

SKELLY OIL COMPANY



Well Record
 Lease Name and No. Frederick A. Smith Well No. 1 Elev. 1943'
 Lease Description 3/2 N/2 Section 5-263-13N,
Pratt County, Kansas

Location made July 21, 1948 by Pratt County Engineer
330 feet from North line 330 feet from East line 5/2 N/2
330 feet from South line 330 feet from West line of Sec. 5

Work com'd 7/26 1948 Rig comp'd 7/28 1948 Drlg. com'd 7/28 1948 Drlg. comp'd 8/12 1948

Rig Contractor Claude Wentworth Drilling Co., Inc.,
 Drilling Contractor Claude Wentworth Drilling Co., Inc., Tulsa, Oklahoma

Rotary Drilling from Top to 4025' Cable Tool Drilling from To complete to 4025'

Commenced Producing August 25, 1948 Initial Prod. before shot or acid 2 gal. oil, 3 gal. wtr/hr. Bbls.
 Initial Prod. after shot or acid POP 8 hrs. to estab. 24 Bbls.
457 bbls.

Dry Gas Well Press. _____ Volume _____ Cu. ft.

Casing Head Gas Pressure 3250' Volume _____ Cu. ft.

Braden Head (_____ Size) Gas Pressure _____ Volume _____ Cu. ft.

Braden Head (_____ Size) Gas Pressure _____ Volume 4025' Cu. ft.

PRODUCING FORMATION Lansing Lime (Name) Top 3883' Bottom 3889' TOTAL DEPTH 3896'

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"	28	8R	444'				15	441'		H40 R2 SA A		225	Halliburton
5-1/2"	14	8R	4025'				132	4097'	3	H40 R2 RSW A		200	Halliburton
(8-5/8" casing set 6' in collar and 5 1/2' cased to carrier floor) (5 1/2" casing perforated from 3910'-17' with 49 holes, 3883'-89' with 42 holes and from 3815'-32' with 116 holes)													
Used 1 - 5 1/2" OD Baker Combination 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	<u>8/26/48</u>	<u>9/13/48</u>		
Acid Used	<u>1000</u> Gals.	<u>1500</u> Gals.		
Size Shot	<u>1000</u> Qts.	<u>1500</u> Qts.		
Shot Between	<u>3910</u> Ft. and <u>3917</u> Ft.	<u>3815</u> Ft. and <u>3832</u> Ft.		
Size of Shell				
Put in by (Co.)	<u>Dowell Inc.</u>	<u>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	3733'				3815'	3817'	Stained, spotted sat.
					3823'	3832'	Oil & gas saturated
					3884'	3888'	oil and gas saturated
					3912'	3913'	Fair oil stain, spotted sat.
					3914'	3921'	Spotted sat., oil stained

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)

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JUL 31 1948

CONSERVATION DIVISION
 WICHITA, KANSAS

Rec'd
 7-31-57

RECORD OF FORMATIONS

FORMATION	TOP	BOTTOM	REMARKS
Surface soil and clay	0	200	
Red bed	200	390	
Shale and shells	390	444	
Red bed and shells	444	820	
Anhydrite	820	850	
Shale and shells	850	1230	
Salt and shale	1230	1440	
Shale and shells	1440	1560	
Shale and lime	1560	1810	
Line	1810	2450	
Shale and shale	2450	2550	
Shale	2550	2610	
Shale and lime	2610	2735	
Shale and lime shells	2735	2905	
Shale and shale	2905	3190	
Shale	3190	3390	
Shale and shale	3390	3495	
Line	3495	3595	
Shale and shale	3595	3750	
Line	3750	3815	

FORMATION	TOP	BOTTOM	REMARKS
Line	3815	3817	
Line	3817	3823	
Line	3823	3832	
Line	3832	3884	
Line	3884	3888	
Line	3888	3912	
Line	3912	3913	
Line	3913	3921	

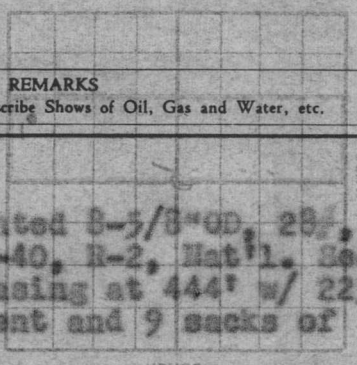
FORMATION	TOP	BOTTOM	REMARKS
Line	3921	3929	
Line	3929	3934	
Line	3934	3935	
Line	3935	3937	
Line	3937	3948	
Line	3948	3957	
Line	3957	3967	
Line	3967	3970	
Line	3970	3991	
Line	3991	3994	
Line	3994	3995	
Line	3995	3998	
Line	3998	4009	
Line	4009	4012	
Line	4012	4018	
Line	4018	4020	

FORMATION	TOP	BOTTOM	REMARKS
Line	4020	4025	
TOTAL DEPTH DRILLED		4025'	

Lane-wells from 3910' to 3917' with 49 holes; small show of oil, tested 2 gallons of oil and 3 gallons of water per hour. On August 26, treated with 1000 gallons of Dowell "X-18" acid as follows:

TIME	OP	REMARKS
11:20 AM		1000 gallons of acid in hole
12:05 PM	300'	Fill hole with 75 barrels of oil
12:25 PM	850'	2 barrels of oil in hole to flush
12:35 PM	900'	7 barrels of oil in hole to flush
12:45 PM	900'	15 barrels of oil in hole to flush
12:57 PM	850'	Flushed hole with 24 barrels of oil and treatment completed

Swabbed out oil used in treating, then flowed 3 hours, 200 barrels of oil and no water, and shut in to install tank battery.



On September 7, swabbed through 5 1/2" casing 8 hours, 162 barrels of oil and 70 barrels of water. On September 8, set Lane-Wells bridging plug at 3900' and perforated 5 1/2" casing by Lane-Wells from 3883' to 3889' with 42 holes, good show of oil and gas, small amount of water. Swabbed 9 hours, 169 barrels of oil and 10 barrels of water, and gas exhausted.

On September 9, swabbed through 5 1/2" casing 20 hours, 235.46 barrels of oil and 69.62 barrels of water. On September 10, set Lane-Wells plug at 3850' and perforated 5 1/2" casing from 3815' to 3832' by Lane-Wells with 116 holes. Swabbed through 5 1/2" casing 24 hours, 25.87 barrels of oil and 13.92 barrels of water. On September 12, swabbed 24 hours, 19.12 barrels of oil and 13.28 barrels of water. On September 13, treated with 1500 gallons of Dowell "XP-18" acid as follows:

ACID TREATMENT NO. 2 - Between 3815' and 3832'

Treatment put in 9/13/48 by Dowell Inc., using 1500 gallons of acid and 94 barrels of oil to fill hole and flush.

TIME	OP	TP	REMARKS
11:00 AM			Start acid in hole
11:16 AM			1500 gallons of acid in hole
12:05 PM	300		Filled hole with 58 barrels of oil
12:10 PM	500		8 barrels of oil in hole to flush
12:20 PM	350		23 barrels of oil in hole to flush
12:25 PM	600		30 barrels of oil in hole to flush
12:30 PM	700		Flushed hole with 36 barrels of oil and treatment completed

Swabbed out oil used to acidize, then swabbed 12 hours, 149 barrels of oil and 99 barrels of water. On September 14, drove Lane-Wells plug to 3896' SLM. On September 15, ran 2 1/2" tubing and rods and moved out cable tools, and shut in to install pumping equipment.

TOTAL DEPTH 4025' PB 3896'

On September 30, began taking S.C.C. potential test and developed engine trouble. Shut down to install larger engine until October 5, and on October 7, POB 8 hours, 226.80 barrels of oil and 74.36 barrels of water to establish 24 hour State Corporation Commission potential of 457 barrels of oil. Daily allowable 21 barrels.

SLOPE TEST DATA

DEPTH	ANGLE OF DEFLECTION
500'	0 Degrees
750'	0 "
1000'	0 "
1250'	0 "
1500'	0 "
1750'	1 "
2000'	1 "
2250'	1 "
2500'	1/2 "
2750'	1/2 "
3000'	1/2 "
3250'	0 "
3500'	0 "
3800'	1 "

Fred Smith
from Oklahoma State
Wichita, Kansas

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CONSERVATION DIVISION
 Wichita, Kansas

Date Commenced: April 1, 1954
 Date Completed: April 16, 1954

Plugged back from 3896' to 3893'

PB TD-3893'

Production Before: 4 barrels of oil and 76 barrels of water
 Production After: 8 barrels of oil and 72 barrels of water

5 1/2" casing perforations open above BP: 3815'-3832'/116 and 3883'-89'/42.
 Open below BP: 3910'-17'/49

Producing Form: Lansing Lime

Moved in and rigged up cable tools of Flournoy Drilling Company on April 1, 1954. Pulled rods and 2 1/2" tubing and ran tools to bottom. Bailed and cleaned up hole. Drilled and drove Lane-Wells bridging plug from 3896' to 3969'. Bailed and cleaned up hole. Swabbed through 5 1/2" casing 2 hours, 2 barrels of oil and 44 barrels of water. Ran 2 1/2" tubing and set Halliburton HM packer at 3904'. Swabbed through tubing 11 hours, 1 barrel of oil and 11 barrels of water. On April 4, swabbed through 2 1/2" tubing 3 hours, 7 barrels of water with scum of oil. Then treated from 3910' to 3917' with 500 gallons of Halliburton 15% acid as follows:

ACID TREATMENT NO. 3 - Between 3910' and 3917'

Treatment put in 4/4/54 by Halliburton, using 500 gallons of acid and 24 barrels of oil to fill hole and flush.

TIME	CP	TP	REMARKS
10:22 am	O	Vac.	Start acid down tubing
10:25 am	O	Vac.	Start oil down tubing
10:52 am	O	Vac.	500 gallons of acid on bottom
11:01 am	O	Vac.	250 gallons of acid in formation
11:11 am	O	Vac.	500 gallons of acid in formation

Swabbed through tubing 5 hours, 24 barrels of oil used in treating and 12 barrels of acid water. Then swabbed 13 hours, 2 barrels of oil and 44 barrels of water. On April 5, swabbed through tubing 3 hours, 7 barrels of water with scum of oil. Pulled tubing and HM packer. Set Baker bridging plug at 3895', then plugged back from 3895' to 3893' with 3 gallons of cement. Treated through 5 1/2" casing from 3815' to 3832' and from 3883' to 3889' with 750 gallons of Halliburton 15% acid as follows:

ACID TREATMENT NO. 4 - Between 3815'-32' and 3883'-89'

Treatment put in 4/5/54 by Halliburton, using 750 gallons of acid and 93 barrels of oil to fill hole and flush.

TIME	CP	TP	REMARKS
4:00 pm	Vac.		Start acid down casing
4:05 pm	Vac.		Hole loaded with acid
4:38 pm	Vac.		750 gallons of acid on bottom
4:40 pm	Vac.		250 gallons of acid in formation
4:42 pm	Vac.		500 gallons of acid in formation
4:44 pm	Vac.		750 gallons of acid in formation

Swabbed through 5 1/2" casing 9 hours, 72 barrels of oil used in treating, 18 barrels of acid water, and 18 barrels of salt water. On April 6, ran 2 1/2" tubing and rods and moved out cable tools.

- On April 8, POB 21 hours, 8 barrels of oil and 152 barrels of water.
- On April 9, POB 24 hours, 19 barrels of oil and 117 barrels of water.
- On April 10, POB 24 hours, 14 barrels of oil and 126 barrels of water.
- On April 11, POB 24 hours, 4 barrels of oil and 45 barrels of water.
- On April 12, POB 16 hours, 5 barrels of oil and 57 barrels of water.
- On April 13, POB 24 hours, 5 barrels of oil and 95 barrels of water.
- On April 14, POB 24 hours, 5 barrels of oil and 95 barrels of water.
- On April 15, POB 24 hours, 5 barrels of oil and 92 barrels of water.
- On April 16, POB 24 hours, 8 barrels of oil and 72 barrels of water.

PLUGGED BACK TOTAL DEPTH 3893'

WATER ANALYSIS

Pawhuska Research Laboratory
 Depth Taken: 3910' to 3917'

Date Received: 4/9/54
 Date Completed: 4/14/54

	PPM
Dissolved Solids.	213,314
Chlorides as Cl	118,082
Chlorides as NaCl	194,639
Sulfates as SO ₄	171
Sulfates as CaSO ₄	242

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