

STATE OF KANSAS  
STATE CORPORATION COMMISSION

WELL PLUGGING RECORD

OR

FORMATION PLUGGING RECORD

Strike out upper line  
when reporting plug-  
ging off formations.

Give All Information Completely  
Make Required Affidavit  
Mail or Deliver Report to:  
Conservation Division  
State Corporation Commission  
800 Blitt Building  
Wichita, Kansas

Pratt

County, Sec. 7 Twp. 28 Rge. (E) 11(W)

Location as "NE $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ " or footage from lines Cen. SE $\frac{1}{4}$

Lease Owner Skelly Oil Company

Lease Name F. A. Gilchrist Well No. 1

Office Address Box 391, Hutchinson, Kansas

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

Date well completed December 21 19 35

Application for plugging filed May 18 19 43

Application for plugging approved May 19 19 43

Plugging commenced May 26 19 43

Plugging completed May 26 19 43

Reason for abandonment of well or producing formation Depletion of gas prod-  
uction in Viola Lime

If a producing well is abandoned, date of last production February 17 19 42

Was permission obtained from the Conservation Division or its agents before plugging was com-  
menced? Yes

Name of Conservation Agent who supervised plugging of this well Ruel Durkee

Producing formation Viola Lime Depth to top 4227' Bottom 4244 $\frac{1}{2}$ ' Total Depth of Well 4239 $\frac{1}{2}$ ' 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
Lansing Lime	Dry	3595'		12-1/2" ID	352' 4"	None
Mississippi Lime	Dry	4020'	4110'	8-5/8" OD	3632' 1"	2195' 7"
Viola Lime	Gas	4227'	4244 $\frac{1}{2}$ '	7" OD	4251' 7"	3842' 0"
Simpson	Dry	4325'				
Wilcox Sand	5 bbl. wtr. hr.	4340'	4343'			
Siliceous Lime	10 " "	4431	4435'			

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 hold. If cement or other plugs were used, state the character of same and depth placed, from.....feet to.....feet for each plug set.

Cemented back on January 13, 1936 from 4435' to 4244 $\frac{1}{2}$ '

Cemented back on November 4, 1941 from 4244 $\frac{1}{2}$ ' to 4239 $\frac{1}{2}$ '

May 26, 1943, cemented back with 25 sacks of cement from 4239 $\frac{1}{2}$ ' to 4209'

Lane-Wells bridging plug on top of mud laden fluid 4209' to 3450'

Mud laden fluid 3450' to 3300'

Lane-Wells bridging plug with 10 sacks of cement 3300' to 3280'

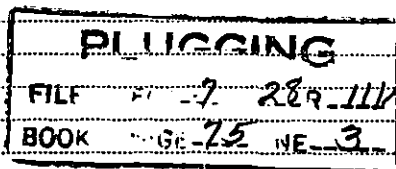
Mud laden fluid 3280' to 347'

Cemented back with 20 sacks of cement from 347' to 327'

Mud laden fluid 327' to 16'

Filled hole with 10 sacks of cement from 16' to 9'

Filled cellar with surface soil and rock 9' to 0'



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

Correspondence regarding this well should be addressed to Skelly Oil Company  
Address Box 391, Hutchinson, Kansas

STATE OF KANSAS, COUNTY OF RENO, ss.

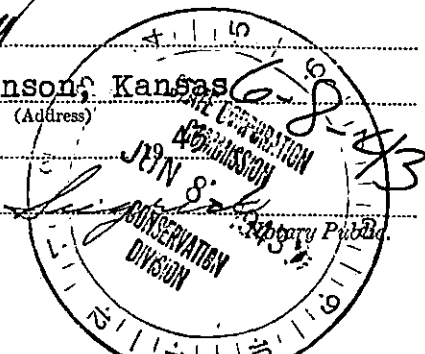
H. E. Wamsley (employee of owner) of the above-described well,  
being first duly sworn on oath, says: That I have knowledge of the facts, statements, and matters herein contained and the log of the above-described well as filed and that the same are true and correct. So help me God.

(Signature)

Box 391, Hutchinson, Kansas (Address)

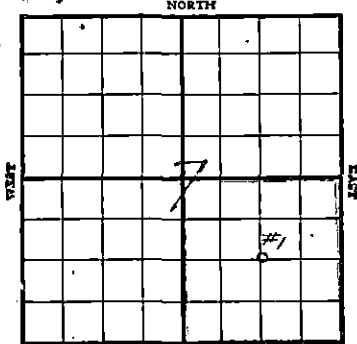
SUBSCRIBED AND SWORN to before me this 7th day of June

My commission expires August 4, 1945.



# SKELLY OIL COMPANY

## Well Record



Lease Name and No. F. A. Gilchrist #7505 Well No. 1 Elev. 1793' DF  
 Lease Description SE/4 Section 7-28S-11W (A portion of a unitized block) Pratt County, Kansas.

Location made July 15th, 35 By Gould Randolph  
1320 feet from North line 1320 feet from East line } of Sec. 7-28S-11W  
1320 feet from South line 1320 feet from West line } Pratt Co., Kans.

Rig com'd Aug. 29th, 35 Rig comp'd Sept. 2nd, 35 Drig. com'd Sept. 7th, 35 Drig. comp'd Dec. 21st, 35  
Mahan, McCarty and Besse, Inc., Tulsa, Oklahoma.  
 Rig Contractor Olson Drilling Company, Tulsa, Oklahoma.

Rotary Drilling from 0 to 3605' Cable Tool Drilling from 3605' to 4435'

Commenced Producing 19 Initial Prod. before shot or acid \_\_\_\_\_ Bbls.  
 Initial Prod. after shot or acid 16,386,000 after acid treatment Bbls.

Dry Gas Well Pressure 1020 Volume \_\_\_\_\_ Cu. ft.

Casing Head Gas Pressure \_\_\_\_\_ Volume \_\_\_\_\_ Cu. ft.

Braden Head (12 1/2" x 8-5/8" OD) Gas Pressure \_\_\_\_\_ Volume \_\_\_\_\_ Cu. ft.

Braden Head \_\_\_\_\_ Gas Pressure \_\_\_\_\_ Volume \_\_\_\_\_ Cu. ft.

PRODUCING FORMATION VIOLA LIMESTONE (Name) Top 4227' Bottom 4244 1/2' TOTAL DEPTH 4455' to 4244 1/2'

### CASING RECORD

Size	Wt.	Thds.	Where Set	PULLED OUT			LEFT IN			KIND	Cond'n	CEMENTING	
				Jts.	Feet	In.	Jts.	Feet	In.			Sacks Used	Method Employed
12 1/2"	50 1/2	8	347'				16	352'	4"	Lapweld	C	300	HALLIBURTON PROCESS
8 1/2" (8-5/8" OD)	32 1/2	8	3602'				127	3632'	1"	SEAMLESS	A	500	" "
7" OD	24 1/2	10	4227'				141	4251'	7"	"	A	75	" "

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

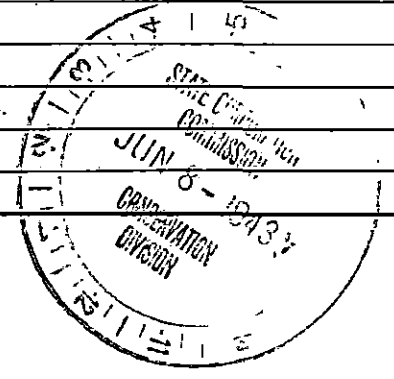
Date	FIRST <del>Shot</del> <sup>First Acid</sup>		SECOND <del>Shot</del> <sup>Second Acid</sup>		THIRD	FOURTH
	Gals. Qts.	Gals. Qts.	Gals. Qts.	Gals. Qts.		
1/4/36	40		2000			
			Dowell "X"			
Shot Between	4234 Ft. and 4244 1/2 Ft.					
Size of Shell	5" x 9"					
Put in by (Co.)	Ind. Torpedo Co.		Dowell, Inc.			
Length anchor	None					
Distance below Cas'g	7'					
Damage to Casing or Casing Shoulder	NONE					

**PLUGGING**  
 FILE # 7-28R4W  
 BOOK PAGE 75 LINE 3

### SIGNIFICANT GEOLOGICAL FORMATIONS

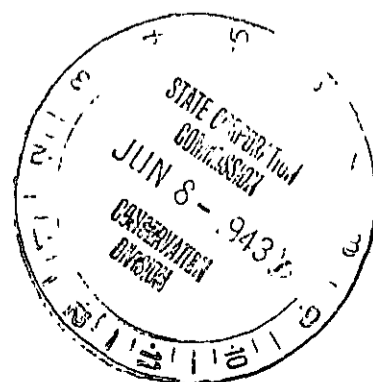
NAME	Top	Bottom	GAS		OIL		REMARKS
			From	To	From	To	
Lansing	3595'						See body of log for details
Mississippi Lime	4020'	4110'					
Viola Lime	4227'	4325'					
Simpson Sand	4325'						
Wilcox sand	4340'						

(See Sheet No. 2 for Formation Record)



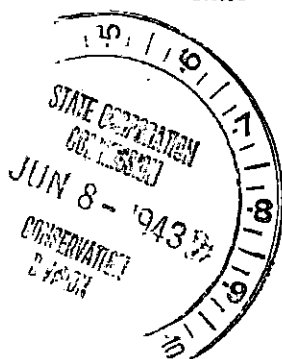
## RECORD OF FORMATIONS

FORMATION	TOP	BOTTOM	REMARKS
			Indicate Casing Points, Describe Shows of Oil, Gas and Water, etc.
Sand	0	170	
Red shale	170	347	
Lime shells	347	348	
Red shale	348	352	Set and cemented 12 $\frac{1}{2}$ " casing at 347' w/ 300 sacks cement
Shale	350	397	
Shale and shells	397	544	
Red shale	544	576	
Green shale	576	642	
Shale	642	771	
Blue shale	771	1019	
Shale	1019	1164	
Blue shale	1164	1310	
Blue shale and lime shells	1310	1499	
Broken lime	1499	1641	
Anhydrite	1641	1755	
Gray lime, hard	1755	1789	
Lime	1789	1809	
Red rock	1809	1840	
Shale and lime	1840	1965	
Sandy lime	1965	1991	
Hard lime	1991	2040	
Gray shale	2040	2046	
Hard lime	2046	2095	
Shale	2095	2108	
Red bed	2108	2123	
Shale and shells	2123	2141	
Lime and shale	2141	2188	
Lime	2188	2198	
Broken lime	2198	2605	
Lime	2605	2651	
Shale and slate	2651	2704	
Shale	2704	2764	
Lime	2764	2782	
Hard lime	2782	2792	
Broken lime	2792	2847	
Lime	2847	2862	
Shale	2862	2865	
Broken lime	2865	2875	
Lime	2875	2918	
SLM correction	2918	2916	
Dark lime	2916	2924	
White lime	2924	2941	
Lime	2941	2946	
White sand	2946	2954	
Lime	2954	3100	
Soft white lime	3100	3125	
Lime	3125	3160	
Broken shale	3160	3195	
Grey lime	3195	3304	
Hard lime	3304	3333	
Lime and shale	3333	3338	
Shale	3338	3398	
Lime	3398	3408	
Broken lime	3408	3458	
Broken shale and sand	3458	3516	
Broken sand and shale	3516	3565	
<u>Cored 3565' - 3569' Recovered 1'</u>			
Recovery all dark blue shale			
<u>Cored 3569' - 3575' Recovered 6'</u>			
Top 2' - Dark green shale			
Bottom 4' - Dense shelly lime			
<u>Cored 3575' - 3587<math>\frac{1}{2}</math>' Recovered 6'</u>			
Top 3' - dark green shale			
Bottom 3' - red shale			
Red and grey shale	3587 $\frac{1}{2}$	3591	SLM
<u>Cored 3591' - 3605' Recovered 10<math>\frac{1}{2}</math>'</u>			
Top 4' - Grey shelly lime and shale			
Bottom 6 $\frac{1}{2}$ ' - Brown crystalline lime - No porosity			
TOP LANSING LIME		3595 $\frac{1}{2}$	



Reamed core hole and ran, set and cemented 8½" casing at 3602' w/ 500 sacks cement. Finished cementing at 9:30 PM 10-9-35, and while shut down waiting on cement to set, moved in cable tool front and standardized rig. This work was completed, cable tools rigged up and commenced bailing down hole October 17th, 1935. Cement job and casing tested OK and drilled ahead as follows:

Lime, medium hard dark grey and brown	3605	3609	No saturation or porosity
Lime, dark brown w/ trace of shale	3609	3616	No shows
Lime, brown w/ a little grey lime and 25% shale	3616	3620	
Lime, medium soft brown	3620	3626	Porous - No shows
Same	3626	3630	No shows
Lime, hard grey w/ little chert	3630	3635	No shows
Lime, medium soft brown w/ little shale	3635	3640	No saturation or porosity
Lime, fine hard grey	3640	3645	No saturation or porosity
Lime, soft grey porous w/ 30% shale	3645	3652	No shows
Lime, dark grey	3652	3655	
Lime, dark grey w/ little chert	3655	3662	Showed 8 gallons water per hour
Lime, dark grey w/ little dark green shale	3662	3670	
Same	3670	3680	
Lime, dark grey w/ little dark shale	3680	3689	
Lime, dark grey w/ 50% dark shale	3689	3695	
Lime, dark grey	3695	3700	
Same	3700	3722	
Lime, light fine grey	3722	3727	Showed 2 barrels water per hour
Lime, grey	3727	3744	
Lime, dark grey	3744	3753	
Lime, light grey w/ little green shale	3753	3760	Increase in water - rainbow show of oil
Lime, grey w/ 90% shale	3760	3773	
Shale and lime	3773	3782	
Lime	3782	3786	
Lime, grey	3786	3796	
Lime, grey	3796	3815	Tested 4 bailer water per hour at 3810' HPW from 3851' - 3855' - Hole caving badly. Ran and set 7" OD casing at 3910' SLM.
Lime, grey	3815	3910	
SLM	3910	3917	
Shale and lime	3917	3918	
Shale	3918	3920	
SLM	3920	3927	
Shale	3927	3932	
Lime	3932	3955	
Black Shale	3955	3965	
Lime	3965	3967	
Variegated shale	3967	3973	
Shale	3973	4020	TOP MISSISSIPPI LIME 4020'
Cherty lime	4020	4038	
Lime, sharp	4038	4058	
Chat and lime	4058	4100	
Lime and shale	4100	4110	BASE MISSISSIPPILIME 4110'
Shale	4110	4220	
Lime, hard grey crystalline	4220	4222	Slight porosity and show of gas
SLM	4222	4229	TOP VIOLA LIME 4227' SLM Gas tested 196,000 cubic feet Killed well with water and commenced UR 7" to lower from 3917'. UR and lowered 7" to 4227' bailed hole down and casing did not shut off water. Reloaded hole with water picked up 7" and tried to ream a new shoulder but was unable to do so. Tried to circulate around 7" casing but could not do so account of pipe being froze. The hole was then bailed down and casing loosened, after which the hole



was cleaned out to bottom and the 7" casing set and cemented at 4227' with 75 sacks cement. Finished cementing at 2:00 PM 12/1/35 and shut down waiting on cement to set. The hole was deepened one foot while UR the 7" making the total depth 4230' CM.

(During shut down time tests were made of this hole with Geophone, this work being authorized by Tulsa office)

On December 6th, 1935 drilled cement to 4227', bailed hole dry and ran steel line, 4230' CM corrected to 4233' SLM. Casing and cement job tested OK and after bailing hole clean, gas gauged 469,000 cubic feet. Drilled ahead as follows:

Lime, grey and brown crystalline w/ trace sand	4233	4238	Stained and porous - Gas increased to 1,394M cubic feet.
Lime, dark grey crystalline and cherty lime w/ trace of sand	4238	4241	Gas increased to 1,560M cubic feet
Lime, dark grey cherty lime	4241	4246 $\frac{1}{2}$	No increase in gas
Lime, dark grey	4246 $\frac{1}{2}$	4252	No increase in gas
Lime, dark grey and brown w/ little chert	4252	4254	
Lime, hard grey	4254	4255	
Lime, soft grey w/ 50% crystalline dolomite	4255	4259	
Lime, brown and grey	4259	4280	
Lime, brown and grey	4280	4315	Gasoline content of gas from Viola tested .36 GPM
Lime, light grey	4315	4320	
Lime, light grey w/ 40% green shale	4320	4327	BASE VIOLA LIME 4325' - TOP SIMPSON 4325'
Shale, green	4327	4339	
No sample, 1st 1 ft. soft, next 1 $\frac{1}{2}$ ' hard, last 1/2' soft	4339	4342	Gas increased to estimated 2,000,000 cubic feet and started to spray a little oil. TOP WILCOX SAND 4340'. Well was shut in 7 hours - Opened well to straight ream hole and well flowed a few barrels of oil and then started to flow salt water, approx. 5 barrels per hour with a little cut oil. Cable measurement showed hole to be 4343' instead of 4342'. Drilled ahead as follows:
Sand, light rounded w/ 50% dark green shale	4343	4348	
Sand, light w/ little brown sand and 75% dark green shale	4348	4351	
No sample, hole caving	4351	4354	
Sand, light and green shale	4354	4377	
Sand, light w/ little brown sand and green shale	4377	4400	
Shale, green w/ little pyrites and sand	4400	4405	
Shale, green w/ little pyrites	4405	4415	
Shale, very green w/ little pyrites	4415	4421	
Shale, green w/ little pyrites and sand	4421	4427	
Shale, dark green	4427	4430	TOP SILICEOUS LIME 4430'
Lime, grey dense crystalline	4430	4431	
Lime, brown crystalline	4431	4432	Shown trace of sulphide water
Lime, dense cherty	4432	4434	Water increased to 10 barrels per hour
Lime (No samples-ble caving)	4434	4435	
TOTAL DEPTH		4435'	

It was decided to plug off the bottom hole water at this time and plug back to the Viola Lime gas, shoot that formation with glycerin and then acidize and try complete the well as a commercial gas producer from that horizon.

The well was again killed with water on December 29th, and 2" tubing ran to cement hole back. The hole had filled with cavings to 4411', then cemented from 4411' to 4340'. Filled hole with crushed limestone rock to 4275', and from 4275' to 4265' with lead wool. On January 6th bailed hole down and test showed water not completely shut off. Continued plugging back with lead wool to 4252' at which depth tools were lost in the hole. The tools were fished out the following day and at this time gas gauged 1,210 M cubic feet, and the hole still showing a small amount of water. Lead wool was put in and the hole plugged back to 4244 $\frac{1}{2}$ ' and the hole loaded with water preparatory to shoot Viola lime.

On January 14th the well was shot with 40 quarts of nitro-glycerin in 5" x 9 $\frac{1}{2}$ " shell between 4244 $\frac{1}{2}$ ' and 4234'. The shot was tamped with 200' of sand and used Zero Hour Bomb. The bomb exploded at 10:15 PM 1/14/36, and the following day ran in sand pump to clean out after shot and in doing so, lost sand pump in the hole. The sand pump was fished out on January 17th, and continued cleaning out until January 20th. After cleaning out to 4236', started to bail down hole, bailed one hour and well cleaned itself. Cleaned out to 4244 $\frac{1}{2}$ ', total depth, and gas gauged 2,070M cubic feet and well spaying small amount of salt water when opened. The well was left open 24 hours and at the end of that time was still showing the fine spray of water with a scum of oil.

On January 23rd ran and set 2" tubing at 4243 $\frac{1}{2}$ ' with the bottom 15' perforated, and on that date treated well with 2000 gallons of Dowell "X" acid solution as follows:

ACID TREATMENT NO. 1

Treatment put in by Dowell, Incorporated.

Time	1200# CP	1200# TP	
1:50 PM			Started treatment - Pumped in 15 barrels of oil, 5 gallons of brine seal, 10 gallons of blanket and started acid in hole.
1:55 "	1300# CP	0	
2:00 "	1300# "	0	1.8 barrels acid in hole
2:10 "	1300# "	0	7 barrels acid in hole
2:20 "	1360# "	15" Vacuum	16 barrels acid in hole
2:30 "	1365# "	15" "	24 barrels acid in hole
2:40 "	1380# "	15" "	36 barrels acid in hole
			Shut down from 2:40 PM to 3:10 PM for acid to act
3:15 "	1365#	15" "	41 barrels acid in hole
3:25 "	1360#	15" "	48 barrels acid in hole - 2000 gallons acid in hole - Started flushing
3:30 "	1360#	12" "	Started oil in hole
3:35 "	1355#	12" "	Had 8 barrels oil in hole
3:40 "	1355#	12" "	Had 12 barrels oil in hole
3:45 "	1355#	100# TP	Had 14 barrels oil in hole
3:50 "	1355#	100# "	Had 19 barrels oil in hole - Started pump
3:55 "	1350#	100# "	Had 21 $\frac{1}{2}$ barrels oil in hole - Shut in for acid to act - Finished treatment at 3:55 PM January 23rd, 1936.

Pulled tubing on January 24th, and on January 25th, gas gauged 14,941,000 cubic feet. On January 25th commenced tearing down cable tools and rotary drilling derrick. Since that time the well has been shut in with the exception of during test made by The Kansas Power and Light Company, analysis of this test follows:

Date taken - 2-11-36

Taken by - J. F. Redmond

Sample analyzed - 2-12-36

Combustion Analysis:

	By Volume
Methane	72.69 %
Ethane	17.67 %
Carbon Dioxide	.22 %
Oxygen	.00 %
Residue	9.42 %
Total	100.00
Hydrogen Sulphide	None

Heating value per cubic foot of gas at 60 degrees Fahrenheit and 30 inches of Mercury:

Gross (Dry)	1048 BTU
Gross (Wet-Saturated H <sub>2</sub> O)	1029 BTU

Gas gauged at time of this test, 16,386,000 cubic feet through 7" casing - Pressure after open flow, 1 minute 200#, 5 minutes 560#, 10 minutes 850# and 15 minutes 1020#

SLOPE TEST DATA

<u>Depth</u>	<u>Angle of Deflection</u>	
250'	0	Degrees
500'	0	"
750'	0	"
1000'	1	"
1250'	0	"
1500'	0	"
1750'	1	"
2000'	0	"
2215'	1	"
2500'	1/2	"
2750'	0	"
3000'	0	"
3250'	0	"
3500'	0	"