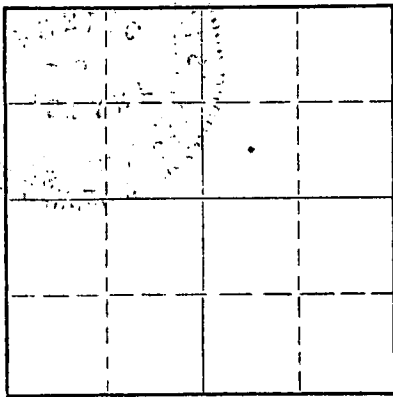


STATE OF KANSAS
STATE CORPORATION COMMISSION
Give All Information Completely
Make Required Affidavit
Mail or Deliver Report to:
Conservation Division
State Corporation Commission
212 N. Market
Wichita, Kansas

WELL PLUGGING RECORD



Locate well correctly on above
Section Plat

Graham County. Sec. 15 Twp. 9S Rge. (E) 24 (W)
Location as "NE/CNW/SW" or footage from lines C SW NE
Lease Owner Cities Service Oil Co.
Lease Name Nickelson A Well No. 4W
Office Address Box 553 Russell, Kansas
Character of Well (completed as Oil, Gas or Dry Hole) Water Injection
Date well completed 6-24 19 58
Application for plugging filed 5-6 19 69
Application for plugging approved 6-16 19 69
Plugging commenced 6-12 19 69
Plugging completed 6-24 19 69
Reason for abandonment of well or producing formation Non-profitable

If a producing well is abandoned, date of last production May 19 67
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 Morland, Kansas
Producing formation Lansing-Kansas City Depth to top 3863 Bottom 4003 Total Depth of Well 4048 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"	220'	None
				5 1/2"	4048'	1032'

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.

Ran 120 Jts. 2" tubing and circulated out Kempac. Spot 35 sx. cement
on bottom. Fill up to 3694'. Pull 2" tubing Pump in 100 sx. 50/50
Pozmix cement Pump plug to 1125' Shot casing at 967'. Pulled 32 Jts.
1032' 5 1/2" casing Pump 5 sx. hulls, 10 sx. gel, 4 sx. cement. Standing
pressure 1000# Hole full Complete 11:30 A.M. 6-24-69

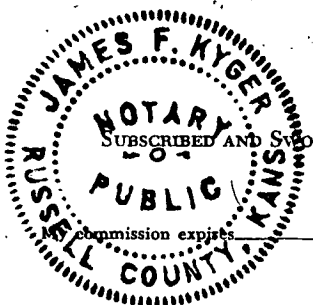
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STATE CORPORATION COMMISSION
7-8-69
JUL 8 1969
CONSERVATION DIVISION
Wichita, Kansas

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

Name of Plugging Contractor Halliburton Co.
Address Hays, 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)



Subscribed and sworn to before me this 7th day of July, 1969

James F. Kyger
Notary Public.

Commission expires 10-5-72

15-065-01616-0001

CITIES SERVICE OIL COMPANY
~~IMPERIAL OIL~~ ~~KANSAS, INC.~~
 Well Completion Report

Nickelson Lease. Well No. A-4
 Loc. C SW ~~ENE~~ Sec. 15 Twp. 9S Rge. 24W
 County Graham State Kansas
 Pool South Holley

Spud Date 5-29-58
 Rotary Completed 6-8-58
 Completion Date 6-24-58
 Potential
 Gravity
 R. T. D. 4048

Surface casing set at (8 5/8) 220 with 125 sacks
 Production casing set at (5 1/2) 4048 with 100 Sacks

Formation Tops: 2499 KB
 Elevation:

Sample

Electric Log

Anhydrite	2148 (+ 351)	
Heebner	3797 (-1298)	3796 (-1297)
Toronto	3821 (-1322)	3820 (-1321)
Lansing	3838 (-1339)	3836 (-1337)

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 MAY 7 1969
 Wichita, Kansas

PRODUCING AND PROSPECTIVE PRODUCING ZONES

Formation	Depth	Feet	Remarks	Estimated Reserves
Lansing				
35' A	3863-65	2	DST 3855-75 Open 2 hrs. Rec. 195' HOCM BHP 1030#	
70-90' Z	3903-08	5	DST 3894-3908 Open 1 hr. Rec. 480' G ✓ 120' HOCM 120' O BHP 1130#	
140' Z	3962-64	2	DST 3957-80 Open 2 hrs. Rec. 1245' G- 200' OCM 120' W BHP ?	
160' Z	3984-88	4	Perf. 3986-90	21,200
180' Z	4001-03	2	Perf. 4003-07	

No other zones worthy of testing.

Completion Data: 6-19-58

Moved in Franks unit #2. Rigged up. Swabbed hole down.

6-20-58

Perf. 180' zone 4003-07 with 3 Bullets per ft.
 Perf. 160' zone 3986-90 with 3 Bullets per ft.
 + 4 Jets per ft. Hole filled with rotary mud to 2800'. Swabbed hole down.

6-21-58

Ran tubing preparing to squeeze.

6-22-58

Squeezed 160' & 180' zones with 50 sacks cement.
 MP 1700#.

6-23-58

Drilled out cement.

6-23-58 con't

Reperf. 180' zone 4003-07 with 4 Jets per ft.
 Reperf. 160' zone 3986-90 with 4 Jets per ft.
 Ran tubing with Imperial packer set @ 3995.
 Attempted to acidize each zone with 500 gal. reg.
 Zones communicated. Displaced 1000 gal.
 through 180' zone perforations. MP 400#.
 Pulled tubing removed packer.

6-24-58

Swabbed load back. 8 hr. swab test 10 BOPH
 trace of wtr 600' off bottom. Ran tubing and
 rods. Moved out.

CITIES SERVICE OIL COMPANY
 IMPERIAL OIL OF KANSAS, INC.
 Well Completion Report

Nickelson Lease. Well No. 4 County Graham State Kansas
 Loc. C SW NE Sec. 15 Twp. 9S Rge. 24W Pool South Holley

2-22-61: Moved in Franks Unit #2, rigged up. Pulled rods and tubing. Ran tracer-acid log, perf. 70' zone 3903-05, 4 jets per ft. Set Baker Retr. plug at 3925'. SHD, swab tested 25 GOPH for 3 hrs. Acidized with 500 gals. reg. MP 250#, input rate .2 BPM. 1 minute PD 100#, 3 minutes PD 200#. SHD, 2 hr. swab test, 12 BFPH 1000' off bottom, 11 BW and 1 BO. Tracer log showed well channeled down to 90' and 100' zones.

2-23-61: Dumped 1 1/2 sax of Ottawa sand on Baker plug, filled up 10'. Ran tubing with Chem-Tech packer. Had packer failure. Pulled tubing and reran packer. Loaded hole with oil, set packer at 3876'. Squeezed 70' zone, perf. 3903-05 with 75 sax Doc. Displaced 10 sax at a standing pressure 2500#. Reversed out remaining cement. Pulled tubing with Chem-Tech packer, WOC 10 hrs.

2-24-61: SHD, drilled out and cleaned out Doc to 3915'. Tested 2 1/2 GOPH for 4 hrs. Retreated with 300 Gal Gel acid. MP 250#. Input rate 4 GPM. 1 minute PD 250#. SBL, tested 10.5 BFPH 800' off bottom for 2 hrs., 10 BW and .5 BO.

2-25-61: Ran tubing with Baker packer. Loaded hole with water and set packer at 3880'. Squeezed 70' zone perf. 3903-05 with 50 sax posmix. Displaced 25 sax at a standing pressure of 1500#. Reversed out remaining cement. Pulled tubing and packer, WOC 12 hrs. Swabbed hole down.

2-27-61: Drilled out cement and cleaned out to plug. Swab tested 1/2 BOPH for 7 hrs. Retreated with 300 gals. Gel acid. MP 250#, input rate .2 BPM. PD to 0 in 1 minute, vacuum in 3 minutes. SBL, tested .75 BOPH 1 pull off bottom for 7 hrs. Retreated with 1500 gals. Gel. MP 250#, input rate .8 BPM. 1 minute PD 50#, 3 minutes PD 125#. WOA 4 hrs. SBL, 8 hr. swab test 9.50 BFPH 1200' off bottom, 1 pull per hr., 2.25 BO and 7.25 BWPH, 24% Oil, 76% Water. Removed Baker retr. plug.

2-28-61: Ran tubing with Baker Model "A" setdown packer with perforations below packer. Packer set at 3970' to produce from 160' and 180' zones. Running rods, putting well on pump.

7-16-62: Moved in Franks Unit #2. Rigged up; pulled rods and tubing.

7-17-62: Perf. 140' zone 3962-64, 4 shots per ft. Perf. 35' zone 3864-66. Ran tubing with Chem-Tech straddle packers. Straddled 140' zone; treated with 100 gals. Reg. and 500 gals. Gel acid. HP 600#; had acid on formation for 30 mins. before acid commenced to feed, broke back to 250#. Input rate 1 1/2 BPM; PD to zero when pump stopped. WOA 3 hrs.; swabbed back thru tubing; 2 hr. swab test, well swabbing 1.25 BFPH, 50% water. Straddled 35' zone; treated with 400 gals. Reg. and 1500 gals. Gel. MP 500#; input rate 1 BPM; PD to 150# in 2 mins. Shut well in for 9 hrs.

7-18-62: Pulled tubing; removed packers to place well on pump to produce from the 35', 70', 140', 160', and 180' zones.

NICKELSON WF

2-14-64: Moved in Franks Unit no. 1; rigged up; pulled rods & tubing; ran tubing with straddle packers; top packer set @ 3880'; bottom packer set @ 3974' to blank off 70' & 140' zones, to inject wtr. down tubing into 160' & 180' zones & down the annulus into the 35' zone. Unloader is located just above top packer.