

STATE OF KANSAS  
STATE CORPORATION COMMISSION

Form CP-4

WELL PLUGGING RECORD

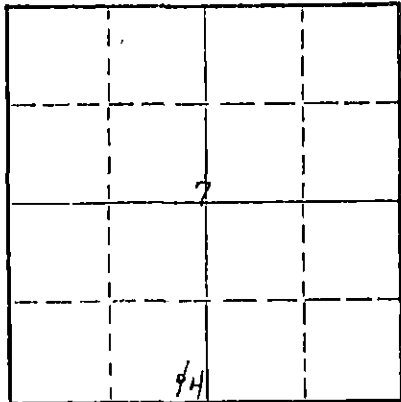
Give All Information Completely  
Make Required Affidavit  
Mail or Deliver Report to:  
Conservation Division  
State Corporation Commission  
212 No. Market  
Wichita, Kansas

Pratt

County. Sec. 7 Twp. 27S Rge. 12 (E) (W)

Location as "NE/CNWxSWx" or footage from lines SE/4 SE/4 SW/4  
Lease Owner Skelly Oil Company  
Lease Name Luders "B" Well No. 4  
Office Address 1860 Lincoln Street, Denver, Colorado  
Character of Well (completed as Oil, Gas or Dry Hole) Oil  
Date well completed January 30, 1953  
Application for plugging filed August 18, 1967  
Application for plugging approved August 21, 1967  
Plugging commenced September 22, 1967  
Plugging completed September 28, 1967  
Reason for abandonment of well or producing formation Depleted

NORTH



Locate well correctly on above Section Plat

If a producing well is abandoned, date of last production Shut Down 10/1 1961  
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 Mr. A. Elving  
Producing formation Viola Lime Depth to top 4154' Bottom Total Depth of Well 4284 Feet  
PB 4195'

OIL, GAS OR WATER RECORDS

CASING RECORD

FORMATION	CONTENT	FROM	TO	SIZE OD	PUT IN	PULLED OUT
Viola Lime	Oil	4154'	4176'	8-5/8"	444'9"	None.
					4329'6"	2994'

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 4195' to 4100'  
 20 sacks of cement 4100' to 3960'  
 Mud laden fluid 3960' to 300'  
 Rock bridge 300' to 290'  
 \*25 sacks of cement 290' to 215'  
 Rock bridge 40' to 30'  
 10 sacks of cement 30' to Base of cellar  
 Surface soil Cellar to Surface

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\*Mud laden fluid 215' to 40'

OCT 20 1967

10-20-67

CONSERVATION DIVISION  
Wichita, Kansas

(If additional description is necessary, use BACK of this sheet)  
Name of Plugging Contractor Ralph Comstock Pipe Pulling, Inc.  
Address 320 North Park, Stafford, Kansas 67578

STATE OF Colorado, COUNTY OF Denver, ss.  
Leland Franz (employee of owner) or (owner) 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.

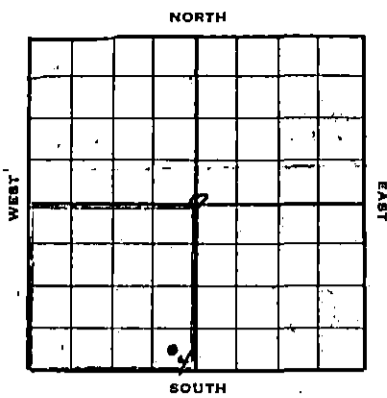
(Signature) Leland Franz  
1860 Lincoln St., Denver, Colo. 80203  
(Address)

SUBSCRIBED AND SWORN to before me this 19th day of October, 1967

My commission expires My Commission expires June 17, 1970

[Signature]  
Notary Public.

# SKELLY OIL COMPANY



## Well Record

1855'RB  
1852'BF  
1847'BB

Lease Name and No. **Luders RB #17569** Well No. **6** Elev. **6**  
 Lease Description **Lots 3 and 4, and the 1/2 - 3/4 (5/4)**  
**Section 7-27-12, Pratt County, Kans. (151.48 acres)**  
 Location made **October 27, 1952** by **Pratt County Engineer**  
**330** feet from North line **330** feet from East line  
**330** feet from South line **330** feet from West line of **Sec. 7**

Work com'd **10/28 1952** Rig com'd **10/30 1952** Drlg. com'd **10/30 1952** Drlg. comp'd **11/22 1952**  
 Rig Contractor **Claude Wentworth Drilling Co., Inc.**  
 Drilling Contractor **Claude Wentworth Drilling Co., Inc., Tulsa, Oklahoma**

Rotary Drilling from **0'** to **4284'** Cable Tool **To complete**

Commenced Producing **January 30, 1953** Initial Prod. before **30 gals. oil no wtr.** Bbls.  
 Initial Prod. after **no wtr. stab. 74 hr. 66 potential 143 Bbls.**

Dry Gas Well Press. Volume Cu. ft.  
 Casing Head Gas Pressure Volume Cu. ft.  
 Braden Head (**8-5/8" x 3 1/2" O.D.**) Gas Pressure Volume Cu. ft.  
 Braden Head ( ) Gas Pressure Volume Cu. ft.

PRODUCING FORMATION **Viola Lime** Top **4154'** Bottom **4176'** TOTAL DEPTH **4284'**  
 (Name)

### CASING RECORD

OD Size	Wt.	Thds.	Where Set	PULLED OUT			LEFT IN			KIND	Cond'n	CEMENTING	
				Jts.	Feet	In.	Jts.	Feet	In.			Sacks Used	Method Employed
8-5/8" 32#	27	EA	449'				15	444	9	H&O R2 25 C		250	Halliburton
5-1/2" 17#	EA	EA	4283'				186	4329	6	R1 L		200	Halliburton
(8-5/8" casing set 2' in cellar and 5 1/2" cased to derrick floor) (5-1/2" casing perforated from 4154'-76" with 132 holes)													
Used 1 - 5 1/2" O.D. Baker Cement Guide & Float Shoe													

Liner Set at \_\_\_\_\_ Length \_\_\_\_\_ Perforated at \_\_\_\_\_  
 Liner Set at \_\_\_\_\_ Length \_\_\_\_\_ Perforated at \_\_\_\_\_

Packer Set at \_\_\_\_\_ Size and Kind \_\_\_\_\_  
 Packer Set at \_\_\_\_\_ Size and Kind \_\_\_\_\_

### SHOT OR ACID TREATMENT RECORD

	FIRST	SECOND	THIRD	FOURTH
Date	12/11/52	12/20/52	12/23/52	
Acid Used				
Size Shot				
Shot Between	4225 Ft. and 4237 Ft.	4270 Ft. and 4274 Ft.	4250 Ft. and 4238 Ft.	
Size of Shell				
Put in by (Co.)	Halliburton	Halliburton	Halliburton	
Length anchor				
Distance below Cas'g	(Hydrafrac)	(Hydrafrac)	(Hydrafrac)	
Damage to Casing or Casing Shoulder				

### SIGNIFICANT GEOLOGICAL FORMATIONS

NAME	Top	Bottom	GAS		OIL		REMARKS
			From	To	From	To	
Brown Lime	3654'						
Lansing Line	3672'						
Mississippi Line	4110'						
Viola Line	4154'				4154'	4176'	Good por., fair to good sat
Simpson Shale	4200'						
Simpson Dolomite	4211'						
Simpson Sand	4226'						

### 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)

RECORD OF FORMATIONS

FORMATION	TOP	BOTTOM	REMARKS
Sand and clay	0	85	
Red bed and sand	85	200	
Red bed and shells	200	375	
Red bed and shells	375	449	Set and cemented 8-5/8" OD, 32#, 87 thd., R-2, H-40, S.C. casing (C cond.) at 449' with 250 sacks of cement, 1/2" aquagel.
Red bed and shells	449	545	
Lime	545	655	
Shale and shells	655	1300	
Salt and shale	1300	1425	
Shale and shells	1425	1630	
Lime and shale	1630	2300	
Lime	2300	2395	
Lime and shale	2395	3115	
Lime	3115	3190	
Lime and shale	3190	3540	
Lime	3540	4035	
Lime and shale	4035	4167	TOP BROWN LIME 3654' TOP LANSING LIME 3672' TOP MISSISSIPPI LIME 4110' TOP VIOLA LIME 4154'

Lost cone in hole, fished out cone and 13 bearings, leaving 3 bearings in hole.  
TOP SIMPSON SHALE 4200'  
TOP LIMONITE 4211'

Lime and sand 4167 4224  
Cored from 4224' to 4247' - Recovered 23'  
Top 2' - Shale  
Next 1' - Sandy shale, good odor  
Next 10' - Slightly friable oil saturated sand  
Next 3' - Shaley sand with oil saturation  
Last 7' - Sandy shale with stringers of quartzite 4" to 6" thick, poor oil show  
Reamed core hole from 4224' to 4247'  
TOP SIMPSON SAND 4226'

Cored from 4247' to 4265' - Recovered 18'  
Top 6'6" - Quartzite with very thin stringers of shaley, no shows  
Next 2'6" - Hard quartzitic sand, oil saturated  
Last 9' - Quartzite with very thin stringers of shale, no shows  
Reamed core hole from 4247' to 4265'

Cored from 4265' to 4284' - Recovered 19'  
Top 6'6" - Quartzite with thin streaks of sand and shale, poor show  
Next 6" - Oil saturated sand  
Next 1' - Quartzite with streaks of shale, poor show  
Next 7' - Slightly friable fractured oil saturated sand, good odor  
Last 3' - Shale, no shows  
Reamed core hole from 4265' to 4284'  
Set and cemented 5 1/2" OD, 17#, 6R thd., R-1, So. Chester steel casing (C cond.) at 4283' with 200 sacks of Pozzix cement. Finished at 6:00 a.m. 11/24/52.

On December 2, moved in and rigged up cable tools and bailed the hole dry. Drilled cement and cleaned out to 4265', 5 1/2" casing tested dry. Drilled cement and cleaned out to bottom. Ran Lane-Wells Gamma Ray Survey.

Perforated 5 1/2" casing from 4276' to 4280' with 12 holes by Lane-Wells and hole filled 250' with water. Bailed 2 hours, could not lower fluid level. Ran 2" tubing and set Baker cement retainer at 4206'. Cemented off perforations from 4276' to 4280' with 200 sacks of cement, maximum TP=3500%.

Drilled cement and cleaned out to 4273', 5 1/2" casing tested dry. Perforated 5 1/2" casing from 4275' to 4277' with 64 holes by Lane-Wells, no shows. Ran 2" tubing with Halliburton BM packer set at 4174. Ran double Halliburton-Hydrafrac from 4275' to 4277' as follows:

HYDRAFRAC TREATMENT NO. 1 - Between 4275' and 4277'

Used 500% Gel agent	
20 gallons of breaker agent	
1400/ sand	
1500 gallons kerosene	
Maximum TP=3000%, broke to 2800'	
Time 18 minutes	

Pulled tubing and packer, bailed and cleaned up hole. Swabbed through 5 1/2" casing 48 hours, 150 barrels of treating oil and 30 barrels of formation water. Ran 2" tubing and Baker cement retainer, set at 4172'. Cemented off perforations from 4225' to 4237' with 200 sacks of cement, maximum TP-3500%. Pulled tubing and shut down for cement to set. Bailed hole dry and drilled cement and retainers, and cleaned out to 4280'. Perforated 5 1/2" casing from 4270' to 4274' with 24 holes by Lane-Wells. Bailed and tested 1 hour, 1 1/2 gallon of fresh water with rainbow show of oil. Ran 2" tubing with Halliburton HM packer set at 4202'. Treated with Halliburton single Hydrafrac through perforations from 4270' to 4274' as follows:

HYDRAFRAC TREATMENT NO. 2 - Between 4270' and 4274'

Used 200% Gel  
 10 gallons breaker agent  
 800% sand  
 750 gallons kerosene  
 Maximum TP-3200%, broke to 2500%  
 Time 14 minutes

Pulled 2" tubing and packer and bailed hole clean. Swabbed 5 1/2 hours through 5 1/2" casing, 103 barrels of treating oil; then swabbed 10 hours, 1 1/2 barrels of formation water with very slight scum of oil per hour.

Set Lane-Wells bridging plug at 4265' and perforated 5 1/2" casing from 4250' to 4258' with 57 holes by Lane-Wells. Bailed 7 hours, 55 gallons of oil and 90 gallons of water; then bailed 3 1/2 gallons of oil and 3 1/2 gallons of water per hour. Ran 2" tubing and Halliburton HM packer set at 4173'. Treated with double Halliburton Hydrafrac from 4250' to 4258' as follows:

HYDRAFRAC TREATMENT NO. 3 - Between 4250' and 4258'

Used 400% Gel agent  
 20 gallons of breaker agent  
 1400% of sand  
 1500 gallons of kerosene  
 Maximum TP-3200%, broke to 2400%  
 Time 23 minutes

Pulled 2" tubing and packer and shut down two days for Christmas holiday. On December 27, bailed and cleaned up hole, then swabbed through 5 1/2" casing 24 hours, 140 barrels of treating oil; last 13 hours, swabbed 6 1/2 barrels treating oil and 2 1/2 barrels formation water. Swabbed through 5 1/2" casing 24 hours, 16 barrels of oil used to Hydrafrac and 3 barrels of formation water.

Attempted to set Lane-Wells bridging plug at 4200' and plug failed to hold. Came up hole to 3720' and drilled and drove plug to 4262 1/2' and set second Lane-Wells bridging plug at 4195'. Perforated 5 1/2" casing from 4154' to 4176' with 132 holes. Ran bailer twice and recovered 30 gallons of very light oil, no water. Swabbed through 5 1/2" casing 12 hours, 8.35 barrels of oil, no water. Ran 2" tubing and Halliburton HM packer set at 4113'. Treated with double Halliburton Hydrafrac from 4154' to 4176' as follows:

HYDRAFRAC TREATMENT NO. 4 - Between 4154' and 4176'

Used 400% gel  
 20 gallons breaker agent  
 1300% sand  
 1500 gallons kerosene  
 Maximum TP-2700%, broke to 2500%  
 Time 18 minutes

Pulled tubing and packer and bailed and cleaned up hole. Swabbed through 5 1/2" casing 6 hours, 148.35 barrels of treating oil, no water. Swabbed 6 hours, 27 barrels of treating oil, no water. Swabbed 12 hours, 56 barrels of oil and no water; then ran tubing and rods and PCB 10 hours, 30 barrels of oil with trace of water. At this time moved out cable tools and installed regular surface pumping equipment.

On January 30, FOB 8 hours on physical potential test, 47.75 barrels of oil and no water to establish 24 hour State Corporation Commission potential of 143 barrels. This potential allows 25 barrels per day.

SLOPE TEST DATA	
DEPTH	ANGLE OF REFLECTION
500'-1300'	0 Degrees
1550'	1 "
1850'	0 "
2100'	0 "
2400'	0 "
2650'	0 "
3020'	1/2 "
3320'	1 "
3677'	1/2 "

MEMORANDUM FOR THE DIRECTOR, BUREAU OF CONSERVATION  
SUBJECT: [Illegible]

[Illegible text]

[Illegible text]

[Illegible text]

[Illegible text]

[Illegible text]

[Illegible text]

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AUG 21 1967  
CONSERVATION DIVISION  
WICHITA, KANSAS

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# 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 Luders "D"  
 SEC. 7 T. 27S R. 12W  
 BLOCK \_\_\_\_\_ SURVEY \_\_\_\_\_

WELL NO. 4 DISTRICT Rocky Mountain  
 COUNTY Frank AFE NO. 22846  
 STATE KANSAS

### TYPE OF WORK PLUG AND ABANDON WELL

Date commenced September 22, 19 67 Date completed September 28, 19 67  
 Deepened from \_\_\_\_\_ to \_\_\_\_\_ Total Depth \_\_\_\_\_  
 Plugged back from 4195' to Surface P.B.T.D. \_\_\_\_\_  
 Cleaned out from \_\_\_\_\_ to \_\_\_\_\_  
 Production before Shut Down bbls. oil \_\_\_\_\_ bbls. water \_\_\_\_\_ cu. ft. gas \_\_\_\_\_  
 Production after \_\_\_\_\_ bbls. oil \_\_\_\_\_ Inc. \_\_\_\_\_ bbls. water \_\_\_\_\_ cu. ft. gas \_\_\_\_\_  
 Tools owned by: Ralph Comstock Pipe Pulling, Inc. Kind used: Pulling Unit No. days rig time: \_\_\_\_\_  
 Cost of Job \$ \_\_\_\_\_ 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
			Socks Used	Top Cem't. Bh'd. Cas'g	
Production					
Liner					Top liner;

SIZE	WT.	THDS.	KIND	COND.	LEFT IN				PULLED OUT						
					Jts.	LTM Feet	In.	WTM Feet	In.	Jts.	LTM Feet	WTM Feet	In.		
5-1/2"	177	GR	31 1/2"	D											
"	"	"	"	C							23	546	0	553	0
"	"	"	"	D	37	1325	0	1336	0	3	71	0	70	0	

### PRODUCING FROM

FORMATION \_\_\_\_\_ thru OPEN HOLE PERFORATIONS \_\_\_\_\_ TOP \_\_\_\_\_ BOTTOM \_\_\_\_\_ Total No. Shots \_\_\_\_\_

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

The well was Shut Down October 1, 1961, when it became uneconomical to operate. As 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 September 22, 1967, moved in plugging machine of Ralph Comstock Pipe Pulling, Inc. and plugged the well as follows:

Sand 4195' to 4100'  
 20 sacks of cement 4100' to 3960'

Shot 5 1/2" casing at 3124' and 2979'. Pulled 129 joints (2994') of 5 1/2" casing.

Mud laden fluid 3960' to 300'  
 Rock bridge 300' to 290'  
 25 sacks of cement 290' to 215'  
 Mud laden fluid 215' to 40'  
 Rock 40' to 30'  
 10 sacks of cement 30' to Base of cellar  
 Surface soil Cellar to Surface

Plugged and abandoned September 28, 1967.

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OCT 20 1967

CONSERVATION DIVISION  
Wichita, Kansas

10-20-67