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See

STATE OF KANSAS  
STATE CORPORATION COMMISSION

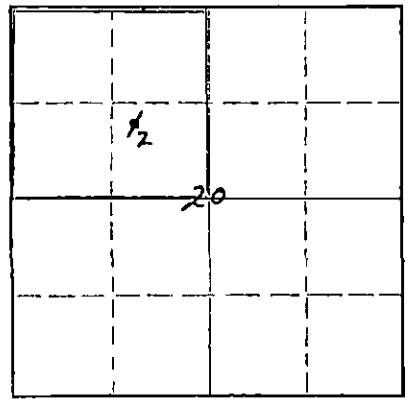
WELL PLUGGING RECORD

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

Rush County. Sec. 20 Twp. 18S Rge. (E) 16 (W)

Location as "NE/CNW/SW" or footage from lines NW/4 SE/4 NW/4  
 Lease Owner Skelly Oil Company  
 Lease Name Ben Huenergardt Well No. 2  
 Office Address Box 1650, Tulsa, Oklahoma  
 Character of Well (completed as Oil, Gas or Dry Hole) Dry Hole  
 Date well completed May 27, 1957  
 Application for plugging filed May 27, 1957  
 Application for plugging approved May 29, 1957  
 Plugging commenced June 4, 1957  
 Plugging completed June 6, 1957  
 Reason for abandonment of well or producing formation Dry Hole

NORTH



Locate well correctly on above Section Plat

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. R. M. Brundege  
 Producing formation \_\_\_\_\_ Depth to top \_\_\_\_\_ Bottom \_\_\_\_\_ Total Depth of Well 3607 Feet  
 Show depth and thickness of all water, oil and gas formations. PB 3580'

OIL, GAS OR WATER RECORDS

CASING RECORD

FORMATION	CONTENT	FROM	TO	OD SIZE	PUT IN	PULLED OUT
Reagan Sand	Dry	3574'		8-5/8"	1023'6"	None
Pre-Cambrian	Dry	3596'		5-1/2"	3633'9"	2901'0"

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.

Sand	3580' to 3565'
5 sacks of cement	3565' to 3530'
Mud	3530' to 450'
Rock bridge	450' to 440'
20 sacks of cement	440' to 382'
Mud	382' to 20'
Rock bridge	20' to 15'
5 sacks of cement	15' to 6'
Surface soil	6' to 0'

(If additional description is necessary, use BACK of this sheet)

Name of Plugging Contractor West Supply Company  
 Address Chase, 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) [Signature]  
Box 391, Hutchinson, Kansas  
 (Address)

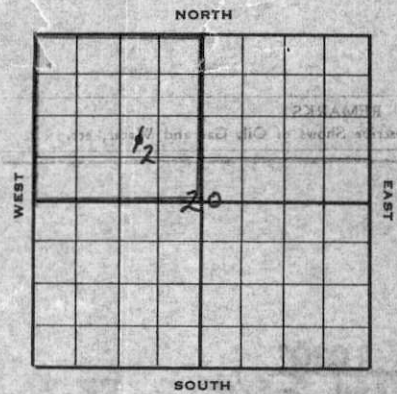
SUBSCRIBED AND SWORN TO before me this 21st day of June, 19 57

My commission expires April 7, 1959

[Signature]  
 Notary Public.  
 STATE CORPORATION COMMISSION

PLUGGING  
 FILE SEC 20 T. 18 R. 16W  
 BOOK PAGE 16 LINE 13

JUN 22 1957  
 CONSERVATION DIVISION  
 Wichita, Kansas



# SKELLY OIL COMPANY

## Well Record

Lease Name and No. San Hussongardt Well No. 2 Elev. \_\_\_\_\_  
 Lease Description 1/4 Section 20-18-16,  
Rush County, Kansas (160 Acres)  
 Location made April 13, 1957 by Dupree Ingram  
990 feet from North line \_\_\_\_\_ feet from East line \_\_\_\_\_  
990 feet from South line \_\_\_\_\_ feet from West line \_\_\_\_\_

Work com'd 4/17/57 19 57 Rig comp'd 4/19/57 19 57 Drlg. com'd 4/19/57 19 57 Drlg. comp'd 5/3/57 19  
 Rig Contractor Claude Wentworth Drilling Co., Inc.  
 Drilling Contractor Claude Wentworth Drilling Co., Inc., Tulsa, Oklahoma  
 Rotary Drilling from 0' to 3607' Cable Tool Drilling from \_\_\_\_\_ to \_\_\_\_\_

Commenced Producing \_\_\_\_\_ 19 \_\_\_\_\_  
 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 3607'

### 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"	22.7	53	1029'				26	1023'	0	ARMO	A	500	Halliburton
5-1/2"	14.5	88	3606'	88	2901'	0	23	732'	9	555	A2	125	Halliburton
(8-5/8" casing set 1' in cellar and 1/2" 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

Date	FIRST		SECOND		THIRD		FOURTH	
	5/9/57	5/13/57	5/19/57	5/26/57	Gals.	Qts.	Gals.	Qts.
Acid Used	250 gals.	250 gals.	250	500				
Size Shot								
Shot Between	3590 Ft. and 3594 Ft.	3588 Ft. and 3590 Ft.	3580 Ft. and 3584 Ft.	3575 Ft. and 3579 Ft.				
Size of Shell	Halliburton	Halliburton	Halliburton	Halliburton				
Put in by (Co.)	Halliburton	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	
Topoka Limestone	2972'						
Heebner shale	3218'						
Toronto Limestone	3234'						
Douglas Sand	3250'						
Lensing Limestone	3274'						
Beagan Sand	3574'						
Pre-Cambrian	3596'						

### 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 shells	0	375	
Sand and shale	375	560	
Shale, shells and red bed	560	985	
Red bed and shale	985	1018	
Anhydrite	1018	1030	<b>TOP ANHYDRITE 1020'</b> Set and cemented 8-5/8" OD, 22.7#, Arco J. steel casing (A cond.) at 1029' with 500 sacks of Pozmix cement. Cement circulated.
Anhydrite	1030	1053	<b>BASE ANHYDRITE 1050'</b>
Shale and shells	1053	1740	
Shale and lime	1740	2780	
Shale and shells	2780	3025	<b>NEAR TOP SHALE 2899'</b> <b>TOP SHALE 2972'</b>
Lime and shale	3025	3569	<b>TOP LIMESTONE SHALE 3216'</b> <b>TOP LIMESTONE 3234'</b> <b>TOP LIMESTONE 3250'</b> <b>TOP LIMESTONE 3274'</b> <b>BASE ANHYDRITE 3497'</b>
<b>Cored from 3569' to 3587' - Recovered 174'</b>			
<b>Top 6' - Dense gray lime with gray shale streaks</b>			
<b>Next 1' - Light gray to light tan, fine grained sand, slightly shaly</b>			
<b>Next 7' - Tan, fine to medium grained, sub-angular sand, fair to good porosity, brown stain, fair odor with streaks of quartzitic sand</b>			
<b>Last 3'6" - Pale green, shaly sand with large round to fine grained micaceous sand with streaks of light stain.</b>			
Ran Halliburton drill stem test No. 1, packer set at 3573', used 14" anchor, open 1 hour, gas to surface in 8 minutes, recovered 200' of heavy gas and slightly oil cut mud, 120' of gassy and slightly oily water, and 120' of salt water, IFF-110, FFP-180, BHP-870 in 30 minutes, gas gauged 40 M.C.F.			
<b>Cored from 3587' to 3602' - Recovered 14'</b>			
<b>Top 2'6" - Green and gray, fine to medium grained sub-angular sand, fair porosity, mica and shaly in streaks, scattered light stain and odor</b>			
<b>Next 4'6" - Brown, medium grained, sub-angular to sub-rounded sand, fair porosity, good stain with traces of free oil, vertical fractures.</b>			
<b>Next 4' - Sand, same as above with slight bleeding of oil with large rounded sand grains toward base.</b>			
<b>Last 3' - Green to gray green, waxy schist, highly fractured</b>			
<b>TOP PRE-CAMBRIAN 3596'</b>			
Ran Halliburton drill stem test No. 2, packer set at 3586', used 16" anchor, open 1 hour, gas to surface in 5 minutes, too small to gauge, recovered 60' of free oil, 75' of slightly oil and gas cut mud, 120' of heavy oil and gas cut mud, and 60' of slightly oily water and mud, and 60' of salt water, IFF-35, FFP-140, BHP-790 in 30 minutes.			
Green waxy schist	3602	3607	Set and cemented 5 1/2" OD, 14#, SR thd., R-2, J-55, S.S. casing (A cond.) at 3606' with 125 sacks of Pozmix cement. Finished cementing at 8:00 p.m. 5/3/57. Halliburton Temperature Survey showed top of cement behind 5 1/2" casing at 2880'.
<b>TOTAL DEPTH 3607'</b>			
Rigged up cable tools, swabbed and bailed the hole dry and 5 1/2" casing tested dry on May 7. Drilled cement plug to 3601' and ran Lane-Wells Gamma Ray Neutron Survey.			



Perforated 5½" casing from 3590' to 3594' with 25 holes by Lane-wells. Swabbed through 5½" casing off bottom 18 hours, 5 barrels of oil and 27 barrels of water. Ran 2" tubing and set Halliburton retrievable packer at 3560'. Treated through 2" tubing with 250 gallons of Halliburton MCA acid as follows:

ACID TREATMENT NO. 1 - Between 3590' and 3594'

Treatment put in 5/9/57 by Halliburton, using 250 gallons of acid and 20 barrels of oil to fill and flush.

TIME	CF	TP	REMARKS
2:50 pm			Start acid
2:53 pm		1000	Acid on bottom
2:57 pm		850	250 gallons of acid in formation

Cemented off perforations from 3590' to 3594' with 50 sacks of cement, maximum TP-4000%. Pulled 2" tubing and packer and shut down for cement to set.

Swabbed hole dry and drilled cement plug to 3591'. Perforated 5½" casing from 3588½' to 3590' with 8 holes by Lane-wells. Swabbed through 5½" casing off bottom 8 hours, 30 barrels of water with scum of oil. On May 13, swabbed through 5½" casing 12 hours, 1/2 barrel of oil and 21 barrels of water. Treated through 5½" casing with 250 gallons of Halliburton MCA acid as follows:

ACID TREATMENT NO. 2 - Between 3588½' and 3590'

Treatment put in 5/13/57 by Halliburton, using 250 gallons of acid and 90 barrels of oil.

TIME	CF	TP	REMARKS
8:35 pm			Start acid
8:48 pm	400		Hole loaded
10:20 pm	800		Acid on bottom
10:45 pm	550		
10:50 pm	500		
10:55 pm	500		
11:01 pm	500		Treatment completed

Swabbed 1 hour to bottom, 90 barrels of oil used in treating. Swabbed off bottom 5 hours, 2½ barrels of formation oil and 18 barrels of acid and formation water. On May 16, swabbed through 5½" casing off bottom 21 hours, 5 barrels of oil used in treating, 1½ barrels of formation oil and 55 barrels of formation water. On May 15, ran 2" tubing and set Halliburton DM retainer at 3560'. Cemented off perforations from 3588½' to 3590' with 50 sacks of cement, maximum TP-4000%. Pulled 2" tubing and shut down for cement to set.

On May 17, drilled cement retainer at 3560' and drilled cement plug to 3565' and 5½" casing tested dry. Perforated 5½" casing from 3580' to 3584' with 24 holes by Lane-wells. Swabbed through 5½" casing 17 hours, 23 barrels of water with show of oil. On May 19, treated through 5½" casing from 3580' to 3584' with 250 gallons of Halliburton MCA acid as follows:

ACID TREATMENT NO. 3 - Between 3580' and 3584'

Treatment put in 5/19/57 by Halliburton, using 250 gallons of acid and 88 barrels of oil.

TIME	CF	TP	REMARKS
10:50 am	450		Acid on bottom
11:00 am	200		
11:15 am	250		
11:30 am	150		
11:45 am	450		
12:00 m	500		Treatment completed

Swabbed through 5½" casing to bottom 1½ hours, 85 barrels of oil used in treating; then swabbed off bottom 16 hours, 2 barrels of oil used in treating and 41 barrels of acid and formation water. On May 20, ran 2" tubing and set DM cement retainer at 3558'. Cemented off perforations from 3580' to 3584' with 50 sacks of cement, maximum TP-4000%. Pulled 2" tubing and swabbed the hole dry and shut down for cement to set.

On May 23, drilled cement plug to 3580' and 5½" casing tested dry. Perforated 5½" casing from 3575' to 3579½' with 25 holes by Lane-wells. Swabbed off bottom 13 hours, 26 barrels of water with scum of oil. Treated through 5½" casing with 500 gallons of Halliburton MCA acid as follows:

ACID TREATMENT NO. 4 - Between 3575' and 3579½'

Treatment put in 5/24/57 by Halliburton, using 87 barrels of oil and 500 gallons of acid.

TIME	CF	TP	REMARKS
12:00 m			Start acid
12:23 pm	250		Acid on bottom
12:34 pm	450		
1:18 pm	500		500 gallons of acid in



Swabbed through 5 1/2" casing 1 1/2 hours to bottom, 87 barrels of oil used in treating; then swabbed off bottom 13 hours, 1 1/2 barrels of fermentation oil and 54 barrels of acid and fermentation water. On May 25, swabbed through 5 1/2" casing off bottom 21 hours, 1 1/2 barrels of oil and 31 barrels of water. On May 26, swabbed through 5 1/2" casing 19 hours, 1/2 barrel of oil and 45 barrels of water.

PLUGGED BACK TOTAL DEPTH 3560'

Since all probable zones of production were tested with negative results, regular authority was granted to plug and abandon the well.

On June 4, 1957, rigged up machine and plugged the well as follows:

Sand 3580' to 3565'  
5 sacks of cement 3565' to 3530'

Shot off and pulled 2901' of 5 1/2" OD, 14#, 8R thd., R-2, J-55, C.C. casing (90% cond.).

Mud 3530' to 450'  
Rock bridge 450' to 440'  
20 sacks of cement 440' to 382'  
Mud 382' to 20'  
Rock bridge 20' to 15'  
5 sacks of cement 15' to 6'  
Surface soil 6' to 0'

Plugged and abandoned June 6, 1957.

SLOPE TEST DATA: Tests were taken at 250', 500', 750', 1000', 1250', 1500', 2000', 2250', 2500', 2750', 3000' with no deviation from vertical noted.

FILE SEC 20 T 18 R 16W  
BOOK PAGE 16 LINE 13  
PLUGGING

CONSERVATION DIVISION  
MAY 1957