15-135-00546-00-00

STATE OF KANSAS
STATE CORPORATION COMMISSION

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

WELL PLUGGING RECORD

OR

FORMATION PLUGGING RECORD

Strike out upper line when reporting plugging off formations.

NORTH

Locate well correctly on above Section Plat

Ness County. Sec. 23 Twp. 17S Rge. (E) 26 (W)

Location as "NE¼NW¼SW¼" or footage from lines 1650' from N and W line of NE/4

Lease Owner: Skelly Oil Company

Lease Name: Tom Norton Well No. 2

Office Address: Box 391, Hutchinson, Kansas

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

Date well completed: March 31, 19 45

Application for plugging filed: June 5, 19 47

Application for plugging approved: June 6, 19 47

Plugging commenced: July 24, 19 47

Plugging completed: July 28, 19 47

Reason for abandonment of well or producing formation: Depleted Oil Well

If a producing well is abandoned, date of last production: April 1, 19 47

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: H. W. Kerr

Producing formation: Mississippi Lime Depth to top: 4460' Bottom: 4473' Total Depth of Well: 4473 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
Mississippi Lime	Oil	4460'	4467'	8-5/8"	1286'4"	None
				5-1/2"	4486'3"	2581'9"

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.

6 sacks cement	4473' to 4425'
Mud laden fluid	4425' to 250'
Wood plug and 15 sacks cement	250' to 205'
Mud laden fluid	205' to 15'
10 sacks cement	15' to 6'
Surface soil	6' to 0'

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

STATE CORPORATION COMMISSION AUG - 9 1947 CONSERVATION DIVISION

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) ~~(or owner or operator)~~ 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) H. E. Wamsley

Box 391, Hutchinson, Kansas
(Address)

SUBSCRIBED AND SWORN TO before me this 8th day of August, 19 47

Josephine L. Johnson
Notary Public.

My commission expires: April 7, 1951

21-6858-BS W 2-47—6M

PLUGGING FILE SEC. 28 T. 17 R. 26 BOOK PAGE 112 LINE 17

Form N47A Rev.

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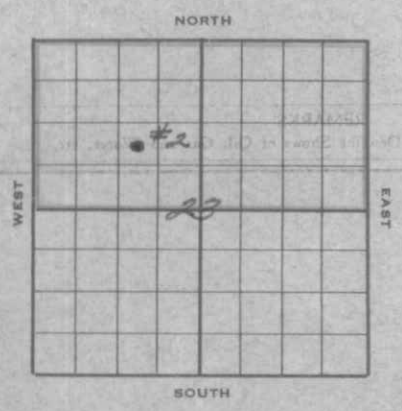

SKELLY OIL COMPANY

Well Record

Lease Name and No. Tom Norton #26113 Well No. 2 Elev. 2506'DF

Lease Description N/2 Sec. 23-17S-26W,
Ness County, Kansas

Location made January 4 1945 by E. S. Templer

1650 feet from North line feet from East line } NW/4
feet from South line 1650 feet from West line } of Sec. 23

Work com'd Jan. 14 19 45 Rig comp'd Jan. 26 19 45 Drlg. com'd Feb. 4 19 45 Drlg. comp'd Mar. 4 19 45

Rig Contractor Bodine Drilling Company

Drilling Contractor Bodine Drilling Company, Great Bend, Kansas

Rotary Drilling from Top to 4841' Cable Tool Drilling from to

Commenced Producing March 31 1945 { Initial Prod. before shot or acid 6 to 8 gal. oil hr. Bbls.
Initial Prod. after shot or acid FOB 8 hrs., 38 bbls. oil, 4½ bbls. BS & wtr. to estab. 24 hr. 300 pot of 114 bbls. 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 (8-5/8"x5½"OD) Size Gas Pressure Volume Cu. ft.

PRODUCING FORMATION Mississippi Lime (Name) Top 4460' Bottom 4473' TOTAL DEPTH 4841' PB 4473'

CASING RECORD

Size	Wt.	Thds.	Where Set	PULLED OUT Jts.	PULLED OUT Feet	PULLED OUT In.	LEFT IN Jts.	LEFT IN Feet	LEFT IN In.	KIND	Cond'n	CEMENTING Sacks Used	CEMENTING Method Employed
8-5/8"OD	28#	8R	1279'				40	1286	4	R2 H40 REW	A	350	Halliburton
5-1/2"OD	17#	8R	4460'				105	4486	3	R3 J55 SS	B	100	Halliburton

(8-5/8" casing set 6' in cellar & 5½" casing cased to derrick floor)

(Used 1 - 5½" Baker Combination Guide and Float Shoe)

Liner Set at Length Perforated at

Liner Set at Length Perforated at

Packer Set at Size and Kind

SHOT OR ACID TREATMENT RECORD

	FIRST	SECOND	THIRD	FOURTH
Date	April 1, 1945	April 12, 1945	April 18, 1945	
~~Acid Used~~ Size Shot	20 Gals. Qts.	Acid - 500 Gals. Qts.	Acid - 1500 Gals. Qts.	Gals. Qts.
Shot Between	4469 Ft. and 4463 Ft.	4460 Ft. and 4473 Ft.	4460 Ft. and 4473 Ft.	Ft. and Ft.
Size of Shell	4½"x6' HJ			
Put in by (Co.)	Ind.-Eastern	Dowell, Inc.	Dowell, Inc.	
Length anchor				
Distance below Cas'g				
Damage to Casing or Casing Shoulder	None	None	None	

SIGNIFICANT GEOLOGICAL FORMATIONS

NAME	Top	Bottom	GAS From	GAS To	OIL From	OIL To	REMARKS
Lansing Lime	3891'				3953'	3972'	For. & stained
					4038'	4046'	For. & stained
Marmaton Lime	4366'						
Conglomerate Chert	4437'						
Mississippi Lime	4449'				4460'	4467'	For., sli. stain & sat.
					4467'	4473'	For., sli. oil sat. (Pay Formation)
Osage Chert	4558'						
Viola Lime	4750'						
Arbuckle Lime	4811'						

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, clay & sand	0	100	
Blue shale	100	225	
Shale and shells	225	695	
Sand	695	750	
Shale	750	820	
Shale and shells	820	925	
Shale	925	1075	
Red bed	1075	1160	
White lime	1160	1245	
Shale and shells	1245	1257	
Shale	1257	1279	Set and cemented 8-5/8"OD, 28#, 8rd thd., Grade H-40, Range 2, R.E.W. steel casing at 1279' with 350 sacks of cement.
Red bed	1279	1655	
Red bed and shale	1655	1885	
Shale and lime	1885	2025	
White lime	2025	2075	
Shale and shells	2075	2125	
Lime and shale	2125	2255	
Shale	2255	2290	
Salt and shells	2290	2385	
Salt, gyp and shells	2385	2410	
Lime and shale	2410	2475	
Lime	2475	3020	
Blue shale	3020	3040	
Lime	3040	3405	
Lime and shale	3405	3535	
Shale	3535	3555	
Broken lime	3555	3585	
Shale	3585	3610	
Broken lime and shale	3610	3695	
Lime	3695	4105	TOP LANSING LIME 3891' (3935-39' soft grey oolitic lime, porous, no oil - 3953-72' Same, porous and stained - 4038-46' Med. soft grey oolitic lime, porous and stained)
Lime and shale	4105	4140	
Shale	4140	4170	
Lime and shale	4170	4210	
Shale	4210	4372	TOP HARDETON LIME 4366'
Shale and lime	4372	4437	TOP CONGLOMERATE CHERT 4437'
Sandy lime and chert	4437	4442	No saturation
Lime and chert	4442	4449	TOP MISSISSIPPI LIME 4449'
Dense grey fossiliferous lime	4449	4453	No porosity or saturation
Dense grey lime & dolomite	4453	4460	Slight porosity, no saturation
Grey and tan lime and cherty dolomite	4460	4467	Porous, slight stain & saturated
Medium hard grey and brown dolomite	4467	4473	Porous, slight oil saturation
Hard grey and brown dolomite	4473	4482	Porous, slight oil stain,,no oil
Soft brown dolomite	4482	4492	Porous, slight oil saturation
Soft tan dolomite	4492	4501	Porous, slight oil stain
Same	4501	4532	Porous, slight oil stain
Lime	4532	4558	TOP OSAGE CHERT 4558'
Lime and chert	4558	4750	TOP VIOLA LIME 4750'
Dense grey cherty dolomite	4750	4759	No saturation
Dense dolomite	4759	4778	
Dense grey cherty dolomite	4778	4785	
Grey dolomite	4785	4787	
Dense brown finely crystalline and sandy lime	4787	4796	No oil show
Dense coarsely crystalline lime, chert & dolomite	4796	4806	No oil show
Dense grey oolitic chert and finely crystalline dolomite	4806	4811	TOP ARBUCKLE LIME 4811' No saturation
Soft grey coarsely crystalline dolomite	4811	4816	Slight porosity, no saturation
Medium hard grey coarsely crystalline dolomite	4816	4824	Slight porosity, no saturation
Medium soft grey coarsely crystalline dolomite	4824	4832	Good porosity, probable water
Medium hard grey coarsely crystalline and finely crystalline dolomite	4832	4841	Slight porosity, no saturation Set and cemented 5½"OD, 17#, 8rd thd., Range 3, J-55, Seamless steel casing at 4460' with 100 sacks of cement and 4 sacks of aquagel. Finished cementing at 9:10 AM March 5, 1945. Moved out rotary tools and finished moving in and rigging up cable tools on March 12th, 1945.

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Bailed the hole dry and 5½" casing tested OK. Drilled cement plug and cleaned out to 4465', tested 1/2 barrel oil per hour at 4465'. Drilled cement plug from 4465' to 4470' and tested 2 hours, 1 barrel oil and no water. Drilled cement plug from 4470' to 4480', bottom plug at 4480' and hole filled with water while cleaning out to 4500'. Cleaned out mud from 4500' to 4565', then ran 2" tubing and on March 20th plugged back with 35 sacks of cement through 2" tubing by Halliburton from 4565' to 4476'. On March 23rd bailed hole to 2500' but were unable to lower water below this point. Drilled cement plug from 4476' to 4492' and on March 27th ran 2" tubing and plugged back with 50 sacks of cement by Halliburton. On March 31st bailed the hole dry and found top of cement plug at 4453' SLM. Drilled cement plug from 4453' to 4469', show of oil and water from 4468-69'. Bailed and tested 12 hours and water exhausted, tested 6 to 8 gallons of oil per hour.

On April 1, 1945, shot with 20 quarts of Nitro-glycerin in 4½"x6' W.J. shell from 4469' to 4463', used Zero Hour Bomb, shot tamped with 135' of crushed rock. Shot went off at 3:30 PM April 2, 1945, and bridged hole at 4025'. Cleaned out bridge and cleaned out to bottom. Casing was found collapsed at 4440', it was swedged out to bottom with 1600' OIH. Swabbed 4 hours through 5½" casing, 41 barrels oil and 13 barrels water, swabbing to 4450'. On April 8th swabbed through 5½" casing 2 hours, 14 barrels oil and 1 barrel water, then cleaned out to bottom. Ran SLM, Correction: 4469' equals 4473' SLM.

TOTAL DEPTH 4473'

On April 9th swabbed and bailed into pits 12 hours, estimated 16 barrels oil and 8 barrels muddy water. On April 11th, swabbed 21 barrels oil and 13 barrels water and swabbed to bottom in 2 hours. Bailed hole clean, ran 2" tubing and on April 12th treated with 500 gallons of Dowell "XXF" acid as follows:

ACID TREATMENT NO. 1 - Between 4460' and 4473'

Treatment put in April 12, 1945, using 500 gallons Dowell acid and 103 barrels oil to fill hole and to flush:

TIME	CP	TP	REMARKS
3:10 PM			Hole filled with 86 barrels oil and started acid
3:26 PM	275#		500 gallons acid in hole and started oil flush
3:47 PM	875#	600#	6 barrels flushing oil in hole
4:35 PM	900#	800#	11 barrels flushing oil in hole
4:52 PM	1050#	1050#	17 barrels flushing oil in hole and treatment complete

After acid treatment swabbed through 2" tubing 14 hours, 55 barrels oil and acid sludge. On April 13th ran rods and on April 14th POB 24 hours, 36 barrels oil and 14 barrels water (oil recovered to this time used in treating, with water exhausting). On April 15th POB 24 hours, 29.69 barrels oil and 1/2 barrel water and shut down account of storm.

On April 18th started up, pulled rods and treated with 1500 gallons of Dowell "XXF" acid as follows:

ACID TREATMENT NO. 2 - Between 4460' and 4473'

Treatment put in April 18, 1945, using 1500 gallons Dowell acid and 88 barrels oil to fill hole and to flush:

TIME	CP	TP	REMARKS
3:45 PM			Hole filled with 70 barrels oil and started acid
4:07 PM	700#	300#	750 gallons acid in hole
4:17 PM	700#	300#	1000 gallons acid in hole
4:23 PM	700#	300#	1500 gallons acid in hole and started oil flush
4:55 PM	650#	650#	Hole flushed with 18 barrels oil and treatment complete

After acid treatment, swabbed through 2" tubing 4 hours, 27 barrels oil, then ran rods and POB 3 hours, 29 barrels oil and no water. On April 20th POB 12 hours, 99 barrels fluid showing 3% water. On April 21st POB 11 hours 66 barrels fluid showing 8% BS and water. On April 22nd POB 10 hours, 50 barrels fluid showing 8% BS and water. On April 23rd POB 8 hours for physical potential test, 38 barrels of oil and 4½ barrels BS and water to establish 24 hour State Corporation Commission potential of 114 barrels. This potential allows 25 barrels per day.

SLOPE TEST DATA

No deviation from vertical in drilling to 4841'.