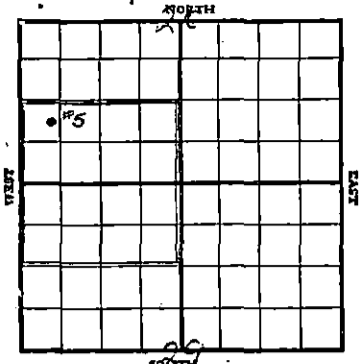


SKELLY OIL COMPANY

Well Record



Lease Name and No. Wendol Leiseman #7820 Well No. 5 Elev. 1695' DP
 Lease Description S/2, E/4, Sec. 20 and E/2, NW/4, Sec. 29-27S-10W
Kingman County, Kansas

Location made October 2nd, 1934 By Paul Confer
530' feet from North line feet from East line } of Lease
 feet from South line 440' feet from West line }

Rig com'd Oct. 6th, 1934 Rig comp'd Oct. 16th, 1934 Drlg. com'd Oct. 21st, 1934 Drlg. comp'd Jan. 12th, 1935
 Rig Contractor Haber, McCarry and Sasse, Inc.
 Drilling Contractor Southern and Thurmond

Rotary Drilling from 0 to 3405' Cable Tool Drilling from 3405' to 3439'

Commenced Producing Dec. 9th, 1934 { Initial Prod. before shot or acid 15 Bbls.
 Initial Prod. after shot or acid 91 Bbls.

Dry Gas Well Pressure Volume Cu. ft.

Casing Head Gas Pressure Volume 1,240,000 Cu. ft.

Braden Head (12" x 7" OD) Gas Pressure Volume Cu. ft.

Braden Head () Gas Pressure Volume Cu. ft.

PRODUCING FORMATION LANSING LIME (Name) Top 3399' Bottom 3486' TOTAL DEPTH 3486'
 Plugged back from 3439'

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" ID	50#	8	321'				16	308'	7"	Lapweld	C	300	Halliburton
7" OD	24#	10	3400'				112	3435'	6"	Seamless (threads on)	A	500	"

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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	<u>12/13/34</u>		<u>1/18/35</u>					
Acid Used	<u>35% ACID</u>		<u>DOWELL "X"</u>					
Size Shot	<u> </u>		<u> </u>					
Shot Between	<u>Ft. and</u>	<u>Ft.</u>	<u>Ft. and</u>	<u>Ft.</u>	<u>Ft. and</u>	<u>Ft.</u>	<u>Ft. and</u>	<u>Ft.</u>
Size of Shell								
Put in by (Co.)	<u>Morgan Pet. Eng. Co.-Dowell, Inc.</u>							
Length anchor								
Distance below Cas'g								
Damage to Casing or Casing Shoulder								

SIGNIFICANT GEOLOGICAL FORMATIONS

NAME	Top	Bottom	GAS		OIL		REMARKS
			From	To	From	To	
LANSING LIME	3399	3486	3405	3492	3408	3416	Gas gauged 1,240,000 cu. ft.
					3436	3440	
					3446	3452	
					3452	3458	

RECORD OF FORMATIONS

FORMATION	TOP	BOTTOM	REMARKS Indicate Casing Points, Describe Shows of Oil, Gas and Water, etc.
Surface soil and sand	0	90	
Red bed	90	130	
Red bed	130	220	
Sand and shells	220	270	
Shale and shells	270	310	
Sand and shells	310	325	Set and cemented 12 1/2" casing at 321' w/ 300 sacks cement.
Shale and shells	325	780	
Shale and lime shells	780	1010	
Salt	1010	1115	
Salt and gyp shells	1115	1295	
Shale and shells	1295	1375	
Lime	1375	1430	
Shale and lime shells	1430	1485	
Lime	1485	1580	
Lime (Sandy)	1580	1620	
Lime	1620	1670	
Lime (Sandy)	1670	1725	
Lime	1725	1940	
Lime (Broken)	1940	2005	
Lime	2005	2105	
Shale and lime shells	2105	2160	
Lime	2160	2240	
Shale and lime shells	2240	2285	
Lime	2285	2480	
Shale and shells	2480	2520	
Lime	2520	2735	
Shale and shells	2735	2820	
Lime and shale	2820	2875	

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Drill pipe stuck 60' off bottom - ED 2875' circulated oil from November 7th, to 11th, trying to loosen, this procedure was not effective. On November 12th, ran in 1018 gallons acid and circulated same until November 14th, when 90 bbls. more oil was run in and circulated until November 15th, then unscrewed the drill pipe at 2450' and started cleaning out and washing down around 360' left in the hole. November 19th, the hole was washed clean to bottom around the pipe and on this date went in with overshot took hold and fished out remainder of drill pipe left in. On November 20th, commenced drilling ahead.

Lime	2875	2915
Shale (Sandy)	2915	2940
Lime	2940	3285
Lime (Broken)	3285	3310
Lime and shale	3310	3340
Lime	3351	3397

Correction by SLH from 3340' to 3351'

Cored 3387' - 3405' - Recovered 6'

Top 1 1/2' - Hard dense gray and brown shelly lime w/ little shale
 Next 2 1/2' - Hard gray and brown shelly lime w/ 4" dark shale
 Last 2' - Hard gray and brown lime - Slight saturation and porosity
 TOP LANSING LIME - 3399'

Lime, dark brown porous w/ little gray lime	3405	3408	Set and cemented 7" O. D. Casing at 3400' w/ 500 sacks cement.
Lime, medium dark brown	3408	3416	Gas tested 200,000 w/ a trace of oil Good porosity-Gas increased to 275,000 cu. ft. w/ 25' oil in hole.
Lime, medium hard gray w/ little brown lime and shale	3416	3421	No saturation or porosity - hole filled up 700' w/ oil in four hours.
Lime, medium soft dark brown	3421	3430	Porous and saturated - gas increased to 326,000 cu. ft. and oil 2,200' in hole in seven hours.
Lime, medium hard gray w/ little brown lime and shale	3430	3433 1/2	No saturation or porosity - 3000' oil in hole in eleven hours.

Form 305-3

Lime, dark gray w/ 40% shale	3433 ¹	3436	No saturation or porosity - No gas increase.
Lime, medium soft brown and gray w/ little shale	3436	3440	Little saturation and porosity - No gas increase - Fine spray of oil after pulling bailer.
Lime, medium soft gray and brown w/ little shale	3440	3446	No saturation or porosity - No gas increase.
Lime, medium hard gray and brown w/ little shale	3446	3452	Little porosity no saturation - gas increased to 400,000 cu. ft. Well made small flow while bailing.
Lime, medium soft brown and gray	3452	3458	Little porosity no saturation - Gas increased to 790,000 cu. ft.
Lime, dark gray w/ 25% shale	3458	3462	No saturation or porosity - No gas increase.
Lime, Medium soft brown and gray w/ little chert and 40% dark gray shale	3462	3466	No oil increase - Gas tested 1,040,000 cu. ft.
Lime, dark gray w/ little chert and dark gray shale	3466	3468	No saturation or porosity - No increases.
Lime, dark gray and brown w/ little dark gray shale	3468	3470	No saturation or porosity - No increases.
Lime, dark gray and brown w/ 40% dark gray shale	3470	3474	No saturation or porosity - No increases.
Lime, medium hard brown and gray w/ 20% dark gray shale	3474	3476	No saturation or porosity - No increases.

TOTAL DEPTH-----3476'

December 15th, 1934, ran tubing and treated well w/ 1000 gallons of 55% acid solution as follows:

ACID TREATMENT: BY MORGAN PETROLEUM ENGINEERING COMPANY

Started treatment at 10:30 AM 12/15/34

CP 880¹ TP 250¹ - Bled well down till CP was 0¹

Pumped in 35 bbls. of oil and CP built up to 800¹

Pumped in 92.50 bbls. oil - CP 800¹ TP 0¹

Pumped in 7¹/₂ gallons blanket

Pumped in 1000 gallons 55% acid - CP 200¹ Tbg 27" Vacuum

Pumped in 20 bbls. oil - CP 80¹ Tbg. 5" Vacuum

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December 16th, the well flowed 50 bbls. oil with no water through casing in 12 hours with gas testing 497,000 cu. ft. and after this period was shut in until December 18th. On this date started potential test at 10:20 AM and in twenty four hours open through casing the well flowed 91 bbls. oil and gas testing 649,000 cu. ft. The following twenty one days the well flowed through casing averaging thirty three BPD with gas gauging 5201 cu. ft. on January 10th. On January 10th, started pulling tubing preparatory to drilling deeper, but due to a high wind blowing and the well spraying oil, this job was not completed until January 11th, when tools were strung up. On January 12th, commenced deepening as follows:

Lime, brown and gray w/ 20% dark gray shale	3476	3482	No saturation - Gas gauged 12401 cubic ft.
No sample - Unable to pull tools account of high wind	3482	3487	No increase gas or oil
Lime, hard gray with little shale	3487	3489	Showed 1/2 bailer water per hour
Plugged back w/ lead wool	3489	3486	SHH - All water shut off

TOTAL DEPTH-----3486'

January 17th, 2" tubing was run in and the well treated w/ 1000 gallons Dowell "X" acid on January 18th, as is shown below:

ACID TREATMENT: By Dowell, Inc.

Started treatment at 2:45 PM January 18th, 1935.

(See Page No. 3)

ACID TREATMENT No. 2 Cont'd

Time

2:45 AM Started pumping in oil - CP 350# TP 300#

3:00 " Ran in 15 bbls. oil - 150# CP Tbg. 0

3:15 " Ran in 50 " " - CP 0 Tbg. 0

3:15 " Started running in blanket and filler - CP 0 Tbg. 15" Vacuum

4:00 " Ran in 35 gals. blanket and 30 gals. filler - CP 100# Tbg. 30" Vacuum

4:15 " Ran in 70 gals. blanket and 60 gals. filler - CP 100# Tbg. 26" Vacuum

4:20 " Started pumping in oil - CP 80# Tbg. 26" Vacuum

4:40 " Ran in 30 bbls. oil - CP 60# Tbg. 26" Vacuum

5:00 " Ran in 55 " " - CP 0 Tbg. 20" Vacuum

6:55 " Ran in 145 " " - CP 0 Tbg. 20" Vacuum

7:57 " Started running in acid - Casing 8" Vacuum Tbg. 25" Vacuum

8:05 " Ran in 500 gals. Dowell "X" acid - Csg. 8" Vacuum Tbg. 25" Vacuum

8:13 " Ran in 1000 " " " " - Csg. 12" " " 28" "

8:45 " Started pumping in oil - Csg. 12" Vacuum Tbg. 24" Vacuum

9:05 " Ran in 45 bbls. oil - Csg. 12" Vacuum Tbg. 24" Vacuum

9:20 " Ran in 60 " " - Csg. 12" Vacuum Tbg. 20" Vacuum

9:38 " Ran in 92½ " " - Csg. 12" Vacuum Tbg. 20" Vacuum

Used 1000 gals. Dowell "X" acid and 267½ bbls oil during treatment

Finished treatment at 9:38 AM January 18th, 1935.

The well was shut in until January 21st, and the first 19 hours, ending 7:00 AM January 22nd, produced 150 bbls. oil. First 24 hours after being opened, flowed 177½ barrels.

During the deepening of this well between 5476'-5492' gas increased from 648,000 cubic feet, at time of Potential test, to 1,240,000 cubic feet. Analysis of this gas showed it containing 19 grains hydrogen sulphide per 100 cubic feet. Due to this hydrogen sulphide content, the plant is laying separate gathering line in order to handle this gas so as not to mix it with the sweet gas from the other properties going into the plant.

SLOPE TEST DATA

<u>Depth</u>	<u>Angle of Deflection</u>
250'	1/2 Degree
500'	1 "
750'	1½ "
1000'	1½ "
1250'	2 "
1500'	1/2 "
1750'	2 "
2000'	1/2 "
2250'	1 "
2500'	1½ "
2750'	1 "
3000'	1½ "
3250'	1½ "

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