

see

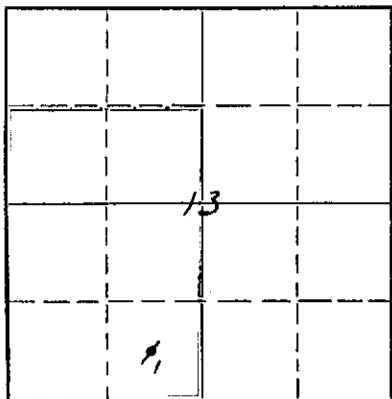
WELL PLUGGING RECORD

Give All Information Completely
Make Required Affidavit
Mail or Deliver Report to:
Conservation Division
State Corporation Commission
800 Biting Building
Wichita, Kansas

Barber County, Sec. 13 Twp. 33S Rge. (E) 12 (W)

Location as "NE/CNW%SW%" or footage from lines C SE/4 SW/4
Lease Owner Skelly Oil Company
Lease Name Len Groendycke Well No. 1
Office Address Box 1650, Tulsa, Oklahoma
Character of Well (completed as Oil, Gas or Dry Hole) Dry Hole
Date well completed November 23, 19 53
Application for plugging filed November 3, 19 53
Application for plugging approved November 4, 19 53
Plugging commenced November 20, 19 53
Plugging completed November 24, 19 53
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. M. A. Rives
Producing formation _____ Depth to top _____ Bottom _____ Total Depth of Well 4557 Feet
Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS

CASING RECORD

FORMATION	CONTENT	FROM	TO	SIZE	PUT IN	PULLED OUT
Tonganoxie	Dry	3712'	3798'	8-5/8"	510'0"	None
				5-1/2"	4593'3"	3864'0"

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.

Cement	4557' to 4526'
Sand	4526' to 4470'
5 sacks of cement	4470' to 4450'
Mud laden fluid	4450' to 300'
Rock and 20 sacks of cement	300' to 240'
Mud laden fluid	240' 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 West Supply Company
Address Chase, Kansas

STATE OF Kansas, COUNTY OF Reno, ss.
H. E. Wamsley (employee of owner or owner's agent) 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.

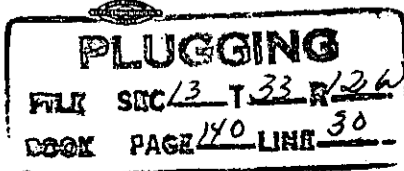
(Signature) _____
Box 391, Hutchinson, Kansas
(Address)

SUBSCRIBED AND SWORN TO before me this 8th day of December, 19 53

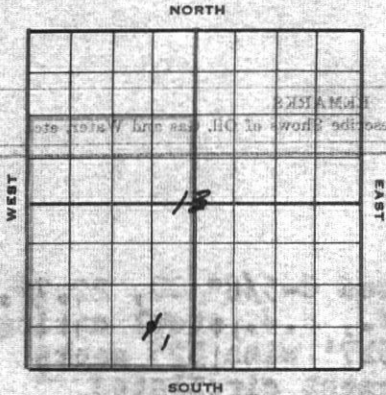
My commission expires April 7, 1955

Josephine L. Johnson
Notary Public.

24-7368-S 3-53-20M



SKELLY OIL COMPANY



Well Record FORMATION **1439'BB**
1437'BF
1432'BH
 Lease Name and No. **Len Groendycke #32365** Well No. **1** Elev. **1432'BH**
 Lease Description **SW/4 & S/2 SW/4 Section 13-33-12W, Barber County, Kansas (240 Acres)**
 Location made **July 31, 1953** by **Barber County Engineer**
 feet from North line **660** feet from East line **SW/4**
660 feet from South line feet from West line of **sec. 13**

Work com'd. **8/2 1953** Rig com'd. **8/3 1953** Drlg. com'd. **8/3 1953** Drlg. comp'd. **8/23 1953**

Rig Contractor **Chas. Hulme Drilling Company**

Drilling Contractor **Chas. Hulme Drilling Contractor, Great Bend, Kansas**

Rotary Drilling from **0'** to **4557'** Cable Tool Drilling from **To complete** to

Commenced Producing **DRY HOLE** 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 (**1-5/8" x 31" OD**) Gas Pressure Volume Cu. ft.

Braden Head () Gas Pressure Volume Cu. ft.

PRODUCING FORMATION **DRY HOLE** (Name) Top Bottom TOTAL DEPTH **4557'**

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
8-5/8"	22.7	84	517'				13	510	0	Araco SW	A	325	Halliburton
5-1/2"	14.7	88	4557'	22	3864	0	23	729	3	H2 SS	A	100	Halliburton
(8-5/8" casing set 3' in cellar and 5 1/2" cased to derrick floor)													

Used **1 - 5 1/2" OH 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	9/1/53	9/2/53	9/13/53	
Acid Used Size Shot	250	250	500	
Shot Between	4473 Ft. and 4488 Ft.	4473 Ft. and 4488 Ft.	4474 Ft. and 4484 Ft.	
Size of Shell				For remaining treatments see remarks
Put in by (Co.)	Halliburton	Halliburton	Halliburton	
Length anchor				
Distance below Cas'g		Sand-Oil-Frac		
Damage to Casing or Casing Shoulder				

SIGNIFICANT GEOLOGICAL FORMATIONS

NAME	Top	Bottom	GAS		OIL		REMARKS
			From	To	From	To	
Elgin Sand	3452'						
Heebner Shale	3623'						
Tonganoxie Sand	3712'						
Lansing Lime	3798'						
Mississippi Lime	4474'						

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)

Fidelity Oil & Gas

RECORD OF FORMATIONS

FORMATION

TOP

BOTTOM

REMARKS

Indicate Casing Points, Describe Shows of Oil, Gas and Water, etc.

Surface sand and gravel	0	60	
Red bed	60	275	
Shale and shells	275	517	Set and cemented 8-5/8" OD, 22.7/8, R-3, Ironco S.W., S.J. steel casing (A cond.) at 517' with 325 sacks of cement. Cement circulated.
Shale, shells and salt	517	1400	
Sandy lime	1400	1620	
Lime	1620	2090	
Shale	2090	2265	
Lime and shale	2265	2425	
Shale	2425	2910	
Lime	2910	3355	
Lime and shale	3355	3452	<u>TOP ELGIN SAND 3452'</u>
Gray shaley micaceous sand, very fine grained	3452	3475	Very poor porosity, no stain Ran Halliburton drill stem test, packer set at 3443', used 34' anchor, open 1 hour 15 mins., recovered 3' rotary mud, SHP-1525. <u>TOP HERBERT SHALE 3423'</u> <u>TOP TONGANILIA SAND 3712'</u>
Sand and shale	3475	3712	
Gray to white, medium grained pure sand	3712	3722	Good porosity, no stain, no odor Ran Halliburton drill stem test, packer set at 3710', used 12' anchor, open 30 minutes, good blow for 30 minutes, recovered 2900' of salt water, initial flow 513%, final flow 1445%, SHP-1525. <u>TOP LANSING 3798'</u>

Sand	3722	3798	
Lime	3798	4280	
Lime and sandy shale	4280	4318	
Lime and shale	4318	4400	
Shale, lime and sand	4400	4438	
Shale and lime	4438	4470	
Fresh and weathered chert	4470	4480	<u>TOP MISSISSIPPI LIME 4474'</u> Poor pinpoint porosity, good vugular saturation, stain and fair odor.

Chert and lime	4480	4550	
Chert and shale	4550	4557	Ran Halliburton drill stem test, packer set at 4484', open 1 hour, strong blow throughout, recovered 2350' of slightly gas cut salt water, initial flow 48%, final flow 1168%, SHP-1793. <u>Ran Schlumberger Survey</u> Set and cemented 5 1/2" OD, 14 1/2, SR thd., R-2, JAL S.S. casing (A cond.) at 4557' with 100 sacks of regular cement and 2- squagel. Finished cementing at 12:00 p.m. 8/24/53. Halliburton Temperature Survey showed top of cement behind 5 1/2" casing at 3880'. Rigged up cable tools and bailed the hole dry on August 30. Drilled cement plug and cleaned out to 4527' and 5 1/2" casing tested dry. Perforated 5 1/2" casing from 4473' to 4488' with 90 holes by Lane-Wells. Bailed and tested 14 hours, 5 gallons of free oil and 1 quart of drilling fluid per hour. On August 31, bailed and tested 3 hours, 5 gallons of free oil and no water per hour. Ran 2" tubing and set Halliburton MW packer at 4451'. Loaded hole with 81 barrels of oil, then treated with 250 gallons of acid as follows: <u>ACID TREATMENT NO. 1 - Between 4473' and 4488'</u> Treatment put in 9/1/53 by Halliburton, using 250 gallons of acid 105 barrels of oil to fill hole and flush.

Chert and shale	4550	4557	
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ACID TREATMENT NO. 1 - Between 4473' and 4488'
Treatment put in 9/1/53 by Halliburton, using 250 gallons of acid 105 barrels of oil to fill hole and flush.

TIME	CP	REMARKS
12:40 pm	500	Filled hole with 81 barrels oil
12:45 pm	500	Start acid
12:59 pm	500	70 gallons of acid in
1:05 pm	500	150 gallons of acid in
1:16 pm	500	250 gallons of acid in
		Flushed with 24 barrels of oil

Swabbed through 2" tubing 3 1/2 hours, 20 barrels of oil used in treating. On September 1, swabbed through 2" tubing 2 1/2 hours, 4 barrels of oil used in treating and 2 barrels of spent acid water. On September 2, ran Halliburton Sand-Oil-Frac as follows:

SAND-OIL-FRAC TREATMENT NO. 1 - Between 4473' and 4488'

Used 40 barrels heavy crude
 82 barrels light crude
 2400# of sand
 Maximum TP-3500#, minimum TP-2700#
 Time 21 minutes

Attempted to pull 2" tubing and Halliburton packer and well started flowing. Reset HM packer at 4361', then flowed through 2" open tubing 16 hours, 40 barrels of oil used in treating, 72 barrels of formation oil and 40 barrels of water. On September 4, flowed through open 2" tubing 13 hours, 26 barrels of oil and 104 barrels of water. On September 5, unseated HM packer at 4361'. Loaded hole with water and pulled tubing and packer. Ran 2" tubing open end to 4520' and balance cemented off perforations from 4473' to 4488' with 30 sacks of cement. Pulled 90' of tubing, reversed out 6 sacks of cement and pulled balance of tubing

On September 9, bailed hole dry, drilled cement plug and cleaned out to 4484'. Bailed and tested 14 hours, 1/2 gallon of water with scum of oil per hour. On September 11, bailed and tested 6 hours, 1 gallon of water with slight scum of oil per hour. Perforated 5 1/2" casing from 4474' to 4484' with 60 holes by Lane-Wells. Bailed and tested 12 hours, 1 gallon of water with slight scum of oil per hour. Correction: PB TD-4484' equals PB TD-4485'SLM. On September 12, bailed and tested 5 hours, 1 gallon of salt water with slight scum of oil per hour. Reperforated 5 1/2" casing from 4474' to 4484' with 28 holes by Lane-Wells cone shots. Bailed and tested 13 hours, 1 gallon of water with light scum of oil.

On September 13, treated through 5 1/2" casing from 4474' to 4484' with 500 gallons of Halliburton 15% acid as follows:

ACID TREATMENT NO. 2 - Between 4474' and 4484'

Treatment put in 9/13/53 by Halliburton, using 500 gallons of acid and 110 barrels of oil to fill hole and flush.

TIME	CP	REMARKS
9:10 am	Vac.	Start acid
9:40 am	500#	Acid on bottom
9:45 am	900#	150 gallons of acid
10:00 am	900#	500 gallons of acid

Swabbed through 5 1/2" casing 7 hours, 110 barrels of oil used in treating and 100 barrels of salt water. Tried to run 2" tubing with Halliburton DM retainer set at 4020', unable to unseat retainer. Pulled tubing, then drilled and drove retainer to bottom. On September 15, ran 2" tubing and set Halliburton DM retainer at 4455' and cemented off perforations from 4474' to 4484' with 100 sacks of cement, TP-3500#. Pulled tubing and shut down for cement to set.

On September 19, bailed hole dry, drilled cement plug and cleaned out to 4526' and 5 1/2" casing tested dry. On September 20, perforated 5 1/2" casing from 4484' to 4488' with 24 holes by Lane-Wells. Bailed and tested 2 hours, no shows. Perforated 5 1/2" casing from 4488' to 4492' with 23 holes by Lane-Wells, bailed and tested 12 hours, no shows. Ran 2" tubing and set Halliburton HM packer at 4455'. Loaded hole with oil, then ran 250 gallons of Halliburton MCA acid from 4484' to 4492', then followed with Sand-Oil-Frac treatment as follows:

ACID TREATMENT NO. 3 - Between 4484' and 4492'

Treatment put in 9/21/53 by Halliburton, using 250 gallons of acid and 110 barrels of oil to fill hole.

TIME	CP	TP	REMARKS
2:30 pm			Start acid
2:49 pm	500#	1800#	Acid on bottom
2:55 pm	500#	1500#	100 gallons of acid in
3:05 pm	500#	1500#	250 gallons of acid in

SAND-OIL-FRAC TREATMENT NO. 2 - Between 4484' and 4492'

Used 1500# of sand
 30 barrels of heavy crude oil
 Maximum TP-4000#, minimum TP-2250#
 Used 58 barrels of oil to fill hole and flush
 Time 32 minutes

Pulled 2" tubing and packer and swabbed through 5 1/2" casing 14 hours, 145 barrels of oil used in treating. On September 23, perforated 5 1/2" casing from 4492' to 4497' with 30 holes by Lane-Wells. Bailed and tested 14 hours, 35 gallons of oil and 260 gallons of water. On September 24, ran 2" tubing and set Halliburton HM packer at 4455'. Ran Halliburton Sand-Oil-Frac treatment from 4484' to 4497' as follows:

ROCK WYCK TIME 30
 DATE DEC 13 1953
 BRIGGINS

SAND-OIL-FRAC TREATMENT NO. 3 - Between 4492' and 4497'

Used 60 barrels of heavy crude oil
 4000' of sand
 Maximum FP-3200', broke to 2600'
 Used 265 barrels of oil to fill and flush
 Time 45 minutes

Pulled tubing and packer and swabbed through 5 1/2" OD casing 13 hours, 205 barrels of oil used in treating and 5 barrels of salt water. On September 26, swabbed through 5 1/2" casing 24 hours, 55 barrels of oil used in treating, 25 barrels of formation oil and 85 barrels of water, gas gauged 140 M.C.F. Ran 2" tubing and moved out cable tools.

Installed tank battery and regular surface pumping equipment, and on October 19, POB 20 hours, 5 barrels of oil and 98 barrels of water. On October 20, POB 24 hours, 20 barrels of oil and 125 barrels of water. On October 21, POB 24 hours, 18 barrels of oil and 82 barrels of water. On October 22, POB 24 hours, 5 barrels of oil and 40 barrels of water. On October 23, POB 24 hours, 2 barrels of oil and 100 barrels of water. During the next 10 days the well pumped 24 hours per day, no oil and 100 barrels of water daily. Since all probable zones of production had been tested in the well, regular authority was granted to plug and abandon the well.

Moved in and rigged up machine of West Supply Company on November 20, 1953, and plugged the well as follows:

Sand 4526' to 4470'
 5 sacks of cement 4470' to 4450'

Shot off 5 1/2" casing at 3839' and pulled 122 joints (3864') of 5 1/2" OD, 14#, SR thd., R-2, J-55, S.S. casing (3 cond.).

Mud laden fluid 4450' to 300'
 Rock and 20 sacks of cement 300' to 240'
 Mud laden fluid 240' to 30'
 10 sacks of cement 30' to 6'
 Surface soil 6' to 0'

Plugged and abandoned November 24, 1953.

SLOPE TEST DATA

DEPTH	ANGLE OF DEFLECTION
300'	0 Degrees
750'	0 "
1000'	0 "
1250'	1/2 "
1500'	1/2 "
1750'	1/2 "
2000'	1/2 "
2250'	0 "
2500'	1/2 "
2750'	0 "
3000'	0 "
3500'	0 "
4000'	1/2 "

SAND-OIL-FRAC TREATMENT NO. 2 - Between 4492' and 4497'

Used 60 barrels of heavy crude oil
 4000' of sand
 Maximum FP-3200', broke to 2600'
 Used 265 barrels of oil to fill and flush
 Time 45 minutes

SAND-OIL-FRAC TREATMENT NO. 1 - Between 4492' and 4497'

Used 60 barrels of heavy crude oil
 4000' of sand
 Maximum FP-3200', broke to 2600'
 Used 265 barrels of oil to fill and flush
 Time 45 minutes

PLUGGING
 PHL SEC 131 33M 12W
 1/2 LINE 30
 BOOK PAGE

31/10/53