

STATE OF KANSAS  
STATE CORPORATION COMMISSION

WELL PLUGGING RECORD

Give All Information Completely  
Make Required Affidavit  
Mail or Deliver Report to:  
Conservation Division  
State Corporation Commission  
211 No. Broadway  
Wichita, Kansas

Graham County. Sec. 9 Twp. 10S Rge. (E) 21(W)

Location as "NE/CNW/SW" or footage from lines NW/4 NE/4 NW/4

Lease Owner Skelly Oil Company

Lease Name Roy Martin Well No. 4

Office Address Box 1650, Tulsa, Oklahoma

Character of Well (completed as Oil, Gas or Dry Hole) Dry Hole

Date well completed June 17, 19 56

Application for plugging filed June 19, 19 56

Application for plugging approved June 20, 19 56

Plugging commenced June 30, 19 56

Plugging completed July 2, 19 56

Reason for abandonment of well or producing formation Dry Hole

If a producing well is abandoned, date of last production \_\_\_\_\_ 19 \_\_\_\_\_

Was permission obtained from the Conservation Division or its agents before plugging was commenced? Yes

Name of Conservation Agent who supervised plugging of this well Mr. Eldon Petty

Producing formation \_\_\_\_\_ Depth to top \_\_\_\_\_ Bottom \_\_\_\_\_ Total Depth of Well 3893 Feet

Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS

CASING RECORD

FORMATION	CONTENT	FROM	TO	OD SIZE	PUT IN	PULLED OUT
Arbuckle Lime	Dry	3888'	3893'	8-5/8"	272' 0"	None
					3916' 0"	3075' 10"

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same and depth placed, from \_\_\_\_\_ feet to \_\_\_\_\_ feet for each plug set.

Bridging plugs were set at 3741', 3720', 3706', 3655', 3634', 3622', 3603', and 3570'

Sand		3570'	to	3540'
4 sacks of cement		3540'	to	3516'
Mud		3516'	to	275'
Rock bridge		275'	to	270'
15 sacks of cement		270'	to	225'
Mud		225'	to	35'
Rock bridge		35'	to	30'
10 sacks of cement		30'	to	6'
Surface soil		6'	to	0'

(If additional description is necessary, use BACK of this sheet)  
Name of Plugging Contractor Ace Pipe Pulling Company  
Address Box 304, Great Bend, Kansas

STATE OF Kansas, COUNTY OF Reno, ss.  
H. E. Wamsley (employee of owner) of the above-described well, being first duly sworn on oath, says: That I have knowledge of the facts, statements, and matters herein contained and the log of the above-described well as filed and that the same are true and correct. So help me God.

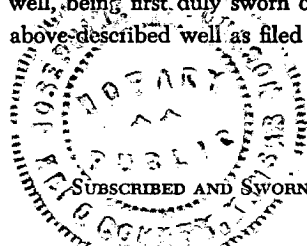
(Signature) \_\_\_\_\_

Box 391, Hutchinson, Kansas

(Address)

SUBSCRIBED AND SWORN to before me this 13th day of July, 19 56

My commission expires April 7, 1959

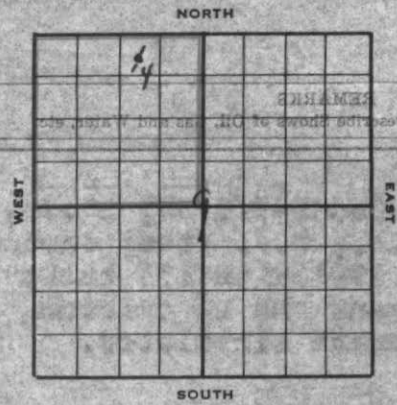


Josephine L. Johnson  
Notary Public.

STATE OF KANSAS  
7-14-1956  
JUL 14 1956  
CONSERVATION DIVISION  
Wichita, Kansas

PLUGGING  
FILE SEC 9 T 10 R 21W  
BOOK PAGE 72 LINE 25

# SKELLY OIL COMPANY



## Well Record

Lease Name and No. Roy Martin Well No. 4 Elev. 2293'  
 Lease Description 1/4 Section 9-100-21V,  
Graham County, Kansas (160 Acres)  
 Location made May 12, 19 56 by P. J. Cusson  
330 feet from North line 990 feet from East line  
 feet from South line feet from West line of Sec. 9

Work com'd 5/12 19 56 Rig comp'd 5/13 19 56 Drlg. com'd 5/13 19 56 Drlg. comp'd 5/25 19 56

Rig Contractor Claude Wentworth Drilling Co., Inc.

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

Rotary Drilling from 0' to 3893' Cable Tool Drilling from To complete to

Commenced Producing DRY HOLE 19 56 Initial Prod. before shot or acid \_\_\_\_\_ Bbls.  
 Initial Prod. after shot or acid \_\_\_\_\_ Bbls.

Dry Gas Well Press. \_\_\_\_\_ Volume \_\_\_\_\_ Cu. ft.

Casing Head Gas Pressure \_\_\_\_\_ Volume \_\_\_\_\_ Cu. ft.

Braden Head ( \_\_\_\_\_ Size \_\_\_\_\_ ) Gas Pressure \_\_\_\_\_ Volume \_\_\_\_\_ Cu. ft.

Braden Head ( \_\_\_\_\_ Size \_\_\_\_\_ ) Gas Pressure \_\_\_\_\_ Volume \_\_\_\_\_ Cu. ft.

PRODUCING FORMATION DRY HOLE (Name) Top \_\_\_\_\_ Bottom \_\_\_\_\_ TOTAL DEPTH 3893'

### 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	3	279'				7	272	0	Arco SW	A	175	Halliburton
5-1/2"	14	8	3890'	82	3075	10	22	840	2	J55 H3 15	A	200	Halliburton
<i>(8-5/8" casing set 1' in cellar)</i>													

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	6/1/56		6/2/56		6/3/56			
Acid Used	500		500		500			
Size Shot	500 Gals. Qts.		500 Gals. Qts.		500 Gals. Qts.			
Shot Between	3747 Ft. and	3752 Ft.	3726 Ft. and	3736 Ft.	3708 Ft. and	3712 Ft.	Ft. and Ft.	
Size of Shell							For remaining	
Put in by (Co.)	Halliburton		Halliburton		Halliburton		treatments see	
Length anchor							remarks	
Distance below Cas'g								
Damage to Casing or Casing Shoulder								

### SIGNIFICANT GEOLOGICAL FORMATIONS

NAME	Top	Bottom	GAS		OIL		REMARKS
			From	To	From	To	
Hoebner Shale	3512'						
Toronto Line	3536'						
Lansing Line	3550'						
Conglomerate	3834'						
Arbuckle Line	3888'						7-14-1956

### 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, shale and rock	0	279	Set and cemented 8-5/8" ID, 22.75, K-3, Arnco S.W., S.J. steel casing (4 cond.) at 279' with 175 sacks of common cement and 25 calcium chloride. Cement circulated.
Shale	279	830	
Shale and sand	830	1515	
Shale and shells	1515	1600	
Shale, shells and red bed	1600	1783	<u>TOP ANHYDRITE 1783'</u>
Anhydrite	1783	1830	<u>BASE ANHYDRITE 1830'</u>
Shale and shells	1830	2025	
Shale and lime	2025	3587	<u>TOP WELLINGTON 2136'</u> <u>BASE WELLINGTON 2329'</u> <u>TOP NAVA 2810'</u> <u>BASE NAVA 3307'</u> <u>TOP ANHYDRITE 3512'</u> <u>BASE ANHYDRITE 3536'</u> <u>TOP LANSING LIME 3550'</u>
Tan to gray, finely crystalline lime	3587	3593	Poor porosity, slight saturation
Lime	3593	3595	
Tan to gray oolitic lime	3595	3600	Poor to fair porosity, spotted saturation
Lime	3600	3608	
Tan to gray, vugular lime	3608	3612	Slight vugular porosity, fair saturation
Lime	3612	3614	
Tan to gray, slightly vugular lime	3614	3618	Vugular porosity, spotted stain and saturation, few specks of oil.
Lime	3618	3628	
Tan to gray, finely crystalline, slightly oolitic lime	3628	3631	Poor porosity, spotted stain, slight show of free oil
Lime	3631	3639	
Tan to gray oolitic lime	3639	3644	Poor porosity, spotted saturation
Lime	3644	3645	Run Halliburton drill stem test No. 1, packer set at 3645', used 55' anchor, open 1 hour, weak blow for 15 minutes, recovered 15' of rotary mud, no oil, no flow pressures, BHP-45'.
Lime	3645	3685	
Tan to gray, finely crystalline lime	3685	3688	Poor porosity, slight stain
Lime	3688	3690	
Tan to gray, finely crystalline lime	3690	3694	Poor porosity, slight stain
Lime	3694	3706	
Tan to gray, finely crystalline lime	3706	3714	Poor porosity, slight stain
Lime	3714	3716	
Light tan, finely crystalline lime	3716	3721	Light stain
Lime	3721	3726	
Light tan, finely crystalline lime	3726	3730	Poor porosity, slight saturation
Lime	3730	3736	
Light tan, finely crystalline lime	3736	3740	Fair saturation
Lime	3740	3748	
Light tan, finely crystalline lime	3748	3754	Slight show of free oil
Lime	3754	3760	Run Halliburton drill stem test No. 2, packer set at 3754', used 82' anchor, open 1 hour, weak blow for 15 minutes, recovered 20' of mud with spots of free oil, no flow pressures, BHP-540'.
Lime and shale	3760	3888	<u>BASE KANSAS CITY LIME 3774'</u> <u>TOP CONGREGATE 3834'</u> <u>TOP ANHYDRITE LIME 3888'</u>
Hard gray, fine crystalline dolomite	3888	3893	Poor porosity, no stain or saturation
			Run Schlumberger survey

Set and cemented 5 1/2" OD, 14 1/2, 82 thd., R-3, J-55, S.S. casing (A cond.) at 3890' with 200 sacks of common cement. Finished at 1:00 a.m. 5/25/56. Opened stage collar at 3248' with 900' -CP and circulated 1 hour. Spotted 154 barrels of heavy crude oil behind 5 1/2" casing, all circulated. Closed stage collar with 1400' -CP. Finished at 3:00 a.m. 5/26/56.

Rigged up cable tools and swabbed and bailed the hole dry to top of stage collar on May 31, and 5 1/2" casing tested dry. Drilled stage collar and swabbed and bailed the hole dry to 3940'.

Ran Lane-Wells Gamma Ray Neutron Survey. Perforated 5 1/2" casing from 3747' to 3752' with 30 holes by Lane-wells, no shows. Treated through 5 1/2" casing with 500 gallons of Halliburton 15% acid as follows:

ACID TREATMENT NO. 1 - Between 3747' and 3752'

Treatment put in 6/1/56 by Halliburton, using 500 gallons of acid and 93 barrels of water.

TIME	CP	TP	REMARKS
1:36 pm			Start acid
1:41 pm			Start flush
1:56 pm	1000'		Acid on formation
2:00 pm	900'		120 gallons of acid in
2:08 pm	800'		500 gallons of acid in

Swabbed through 5 1/2" casing 10 hours, 93 barrels of water used in treating. Bailed and tested 8 hours, 6 gallons of water per hour, no oil.

Set bridging plug at 3741' and 5 1/2" casing tested dry. Perforated 5 1/2" casing from 3726' to 3732' with 36 holes and from 3734' to 3736' with 12 holes by Lane-Wells, no shows. Treated through 5 1/2" casing with 500 gallons of Halliburton 15% acid as follows:

ACID TREATMENT NO. 2 - Between 3726' and 3736'

Treatment put in 6/2/56 by Halliburton, using 500 gallons of acid and 92 barrels of water.

TIME	CP	TP	REMARKS
3:00 pm			Start acid
3:03 pm			Start flush
3:20 pm	250'		Acid on formation
3:37 pm	500'		200 gallons of acid in formation
3:45 pm	600'		400 gallons of acid in formation
3:50 pm	600'		500 gallons of acid in formation

Swabbed through 5 1/2" casing 10 hours, 92 barrels of water used in treating. Bailed and tested 8 hours, 1 gallon of oil and 10 gallons of water per hour.

Set Baker bridging plug at 3720' and 5 1/2" casing tested dry. Perforated 5 1/2" casing from 3709' to 3712' with 27 holes by Lane-Wells, no shows. Treated through 5 1/2" casing with 500 gallons of Halliburton 15% acid as follows:

ACID TREATMENT NO. 3 - Between 3709' and 3712'

Treatment put in 6/3/56 by Halliburton, using 500 gallons of acid and 90 barrels of oil.

TIME	CP	TP	REMARKS
4:55 pm			Start acid
5:00 pm			Start flush
5:17 pm	300'		Acid on formation
5:58 pm	600'		84 gallons of acid in formation
6:45 pm	750'		210 gallons of acid in formation
7:30 pm	750'		500 gallons of acid in formation

Swabbed through 5 1/2" casing 9 hours, 86 barrels of water used in treating. Bailed and tested 8 hours, 43 gallons of water and no oil, and bailed hole dry.

Ran 2" tubing with Yowell tool to 1400' and pressured to 1000', found no leaks. Pulled 2" tubing and Yowell tool and set Baker bridging plug at 3706'. Pumped Halliburton test plug to 3254'. Tested 1000' -CP. Found stage collar leaking at 3247'. Drove test plug to 3706'. Perforated stage collar from 3247' to 3249' with 3 holes by Lane-Wells. Ran 2" tubing and set Halliburton DM retainer at 3214'. Cemented with 40 sacks of common cement. Reversed out 3 sacks of cement, TP-300'. Pulled 2" tubing and shut down for cement to set. Halliburton Temperature Survey showed top of cement behind 5 1/2" casing at 3090'.

On June 8, swabbed and bailed the hole dry to 3214' and 5 1/2" casing tested dry. Drilled retainer at 3214', then drilled cement plug to 3259'. Swabbed and bailed hole dry to 3706' and 5 1/2" casing tested dry. Perforated 5 1/2" casing from 3689' to 3698' with 81 holes by Lane-wells, no shows. Perforated 5 1/2" casing from 3701' to 3704' with 27 holes by Lane-wells, no shows. Treated through 5 1/2" casing with 500 gallons of Halliburton 15% acid as follows:

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ACID TREATMENT NO. 4 - Between 3689'-98' and 3701'-04'

Treatment put in 6/9/56 by Halliburton, using 500 gallons of acid and 92 barrels of water.

TIME	GP	FP	REMARKS
7:30 pm			Start acid
7:47 pm	500		Acid on formation
7:55 pm	550		250 gallons of acid in formation
8:00 pm	550		Acid in

Swabbed through 5 1/2" casing 3 hours, 92 barrels of water used in treating. Bailed and tested 14 hours, 6 gallons of oil and 21 gallons of water per hour. Reacidized through 5 1/2" casing with 2500 gallons of Halliburton HV acid as follows:

ACID TREATMENT NO. 5 - Between 3689'-98' and 3701'-04'

Treatment put in 6/10/56 by Halliburton, using 2500 gallons of acid and 92 barrels of water.

TIME	GP	FP	REMARKS
1:25 pm			Start acid
1:40 pm			Start flush
1:45 pm	500		Acid on formation
1:47 pm	550		400 gallons of acid in formation
1:56 pm	650		1800 gallons of acid in formation
2:02 pm	600		2500 gallons of acid in formation

Swabbed through 5 1/2" casing 3 hours, 92 barrels of water used in treating; then swabbed 8 hours, 1 barrel of oil and 33 barrels of water.

Set Baker bridging plug at 3655' and 5 1/2" casing tested dry. Perforated 5 1/2" casing from 3639' to 3644' with 45 holes by Lane-Wells, tested 1 gallon of water per hour. Treated through 5 1/2" casing with 500 gallons of Halliburton 15% acid as follows:

ACID TREATMENT NO. 6 - Between 3639' and 3644'

Treatment put in 6/11/56 by Halliburton, using 500 gallons of acid and 102 barrels of water.

TIME	GP	FP	REMARKS
6:56 pm			Start acid
6:59 pm			Start flush
7:15 pm	600		Acid on formation
7:20 pm	600		Acid in formation

Swabbed through 5 1/2" casing 4 hours, 102 barrels of water used in treating; then swabbed 3 hours, 7 barrels of water and no oil.

Set Baker bridging plug at 3634', bailed the hole dry, then tested 72 barrels of water per hour. Located leak in stage collar at 3248'. Perforated 5 1/2" casing from 3627' to 3632' with 45 holes by Lane-Wells, no increase in fluid, no show of oil. Ran 2" tubing and set Halliburton HM packer at 3600' and treated with 500 gallons of Halliburton 15% acid as follows:

ACID TREATMENT NO. 7 - Between 3627' and 3632'

Treatment put in 6/12/56 by Halliburton, using 500 gallons of acid and 18 barrels of water.

TIME	GP	FP	REMARKS
9:00 pm			Start acid
9:27 pm		900	Acid on formation
10:05 pm		1400	50 gallons of acid in formation
10:25 pm		1200	125 gallons of acid in formation
10:45 pm		1400	330 gallons of acid in formation
10:56 pm		1500	500 gallons of acid in formation

Unable to swab through 2" tubing due to paraffin. Pulled 2" tubing and packer, then swabbed through 5 1/2" casing 20 minutes, 18 barrels of water used in treating. Then swabbed 4 1/2 hours, 2 gallons of oil and 40 barrels of water. Bailed and tested 12 hours, 1/2 gallon of oil and 32 gallons of water per hour.

Tested under stage collar with swab 2 hours, 6 gallons of water per hour. Set Baker bridging plug at 3622' and 5 1/2" casing tested 6 gallons of water per hour. Perforated 5 1/2" casing from 3608' to 3618' with 60 holes by Lane-Wells, no change in fluid. Ran 2" tubing and set Halliburton HM packer at 3600'. Treated with 500 gallons of Halliburton 15% acid as follows:

ACID TREATMENT NO. 8 - Between 3608' and 3618'

Treatment put in 6/14/56 by Halliburton, using 500 gallons of acid and 18 barrels of water.

TIME	GP	FP	REMARKS
8:40 pm			Start acid
8:55 pm		800	Acid on formation
8:57 pm		1000	40 gallons of acid in
9:02 pm		850	100 gallons of acid in
9:11 pm		1250	300 gallons of acid in
9:20 pm		1200	Acid in

3-11-17

Swabbed through 2" tubing 1 hour, 18 barrels of water used in treating; then swabbed 4 hours, 10 barrels of water and no oil.

Pulled 2" tubing and packer and set Baker bridging plug at 3603' and 5 1/2" casing tested 6 gallons of water per hour from stage collar at 3248'. Perforated 5 1/2" casing from 3593' to 3597' with 24 holes by Lane-Wells, no increase in fluid. Ran 2" tubing and set Halliburton HM packer at 3580' and treated with 500 gallons of Halliburton 15% acid as follows:

ACID TREATMENT NO. 9 - Between 3593' and 3597'

Treatment put in 6/15/56 by Halliburton, using 500 gallons of acid and 18 barrels of water.

TIME	CP	TP	REMARKS
10:53 pm			Start acid
10:56 pm			Acid in
11:00 pm		300	Acid on bottom, start flush
11:03 pm		650	5 barrels of acid in
11:08 pm		650	500 gallons of acid in formation

Swabbed through 2" tubing 8 hours, 12 barrels of water used in treating, no oil.

Pulled tubing and packer and set Baker bridging plug at 3570'. Tested 6 gallons of water per hour from stage collar at 3248'. Perforated 5 1/2" casing from 3551' to 3560' with 54 holes by Lane-Wells, no increase in fluid. Ran 2" tubing and set Halliburton HM packer at 3520'. Treated with 500 gallons of Halliburton 15% acid as follows:

ACID TREATMENT NO. 10 - Between 3551' and 3560'

Treatment put in 6/16/56 by Halliburton, using 500 gallons of acid and 18 barrels of water.

TIME	CP	TP	REMARKS
10:26 pm			Start acid
10:30 pm			Acid in
10:32 pm		750	Acid on bottom
10:34 pm		1400	42 gallons of acid in
10:38 pm		750	120 gallons of acid in
10:43 pm		900	500 gallons of acid in

Swabbed through 2" tubing 8 hours, 18 barrels of water, no oil. Pulled 2" tubing and packer and moved out cable tools.

Since commercial production was not encountered in drilling and testing all probable zones to TD-3893', regular authority was granted to plug and abandon the well.

The well was plugged as follows:

Sand	3570' to 3540'
4 sacks of cement	3540' to 3516'

Pulled 3075'10" of 5 1/2" OD, 11 1/2 lb. wt., R-3, J-55, S.S. casing (B cond.)

Mud	3516' to 275'
Rock bridge	275' to 270'
15 sacks of cement	270' to 225'
Mud	225' to 35'
Rock bridge	35' to 30'
10 sacks of cement	30' to 6'
Surface soil	6' to 0'

Plugged and abandoned July 2, 1956.

SLOPE TEST DATA: Tests were taken at 500', 1000', 1500', 1750', 2250', 2500', and 3000' with no deviation from vertical noted.