3-3-2	
20	3-4-4-4-2/2-2-1-3-3	
30	3-3-2-3-3/3-2-3-4-4	
40	6-4-5-4-5/4-5-4-4-5	
50	4-4-6-6-5/5-4-2-3-3	
60	2-3-2-3-6/-5-6-5-5-4	Slightly rough @ 3458'
70	3-5-7-6-7/6-3-5-4-4	
80	5-2-2-3-2/3-3-5-6-7	
90	8-6-8-6-7/6-3-3-4-4	
3500	3-2-2-2-5/4-5-4-5-6	
3500-3510	7-7-6-6-6/7-4-4-4-4	DST #1: 3481-3506; Circ.
20	4-4-4-4-3/4-4-3-3-2	
30	2-5-7-6-8/6-4-4-5-4	
40	4-3-6-2-5/5-4-5-5-5	
50	6-7-3-5-5/5-6-7-7-8	
60	8-6-6-5-5/6-6-7-4-3	
70	4-3-3-4-7/4-4-4-7-8	DST #2: 3551-3570; Circ.
80	5-7-6-6-5/5-6-6-6-8	
90	7-7-7-6-5/7-5-7-6-4	
3600	6-5-5-6-5/4-4-5-5-5	

DRILLING TIME LOG: #1 Biden

Depth	Minutes	Remarks
1' Intervals		
3600-3610	6-6-7-7-8/10-11-8-8-7	DST #3: 3580-3605; Circ.
20	7-8-8-9-10/10-10-8-9-11	
30	11-12-8-5-8/11-6-7-6-6	DST #4: 3605-3637; Circ.
40	7-6-8-8-5/8-7-4-6-5	Circ. @ 3637'
50	5-3-3-3-3/4-3-8-8-6	
60	7-6-3-3-2/2-4-4-3-4	DST #5: 3637-3652; Circ.
70	5-5-5-6-6/7-6-6-6-7	
80	6-5-6-6-7/4-6-7-7-7	Circ. @ 3675'
90	8-7-4-5-7/9-7-5-6-5	
3700	6-5-6-5-6/9-7-6-5-7	
3700-3710	7-8-8-6-7/7-6-6-8-6	Circ. @ 3710
20	3-4-5-4-4/3-4-4-5-3	Slightly rough @ 3718'
30	6-5-5-5-5/5-7-6-6-6	
40	6-4-3-4-5/4-4-5-5-4	DST #6: 3687-3732'; Circ.
50	5-5-5-7-6/6-8-5-6-7	
60	0-5-4-5-4/7-6-5-3-6	Circ. @ 3752'
70	4-2-4-6-6/7-7-7-7-6	
80	7-4-6-6-5/6-7-7-5-7	
90	6-7-5-7-5/5-5-6-4-4	Circ. @ 3785'
3800	4-4-4-4-5/5-6-5-6-8	DST #7: 3744-3800; Circ.
3800-3810	7-4-7-6-5/4-4-4-4-3	
20	3-4-4-4-4/5-4-5-6-5	
30	7-6-6-6-5/5-5-6-5-6	
40	5-5-6-6-6/5-4-5-5-7	Rough @ 3836'
50	6-6-4-6-5/6-5-5-6-5	
60	5-5-5-5-4/3-4-5-6-8	
70	7-6-9-10-9/6-8-8-6-7	DST #8: 3840-65'; Circ.
80	6-6-8-5-5/6-3-4-4-3	Slightly rough @ 3873'
90	3-1-2-2-2/2-2-4-4-3	
3900	4-5-7-7-7/6-3-3-2-5	
3900-3910	3-2-3-4-2/2-2-3-3-3	Circ. @ 3905; Slightly rough
20	3-3-4-4-6/7-7-6-5-6	Rough @ 3916-17; Circ. @ 3917'
30	6-6-5-6-5/6-6-7-7-6	
36	5-6-6-4-5/8	DST #9: 3929-36; Circ.

Rotary Total Depth 3936 feet.