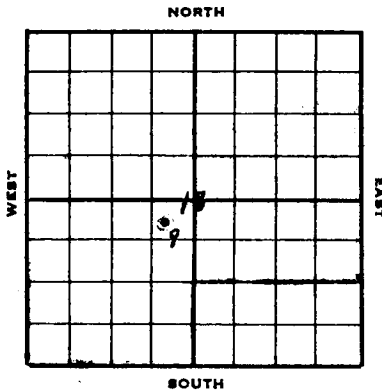


SKELLY OIL COMPANY

Well Record



Lease Name and No. Lillian Loggins Well No. 9 Elev. 2227'
 Lease Description 3/4 and 1/2 1/4 Sec. 18-10-17,
Roake County, Kansas
 Location made 11/11 19 49 by P. J. Mason
330 feet from North line 425 feet from East line 6/4
 feet from South line feet from West line of Sec. 18

Work com'd 11/14 19 49 Rig com'd 11/16 19 49 Drig. com'd 11/16 19 49 Drig. com'd 12/15 19 49
 Rig Contractor Claude Wentworth Drilling Co., Inc.
 Drilling Contractor Claude Wentworth Drilling Co., Inc., Tulsa, Oklahoma
 Rotary Drilling from TOP to 4282' Cable Tool Drilling from To complete to
 Commenced Input ~~XXXXX~~ 19 50 { Initial Prod. before shot or acid _____ Bbls.
 Initial Input after ~~XXXXX~~ acid 150 bbls. wfp. by 27. Bbls.
in 40 minutes
 Dry Gas Well Press. _____ Volume _____ Cu. ft.
 Casing Head Gas Pressure _____ Volume _____ Cu. ft.
 Braden Head (8-5/8" 251" OD) Gas Pressure _____ Volume _____ Cu. ft.
 Braden Head (_____ Size) Gas Pressure _____ Volume _____ Cu. ft.

Input
~~XXXXXX~~ FORMATION Basal Arbuckle Top 3904' Bottom 4282' TOTAL DEPTH 4282'
 (Name)

CASING RECORD

O.D. 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"	24	08	1635'				68	1646	0	12 L		750	Halliburton
5-1/2"	14	08					42	1575	9	J55 H3			
5-1/2"	13	08					36	1630	0	J55 H3			
5-1/2"	17	08	4074'				21	895	3	J55 H3		300	Halliburton
(5 1/2" OD casing perforated from 3702'-07' with 27 holes, oriented off; 96 holes from 4086'-42'; 132 holes from 3974'-96'; and 3874'-3904' with 181 holes)													
8-5/8" casing set 6' in collar and 3/4" 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

	FIRST	SECOND	THIRD	FOURTH
Date	12/28/49	1/5/50	1/7/50	
Acid Used	750	4000	6000	
Size Shot	3/8"	3/8"	3/8"	
Shot Between	3762 Ft. and 3707 Ft.	4074 Ft. and 4282 Ft.	3874 Ft. and 4042 Ft.	
Size of Shell				
Put in by (Co.)	Halliburton	Halliburton	Halliburton	
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	
Reebnor Shale	3445'						
Toronto Lino	3465'						
Lansing Lino	3485'				3523	3529	light oil stain
Conglomerate	3754'						
Mapoon Shale	3799'						
Arbuckle Lino	3817'				3817	3822	fair por., spotted dead oil stain
					3831	3834	fair por. & dead oil stain

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 Indicate Casing Points, Describe Shows of Oil, Gas and Water, etc.
Surface soil, sand and shale	0	400	
Shale and sand	400	750	
Shale and shells	750	1025	Hole off 6 1/2 degrees at 1000', 4 1/2 degrees at 750', and 1 1/2 degrees at 500', none at 250'. Plugged back with 8 sacks of Cal-seal through drill pipe from 587' to 577' and 125 sacks cement and 3 sacks calcium chloride from 577' to 400'. Finished at 10:00 p.m. 11/17/49.
Plug back	1025	400	
Cement and shale	400	510	
Sand and shale	510	670	
Shale and lime shells	670	855	
Shale and lime	855	915	
Shale and shells	915	1140	
Sand and shells	1140	1625	
Anhydrite	1625	1640	
Shale and shells	1640	1695	
Reamed 7-7/8" hole to 12-1/4"			
Red bed	1695	1740	
Shale and shells	1740	2040	
Shale and lime	2040	2335	
Lime	2335	2610	
Lime and shale	2610	2920	
Lime	2920	2960	
Lime and shale	2960	3065	
Lime	3065	3287	
Shale and lime	3287	3330	
Lime	3330	3523	
Porous lime			
Lime	3523	3529	
Lime	3529	3530	
Lime	3530	3573	
Grey lime	3573	3581	
Lime	3581	3605	
Lime	3605	3625	
Medium hard oolitic and crystalline lime	3625	3634	
Lime	3634	3635	
Lime	3635	3665	
Lime and shale	3665	3703	
Oolitic lime	3703	3706	
Lime and shale	3706	3745	
Chert conglomerate	3745	3800	
Lime	3800	3817	
Buff, fine to medium crystalline dolomite	3817	3822	
Buff, fine to medium dense crystalline dolomite	3822	3831	
Buff, fine to medium crystalline dolomite	3831	3834	
Lime and shale	3834	3900	
Lime	3900	4282	

TOP ANHYDRITE 1625'

Set and cemented 8-5/8" OD, 2 1/2", 8R thd., R-2, Spang. L.S. steel casing at 1635' with 750 sacks of cement and 15 sacks of aquagel.

TOP MEDIUM GRADE 3446'

TOP MEDIUM GRADE 3453'

TOP MEDIUM GRADE 3483'

Slight oil stain

Run Halliburton drill stem test with packer set at 3518', open 30 minutes, recovered 182' water.

Spotted porosity, slight stain
Run Halliburton drill stem test w/ packer set at 3566', open 30 minutes, recovered 20' of drilling mud, no show of oil, SHP-1000'

Slight porosity and stain
Run Halliburton drill stem test w/ packer set at 3610', open 30 minutes, recovered 12' rotary mud, SHP-0'

Fair to good porosity and fair oil saturation

TOP SANDSTONE 3754'

TOP SANDSTONE 3799'

TOP SANDSTONE 3817'

Fair porosity, spotted dead oil stain

No shows

Fair porosity and dead oil stain

On December 15, ran Lane-wells Gamma Ray survey. On December 16, set and cemented 895' of 5 1/2" OD, 170, 8R thd., R-3, J-55, Youngstown S. I. casing (A cond.); 1630' of 5 1/2" OD, 15.5, 8R thd., R-3, J-55, R.S. steel casing (A cond.); and 1576' of 5 1/2" OD, 14, 8R thd., R-3, J-55, seamless steel casing (A cond.) at 4074' with 300 sacks of cement and 6 sacks of aquagel. Finished cementing at 1:00 p.m. 12/16/49.

On December 27, rigged up cable tools and bailed the hole dry, and 5 1/2" casing tested OK. Top of cement plug at 3989'. On this date perforated 5 1/2" casing from 3702' to 3707' with 27 holes by Lane-wells, no shows. On December 28, ran 2" tubing and treated with 750 gallons of Halliburton acid as follows:

ACID TREATMENT NO. 1 - Between 3702' and 3707'

Treatment put in 12/28/49 by Halliburton, using 700 gallons of acid and 36 barrels of oil to fill hole and flush.

TIME	SP	TP	REMARKS
11:10 am			Filled hole with 70 barrels of oil
11:17 am	200	200	680 gallons acid in hole, on bottom
11:25 am	300	500	700 gallons acid in hole
11:32 am	1000	700	720 gallons acid in hole
11:50 am	1000	750	750 gallons acid in hole, start flush
12:20 pm	700	700	10 barrels oil in hole to flush
12:22 pm	650	650	Flushed hole with 16 barrels of oil and treatment complete

Swabbed through 2" tubing 9 hours, 90 barrels of oil and 4 barrels of water and swabbed to bottom. On December 29, swabbed through 2" tubing 3 hours, 23 barrels of water with a trace of oil. Pulled tubing and swabbed through 5 1/2" casing 6 hours, 18 barrels of water and no oil. On December 30, ran 2" tubing and set Halliburton cement retainer at 3670', and cemented off perforations from 3702' to 3707' with 200 sacks of cement (estimated 189 sacks into formation) at 2600 tubing pressure. Pulled tubing and shut down for cement to set.

On January 3, 1950, swabbed hole down to top of cement retainer at 3670' and 5 1/2" casing tested OK. Drilled cement plug and cleaned out to bottom.

WELL DEPTH 4282'

On January 5, ran 2" tubing and treated with 4000 gallons of Halliburton 25% acid as follows:

ACID TREATMENT NO. 2 - Between 4074' and 4282'

Treatment put in 1/5/50 by Halliburton, using 4000 gallons of acid and 47 barrels of oil to fill hole and flush.

TIME	SP	TP	REMARKS
9:00 am	400	300	Filled hole with 30 barrels of water, start acid
9:08 am	200	300	780 gallons acid in hole, on bottom
9:11 am	300	200	1100 gallons acid in hole
9:20 am	0	0	3000 gallons acid in hole
9:25 am	700	700	4000 gallons acid in hole, start flush
9:33 am	700	700	Hole flushed with 17 barrels of water and treatment completed

Pulled 2" tubing and swabbed and bailed hole clean. On January 7, perforated 5 1/2" OD casing by Lane-wells from 4042' to 4026' with 96 holes, 3996' to 3974' with 132 holes, 3904' to 3874' with 181 holes (total 409 holes). Ran 2" tubing with Halliburton Yowell tool and treated through perforations with 6000 gallons of Halliburton 25% acid as follows:

ACID TREATMENT NO. 3 - 3874'-3904', 3974'-96', and 4026'-42'

Treatment put in 1/7/50 by Halliburton, using 6000 gallons of acid and 46 1/2 barrels of water to flush.

TIME	SP	TP	REMARKS
<u>4026'-42'</u>			
4:40 pm			Start acid
4:45 pm		400	acid on bottom
4:48 pm		400	300 gallons acid in hole
4:52 pm		325	700 gallons acid in hole
4:55 pm		325	1350 gallons acid in hole
5:00 pm		325	2000 gallons acid in hole Flushed hole with 15 1/2 barrels water
<u>3794'-3796'</u>			
5:10 pm		400	acid on bottom
5:12 pm		300	700 gallons acid in hole
5:16 pm		300	900 gallons acid in hole
5:19 pm		300	1450 gallons acid in hole
5:22 pm		300	2000 gallons acid in hole Flushed hole with 15 1/2 barrels water
<u>3874'-3904'</u>			
5:55 pm		650	acid on bottom
6:00 pm		300	300 gallons acid in hole
6:05 pm		300	1250 gallons acid in hole
6:10 pm		300	2000 gallons acid in hole Flushed hole with 15 1/2 barrels water

After treatment pulled 2" tubing and swabbed through 5 1/2" casing 4 hours, estimated 35 barrels of water per hour, static fluid level 1420' from top. Bailed and cleaned up hole. Tested for input and well took 150 barrels of water by gravity in 40 minutes, unable to fill hole. Cable tools were moved out at this time and the well completed for use as salt water disposal well.

DEPTH	ANGLE OF DEFLECTION	DEPTH	ANGLE OF DEFLECTION
250'	0 Degrees	2300'	1/2 degrees
1050'	3/4 "	2740'	1/2 "
1750'	0 "	3000'	0 "
		3250'	0 "

WATER ANALYSIS

Panhandle Research Laboratory

Sample Serial No. 4452

Analysis No. 1637

Sample of water from Lillian Scoggins well No. 9, Halliburton drill stem test from 3518' to 3530'.

Date received: 12/16/49

Analysis completed: 12/20/49

	<u>Parts per Million</u>
Total Soluble Solids	209,000
Chlorides as Cl	103,100
Chlorides as NaCl	169,900
Sulfates as SO ₄	1,490
Sulfates as CaSO ₄	2,120

Sample Serial No. 4453

Analysis No. 1685

Sample of water from Lillian Scoggins well No. 9, Halliburton drill stem test from 3566' to 3581'.

Date received: 12/16/49

Analysis completed: 12/20/49

	<u>Parts per Million</u>
Total Soluble Solids	131,200
Chlorides as Cl	70,000
Chlorides as NaCl	115,400
Sulfates as SO ₄	5,170
Sulfates as CaSO ₄	7,320