

STATE OF KANSAS
STATE CORPORATION COMMISSION

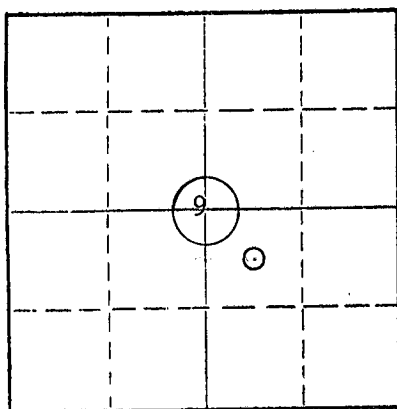
Form CP-4

Give All Information Completely
Make Required Affidavit
Mail or Deliver Report to:
Conservation Division
State Corporation Commission
212 No. Market
Wichita, Kansas 67202

WELL PLUGGING RECORD

Graham County, Sec. 4 Twp. 9S Rge. (E) 23 (W)

Location as "NE/CNW/SW" or footage from lines C NW SE
Lease Owner Cities Service Oil Company
Lease Name McPherson "A" Well No. 2
Office Address Box 553 Russell, Kansas 67665
Character of Well (completed as Oil, Gas or Dry Hole) Oil - later SWD
Date well completed 5-20 1955
Application for plugging filed 12-19 1969
Application for plugging approved 12-22 1969
Plugging commenced 2-11 1970
Plugging completed 2-13 1970
Reason for abandonment of well or producing formation Brush Creek L-KC Unit
Waterflood commenced - SWD no longer needed
If a producing well is abandoned, date of last production Not applicable
Was permission obtained from the Conservation Division or its agents before plugging was commenced? Yes



Locate well correctly on above
Section Plat

Name of Conservation Agent who supervised plugging of this well Mr. W. L. Nichols
Producing formation L-KC Depth to top 3582' Bottom 3794' Total Depth of Well 3825 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
				8 5/8"	229'	None
				5 1/2"	3823'	1162'

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 for each plug set.

2-5-70 Spotted 5 Sx. cement over perforations (well was flowing)
2-6-70 Spotted 25 sx. cement over perforations
Shot off casing at 1170' and pulled 36 joints - 1162'. Put in 5 sx. hulls,
16 sx. gel, 100 sx. 50/50 Pozmix cement filling hole to 675', ran 11 sx. gel filling
hole to 235', 25 sx. cement filling hole to 160', 3 sx. gel. filling to 40' and
10 sx. cement filling 40' to surface. Cut off surface casing and welded on cap.

Plugging complete

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

Name of Plugging Contractor Knight Casing Pulling Co., Inc.
Address Chase, Kansas

STATE OF Kansas, COUNTY OF Russell, ss.
E. W. Peterman (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) E. W. Peterman

Box 553 Russell, Kansas 67665

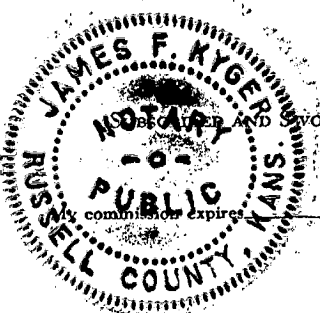
(Address)

Sworn to before me this 17th day of March, 1970

James A. Kyger

Notary Public.

10-5-72



IMPERIAL OIL KANSAS, INC.

Well Completion Report

McPherson Lease. Well No. 2 (Inj. Well)
 Loc. C NW SE Sec. 4 Twp. 9S Rge. 23W
 County. Graham State Kansas
 Pool Brush Creek

Spud Date 4-30-55
 Rotary Completed 5-8-55
 Completion Date 5-20-55
 Potential 636 BOPD
 Gravity 36.6
 Accum. Production to 1-57 15,768

Surface casing set at 229 (8 5/8") with 150 Sacks
 Production casing set at 3823 (5 1/2") with 100 Sacks
 Rotary total depth 3825'

Formation Tops:

Elevation: 2258' RB

Sample

Electric Log Yes

Top Anhydrite
 Top Heebner
 Top Lansing
 Rotary Total Depth

1893 (365)
 3541 (-1283)
 3582 (-1324)
 3825 (-1567)

3541 (-1283)
 3581 (-1323)

PRODUCING AND PROSPECTIVE PRODUCING ZONES

Formation	Depth	Remarks	Estimated Reserves
Lansing 140'Z	3712-19	7' Open - Perf 3714-19	

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Completion Data:

5-10-55 - Moved unit in & started rigging up.

5-11-55 - Finished rigging up. Drilled staging collar. Swabbed hole dry. Drilled out float to check cement.

5-16-55 - Ran Halliburton log. Perf. 35 holes from 3714-3719' (-140'Z) using 1/3" bullets by Hall. Had show of oil.

5-17-55 - 5 hr. fillup showed 1100' of oil. NW. 12 hr. swab test off bottom showed 4 BOPH - NW.

5-18-55 - 8 hr. fillup showed 1300' of oil. NW. 6 hr. swab test showed 4 BOPH-NW.

5-19-55 - 16 hr. fillup showed 1800' of oil - NW. Acidized w/2000 gal J-type acid by Chem. Process. Highest pressure used 100#. Pressure drop was from 100# to 0 in 3 min. Swabbed hole to within 500' of bottom.

5-20-55 - Static on well was 2500'. 4 hr. swab test 500' off bottom showed 35 BOPH-NW. Ran tubing and rods. Tore unit down and moved out.

BRUSH CREEK WATERFLOOD:

9-11-64: Moved in Franks Unit No. 2; ran tubing with packer; checked for Dakota break-in. Set packer @ 2100' from surface; pumped down annulus at rate of 2 BPM, 80# pressure - appeared to have small leak in Dakota. Pulled packer; ran tubing with Model "G" set-down packer & unloader with safety joint, 1 joint above packer. Ran working bbl. & perf. below packer set @ 3671' to blank off Dakota.

1-29-66. Prepared to pressure up tubing. Pumped in 2 barrels. Pressure to 1000#. Standing at 780# for 5 hrs.

GEOLOGICAL REPORT

Company: Imperial Oil of Kansas, Inc.
Farm: McPherson #2
Contractor: Imperial Oil of Kansas, Inc.
Pool: Brush Creek

CNW SE Sec. 4-9-23W
Graham County, Kansas
Elevation: 2258' R.B.
Rotary Total Depth 3825'

Rotary Completed: 5-8-55

Geological Data:

Samples were examined on location, by writer, from 3500' to Rotary Total Depth.

Formation Tops:

Top Anhydrite	1893'	{ 7365 }
Top Heebner	3541'	{ -1283 }
Top Lansing	3582'	{ -1324 }
Rotary Total Depth	3825'	{ -1567 }

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Top Lansing 3582' (-1324) Porosity and shows of oil.
3616-20 (35' zone) White to tan fossiliferous cherty lime, good fossiliferous porosity with fair show of free oil. D.S.T.

D.S.T.#1 3602-20 Open 1 hour recovered 2000' salt water.
I.F.P. 60#, F.F.P. 890#, B.H.P. 1280# in 20 minutes.

3660-66 (90' zone) White oolitic - oolitic limestone, trace of free oil. Stains - mostly barren.

3714-20 (140' zone) Tan fossiliferous limestone, fair show free oil in 3 or 4 pieces. D.S.T.

D.S.T.#2 3710-26 Open 1 hour - received 3000' gas, 560' free oil, I.F.P. 30#, F.F.P. 210#, B.H.P. 1180# in 20 minutes.

3734-37 (160' zone) Tan-grey medium crystalline limestone. Poorly developed trace dead oil, no free oil.

3746-52 (180' zone) Medium crystalline, slightly fossiliferous limestone, trace spotted stain, light trace of free oil. D.S.T.

D.S.T.#3 3740-58 Open 1 hour - recovered 3' mud. B.H.P. 0# in 20 minutes.

3766-74 (200' zone) Grey mottled fossiliferous limestone. Trace spotted stain. Light trace of free oil, good porosity development, with watery barren porosity in dry sample.

3784-89 (220' zone) White fossiliferous limestone. Light porosity development, no show of oil. Halliburton Electric Log shows good resistivity in this zone. D.S.T.

Geological Report

-2-

McPherson No. 2

D.S.T.#4 3781-98 Open 1 hour, recovered 5' mud. B.H.P. C#
in 20 minutes.

5½" casing cemented at 3825' on 5-2-55.

IMPERIAL OIL OF KANSAS, INC.

By:

Orlin R. Phelps
Orlin R. Phelps, Geologist

lmd

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