

15-005-03129-0000

800

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. 15 Twp. 10S Rge. (E) 23 (W)

Location as "NE/CNW/SW" or footage from lines NE/4 NE/4 NE/4
Lease Owner Skelly Oil Company

Lease Name Frank Law Well No. 1

Office Address 1860 Lincoln St., Denver, Colorado

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

Date well completed October 5, 1959

Application for plugging filed September 21, 1967

Application for plugging approved September 22, 1967

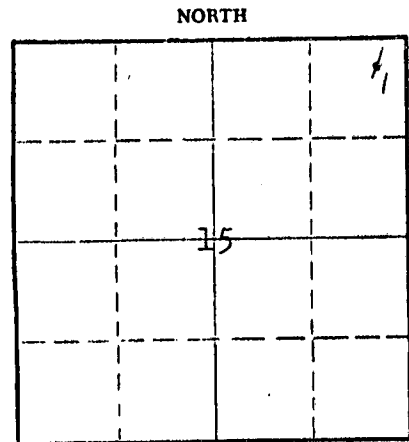
Plugging commenced October 18, 1967

Plugging completed October 21, 1967

Reason for abandonment of well or producing formation Uneconomical to operate

If a producing well is abandoned, date of last production Sept. 28, 1967

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 Lansing Lime Depth to top 3656' Bottom Total Depth of Well 3950 Feet

Show depth and thickness of all water, oil and gas formations. PB 3914'

OIL, GAS OR WATER RECORDS

CASING RECORD

FORMATION	CONTENT	FROM	TO	SIZE	PUT IN	PULLED OUT
Lansing Lime	Oil	3657'	3670'	8-5/8"	237'	None
				5-1/2"	3947'	3323'

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.

Sand 3914' to 3675'
5 sacks of cement 3675' to 3635'

Squeezed hole with 35 sacks of gel and 5 sacks of hulls plus 130 sacks of cement

Mud 3635' to 1125'
100 sacks of cement 1125' to 800'
12 sacks of gel 800' to 260'
30 sacks of cement 260' to 200'
3 sacks of gel 200' to 30'
10 sacks of cement 30' to Base of cellar
Surface soil Cellar to Surface

(If additional description is necessary, use BACK of this sheet)
Name of Plugging Contractor Southwest Casing Pulling Company, Inc.
Address P. O. Box 364, Great Bend, Kansas 67530

STATE OF Colorado, COUNTY OF Denver, ss.
Leland Franz (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) Leland Franz
1860 Lincoln St., Denver, Colo. 80203
(Address)

SUBSCRIBED AND SWORN TO before me this 1st day of November, 1967

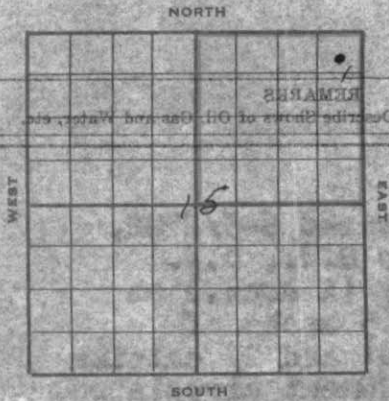
My Commission expires June 17, 1970

My commission expires

Mary E. Lesting
Notary Public.

15-065-03129-0000

SKELLY OIL COMPANY



Well Record
 Lease Name and No. **Frank Law** Well No. **1** Elev. **2358' BH**
 Lease Description **NE/4 Section 15-10S-23W, Graham County, Kansas (160 Acres)**
 Location made **September 5, 1959** by **Edwin Braun**
330 feet from North line **330** feet from East line **NE/4**
 feet from South line feet from West line of **Sec. 15**

Work com'd **9/8** 19**59** Rig comp'd **9/9** 19**59** Drlg. com'd **9/9** 19**59** Drlg. comp'd **9/20** 19**59**
 Rig Contractor **Claude Wentworth Drig. Co., Inc.**
 Drilling Contractor **Claude Wentworth Drig. Co., Inc., Tulsa, Oklahoma**
 Rotary Drilling from **0'** to **3950'** Cable Tool Drilling from **To complete** to

Commenced Producing **October 5, 1959** Initial Prod. before shot or acid _____ Bbls.
 Initial Prod. after shot or acid **POB 8 hrs. 166 BO, 5** Bbls.
wtr. to estab. 24 hr. SCC potential of 498 BO
 Dry Gas Well Press _____ Volume _____ Cu. ft.
 Casing Head Gas Pressure _____ Volume _____ Cu. ft.
 Braden Head (_____) Gas Pressure _____ Volume _____ Cu. ft.
 Braden Head (**8-5/8" x 5 1/2" OD**) Gas Pressure _____ Volume _____ Cu. ft.

PRODUCING FORMATION **Lansing Line** Top **3657'** Bottom **3670'** TOTAL DEPTH **3950'**
 (Name) **3832'** **3838'** **PB 3914'**

CASING RECORD

OD	Size	Wt.	Thds.	Where Set	PULLED OUT			LEFT IN			KIND	Cond'n	CEMENTING		WTM
					Jts.	Feet	In.	Jts.	Feet	In.			Sacks Used	Method Employed	
	8-5/8"	22.7	SJ	240'				6	237	0	Arcco SW A	165	Hallib.		
	5-1/2"	14	8R	3949'				124	3947	0	J55 R2 SS A	200	Hallib.	3979' 6"	
(8-5/8" casing cut off 1' below ground level and 5 1/2" cut off at ground level)															
5 1/2" casing perforations open:															
Above PB TD: 3657'-70'/52 holes, 3832'-38'/24 holes															
Below PB TD: None															

Liner Set at _____ Length _____ Perforated at _____
 Liner Set at _____ Length _____ Perforated at _____
 Casing Set at _____ Size and Kind _____
 Casing Set at _____ Size and Kind _____

SHOT OR ACID TREATMENT RECORD

	FIRST	SECOND	THIRD	FOURTH
Date	9/28/59	9/29/59	9/30/59	
Acid Used				
Size Shot	500	1250	500	
Shot Between	3832 Ft. and 3838 Ft.	3832 Ft. and 3838 Ft.	3701 Ft. and 3705 Ft.	Ft. and Ft.
Size of Shell	15%	15%	15%	For remaining
Put in by (Co.)	Halliburton	Halliburton	Halliburton	treatments see
Length anchor				remarks
Distance below Cas'g.				
Damage to Casing or Casing Shoulder				

SIGNIFICANT GEOLOGICAL FORMATIONS

NAME	Top	Bottom	GAS		OIL		REMARKS
			From	To	From	To	
Topeka Line	3403'						
Heebner Shale	3622'						
Toronto Line	3642'						
Lansing Line	3656'				3657'	3670'	Prod. thru csg. perf.
Marmaton	3927'				3832'	3838'	"

CLEANING OUT RECORDS

	DATE COMMENCED	DATE COMPLETED	PROD. BEFORE	PROD. AFTER	REMARKS
1st					See Reverse for other details.
2nd					" " " " "
3rd					" " " " "
4th					" " " " "

PLUGGING BACK AND DEEPENING RECORDS

	Date Commenced	Date Completed	No. Feet Plugged Back or Deepened	Prod. Before	Prod. After	REMARKS
1st						See Reverse for other details.
2nd						" " " " "
3rd						" " " " "
4th						" " " " "

(See Reverse for Record of Formation)

CONSERVATION DIVISION
 Wichita, Kansas
 NOV 3 1967
 RECEIVED
 OPERATIONS DIVISION

RECORD OF FORMATIONS

FORMATION	TOP	BOTTOM	REMARKS
			Indicate Casing Points, Describe Shows of Oil, Gas and Water, etc.
Surface soil and sand	0	90	
Sand	90	241	Set and cemented 8-5/8" OD, 22.7#, Arco S.W., S.J. steel casing (A cond.) at 240' with 165 sacks of Pozmix cement and 2% calcium chloride. Cement circulated.
Shale and shells	241	1450	
Sand	1450	1700	
Shale and shells	1700	1915	
Anhydrite	1915	1954	
Shale and shells	1954	2565	
Shale and lime	2565	2940	
Lime	2940	3080	
Shale and lime	3080	3200	
Shale	3200	3280	
Shale and lime	3280	3661	
			TOP TOPEKA 3403'
			TOP HERNER SHALE 3622'
			TOP TORONTO LINE 3622'
			TOP LANSING LINE 3656'
Lime, light fine crystalline	3661	3665	Poor to fair spotted vuggy porosity, light show of free oil, trace light oil stain.
Lime	3665	3680	DRILL STEM TEST NO. 1 3652'-3680', open 1 hour 30 mins., strong blow throughout recovered 210' of free oil (38° gravity), 585' of very heavy oil and gas cut mud, IBHP-1145#, in 20 mins., IFF-105#, FFP-310#, FBHP-1070# in 20 mins.
Lime	3680	3795	
Lime and shale	3795	3798	
Lime, light gray, fine crystalline	3798	3802	Fair pinpoint porosity with trace of free oil, scattered stain.
Lime	3802	3811	DRILL STEM TEST NO. 2 2783'-3811', open 1 hour, weak blow, dead in 5 mins., recovered 10' of mud with few oil specks, IBHP-755# in 20 mins., IFF-0#, FFP-0#, FBHP-50# in 20 mins.
Lime	3811	3836	
Lime, white to gray finely crystalline	3836	3839	Fair vuggy porosity, good spotted stain, fair show of free oil, slight odor.
Lime	3839	3854	
Lime, gray, fine crystalline	3854	3856	Scattered pinpoint porosity, spotted slight stain, very slight show of free oil.
Lime	3856	3871	DRILL STEM TEST NO. 3 3827'-3871', open 1 hour, weak blow dead in 40 mins., recovered 60' of mud with few specks of oil, IBHP-1145# in 20 mins., IFF-0#, FFP-50#, FBHP-155# in 20 mins.
Lime	3871	3950	BASE KANSAS CITY LINE 3883' TOP MARIONTON 3927' Ran Schlumberger Survey from 3950' to 0'.
TOTAL DEPTH 3950'			
Total Depth Reached: 9/20/59			

Set and cemented 5 1/2" OD, 14#, SR, thd., R-2, J-55, S.S. casing (A condition) at 3949' with 200 sacks of special oil well Pozmix cement, opened stage collar at 3367' with 900# casing pressure, circulated out cement for 1 hour. Spotted 160 barrels of oil behind 5 1/2" casing, oil circulated. Closed stage collar with 1300#-CP. Finished cementing at 5:30 pm 9/21/59.

Rigged up cable tools on September 27, and swabbed and bailed the hole dry to 3367'. Drilled stage collar at 3367' and drove to 3914' SLN. Swabbed and bailed the hole dry, and ran Lane-wells Collar Log from 3914' to 3350'.

NOV 1 1959

Casing Perforation No. 1 - Lansing Line - 3832'-3838'
3832'-3838' 24 A-2 holes

Bailed 1 hour, 2 gallons of muddy water and oil per hour. Treated through 5½" casing with 500 gallons of Halliburton 15% acid as follows:

TREATMENT NO. 1 - Acidized - 3832'-3838'

Treatment put in 9/28/59 by Halliburton, using 500 gallons of acid and 95 barrels of oil.

TIME	CP	TP	REMARKS
2:20 pm			Start acid
2:25 pm			Acid in casing
2:50 pm			Acid on formation
3:20 pm	100%		
4:50 pm	400%		
5:50 pm	550%		
5:52 pm	400%		
6:30 pm	475%		Treatment completed

Swabbed through 5½" casing 4 hours, 95 barrels of oil used in treating. Then swabbed 5 hours, 8½ barrels of oil and 1 barrel of acid water. On September 29, swabbed through 5½" casing 3 hours, 4½ barrels of oil and 2 barrels of water. Reacidized w/ 1250 gallons of Halliburton acid through 5½" casing as follows:

TREATMENT NO. 2 - Acidized - 3832'-3838'

Treatment put in 9/29/59 by Halliburton, using 1250 gallons of acid and 100 barrels of oil.

TIME	CP	TP	REMARKS
1:00 pm			Start acid
1:25 pm	100%		Hole loaded
1:50 pm	350%		
2:35 pm	500%		Treatment completed

Swabbed through 5½" casing 3 hours, 100 barrels of oil used in treating. Then swabbed 10 hours, 32 barrels of oil and 5 barrels of acid water.

Set Lane-Wells bridging plug at 3715' and 5½" casing tested dry.

Casing Perforation No. 2 - Lansing Line - 3701'-3705'
3701'-3705' 24 A-2 holes

Tested 2 gallons of oil and water per hour. Treated through 5½" casing with 500 gallons of Halliburton 15% acid as follows:

TREATMENT NO. 3 - Acidized - 3701'-3705'

Treatment put in 9/30/59 by Halliburton, using 500 gallons of acid and 91 barrels of oil.

TIME	CP	TP	REMARKS
1:30 pm	100%		Acid on formation
2:00 pm	200%		
3:00 pm	400%		
3:30 pm	500%		
4:25 pm	500%		Treatment completed

Swabbed through 5½" casing 2 hours, 91 barrels of oil used to flush, show of water. Then swabbed 5 hours, 100 barrels of water with trace of oil. Set Halliburton DM retainer at 3673'. Pressured annulus to 500%, input below retainer 2½ barrels per minute at 1000/-TP. Cemented off perforations from 3701' to 3705' with 125 sacks of special oil well cement, estimated 102 sacks below retainer at 1000/-TP. Reversed out 23 sacks of cement. Finished at 12:00 noon 10/1/59. Pulled 2" tubing, swabbed and bailed the hole dry to top of retainer at 3673', tested dry.

Casing Perforation No. 3 - Lansing Line - 3657'-3670'
3657'-3670' 52 A-2 holes

Bailed 1 hour, 15 gallons of oil and no water. Treated through 5½" casing with 500 gallons of Halliburton 15% acid as follows:

TREATMENT NO. 4 - Acidized - 3657'-3670'

Treatment put in 10/1/59 by Halliburton, using 500 gallons of acid and 90 barrels of oil.

TIME	CP	TP	REMARKS
9:55 pm	100%		Acid on formation
10:30 pm	200%		
11:00 pm	300%		
11:33 pm	450%		Treatment completed

MADE IN U.S.A.

WYSI WONO 11/10/59

See

Swabbed through 5 1/2" casing 3 hours, 90 barrels of oil used in treating. Then swabbed 4 hours, 64 barrels of oil and 2 barrels of acid water. On October 2, swabbed through 5 1/2" casing 8 hours, 96 barrels of oil and 2 barrels of water. Reacidized with 1500 gallons of Halliburton 15% acid as follows:

TREATMENT NO. 5 - Acidized - 3657'-3670'

Treatment put in 10/2/59 by Halliburton, using 1500 gallons of acid and 91 barrels of oil.

TIME	CP	IP	REMARKS
3:45 pm			Start acid
4:07 pm	250'		
4:12 pm	300'		
5:13 pm	400'		
5:37 pm	400'		Treatment completed

Swabbed through 5 1/2" casing 1 1/2 hours, 91 barrels of oil used in treating. Then swabbed 7 hours, 141 barrels of oil and 16 barrels of water. On October 3, swabbed through 5 1/2" casing 3 hours, 56 barrels of oil and 5 barrels of water.

Drilled retainer at 3673' and cement plug and cleaned out to 3709'. Drilled and drove bridging plug from 3715' to 3914'SLM.

PLUGGED BACK TOTAL DEPTH 3914'

Swabbed and bailed the hole dry. Ran 2" tubing and rods. On October 5, FOB 8 hours on State Corporation Commission physical potential test, 166 barrels of oil, 5 barrels water, to establish 24 hour S.C.C. potential of 498 barrels. This potential allows 25 barrels per day for the remainder of October, 1959.

SLOPE TEST DATA

DEPTH	ANGLE OF DEFLECTION
1000'	1/2 Degree
1500'	1/2 "
2000'	1/2 "
2500'	1/2 "
2680'	1/2 "
3500'	1/2 "

MADE IN U.S.A.

AMERICAN UNION PRINT

SKELLY OIL COMPANY

CHANGE IN WELL RECORD

Give complete description of all cleaning out, deepening, plugging back and fishing jobs, changes in casing, material lost in hole, etc, not recorded in original well record.

LEASE NAME Frank Law WELL NO. 1 DISTRICT Rocky Mountain
 SEC. 15 T. 10S R. 23W COUNTY Graham AFE NO. 23155
 BLOCK _____ SURVEY _____ STATE Kansas

TYPE OF WORK PLUG AND ABANDON WELL

Date commenced October 2, 1967 Date completed October 21, 1967
 Deepened from _____ to _____ Total Depth _____
 Plugged back from 3914' to Surface P.B.T.D. _____
 Cleaned out from _____ to _____
 Production before 6 bbls. oil 50 bbls. water --- cu. ft. gas.
 Production after _____ bbls. oil _____ bbls. water _____ cu. ft. gas.
 Tools owned by: Hammonds Well Service Kind used: Pulling Unit No. days rig time: 5
 Cost of Job \$ Southwest Casing Pulling Co. Revised Estimated Payout (Mos.) _____

TREATMENT RECORD

DATE	TYPE TREATMENT	INTERVAL TREATED	AMOUNT OF TREATMENT

CHANGES IN CASING RECORD

STRINGS	SIZE	WHERE SET (Depth)	CEMENTING RECORD		REMARKS
			Sacks Used	Top Cem't. Bh'd. Cas'g.	
Production					
Liner					Top liner;

SIZE	OD	WT.	THDS.	KIND	COND.	LEFT IN				PULLED OUT				
						Jts.	LTM		Jts.	LTM		Jts.	LTM	
							Feet	In.		Feet	In.		Feet	In.
<u>5-1/2"</u>	<u>14 1/2</u>	<u>8R</u>	<u>J55 R2 SS</u>	<u>C</u>	<u>19</u>	<u>652</u>	<u>3</u>	<u>656</u>	<u>3</u>	<u>105</u>	<u>3300</u>	<u>3</u>	<u>3323</u>	<u>3</u>

PRODUCING FROM

_____ thru OPEN HOLE _____ Total No. Shots _____
FORMATION PERFORATIONS TOP BOTTOM

REMARKS (Give review of work performed and any other comment of interest)

As the well is uneconomical to operate and there are no further zones considered worthy of testing, and the well is not needed for a waterflood program, regular authority was granted to plug and abandon it.

On October 2, 1967, moved in and rigged up pulling unit of Hammonds Well Service and pulled tubing and rods. Shut down for plugging machine.

On October 18, 1967, moved in and rigged up plugging machine of Southwest Casing Pulling Company and plugged the well as follows:

Sand 3914' to 3675'
 5 sacks of cement 3675' to 3635'

Shot 5 1/2" casing at 3300'. Pulled 105 joints (3323') of 5 1/2"OD casing.

Squeezed hole with 35 sacks of gel and 5 sacks of hulls plus 130 sacks of cement

Mud 3635' to 1125'
 100 sacks of cement 1125' to 800'
 12 sacks of gel 800' to 260'
 30 sacks of cement 260' to 200'
 3 sacks of gel 200' to 30'
 10 sacks of cement 30' to Base of cellar
 Surface soil Cellar to Surface

Plugged and abandoned October 21, 1967.