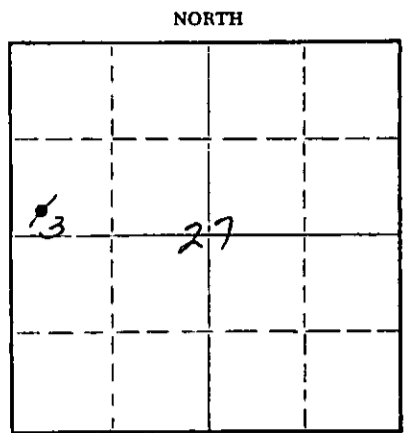


WELL PLUGGING RECORD

Give All Information Completely  
Make Required Affidavit  
Mail or Deliver Report to:  
Conservation Division  
State Corporation Commission  
212 North Market, Insurance Bldg.  
Wichita, Kansas

Ellis County, Sec. 27 Twp. 11S Rge. (E) 19 (W)  
Location as "NE/CNW/SW" or footage from lines S<sup>1</sup>/<sub>4</sub> S<sup>1</sup>/<sub>4</sub> N<sup>1</sup>/<sub>4</sub> S<sup>1</sup>/<sub>4</sub>  
Lease Owner Skelly Oil Company  
Lease Name Vine "A" Well No. 3  
Office Address Box 1650, Tulsa, Oklahoma  
Character of Well (completed as Oil, Gas or Dry Hole) Oil  
Date well completed August 21, 19 49  
Application for plugging filed December 2, 19 59  
Application for plugging approved December 3, 19 59  
Plugging commenced December 9, 19 59  
Plugging completed December 12, 19 59  
Reason for abandonment of well or producing formation Depleted oil well



Locate well correctly on above Section Plat

If a producing well is abandoned, date of last production December 2, 19 59  
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 Topeka Lime Depth to top 3004' Bottom 3007' Total Depth of Well 3530 Feet  
Show depth and thickness of all water, oil and gas formations. PB 3008'

OIL, GAS OR WATER RECORDS				CASING RECORD		
FORMATION	CONTENT	FROM	TO	(O) SIZE	PUT IN	PULLED OUT
Topeka Lime	Oil	3004'	3015'	8-5/8"	1331' 10"	None
Arbuckle Lime	Oil	3527'	3530'	5-1/2"	3553' 4"	2412' 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.

Sand	3008' to 2990'
4 sacks of cement	2990' to 2958'
Mud	2958' to 550'
20 sacks of cement	550' to 480'
Mud	480' to 180'
20 sacks of cement	180' to 120'
Mud	120' to 35'
Rock	35' to 30'
10 sacks of cement	30' to 6'
Surface soil	6' to 0'

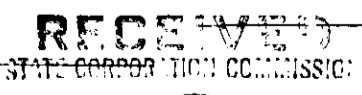
(If additional description is necessary, use BACK of this sheet)  
Name of Plugging Contractor Ace Pipe Pulling Company  
Address Box 304, Great Bend, Kansas

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) [Signature]  
Box 391, Hutchinson, Kansas (Address)

SUBSCRIBED AND SWORN TO before me this 12th day of January, 1960

My commission expires April 7, 1963 Notary Public.



JAN 13 1960

CONSERVATION DIVISION  
Wichita, Kansas

# SKELLY OIL COMPANY

## REPORT OF CHANGE IN WELL RECORD

Give complete description of all cleaning out, deepening, plugging back and fishing jobs, changes in casing, material lost in hole, etc., not recorded in original well record.

LEASE \_\_\_\_\_ WELL NO. \_\_\_\_\_ DISTRICT \_\_\_\_\_

SEC. 27 T. 11 R. 12 COUNTY Illis JOB NO. 3713

SURVEY \_\_\_\_\_ BLOCK \_\_\_\_\_ STATE Illis

CLEANING OUT RECORD					PLUGGING BACK OR DEEPENING RECORD				
Date commenced.....	19.....				Date commenced.....	19.....			
Date completed.....	19.....				Date completed.....	19.....			
Cleaned out from.....	to..... T.D.....				Plugged back or deepened from.....	to..... T.D.....			
Prod. before.....	bbls. oil.....	bbls. water.....	cu. ft. gas.....		Prod. before.....	bbls. oil.....	bbls. water.....	cu. ft. gas.....	
Prod. after.....	bbls. oil.....	bbls. water.....	cu. ft. gas.....		Prod. after.....	bbls. oil.....	bbls. water.....	cu. ft. gas.....	
Kind of tools used:.....					Kind of tools used:.....				
Tools owned by:.....					Tools owned by:.....				

### SHOT RECORD

Date	Size shot	Qt.	Qt.	Qt.	Qt.
Shot between	Ft. and Ft.	Ft. and Ft.	Ft. and Ft.	Ft. and Ft.	Ft. and Ft.
Size of shell					
Put in by (Co.)					
Length anchor					
Distance below casing					
Damage to casing or casing shoulder					

### CHANGES IN CASING RECORD

SIZE	Wt.	Thds.	Where Set	PULLED OUT			LEFT IN			KIND	Cond'n	CEMENTING	
				Jts.	Feet	In.	Jts.	Feet	In.			Sacks Used	Method Employed
5-1/2"	1528		2537	74	2617	D	270		455				
5-1/2"	1528						23	2616	L	455			

Liner set at..... Length..... Perforated at.....

Packer set at..... Size and kind.....

*[Handwritten Signature]*

Superintendent.

REMARKS (Give review of work accomplished and any other comment of interest)

On December 9, 1959, moved in plugging machine of Ace

Pipe Pulling Company and plugged the well as follows:

Sand 3008' to 2990'

4 sacks of cement 2990' to 2958'

Shot off 5 1/2" casing at 2463' and 2400'. Pulled 74 joints (2413') of 5 1/2", 15.5', 38, 3-2, J-55, S.O. casing (3 cond.)

Mud 2958' to 550'

20 sacks of cement 550' to 480'

Mud 480' to 180'

20 sacks of cement 180' to 120'

Mud 120' to 35'

Rock 35' to 30'

10 sacks of cement 30' to 0'

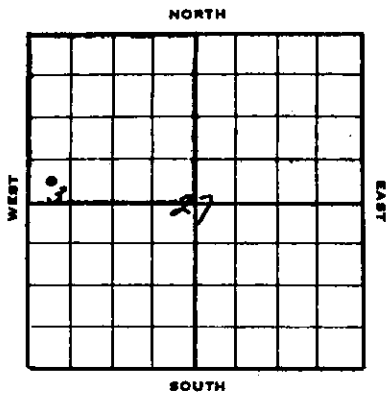
Surface soil 0' to 0'

Plugged and abandoned December 12, 1959.

RECORD OF FORMATIONS

FORMATION	TOP	BOTTOM	REMARKS Indicate Casing Points, Describe Shows of Oil, Gas and Water, etc.
-----------	-----	--------	---

# SKELLY OIL COMPANY



## Well Record

Lease Name and No. **T. Vign "A"** #22780 Well No. **3** Elev. **2015' BM**  
**2018' D.P.**

Lease Description **N 1/4 Section 27-113-19W,**  
**Ellis County, Kansas**

Location made **July 31, 1949** by **Ellis County Engineer**  
 feet from North line \_\_\_\_\_ feet from East line **1/4**  
 feet from South line **330** feet from West line of **Sec. 27**

Work com'd **8/3 1949** Rig com'd **8/4 1949** Drlg. com'd **8/4 1949** Drlg. comp'd **8/16 1949**

Rig Contractor **Claude Wentworth Drilling Company**

Drilling Contractor **Claude Wentworth Drilling Company, Tulsa, Oklahoma**

Rotary Drilling from **Top** to **3530'** Cable Tool Drilling from **To complete** to \_\_\_\_\_

Commenced Producing **August 21, 1949** Initial Prod. before shot or acid **XXXX 2500' OIE in 15 hrs.** Bbls.  
 Initial Prod. after shot or acid **XXXX POB w/ Eohometer to** Bbls.  
**estab. 24 hr. 300 pot. 1637 bbls.**

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

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

Braden Head **(8-5/8" 2500' OIE)** Gas Pressure \_\_\_\_\_ Volume \_\_\_\_\_ Cu. ft.

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

PRODUCING FORMATION **Arbuckle Line** Top **3527'** Bottom **3530'** TOTAL DEPTH **3530'**  
 (Name)

### CASING RECORD

C.I. Size	Wt.	Thds.	Where Set	PULLED OUT			LEFT IN			KIND	Cond'n	Sacks Used	CEMENTING Method Employed
				Jts.	Feet	In.	Jts.	Feet	In.				
8-5/8" 23#	BR	1327'					43	1331	10	E40 R2 B3 A	575	Halliburton	
5-1/2" 15#	BR		(Lot #76)				83	2689	4	355 R2 B3 B			
5-1/2" 15#	BR	3527'					19	864	0	355 R2 RSW A	200	Halliburton	
(8-5/8" casing set 6' in collar and 5 1/2" cemented to horizon floor)													
Used 1 - 5 1/2" OD Larkin 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	<b>6/21/49</b>			
Acid Used	<b>300</b>			
Size Shot	<b>300</b> Qts.			
Shot Between	<b>3527</b> Ft. and <b>3530</b> Ft.			
Size of Shell				
Put in by (Co.)	<b>Dewell Inc.</b>			
Length anchor				
Distance below Cas'g				
Damage to Casing or Casing Shoulder				

**RECEIVED**  
 STATE CORPORATION COMMISSION  
 JAN 13 1960  
 CONSERVATION DIVISION

### SIGNIFICANT GEOLOGICAL FORMATIONS

NAME	Top	Bottom	GAS		OIL		REMARKS
			From	To	From	To	
Topoata Line	3002'				3032'	3038'	Fair por. and stained
Hebaer Shale	3202'						
Toronto Line	3222'						
Lensing Line	3249'						
Conglomerate	3492'						
Simpson Shale	3507'						
Simpson Dolomite	3513'						
Arbuckle Line	3526'				3526'	3530'	Good Por., very dark oil saturation

### 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	Prqd. 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, clay and sand	0	75	
Sand and shale	75	120	
Shale	120	385	
Blue shale	385	760	
Sand	760	1010	
Shale	1010	1095	
Shale and shells	1095	1320	
Anhydrite	1320	1330	<u>TOP ANHYDRITE 1318'</u>
Rearmed 9-7/8" hole to 12-1/4"			
Anhydrite	1330	1332	
Shale and red bed	1332	1715	
Shale	1715	1760	
Salt	1760	1830	
Lime and shale	1830	1960	
Lime	1960	2090	
Shale	2090	2255	
Lime	2255	2865	
Lime and shale	2865	2985	
Lime	2985	3002	
Grey and brown lime	3002	3018	<u>TOP GREY AND BROWN LIME 3002'</u>
			Fair porosity and stained
			Ran Halliburton drill stem test
			with packer set at 3002', open
			30 minutes, recovered 30' of oil
			out mud, no free oil or water,
			WFP-2304.
Line	3018	3460	<u>TOP HARD LIME 3202'</u>
			<u>TOP MEDIUM LIME 3222'</u>
			<u>TOP LAMINATED LIME 3235'</u>
			<u>TOP COARSELY CRYSTALLINE 3237'</u>
			<u>TOP MEDIUM LIME 3270'</u>
			<u>TOP BLUE-GRAY DOLOMITE 3313'</u>
			<u>TOP ANHYDRITE LIME 3326'</u>
Medium coarsely crystal- line dolomite	3326	3530	Good porosity, very dark oil saturation.
TOTAL DEPTH		3530'	

Set and cemented 864' of 5 1/2" OD, 15 lb., 84 thd., J-55, R-2, "A" cond., R.S.C. steel casing; and 2689' of 5 1/2" OD, 15 lb., 84 thd., J-55, R-2, seamless steel casing (B cond.) at 3527' with 200 sacks of cement and 4 sacks of squegel. Finished cementing at 2:30 p.m. 8/16/49.

Rigged up cable tools and bailed the hole dry on August 20, and 5 1/2" casing tested OK. Drilled cement plug and cleaned out to bottom. Hole filled 175' with oil in 1 hour, 250' in 2 hours, 500' in 3 hours, 1000' in 4 hours, and 2500' in 15 hours.

On August 21, ran 2" tubing and treated with 300 gallons of Dowell "AIP-18 H-17" acid as follows:

ACID TREATMENT No. 1 - Between 3327' and 3530'

Treatment put in 8/21/49 by Dowell Inc., using 300 gallons of acid and 20 barrels of oil to fill hole and flush.

TIME	OP	TP	REMARKS
9:00 pm			Filled hole with 20 barrels oil
9:05 pm			Start acid
9:20 pm	30'		acid on bottom
9:28 pm		Var.	Start flush with oil used to fill hole
9:30 pm	30'	25'	42 gallons acid in formation
9:35 pm	25'	Var.	120 gallons acid in formation
9:45 pm	0'	Var.	250 gallons acid in formation
9:47 pm	Var.	Var.	300 gallons acid in formation.

Swabbed through 2" tubing 5 hours, 66 barrels of oil and no water. Ran rods and POB 4 hours, 55 barrels of oil and no water.

On August 23, POB 7 hours, 126 barrels oil and no water; private Echometer test indicated productivity of 1400 barrels.

On August 24, POB 4 hours, 68 barrels of oil and no water. On August 25, POB 3 hours, 58.27 barrels oil and no water to establish high rate on State Corporation Commission draw down potential test. POB 3 hours, 37.46 barrels oil and no water to establish intermediate rate; and POB 3 hours, 13.87 barrels oil and no water to establish low rate. Established 24 hour R.C.C. potential of 1657 barrels. Allowable 25 barrels per day for remainder of August, 1949.

SLOPE TEST DATA: Tests were taken at 250' intervals from 200' to 3200' inclusive, with no deviation from vertical noted.

## DEEPENING RECORD

Date Commenced: August 16, 1953  
Date Completed: September 25, 1953

Deepened From: 3530' to 3539' TOTAL DEPTH 3539'

Production before: 3 barrels of oil and 297 barrels of water  
Production after: 12 barrels of oil and 99 barrels of water

Producing From: Arbuckle Lime

- - -

On August 16, 1953, pulled rods and tubing. Ran 2" tubing with Halliburton HM packer, set packer at 3470', unable to pump into annulus at 900#. Pulled tubing and packer and ran Gamma Ray Survey.

On August 18, set bridging plug at 3515' and perforated 5 1/2" casing from 3494' to 3504' with 90 holes by Lane-wells, no change in fluid. Bailed hole dry, tested 1/2 barrel of fluid per hour with trace of oil. Ran 2" tubing, filled hole with 80 barrels of oil, set Halliburton HM packer at 3460' and ran Sand-Oil-Free treatment as follows:

SAND-OIL-FREE TREATMENT NO. 1 - Between 3494' and 3504'

Used 300 gallons of Halliburton 15% acid  
60 barrels of heavy oil  
2000# of sand  
61 barrels of oil to flush  
Maximum TP-3200#, minimum TP-2600#, final TP-1200#  
Time 32 minutes  
Used total 209 barrels oil

Pulled tubing and packer, bailed and cleaned up hole. Ran 2" tubing and rods and on August 22, P/B 13 hours, 68 barrels of oil used in treating, no water. On August 23, P/B 8 hours, 35 barrels of oil and 2 barrels of water, well quit pumping.

Pulled rods and ran fluid pack pump. P/B 8 hours, 10 barrels of oil with trace of water and well quit pumping. Pulled rods and tubing, bailed and cleaned up hole 6 hours and bailed hole dry; tested 2 gallons of oil per hour, 10% water.

On August 27, ran 2" tubing and set Halliburton DM retainer at 3463'. Pressured annulus to 900#, input below tool 3 barrels per minute at 1000#-TP. Ran 200 sacks of common cement and forced 182 sacks below tool at 1800#-TP. Reversed out 18 sacks, pulled tubing and shut down for cable tools.

Moved in cable tools of W. L. Copeland on September 12, and swabbed and bailed hole dry, 5 1/2" casing tested dry. Drilled retainers, cement plug, and cleaned out to 3530'.

Ran 2" tubing and set Halliburton DM retainer at 3460'. Cemented off Arbuckle Lime with 75 sacks of cement, 2% calcium chloride, pressured to 1500#, estimated 25 sacks below packer, reversed out 50 sacks of cement. Finished 4:00 p.m. 9/14/53. Pulled 2" tubing and shut down for cement to set.

On September 16, bailed hole dry to 3280' and 5 1/2" casing tested dry. Drilled cement plug and cleaned out to bottom, TD-3530'. Tested 15 gallons of oil and 6 barrels of water per hour. Drilled deeper:

Gray and brown medium crystalline dolomite	3530	3532	Fair porosity and saturation. Swabbed through 5 1/2" casing 12 hours, 24 barrels oil and 48 barrels of water.
--	------	------	---

On September 18, ran 2" tubing and rods and P/B 16 hours, 14 barrels of oil and 103 barrels of water. On September 19, P/B 14 hours, 15 barrels of oil and 131 barrels of water. Pulled rods and 2" tubing. Ran 2" tubing with Halliburton DM retainer, set retainer at 3485' and cemented off Arbuckle Lime with 50 sacks of common cement and 2% calcium chloride, estimated 17 sacks of cement below tool at 1500# pressure. Reversed out estimated 33 sacks. Finished 1:00 p.m. 9/20/53. Pulled 2" tubing and shut down for cement to set.

On September 22, swabbed and bailed 5 1/2" casing to 3484', 5 1/2" casing tested dry. Drilled up Halliburton DM retainer set at 3484', then drilled cement from 3484' to 3532'. Bailed and cleaned out hole to 3532' and drilled deeper:

Gray and brown medium coarsely crystalline dolomite	3532	3539	Fair porosity and saturation. Swabbed through 5 1/2" casing 14 hours, 21 barrels of oil and 162 barrels of water.
---	------	------	---

Ran 2" tubing and rods and POB 15 hours, 23 barrels of oil and 178 barrels of water. On September 25, POB 8 hours, 12 barrels of oil and 99 barrels of water. Moved out cable tools.

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Swabbed through 5½" casing 7 hours, 87 barrels of oil used in treating; then bailed and tested 5 hours, 5 gallons of water per hour.

Set Baker bridging plug at 3260', 5½" casing tested dry. Perforated 5½" casing from 3222' to 3226' with 36 holes by Lane-wells, no shows. Treated through 5½" casing with 500 gallons of Halliburton 15% acid as follows:

ACID TREATMENT NO. 5 - Between 3222' to 3226'

Treatment put in 6/5/55 by Halliburton, using 500 gallons of acid and 78 barrels of oil.

TIME	CP	TP	REMARKS
11:11 am			Start to load hole
11:32 am			Acid on formation
11:33 am	300		Start flush
12:25 pm	400		1 barrel of oil in to flush
12:30 pm	800		2½ barrels of oil in to flush
12:33 pm	400		5 barrels of oil in to flush
12:36 pm	400		7 barrels of oil in to flush
12:39 pm	400		12 barrels of oil in to flush.

Swabbed through 5½" casing 5 hours, 78 barrels of oil used in treating; then bailed and tested 5 hours, 1 gallon of water per hour.

Set Baker bridging plug at 3030', 5½" casing tested dry. Perforated 5½" casing from 3004' to 3015' with 99 holes by Lane-wells; tested 1 gallon of oil per hour. Treated through 5½" casing with 500 gallons of Halliburton 15% acid as follows:

ACID TREATMENT NO. 6 - Between 3004' and 3015'

Treatment put in 6/6/55 by Halliburton, using 500 gallons of acid and 78 barrels of oil.

TIME	CP	TP	REMARKS
11:55 am			Acid in, start to load hole
12:14 pm			Hole loaded
12:16 pm			Start flush
12:22 pm	250		
12:45 pm	250		2 barrels of oil in to flush
12:55 pm	200		4 barrels of oil in to flush
1:00 pm	200		7 barrels of oil in to flush
1:02 pm	200		8½ barrels of oil in to flush
1:04 pm			Flushed with 12 barrels of oil

Swabbed through 5½" casing 2 hours, 78 barrels of oil used in treating; then swabbed 1½ hours, 175 barrels of oil (30° gravity) and no water.

On June 7, ran 2" tubing and rods and POB 15 hours, 287 barrels of oil and no water, two point draw down by Depthograph indicated productivity of 8,100 barrels. Shut down for State Corporation Commission umpire to take potential.

On June 9, POB 6 hours, 114 barrels of oil and no water. On June 10, POB 2 hours on pretest, 37½ barrels of oil and no water; then POB 9 hours on S.C.C. draw down potential, 115.17 barrels of oil, no water, for indicated productivity of 13,676 barrels. Established 24 hour S.C.C. maximum potential of 3000 barrels. Daily allowable 25 barrels.

PLUGGED BACK TOTAL DEPTH 3030'



PLUGGING BACK RECORD

Date Commenced: May 31, 1955  
 Date Completed: June 10, 1955

Production Before: 3 barrels of oil and 297 barrels of water per day  
 Production After: POB 9 hrs. on S.C.C. drawdown potential, 115.17  
 barrels oil, no water, for indicated productivity  
 13,676 barrels, to establish S.C.C. maximum potential  
 of 3000 barrels.

Plugged back from 3539' to 3030' PB TD-3030'

5 1/2" casing perforations open below bridging plug at 3030': 3222'-3226'  
 with 36 holes, 3272'-3279' with 63 holes, 3288'-3298' with 90 holes,  
 and 3400'-3411' with 99 holes.

5 1/2" casing perforations open above bridging plug at 3030': 3004'-3015'  
 with 99 holes.

Producing Formation: Topoka Lime

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On May 31, 1955, moved in tools of Red Crow Drilling Company,  
 pulled rods and 2" tubing. Set Baker bridging plug at 3425' and swabbed  
 and bailed hole dry, 5 1/2" casing tested dry.

Perforated 5 1/2" casing from 3400' to 3411' with 99 holes by Lane-  
 wells; hole tested dry. Treated through 5 1/2" casing with 500 gallons  
 of Halliburton 15% acid as follows:

ACID TREATMENT NO. 2 - Between 3400' and 3411'

Treatment put in 6/2/55 by Halliburton, using 500 gallons of acid  
 and 82 barrels of oil.

TIME	CP	TP	REMARKS
11:08 am			Start acid
11:11 am			Acid in, start to fill hole
11:34 am	250		Hole loaded
11:35 am	500		Start flush
11:40 am	700		
11:48 am	500		100 gallons of acid in
11:54 am	450		336 gallons of acid in
11:58 am	450		500 gallons of acid in

Swabbed through 5 1/2" casing 2 hours, 82 barrels of oil used in  
 treating with trace of water. Bailed and tested 12 hours, 10 gallons  
 of water per hour.

Set Baker bridging plug at 3330', 5 1/2" casing tested dry. Perforated  
 5 1/2" casing from 3288' to 3298' with 90 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 3288' and 3298'

Treatment put in 6/3/55 by Halliburton, using 500 gallons of acid  
 and 80 barrels of oil.

TIME	CP	TP	REMARKS
12:40 pm			500 gallons of acid in
1:02 pm			acid on formation
1:49 pm	250		20 gallons of acid in formation
2:01 pm	400		25 gallons of acid in formation
2:13 pm	350		330 gallons of acid in formation
2:18 pm	350		500 gallons of acid in formation

Swabbed through 5 1/2" casing 8 hours, 78 barrels of oil used in  
 treating and swabbed hole dry; then bailed and tested 7 hours, 1 gallon  
 of oil and 25 gallons of water per hour.

On June 4, set Baker bridging plug at 3284', 5 1/2" casing tested dry.  
 Perforated 5 1/2" casing from 3272' to 3279' with 63 holes by Lane-wells,  
 no shows. Treated through 5 1/2" casing with 500 gallons of Halliburton  
 15% acid as follows:

ACID TREATMENT NO. 4 - Between 3272' and 3279'

Treatment put in 6/4/55 by Halliburton, using 500 gallons of acid  
 and 82 barrels of oil.

TIME	CP	TP	REMARKS
11:41 am			500 gallons of acid in, start load hole
12:01 pm	150		Acid on formation
12:30 pm	400		
1:10 pm	400		189 gallons of acid in formation
1:15 pm	400		290 gallons of acid in formation
1:18 pm	400		390 gallons of acid in formation
1:24 pm	400		500 gallons of acid in formation

WELL NO. 3 (Ellis Co., Kans.)

Sheet No. 4

## PERFORATING AND PLUGGING BACK RECORD

Date Commenced: October 29, 1956  
Date Completed: November 11, 1956

Plugged back from 3030' to 3008' FS 10-3008'

Production Before: 14 barrels of oil and 326 barrels of water.  
Production After: 27 barrels of oil and 25 barrels of water

5 1/2" casing perforations open above plug: 3004' to 3007' with 21 holes

Producing formation: Topeka lime

- - - - -

On October 29, 1956, pulled rods and 2" tubing. Ran 2" tubing and set BM retainer at 2974'. Cemented off perforations in 5 1/2" casing from 3004' to 3015' with 125 sacks of special oil well cement, estimated 85 sacks below retainer at 1200', reversed out 40 sacks. Pulled 2" tubing and shut down for cable tools.

On November 1, moved in cable tools of L. L. Copeland, swabbed hole dry to top of retainer at 2974', 5 1/2" casing tested dry. Drilled retainer and cement plug to 3010'. Sealed hole dry and perforated 5 1/2" casing from 3004' to 3009' with 45 holes by Lane-wells, no shows. Treated through 5 1/2" casing with 500 gallons of Halliburton 15% acid as follows:

ACID TREATMENT No. 7 - Between 3004' and 3009'

Treatment put in 11/2/56 by Halliburton, using 500 gallons of acid and 73 barrels of oil.

TIME	GF	IF	REMARKS
12:24 pm			Start acid
12:31 pm			Acid in
12:45 pm			acid on bottom
3:51 pm	250		
3:58 pm	100		290 gallons of acid in formation
4:01 pm	50		500 gallons of acid in formation

Swabbed through 5 1/2" casing 3 hours, 73 barrels of oil used in treating; then swabbed 8 hours, 4 1/2 barrels of oil and 4 1/2 barrels of water. Retreated through 5 1/2" casing with 1000 gallons of Halliburton 15% acid as follows:

ACID TREATMENT No. 8 - Between 3004' and 3009'

Treatment put in 11/3/56 by Halliburton, using 1000 gallons of acid and 74 barrels of oil.

TIME	GF	IF	REMARKS
11:42 am			Start acid
11:47 am			1000 gallons of acid in
11:56 am			acid on formation
11:48 am			250 gallons of acid in formation
12:30 pm			1000 gallons of acid in formation

Swabbed through 5 1/2" casing 2 hours, 74 barrels of oil used in treating, show of water; then swabbed through 5 1/2" casing 10 hours, 20 barrels of oil and 106 barrels of water.

Ran 2" tubing and rods and on November 4, ran 13 hours, 5 barrels of oil and 204 barrels of water. On November 5, ran 6 hours, 1 barrel of oil and 114 barrels of water. Pulled rods and 2" tubing. Ran 2" tubing and set Halliburton BM retainer at 2974' and cemented off perforations from 3004' to 3009' with 200 sacks of special oil well cement, pulled 2" tubing and shut down for cement to set.

Swabbed and bailed hole dry to top of retainer at 2974', 5 1/2" casing tested dry. Drilled out BM retainer at 2974' and cement to 3008', hole tested dry. Perforated 5 1/2" casing from 3004' to 3007' with 9 Lane-wells 2-2 holes, tested dry. Ran 400' of oil in hole and perforated 5 1/2" casing from 3004' to 3007' with 12 Lane-wells 2-2 holes. Swabbed hole dry, tested dry. Treated through 5 1/2" casing with 500 gallons of Halliburton 15% acid as follows:

ACID TREATMENT No. 9 - Between 3004' and 3007'

Treatment put in 11/9/56 by Halliburton, using 500 gallons of acid and 63 barrels of oil.

TIME	GF	IF	REMARKS
5:34 pm			Start acid
5:37 pm			500 gallons of acid in
5:47 pm			acid on formation
5:49 pm	1000		
5:50 pm	1200		
5:56 pm	1500		
6:14 pm	1500		
9:19 pm	500		150 gallons of acid in formation
9:23 pm	700		500 gallons of acid in formation

Swabbed 3 hours, 63 barrels of oil used in treating with trace of water; then swabbed 6 hours, 12 barrels of oil and 1 1/2 barrels of water. Retreated through 5 1/2" casing with 750 gallons of Halliburton 15% acid as follows:

ACID TREATMENT Nov. 10 - Between 3004' and 3007'

Treatment put in 11/10/56 by Halliburton, using 750 gallons of acid and 86 barrels of oil.

TIME	OP.	REMARKS
11:39 am		Start acid
11:52 am		Acid on bottom
11:54 am	Vac.	100 gallons of acid in formation.
11:56 am	Vac.	160 gallons of acid in formation
12:05 pm	100	200 gallons of acid in formation
12:11 pm	150	400 gallons of acid in formation
12:36 pm	300	750 gallons of acid in formation

Swabbed through 5 1/2" casing 3 hours, 86 barrels of oil used in treating with trace of water; then swabbed 4 hours, 12 barrels of oil with trace of water.

Run 2" tubing and rods and on November 10, PDB 4 hours, 14 barrels of oil and 14 barrels of water. On November 11, PDB 24 hours, 27 barrels of oil and 25 barrels of water.

ACID BACK TOTAL DEPTH 3003'