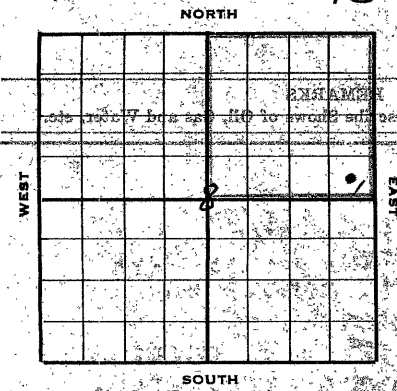


15-153-00037-00-00

SKELLY OIL COMPANY



Well Record

Lease Name and No. Cable #07 766097 Well No. 1 Elev. 3106' PB

Lease Description NE/4 of Section 8-15-34N, Rawlins County, Kansas (160 Acres)

Location made July 15, 19 59 by E. S. Tuxler

feet from North line 330 feet from East line 52 1/2

feet from South line 330 feet from West line of Sec. 8

Work com'd 7/16 19 59 Rig comp'd 7/17 19 59 Drlg. com'd 7/17 19 59 Drlg. comp'd 8/1 19 59

Rig Contractor Claude Wentworth Drilling Co., Inc.

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

Rotary Drilling from 0' to 4350' Cable Tool Drilling from To complete to

Commenced Producing August 28, 19 59 Initial Prod. before shot or acid Bbls.

Initial Prod. after shot or acid 72 30 1000 Bbls.

Dry Gas Well Press. Volume Cu. ft.

Casing Head Gas Pressure Volume Cu. ft.

Braden Head (6-5/8" 29" OD) Gas Pressure Volume Cu. ft.

Braden Head () Gas Pressure Volume Cu. ft.

PRODUCING FORMATION Lansing Line (Name) Top 4011' Bottom 4187' TOTAL DEPTH 4350' PB 4173'

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"	22.75	145'					11	140	0	Armed SW	A	300	Hallib.
5-3/4"	14	8R	4350'				137	4347	0	J55 22 SS A	A	300	Hallib. 4382' 11"
(6-5/8" casing cut off 3' below ground level, and 5' casing cut off 1' below ground)													
5 1/2" casing perforations open:													
Above PB 33: 4011'-16' with 20 holes, 4043'-16' with 12 holes, 4164'-67' with 12 holes													
Below PB 33: 4187'-89' with 8 holes													

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	8/19/59	8/23/59	8/24/59	
Acid Used				
Size Shot	200	150	200	
Shot Between	4187 Ft. and 4190 Ft.	4187 Ft. and 4189 Ft.	4164 Ft. and 4167 Ft.	
Size of Shell	1 1/2"	1 1/2"	1 1/2"	For remaining treatments, see remarks
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	
Wanamille Grove	3603'						
Wanamsiee	3722'						
Lansing Line	3797'						
Lansing Line	3990'				4011'	4016'	Prod. thru cas. perf.
Barnton	4292'				4043'	4046'	"
					4164'	4167'	"

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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FORMATION	TOP	BOTTOM	REMARKS
Surface soil and sand	0	186	Set and cemented 8-5/8" OD, 22.7#, Arco, S.W., S.J. steel casing (1 cond.) at 445' with 300 sacks of Pozmix cement with 2% calcium chloride. Cement circulated. Finished 7:30 pm 7/17/59.
Clay and shells	186	445	
Shale and shells	445	1464	
Shale	1464	1751	
Shale and sand	1751	1940	
Shale	1940	2170	
Shale and shells	2170	2425	
Shale	2425	2580	
Shale and shells	2580	2675	
Line and shale	2675	2760	
Shale	2760	2956	<u>TOP STONE CORRAL 2950'</u>
Anhydrite	2956	2983	
Shale and shells	2983	3225	
Shale	3225	3277	
Shale and shells	3277	3530	<u>TOP COUNCIL GROVE 3403'</u> <u>TOP ADRIAN 3629'</u> <u>TOP WARREN 3722'</u>
Shale and lime	3530	3748	
Line, buff, medium crystalline, fossiliferous	3748	3752	Good vuggy porosity, oil saturated
Line	3752	3756	
Line, buff, medium crystalline, fossiliferous	3756	3760	Good vuggy porosity, oil saturated
Line	3760	3766	
Line, gray, medium crystalline, very fossiliferous	3766	3772	Good vuggy porosity, spotted oil saturation.
Line	3772	3776	
Siltstone, white, friable	3776	3786	Poor dead oil stain
Line and shale	3786	3946	<u>TOP TOPEKA LINE 3797'</u> <u>TOP MT. CREAM LINE 3886'</u>
Line, tan, medium to finely crystalline, fossiliferous	3946	3948	Trace of vuggy porosity with spotted oil stain
Line and shale	3948	4003	<u>TOP LANSING LINE 3990'</u>
Line, white crystalline and dense	4003	4007	Light vuggy porosity, black oil stain, some free oil
Line	4007	4010	<u>DRILL STEM TEST NO. 1</u> 3989'-4010', open 1 hour, weak blow dead in 1 minute, recovered 4" rotary mud, no oil, all pressures 0 in 30 minutes.
Line and shale	4010	4144	
Line, light gray, fine to medium crystalline	4144	4153	Fair pinpoint to scattered vuggy porosity, dark staining, scattered free oil in wet fragments.
Line	4153	4157	<u>DRILL STEM TEST NO. 2</u> 4140'-4157', open 2 hours, fair blow throughout, recovered 1560' muddy salt water with few specks oil, IBHP-1280' in 30 mins., IFF-90', FFP-735', FFP-705' in 30 minutes.
Line	4157	4189	
Line, cream, medium crystalline	4189	4194	Fair vuggy porosity, poor to fair stain with trace of free oil in wet fragments.
Line	4194	4200	<u>DRILL STEM TEST NO. 3</u> 4155'-4200', open 1 hour, fair to weak blow dead in 14 minutes, recovered 450' gassy mud, 120' mud cut oil, 5' of free oil and 50' of maddy oil, IBHP-1255' in 30 minutes, IFF-285', FFP-310', FFP-1140' in 30 minutes.
Line and shale	4200	4237	
Line, light gray, medium crystalline	4237	4240	Fair vuggy to inner-crystalline porosity, spotted stain, trace of free oil in wet fragments.

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Line and shale 4240 4350

TOTAL DEPTH 4350'

Total Depth Reached: 6/1/59

DRILL STAM TEST NO. A
 4204'-4240', open 1 hour, weak
 blow dead in 11 minutes, re-
 covered 750' of muddy salt
 water, no oil, IMP-1250' in
 30 minutes, IPT-1100', PFT-4250',
 FHP-770' in 30 minutes.
BASE KANSAS CITY 4260'
 Van Schilumberger Survey
 TOP MARKMAN 4292'

Set and cemented 5 1/2" O.D., 11 1/2"
 I.D. thd., R-2, J-55, S.S. casing
 (A cond.) at 4350' with 300
 sacks of Halliburton S.O.W.
 cement, used 130 barrels oil
 gelled with 130 sacks of Newco
 Gel ahead of cement. Oil
 circulated, 100% circulation
 throughout. Finished 5:30 pm
 6/2/59. Ran Halliburton
 Temperature Survey and found
 top of cement behind 5 1/2" casing
 at 2600'.

Moved in and rigged up cable tools on August 14, snubbed hole
 dry to top of cement plug at 4312' and 5 1/2" casing tested dry. Ran
 Lane-Wells Gamma Ray Collar Log from 4312' to 3650'. Set Lane-Wells
 bridging plug at 4210'.

Casing Perforation No. 1 - Lansing Line - 4187'-4193'
 4187'-4193' 24 A-2 holes

Snubbed 20 hours, 15 barrels of oil and 34 barrels of water.

Ran 2" tubing and set BM retainer at 4060'. Cemented off
 perforations from 4187' to 4193' with 50 sacks of common cement, 27
 sacks below retainer at 700% - 17, reversed out 23 sacks of cement.
 Pulled 2" tubing and shut down for cement to set. On August 18,
 drilled BM retainer at 4160' and drilled cement plug to 4191'.

Casing Perforation No. 2 - Lansing Line - 4187'-4190'
 4187'-4190' 9 type "B" holes
 12 knee shots

Tested 1 hour, 1/2 barrel of water with show of oil. Treated
 through 5 1/2" casing with 200 gallons of Halliburton 15% acid as follows:

TREATMENT NO. 1 - Acidized - 4187'-4190'

Treatment put in 8/19/59 by Halliburton, using 200 gallons of
 acid and 101 barrels of water.

TIME	Q	REMARKS
1:05 PM	100%	Acid on formation
2:00 PM	250%	
3:00 PM	310%	
4:00 PM	350%	
4:10 PM	350%	Treatment completed

Snubbed through 5 1/2" casing 3 hours, 103 barrels of water used
 to flush. Then snubbed through 5 1/2" casing 9 hours, 12 barrels of oil
 and 158 barrels of water.

Ran 2" tubing and set BM retainer at 4150'. Pressured annulus
 to 500%, input below retainer 2 1/2 barrels per minute at 1400'. Cemented
 off perforations from 4187' to 4190' with 100 sacks of S.O.W. cement.
 Estimated 29 sacks below retainer at 1500'. Reversed out 71 sacks.
 Pulled 2" tubing and shut down for cement to set.

On August 22, snubbed and bailed the hole dry to top of BM
 retainer at 4150'. Drilled retainer and cement plug to 4190'.

Casing Perforation No. 3 - Lansing Line - 4187'-4189'
 4187'-4189' 8 A-2 holes

Tested 9 hours, 3 gallons of water with show of oil per hour.
 Treated through 5 1/2" casing with 150 gallons of Halliburton 15% acid
 as follows:

TREATMENT NO. 2 - Acidized - 4187'-4189'

Treatment put in 8/23/59 by Halliburton, using 150 gallons of
 acid and 103 barrels of water.

TIME	Q	REMARKS
11:14 AM		Start acid
11:30 AM	150%	Acid on formation
11:35 AM	250%	
11:59 AM	200%	Treatment completed

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Swabbed through 5 1/2" casing 3 hours, 103 barrels of water used to flush. Swabbed through 5 1/2" casing 10 hours, 16 barrels of oil and 14 barrels of water.

Set Lane-Wells bridging plug at 4175' and swabbed and bailed the hole dry.

Casing Perforation No. 4 - Lansing Line - 4164'-4167'
4164'-67' 12 A-2 holes

Bailed 1 1/2 gallons water per hour with show oil. Treated through 5 1/2" casing with 200 gallons of Halliburton 15% acid as follows:

TREATMENT NO. 3 - Acidized - 4164'-4167'

Treatment put in 8/24/59 by Halliburton, using 200 gallons of acid and 104 barrels of water.

TIME	GP	IP	REMARKS
7:15 pm			Acid on formation
8:15 pm	250'		
9:15 pm	350'		
9:35 pm	350'		Treatment completed

Swabbed through 5 1/2" casing 2 1/2 hours, 104 barrels of water used to flush. Then swabbed 5 hours, 21 barrels of oil and 14 barrels of water. On August 25, swabbed through 5 1/2" casing 4 hours, 4 1/2 barrels of fluid per hour, 2 1/2 water (oil 31.5° gravity).

Set Lane-Wells bridging plug at 4065'. Swabbed and bailed the hole dry.

Casing Perforation No. 5 - Lansing Line - 4043'-4046'
4043'-4046' 12 A-2 holes

Tested dry. Treated through 5 1/2" casing with 200 gallons of Halliburton 15% acid as follows:

TREATMENT NO. 4 - Acidized - 4043'-4046'

Treatment put in 8/25/59 by Halliburton, using 200 gallons of acid and 102 barrels water.

TIME	GP	IP	REMARKS
1:15 pm	100'		Acid on formation
2:50 pm	200'		
3:17 pm	250'		Treatment completed

Swabbed through 5 1/2" casing 2 hours, 102 barrels of water used in treating. Then swabbed 10 hours, 65 barrels of 32.6 gravity oil and 5 barrels of water.

Set Lane-Wells bridging plug at 4030'. Swabbed and bailed the hole dry.

Casing Perforation No. 6 - Lansing Line - 4011'-4016'
4011'-4016' 20 A-2 holes

Tested 1 hour, 20 gallons oil with trace of water. Treated through 5 1/2" casing with 500 gallons of Halliburton 15% acid as follows:

TREATMENT NO. 5 - Acidized - 4011'-4016'

Treatment put in 8/26/59 by Halliburton, using 500 gallons of acid and 100 barrels of oil.

TIME	GP	IP	REMARKS
4:35 pm	150'		Acid on formation
5:15 pm	150'		
6:00 pm	400'		
6:30 pm	450'		Treatment completed

Swabbed through 5 1/2" casing 1 hour, 100 barrels of oil used in treating; then swabbed 10 hours, 45 barrels oil and 3 barrels of water.

Drove bridging plugs from 4030' and 4065' to 4173' SLN.

PLUGGED BACK TOTAL DEPTH 4173'

Swabbed and bailed the hole clean. On August 28, ran 2" tubing and rods and PDB 8 hours, 79 barrels of oil and 10 barrels of water to establish 24 hour State Corporation Commission potential of 237 barrels. Allowable 25 barrels per day.

On August 29, ran 2" tubing with straddle packer and treated with 2250 gallons of 15% acid as follows:

TREATMENT NO. 6 - Acidized - 4164'-67', 4043'-46', and 4011'-16'

Treatment put in 8/29/57 by Halliburton, using 2250 gallons of acid and 55 barrels of oil.

Set top packer at 4141', bottom packer at 4172'

TIME	IP	OP	REMARKS
6:05 pm		400'	Acid on formation
6:25 pm		800'	300 gallons of acid in
6:40 pm		700'	750 gallons of acid in

Set top packer at 4029', bottom packer at 4062'

6:55 pm		100'	Acid on formation
7:10 pm		750'	750 gallons of acid in formation

Set top packer at 3995', bottom packer at 4026'

7:45 pm		150'	Acid on formation
8:00 pm		850'	200 gallons of acid in
8:13 pm		900'	750 gallons of acid in

Fulled tubing and packers and scrubbed through 5 1/2" casing 30 minutes, 55 barrels oil used in treating with show of water. Hailed and cleaned up hole.

Run 2" tubing and rods and on August 30, PCH 12 hours, 127.60 barrels of oil and 40.40 barrels of water. On August 31, PCH 12 hours, 109.20 barrels of oil and 46.80 barrels of water.

SLOPE TEST DATA

DEPTH	ANGLE OF DEFLECTION
1500'	2 Degrees
2500'	1 "
3000'	0 "
3500'	1/2 "

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