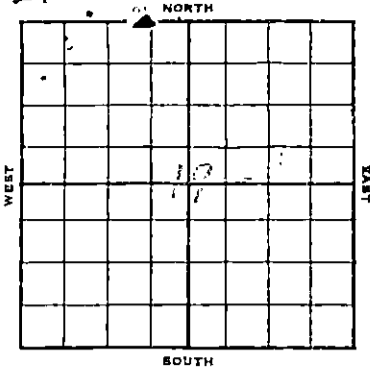


# SKELLY OIL COMPANY

## Well Record



Lease Name and No. Miles "D" (7702) Well No. 1 Elev. 1758' DF  
 Lease Description S/2 NE/4 Sec. 19-27S-10W,  
Kingman County, Kansas, (80 Acres).  
 Location made Feb. 11, 19 39 by Gould Randolph  
1320 feet from North line 1320 feet from East line } of Lease.  
330 feet from South line          feet from West line }

Work com'd Feb. 17, 19 39 Rig com'p'd Feb. 23, 19 39 Drlg. com'd Feb. 25, 19 39 Drlg. com'p'd Mar. 23, 19 39  
 Rig Contractor Mahan, McCarty & Besso, Inc. - Tulsa, Oklahoma.  
 Drilling Contractor Bodine Drilling Co. - Great Bend, Kansas.  
 Rotary Drilling from Top to 3504' Cable Tool Drilling from 3504 to 3538'  
 Commenced Producing Mar. 31, 19 39 { Initial Prod. before shot or acid 1 1/2 gal. oil & 20 gal. wtr. /hour  
 Dry Gas Well Pressure          { Initial Prod. after shot or acid 115.82 (Flowed GL in 8 hours) bbls.  
 Casing Head Gas Pressure          { Established 24-hour calc. potential of 347 bbls. oil Cu. ft.  
 (Test 14 hours after potential, flowed 32 bbls. oil &  
47 bbls. water.) Volume Cu. ft.  
 Braden Head [ 10-3/4" x 7" OD ] Gas Pressure          Volume          Cu. ft.  
 Braden Head [          ] Gas Pressure          Volume          Cu. ft.

PRODUCING FORMATION Lansing Lime Top 3494 Bottom 3504' TOTAL DEPTH 3500'  
 (Name) PB.

### 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
10-3/4" OD	.40	8	387				18	380	5	Lapweld	"A"	200	Halliburton
7" OD	.20	10	3490				114	3513	8	Elec. Weld	"A"	400	"

The 10-3/4" casing is 11' in cellar, and the 7" is cased to derrick floor.

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

	TRST	SECOND	THIRD	FOURTH
Date	<u>Mar. 30, 1939</u>			
Acid Used				
Size Shot	<u>3750</u> Gals.			
Shot Between	<u>3490</u> Ft. and <u>3500</u> Ft.			
Size of Shell				
Put in by (Co.)	<u>Morgan Co.</u>			
Length anchor	<u>Dowell "X"</u>			
Distance below Cas'g				
Damage to Casing or Casing Shoulder	<u>None</u>			

### SIGNIFICANT GEOLOGICAL FORMATIONS

NAME	Top	Bottom	GAS		OIL		REMARKS
			From	To	From	To	
<u>Lansing lime</u>	<u>3483</u>				<u>3494</u>	<u>3504</u>	<u>Main body pay formation. Drilled to 3538' w/ no change in gas or oil, but w/ increase in water 3531-3538'. Plugged back to 3500'.</u>

### CLEANING OUT RECORDS

	Date Commenced	Date Completed	Prod. Before	Prod. After	Remarks
1st					See Reverse for other details
2nd					" " " " "
3rd					" " " " "
4th					" " " " "
5th					" " " " "

### 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						" " " " "

9-14-46

## RECORD OF FORMATIONS

FORMATION	TOP	BOTTOM	REMARKS
			Indicate Casing Points, Describe Shows of Oil, Gas and Water, Etc.
Surface soil & sand	0	180	
Red bed & shells	180	550	Drilled to 411' and set and cemented 10-3/4" OD. casing at 387' w/ 200 sacks - Halliburton process.
Red bed, shale & shells	550	765	
Red bed & shale	765	840	
Gray shale	840	1020	
Salt	1020	1220	
Lime	1220	1270	
Shale & shells	1270	1400	
Lime	1400	1420	
Shale & shells	1420	1540	
Anhydrite	1540	1600	
Lime & shale	1600	1620	
Lime	1620	1670	
Lime & shale	1670	1720	
Lime	1720	1740	
Gray shale & shells	1740	1890	
Lime	1890	1915	
Shale & shells	1915	1940	
Shale	1940	1960	
Lime	1960	2030	
Blue shale	2030	2060	
Lime	2060	2170	
Shale & shells	2170	2190	
Lime	2190	2270	
Shale	2270	2280	
Lime	2280	2340	
Shale	2340	2345	
Lime	2345	2375	
Gray & black shale	2375	2450	
Lime	2450	2500	
Shale & shells	2500	2595	
Broken lime	2595	2940	
Gray & black shale	2940	2965	
Broken lime	2965	2985	
Lime	2985	3090	
Broken lime	3090	3150	
Lime	3150	3170	
Broken lime	3170	3205	
Lime	3205	3250	
Shale	3250	3270	
Lime	3270	3280	
Broken lime	3280	3315	
Gray & black shale	3315	3370	
Lime	3370	3395	
Broken lime	3395	3420	
Black & gray shale	3420	3490	Top Lansing lime 3483'. Drilled 9-7/8" hole to 3490'.
<u>Cored 3490-3504'. Rec. 14'</u>			
Top	1'		Green nodular shaley lime.
	3'		Dense gray crystalline lime. No porosity or saturation.
	4'		Gray & brown fossiliferous lime. Slight porosity & saturation w/ show of gas.
Btm.	6'		Same w/ med. porosity & saturation.
			Set and cemented 7" OD. casing at 3490' w/ 400 sacks - Halliburton process. Finished cementing 11.00 PM. Mar. 16, 1939. Moved out rotary tools, installed cable tool drilling-in front and rigged up cable tools. Bailed hole down Mar. 19th, drilled cement to 3480' on 20th, and 7" casing tested OK. Then drilled bottom plug at 3490' and cement job tested OK. After drilling cement, cleaned out to bottom then bailed and tested 6 hours, 1 bbl. salt water per hour w/ little free oil.
Hard dark gray cherty lime	3504	3509	No saturation or porosity.
" " " " "	3509	3514	
Hard gray lime	3514	3517	No saturation or porosity.
Hard dark gray & brown lime	3517	3518	" " " "
" " " " "	3518	3522	" " " "
" " " " "	3522	3527	Tested 35 gal. salt water w/ scum free oil per hour.
Med. soft gray & brown lime	3527	3531	No saturation or porosity.
Med. soft light gray lime	3531	3538	Bailed and tested 1 hour, 1-3/4 bbls. water and no oil. Continued testing 8 hours, and tested 3 gal. oil and 2-1/2 bbls. water per hour.
TOTAL DEPTH DRILLED		3538'	
Plugged back w/ cement	3538	3500	Mar. 24, 1939, ran 2" tubing to 3538' and cemented back thru tubing w/ 15 sacks Incor cement. Raised tubing to 3500' and circulated out cement to 3500', then raised tubing to 3000' and shut down for cement to set. On Mar. 28th, pulled tubing and bailed hole down to 3100' and lost bailer in the hole, recovered bailer on 29th, and

finished bailing and cleaning out to top of cement plug at 3500' SIM. Then bailed and tested 8 hours, 1-1/2 gal. oil and 20 gal. water per hour. Mar. 30th, ran tubing to treat w/ acid as follows:

PRESENT TOTAL DEPTH 3500'

Acid Treatment No. 1: Mar. 30, 1939, by Morgan Company, using 3750 gal. Dowell "X" acid solution 3490-3500'.

Time	CP.	TP.	
2.55 PM.	0#	0#	Put 2 gal. blanket on bottom, then filled hole w/ 136 bbls. oil.
3.07	400#	0#	Had 5 3/4 gal. acid in hole.
3.11	750#	675#	" 750 " " " " Then started flush hole w/ oil.
3.24	500#	500#	Had 25 bbls. oil in hole, then swabbed out 50 bbls. oil and acid water, and refilled hole w/ 50 bbls. oil and started more acid in.
5.27	400#	0#	583 gal. acid in hole.
5.43	650#	500#	1000 " " " "
5.46	650#	500#	1400 " " " "
6.00	600#	500#	2400 " " " "
6.07	600#	500#	3000 " " " "
6.22	400#	400#	Flushed hole w/ 35 bbls. oil, then shut well in for 4 hours for acid to act. After treatment, flowed well thru open tubing, 4 bbls. cut oil, w/ gas lift to clean up hole, then shut in.

Mar. 31, 1939, flowed thru pinched tubing 8 hours for potential test, 115.82 bbls. oil, w/ CP 750# - TP 150#, no gauge on gas production as well was produced by gas lift. This test established a 24-hour potential of 347 bbls., which allowed 53 bbls. oil per day for remainder of March and April, 1939.

After potential test, flowed 14 hours thru pinched tubing to test further, 32 bbls. oil and 47 bbls. water.

Slope Test Data

Depth	Angle (In deg.)	Horiz.	Vert.
250'	1/2	2.3'	.0'
500	1/2	2.3	.0
750	1/2	2.3	.0
1000	1/2	2.3	.0
1250	1/2	2.3	.0
1500	1/2	2.3	.0
1750	1/2	2.3	.0
2000	1/2	2.3	.0
2250	1	4.4	.1
2500	1	4.4	.1
2750	1	4.4	.1
3000	1	4.4	.1
3250'	1	4.4	.1
Total deflections		40.4'	.5'

Water Analysis:

Sample, No. C-39-3-14), taken Mar. 21, 1939, by Floyd Kent, of water from Lansing line w/ well at total depth of 3504'. Analysis by F. L. Rice, of Skelly Oil Company laboratories, at El Dorado, Kansas. Reported by E. A. Todd.

	Grains per Gallon	Parts per Million	Percent by Weight
Chlorides expressed as NaCl	12310	210722	21.07
Chlorides expressed as Cl	7467	127820	12.78
Total Solids	14366	246000	24.6
Sulphates expressed as CaSO <sub>4</sub>	21.97	376.1	.0376
Sulphates expressed as SO <sub>4</sub>	15.55	266.2	.0266

19 29 104  
68 28