

STATE OF KANSAS
STATE CORPORATION COMMISSION

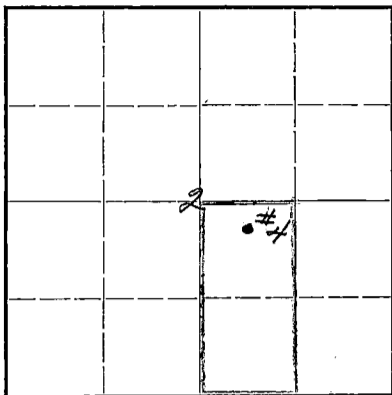
WELL PLUGGING RECORD

Give A... Information Completely
Make Request... Affidavit
Mail or Deliver Report to:
Conservation Division
State Corporation Commission
800 Bitting Building
Wichita, Kansas

FORMATION PLUGGING RECORD

Strike out upper line
when reporting plug-
ging off formations.

NORTH



Locate well correctly on above
Section Plat

Stafford County. Sec. 2 Twp. 24S Rge. (E) 11 (W)
Location as "NE 1/4 NW 1/4 SW 1/4" or footage from lines C N 1/2 NW 1/4 SE 1/4
Lease Owner Skelly Oil Company
Lease Name L. McNickle Well No. 4
Office Address Box 391, Hutchinson, Kansas
Character of Well (completed as Oil, Gas or Dry Hole) Oil Well
Date well completed November 8 19 40
Application for plugging filed October 17 19 44
Application for plugging approved October 18 19 44
Plugging commenced November 6 19 44
Plugging completed November 11 19 44
Reason for abandonment of well or producing formation Depleted oil well
If a producing well is abandoned, date of last production October 4 19 44
Was permission obtained from the Conservation Division or its agents before plugging was com-
menced? Yes

Name of Conservation Agent who supervised plugging of this well H. W. Kerr
Producing formation Viola Lime Depth to top 3678' Bottom 3726' Total Depth of Well 3738 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
Lansing Lime	Por. & stained	3456'	3468'	13"OD	202'4"	None
	" & sat.	3502'	3513'	10-3/4"OD	271'0"	None
Viola Lime	" & "	3678'	3726'	5 1/2"OD	3708'2"	1815'1"

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 hold. If cement or other plugs were used, state the character of same and depth placed, from..... feet to

feet for each plug set.

Set bridging plug at 3602' 3738' to 3602'
1 sack cement on top plug 3602' to 3595'
Set bridging plug at 3489' 3595' to 3489'
5 sacks cement 3489' to 3442'
Mud laden fluid 3442' to 2909'
Pumped plug (wood plug) to spot oil
behind casing to 2907'
Mud laden fluid 2907' to 270'
Wood plug 270' to 268'
15 sacks cement 268' to 223'
Mud laden fluid 223' to 26'
10 sacks cement 26' to 6'
Surface soil and rock 6' to 0.

PLUGGING
2 24 11W
135 22

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

Correspondence regarding this well should be addressed to Skelly Oil Company
Address Box 391, Hutchinson, Kansas

STATE OF KANSAS, COUNTY OF RENO, ss.
H. E. Wamsley (employee of owner) for (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)

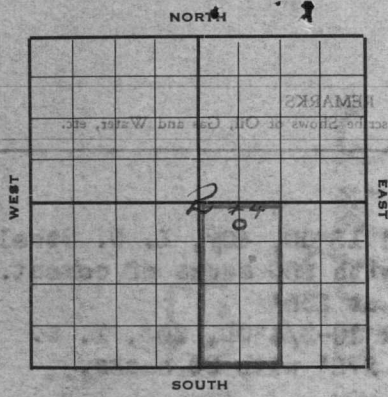
SUBSCRIBED AND SWORN to before me this 13th day of February 19 45

My commission expires August 4, 1945.

FEB 14

2-14-45

SKELLY OIL COMPANY



Well Record

Lease Name and No. **L. McNickle #19530** Well No. **4** Elev. **1809' DF**

Lease Description **W/2, SE/4, Sec. 2-24S-11W**

Stafford County, Kansas

Location made **Oct. 7, 1940** by **Floyd Kent**

550 feet from North line feet from East line **W/2 SE/4**

feet from South line **660** feet from West line of **Sec. 2**

Rig com'd **Oct. 8, 1940** Rig comp'd **Oct. 10, 1940** Drlg. com'd **Oct 10, 1940** Drlg. comp'd **Nov. 6, 1940**

Rig Contractor **Rig built by drilling contractor**

Drilling Contractor **Bodine Drilling Company, Great Bend, Kansas**

Rotary Drilling from **Top** to **3680'** Cable Tool Drilling from **3680'** to **3738'**

Commenced Producing **November 8, 1940** { Initial Prod. before shot or acid **Flowed 1 hr., 4 bbls. oil** Bbls.
Initial Prod. after shot or acid **Flowed 8 hrs., 137.11 bbls. oil** Bbls.
Established 24 hr. S.C.C. potential of 1104 bbls.

Dry Gas Well Press _____ Volume _____ Cu. ft.

Casing Head Gas Pressure _____ Volume **Before acid-1,800 M** Cu. ft.
After acid-2,420 M

Braden Head (**13"X10-3/4"OD**) Gas Pressure _____ Volume _____ Cu. ft.

Braden Head (**10-3/4"X5-1/2"OD**) Gas Pressure _____ Volume _____ Cu. ft.

PRODUCING FORMATION **Viola Line** (Name) Top **3677'** Bottom **3726'** TOTAL DEPTH **3738'**

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
13"OD	40#	8V	208				7	202	4	Lapweld	"C"	250	Halliburton
10-3/4"OD	35#	8V	272				13	271	0	Lapweld	"C"	80	Halliburton
5-1/2"OD	17#	8RT	3678				120	3708	2	Seamless	"A"	150	Halliburton
(13" casing set 8' in cellar and 10-3/4" casing set 4' in cellar and 5 1/2" casing set to derrick floor)													
(Used one 5 1/2"OD Baker Combination Guide and Float Shoe)													

Liner Set at _____ Length _____ Perforated at _____

Liner Set at _____ Length _____ Perforated at _____

Packet Set at _____ Size and Kind _____

Packet Set at _____ Size and Kind _____

SHOT OR ACID TREATMENT RECORD

	FIRST	SECOND	THIRD	FOURTH
Date	Nov. 8, 1940			
Acid Used	8000 Gals.			
Size Shot	Qts.			
Shot Between	3678 Ft. and 3738 Ft.			
Size of Shell				
Put in by (Co.)	Morgan Co.			
Length anchor				
Distance below Cas'g				
Damage to Casing or Casing Shoulder	None			

SIGNIFICANT GEOLOGICAL FORMATIONS

NAME	Top	Bottom	GAS		OIL		REMARKS
			From	To	From	To	
Lensing Line	3329				3418	3426	Porous & stained
					3437	3445	Porous & stained
					3506	3512	Porous & saturated
					3652	3658	Medium por., no oil, probable gas
Viola Line	3668				3668	3673	Porous, no saturation
					3677	3721	Pay formation
					3723	3726	Pay formation

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)

Form NVA Rev. 200-12-32

RECORD OF FORMATIONS

FORMATION	TOP	BOTTOM	REMARKS
Surface clay and sand	0	100	
Sand	100	150	
Red bed	150	210	Set and cemented 13"OD, 40#, L. W. Steel casing at 208' with 250 sacks of cement.
Red bed	210	272	Encountered gas at 235' Set and cemented 10-3/4"OD, 35#, L. W. Steel casing at 272' with 50 sacks.
Red bed	272	425	
Shale and shells	425	1080	
Salt and shells	1080	1265	
Shale and shells	1265	1440	
Lime	1440	1615	
Lime and shale	1615	1705	
Lime	1705	1730	
Sand	1730	1750	
Shale	1750	1775	
Lime	1775	1890	
Lime and shale	1890	1975	
Lime	1975	2010	
Shale	2010	2140	
Lime and shale	2140	2245	
Shale and lime shells	2245	2355	
Shale	2355	2455	
Shale and shells	2455	2530	
Shale	2530	2560	
Lime shells	2560	2610	
Shale and lime	2610	2785	
Lime	2785	2925	
Lime and shale	2925	3005	
Lime	3005	3070	
Broken lime	3070	3125	
Shale and lime	3125	3275	
Shale	3275	3280	
Lime	3280	3300	
Black shale	3300	3340	Top Lansing Lime at 3329'
Lime	3340	3410	
Cherty lime	3410	3418	
Lime	3418	3512	Soft grey oolitic lime, 3418'-38', porous and stained
			Medium porosity soft oolitic lime 3437'-45', porous and stained
			Very soft oolitic lime 3506'-12', porous and stained
Shale	3512	3513	
Lime	3513	3600	
Shale	3600	3658	
Shale with streaks of lime	3658	3658	
Fine grey sand	3658	3658	Medium porosity, no oil, probable gas
Dark green shale w/ little sand	3658	3668	Top Viola Lime at 3668'
Grey sandy dolomite with little grey chert	3668	3673	Porous, no saturation
Grey and brown dolomite and grey crystalline lime with little green shale	3673	3680	Porous with little saturation 3677'-80'
			Set and cemented 5"OD, 17#, 50 casing at 3678' with 150 sacks of cement.
			Finished cementing at 8:30 PM, 10/29/40
			to 3678' and while shut down waiting for cement to set, standardized rig and rigged the hole down and drilled cement plug to 3641' on Nov. 2 and 5" casing tested OK. Reloaded hole with fresh water and drilled bottom plug, cement job tested OK.
			Drilled 9-7/8" hole to 3680'
			Plugging back and deepening records
			3680' to 3685' No oil, little porosity and stain
			3685' to 3690' " " " " " "
			3690' to 3700' No porosity or saturation
			3700' to 3705' Good porosity and saturation
			3705' to 3711' Stuck tools six feet at 3705' on Nov. 3, bailed the hole and drilled and cemented 5" casing at 3711' with 150 sacks of cement.
			3711' to 3713' No oil, little porosity and stain
			3713' to 3718' " " " " " "
			3718' to 3721' No porosity or saturation
			3721' to 3723' " " " " " "
			3723' to 3726' No porosity or saturation
			3726' to 3733' " " " " " "
			3733' to 3738' " " " " " "
			TOTAL DEPTH - 3738'
			Stopped drilling Nov. 6, 1940.

(See Reverse for Record of Formations)

On November 6th, ran 2 1/2" tubing and on Nov. 7th, swabbed well in thru tubing. Flowed thru tubing 1 hour, 4 barrels of oil and gas gauged 1,800 M cubic feet. On November 8th, treated with 8000 gallons of Morgan acid as follows:

ACID TREATMENT NO. 1 - Between 3678' and 3739'

Treatment put in by Morgan Acid Co., 11/8/40, using 8000 gallons of Morgan acid and 106 barrels of oil to fill hole and flush tubing.

TIME	GP	TP	REMARKS:
9:44 AM			Filled hole with 71 barrels of oil then started acid in.
9:48 "	450/	0/	325 gallons of acid in hole
9:58 "	700/	50/	1000 gallons of acid in hole
10:13 "	525/	Vac.	2850 gallons of acid in hole
10:28 "	475/	"	6000 gallons of acid in hole
10:43 "	450/	"	8000 gallons of acid in hole then started oil in
11:10 "	400/	10" Vac.	Flushed hole with 55 barrels of oil to complete treatment.

After acid treatment, left well shut in 2 hours then ran tubing swab 3 times to 1000' and well started to flow, flowed thru 2 1/2" tubing 1-1/2 hours, 200 barrels of cut oil and acid water.

The well was shut in until November 12th waiting for State umpire to take potential test. On this date took S.C.C. potential test by bottom hole pressure method. Flowed thru 2 1/2" tubing 8 hours on test, 137.11 barrels of oil and no water to establish 24 hour S.C.C. potential of 1,104 barrels, gas gauged 2,420 M cubic feet. This potential allows 17 barrels per day for the remainder of November, 1940.

SLOPE TEST DATA

Depth	Angle		Horiz.	Vert.
	(Degrees)			
250'	0			
500'	0			
750'	1/2		2.2	.0
1000'	1/2		2.2	.0
1250'	1/2		2.2	.0
1500'	1/2		2.2	.0
1750'	1/2		2.2	.0
2000'	1/2		2.2	.0
2250'	1/2		2.2	.0
2500'	1/2		2.2	.0
2750'	1/2		2.2	.0
3000'	1/2		2.2	.0
3250'	1/2		2.2	.0
3500'	1/2		2.2	.0
Total Deflections			26.4	.0

CASING TALLY

13"OD	10-3/4"OD	5-1/2"OD	5-1/2"OD	5-1/2"OD	5-1/2"OD
30 3	21 1	33 1	30 1	31 7	31 0
31 2	21 10	31 3	31 4	31 5	30 9
29 7	21 0	30 7	31 0	31 5	31 0
29 9	21 3	31 1	31 3	30 10	31 6
30 5	21 1	31 5	31 7	30 2	31 3
30 1	21 9	29 3	31 5	31 4	30 3
31 2	21 5	31 5	31 2	31 7	31 2
	20 0	26 8	31 4	30 10	30 7
	20 0	30 11	30 11	31 2	31 8
	20 1	30 11	30 1	31 2	30 11
	20 2	31 9	30 3	30 10	31 4
	20 11	31 5	31 0	31 0	31 6
	20 5	31 1	32 2	31 5	31 4
		30 9	31 4	31 2	31 5
		30 3	31 5	30 8	30 8
		30 10	31 0	31 9	30 8
		30 10	31 7	31 2	30 10
		31 5	31 0	30 10	31 0
		31 10	31 8	31 2	30 11
		30 10	31 3	31 6	30 0
		31 1	31 2	31 4	32 3
		31 9	31 9	31 5	30 11
		29 11	31 8	31 1	30 6
		31 4	30 9	30 11	31 7
		31 5	31 4	30 7	30 8
		31 5	30 9	31 3	30 9
		31 6	31 6	31 4	31 9
		31 2	31 7	32 1	30 8
		31 9	30 11	31 8	8 8
		31 1	30 5	31 0	
				30 5	

202' 4" 271' 0" 3708' 2"

13" set 8' in cellar
10-3/4" set 4' in cellar

ACID TREATMENT NO. 4 - Between 3456' and 3468'

Treatment put in September 22, 1944, by Dowell Acid Company, using 500 gallons acid and 101 barrels of oil to fill hole and to flush:

<u>TIME</u>	<u>CP</u>	<u>TP</u>	<u>REMARKS</u>
9:15 AM			Hole filled with 80 barrels oil
10:17 AM			500 gallons acid in hole
10:30 AM	800'	600'	10 barrels oil in hole to flush
10:45 AM	900'	800'	14 barrels oil in hole to flush
11:15 AM	900'	900'	21 barrels oil in hole to flush and treatment complete

After acid treatment ran rods and pumped 15 hours, 99 barrels oil and 61 barrels water. During the next 11 days the well produced as follows:

<u>Date</u>	<u>Hours Pumped</u>	<u>Barrels oil</u>	<u>Barrels Water</u>
9-24-44	24	42	145
9-25-44	24	22	100
9-26-44	20	6	29
9-27-44	8	2½	6
9-28-44	Shut down waiting on unit		
9-29-44	" "	" "	" "
9-30-44	14	14	116
10-1-44	24	2½	6½
10-2-44	12	3½	16½
10-3-44	12	3¼	10
10-4-44	12	1½	8

Since the Lansine Line did not produce oil or gas in commercial quantities, regular authority was granted October 14, 1944, to plug and abandon the location.

On November 6th started plugging and plugged the well as follows:

5 sacks cement	3489'	to	3442'
Mud laden fluid	3442'	to	2909'
Pumped plug (wood plug) to spot oil behind casing		to	2907'
Mud laden fluid	2907'	to	270'
Wood plug	270'	to	268'
15 sacks cement	268'	to	223'
Mud laden fluid	223'	to	26'
10 sacks cement	26'	to	6'
Surface soil and rock	6'	to	0.

Finished plugging to abandon November 11, 1944.

2 24 11W
135 22

This well had declined in production to the point that it was producing less than one barrel of oil per day from the Viola Line and since the well was structurally high on the Lansing Line and samples indicated good saturation from 3506' to 3512', it was decided to plug back and test this upper zone by perforating the 5½" casing.

On August 27, 1944, set Lane-wells bridging plug at 3602' and dumped one sack of cement on top of bridge to 3595', then perforated 5½" casing by Lane-wells with 57 holes from 3502' to 3513'. Had show of mud and 5 gallons of water per hour after perforating. On August 28th ran 2" tubing and on August 29th treated with 750 gallons of Dowell "KF-16" acid as follows:

ACID TREATMENT NO. 2 - Between 3502' and 3513'

Treatment put in August 29, 1944, using 750 gallons Dowell acid and 68 barrels of oil to fill hole and to flush:

TIME	OP	TP	REMARKS
12:22 PM			Hole filled with 46 barrels oil and started acid in
12:55 PM			750 gallons acid in hole
1:02 PM	1000%	700%	Pressure breaking, started oil flush
1:13 PM	300%	500%	Hole flushed with 22 barrels oil and treatment complete

After acid treatment POB 16 hours, 30 barrels of oil and no water (oil used in treatment). On August 30th pulled and ran rods and on September 1, 1944, ran Depthograph shot and found fluid level 2700' from top of hole. POB 17 hours, 11 barrels of oil and 12 barrels water. On September 2nd POB 18 hours, 2½ barrels oil and 12 barrels water and well pumped off. September 3rd POB 12 hours, 1 barrel oil and 2 barrels water and well pumped off. On September 4th treated with 2500 gallons of Dowell "KF-16" acid as follows:

ACID TREATMENT NO. 3 - Between 3502' and 3513'

Treatment put in September 4, 1944, using 88 barrels oil and 2500 gallons acid:

TIME	OP	TP	REMARKS
2:50 PM			65 barrels oil used to fill hole and started acid
3:35 PM	500%	200%	1000 gallons acid in hole
3:45 PM	550%	250%	2000 gallons acid in hole
3:53 PM	550%	250%	2500 gallons acid in hole
4:15 PM	550%	450%	Hole flushed with 23 barrels oil and treatment complete

After acid treatment POB 24 hours, 70½ barrels oil and 68 barrels water (oil used in treatment). Well quit pumping and on September 7th pulled and reran rods and POB 16 hours, 2-1/3 barrels oil and 37 barrels water. On September 8th POB 15 hours, 2-1/3 barrels oil and 11½ barrels water. During the next four days the well produced as follows: September 9th, POB 12 hours, 2½ barrels oil and 11½ barrels water, September 10th, POB 12 hours, 1 barrel oil and 9 barrels water, September 11th, POB 10 hours, 1/2 barrel oil and 9 barrels water, September 12th, POB 10 hours, 1/2 barrel oil and 8 barrels water.

Shut down until September 21st, on which date set Lane-wells bridging plug at 3489' and perforated 5½" casing with 60 holes from 3456' to 3468'. No shows after perforating. On September 22nd and 23rd treated with 500 gallons of Dowell "KF-16" acid as follows: