

15-147-19129-00-00

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
800 Biting Building
Wichita, Kansas

Phillips County. Sec. 23 Twp. 5S Rge. (E) 20(W)

Location as "NE/CNW/SW" or footage from lines SW/4 NW/4 NW/4

Lease Owner Skelly Oil Company

Lease Name B. O. Graham Well No. 1

Office Address Box 1650, Tulsa, Oklahoma

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

Date well completed October 16, 1943

Application for plugging filed March 7, 1952

Application for plugging approved March 8, 1952

Plugging commenced April 4, 1952

Plugging completed April 4, 1952

Reason for abandonment of well or producing formation 5 1/2" casing collapsed

If a producing well is abandoned, date of last production November 11, 1952

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 Arbuckle Lime Depth to top 3491' Bottom 3510' Total Depth of Well 3524 Feet

Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS

CASING RECORD

FORMATION	CONTENT	FROM	TO	OD SIZE	PUT IN	PULLED OUT
Arbuckle Lime	Oil	3491'	3510'	8-5/8"	214'6"	None
				5-1/2"	3529'0"	None

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.

Mud laden fluid 2029' to 250'
35 sacks of cement 250' to 6'
Surface soil 6' to 0'

RECEIVED
STATE CORPORATION COMMISSION
MAY 20 1952

05-20-1952
WICHITA, KANSAS

Name of Plugging Contractor Skelly Oil Company
Address _____

STATE OF Kansas, COUNTY OF Reno, ss.

H. E. Wamsley (employee of owner or contractor) 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)

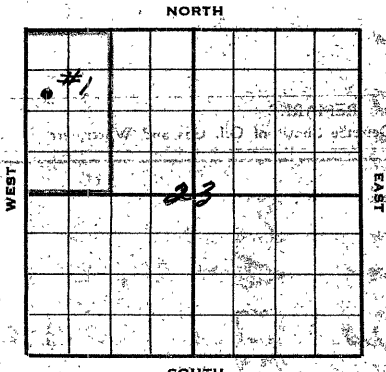
SUBSCRIBED AND SWORN TO before me this 19th day of May, 19 52

My commission expires April 7, 1952
Josephine S. Johnson Notary Public.

PLUGGING
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SKELLY OIL COMPANY



Well Record

Lease Name and No. B. O. Graham #14877 Well No. 1 Elev. 2126'
 Lease Description W/2NE/4 Sec. 15 & E/2 NE/4 Sec. 22, and W/2 NW/4 Sec. 23, Twp. 5S, Range 20 West, Phillips Co., Kansas
 Location made August 10 1943 by W. O. Randolph

feet from North line 330 feet from East line 300.25
 feet from South line 330 feet from West line 300.25
 Work com'd Aug. 28 1943 Rig com'd Sept. 1 1943 Drlg. com'd Sept. 2 1943 Drlg. comp'd Oct. 1 1943

Rig Contractor Helmerich and Payne Drilling Company
 Drilling Contractor Helmerich and Payne Drilling Company, Tulsa, Oklahoma
 Rotary Drilling from Top to 3491 Cable Tool Drilling from 3491 to 3524

Commenced Producing October 16 1943 Initial Prod. before shot or acid 200' JIN 4 hrs. 105.8 hrs., 157.95 bbls. oil Bbls.
 Initial Prod. after shot or acid 24 hr. B.O.C. gov. of 474 Bbls.

Dry Gas Well Press. _____ Volume _____ Cu. ft.
 Casing Head Gas Pressure _____ Volume _____ Cu. ft.
 Braden Head (8-5/8" OD) Gas Pressure _____ Volume _____ Cu. ft.
 Braden Head (_____) Gas Pressure _____ Volume _____ Cu. ft.

PRODUCING FORMATION Arbuckle Lias Top 3491' Bottom 3510' TOTAL DEPTH 3524'

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" OD	28	82	270'				5	214	6	Laywell	A	150	Halliburton
8-5/8" casing: Grade 7, Range 3													
5-1/2" OD	14	82	3487'				109	3529	0	Seamless	A	200	Halliburton
5-1/2" casing: Grade 7, Range 2													
(8-5/8" casing not 7' in collar and 5-1/2" cased to derrick floor)													
(Used 1 - Baker Combination Valve and 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	October 3, 1943	October 5, 1943	October 8, 1943	
Acid Used	750	1250	2000	
Size Shot				
Shot Between	3489 Ft. and 3524 Ft.	3489 Ft. and 3524 Ft.	3489 Ft. and 3524 Ft.	
Size of Shell				
Put in by (Co.)	Dowell	Dowell	Dowell	
Length anchor				
Distance below Cas'g				
Damage to Casing or Casing Shoulder	None	None	None	

SIGNIFICANT GEOLOGICAL FORMATIONS

NAME	Top	Bottom	GAS		OIL		REMARKS
			From	To	From	To	
Lansing Lias	3218'				3326	3329	Por., light saturation
					3377	3387	Por., medium saturation
Arbuckle Lias	3488'				3488	3491	Por., light oil sat.
					3491	3498	Porous and saturated
Granite Wash	3523'				3503	3510	Porous and saturated

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
Surface soil and clay	0	20	
Sand	20	30	
Brown shale	30	35	
Shale and shells	35	365	Set and cemented 3-5/8" OD, 20', A. O. Smith, Range 1, Lapweld Steel Casing at 120 feet with 150 sacks of cement.
Shale and shells	265	330	
Sand and shale	330	1060	
White sand	1060	1135	
Sand and shale	1135	1395	
Anhydrite	1395	1635	
Red bed and shale	1635	1775	
Shale, red bed and shells	1775	1975	
Shale and shells	1975	2080	
Line	2080	2215	
Shale and line	2215	2305	
Shale and sand	2305	2455	
Shale and line	2455	2815	
Broken lime	2815	2950	
Line and shale	2950	3118	
Line	3118	3148	
Line and shale	3148	3258	
Shale	3258	3266	
Chert	3266	3267	
Line	3267	3270	
Cherty line	3270	3308	
Grey cherty lime	3308	3326	
Grey and brown oolitic lime	3326	3329	Porous, light saturation
Grey crystalline lime	3329	3377	
Brown and grey oolitic lime	3377	3387	Porous, medium saturation
Grey crystalline lime	3387	3441	
Soft grey oolitic lime	3441	3457	No saturation
Grey crystalline lime	3457	3489	
Red shale and sand conglomerate	3489	3491	TOP ANHYDRITE LIME 3488' SL
Grey and brown coarsely crystalline dolomite	3491	3494	Porous, light oil saturation Set and cemented 3-1/2" OD, 14', 5/8 thread, Range 1, Beamless Steel Casing at 3489' SL with 200 sacks of cement and 6 sacks of aquagal. Finished cementing at 1:30 AM, September 14, 1943, and while shut down waiting for cement to set, moved out rotary tools and rigged up cable tools. Finished rigging up and bailed the hole dry on September 29, 1943, and 3-1/2" casing tested OK. Drilled cement plug and cement job tested OK. Correction: 3494' SL rotary table equals 3491' SL derrick floor. Slight show of oil on cleaning out to bottom.

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	3494	3491	
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FORMATION	TOP	BOTTOM	REMARKS
DRILLED:			
Grey and brown crystalline dolomite	3491	3492	Porous and saturated
Brown dolomite	3492	3495	Porous and saturated 200' OIL in 4 hours while drilling 3491'-3495'
Brown and grey coarsely crystalline dolomite	3495	3501	Slight porosity and saturation
Grey crystalline dolomite	3501	3503	Stained
Grey and brown cherty dolomite	3503	3510	Porous and saturated
Hard grey dolomite	3510	3517	No saturation
Light brown dolomite	3517	3521	Hard
Light brown dolomite with 50% pink quartzite	3521	3524	No porosity or saturation FOR SHALTS 148H 3523' 700' OIL in 36 hours, swabbed through 3-1/2" casing into pits 7 hours, estimated one barrel oil per hour after swabbing to bottom. On October 2nd and 3rd swabbed through 3-1/2" casing 24 hours, 36 barrels oil and no water.
TOTAL DEPTH		3524'	

On October 3rd and 4th swabbed through 3-1/2" casing 24 hours, 54 barrels oil and no water. On October 4th ran 2" tubing and treated with 750 gallons Dowell "X-1-16" acid as follows:

TIME	OF	PP	REMARKS
7:02 PM	325'		Hole filled with oil and started acid in
7:07 PM	325'		650 gallons acid in hole
7:37 PM	750'	425'	750 gallons acid in hole and flushed hole with oil to complete treatment

After acid treatment swabbed through 2" tubing 9 hours, 64 barrels of oil and no water, swabbing 900' off bottom.

On October 5, 1943, swabbed through 2" tubing, 6 hours, 30 barrels of oil and no water, swabbing 800' off bottom. On this date reacidized with 1250 gallons of Dowell acid as follows:

ACID TREATMENT NO. 2 - Between 3437' and 3524'

Treatment put in October 5, 1943, by Dowell using 1250 gallons acid and 79 barrels oil to fill hole and to flush.

TIME	SP	TP	REMARKS
6:25 PM			Hole filled with 63 barrels oil and started acid in
6:57 PM	300'	100'	600 gallons acid in hole
7:07 PM	550'	350'	960 gallons acid in hole
7:10 PM	550'	350'	1250 gallons acid in hole and started oil flush
7:50 PM	300'	400'	Hole flushed with 16 barrels oil to complete treatment

After acid treatment pulled 2" tubing and had 2750' OIL. Swabbed through 5-1/2" casing 20 hours, 10 1/2 barrels oil per hour and no water, swabbing to bottom. Sealed 4 hours to close up hole and on October 8, 1943, ran 2" tubing and reacidized with 2000 gallons Dowell "KP-16" acid as follows:

ACID TREATMENT NO. 3 - Between 3489' and 3524'

Treatment put in October 8, 1943, by Dowell using 2000 gallons acid and 56 barrels oil to fill hole and to flush.

TIME	SP	TP	REMARKS
2:55 PM			Hole filled with 40 barrels oil and started acid in
3:36 PM	350'		600 gallons acid in hole
3:45 PM	700'	350'	960 gallons acid in hole
3:50 PM	750'	400'	1500 gallons acid in hole
3:54 PM	700'	350'	2000 gallons acid in hole and started oil flush
4:23 PM	650'	650'	Hole flushed with 16 barrels oil to complete treatment

After acid treatment swabbed through 2" tubing to clean up hole and on October 9, 1943, ran rods and moved out sand tools.

On October 16, 1943, finished moving in and connecting up pumping unit, then PCB 8 hours on potential test, 157.95 barrels of oil and no water, to establish 24 hour State Corporation Commission potential of 474 barrels. This potential allows 25 barrels per day for the remainder of October, 1943.

DEPTH	SLOPE TEST DATA		HORIZ.	YMT.
	ANGLE OF DEFLECTION			
250'	0	degrees		
500'	0	"		
750'	0	"		
1000'	0	"		
1250'	0	"		
1500'	0	"		
1750'	0	"		
2000'	0	"		
2250'	0	"		
2500'	0	"		
2750'	0	"		
3000'	0	"		
3250'	0	"		

PLUGGING RECORD

Date commenced: December 31, 1951
Date completed: April 4, 1952

Plugged back from: 3524' to 0' F & A

Prod. before: 16 barrels oil and 20 barrels water

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Moved in and rigged up cable tools of Claude Wentworth Drilling Company on December 31, 1951, to fish for parted tubing in hole. On January 1, 1952, ran socket and took hold of 2" tubing at 900'. On January 2, fished and recovered 18 joints (550') of 2" tubing. Bailed and cleaned out to 2000' and sand kept coming into hole. Pumped Halliburton test plug to 1134' and found leak in 5 1/2" casing (took 4 1/2 barrels of water per minute with no pressure). Drove plug to 1140' and cemented off leak with 300 sacks of cement at 1000'-CP. Drilled cement plug from 300' to 1080' and cleaned out from 1080' to 1150'. Bailed to 480' and shut down 1 hour and hole filled from 480' to 200' with water and sand from 1080' to 1050'. On January 14, ran 2" tubing and mixed 40 sacks of gel and 50' of gel flakes and pumped 2" tubing from 1094' to 1142'. Pulled tubing and reran 2" tubing and set Halliburton packer at 1100'. Cemented off hole in casing at 1135' with 200 sacks of sulphate resisting cement at 1200'-TF. Reversed out estimated 17 sacks of excess cement and pulled tubing and shut down for cement to set.

On January 16, bailed hole to 1100' and 5 1/2" casing tested dry. Drilled cement plug to 1130' and cleaned out to 1135' and hole filled 200' with water to 1124' with sand. On January 18, ran 2" tubing to 1124', mixed 15 sacks of aquagel and 1 sack of gel flakes and washed out sand from 1124' to 1140' and could not circulate behind 5 1/2" casing. Pulled 2" tubing and found tools sticking at 1114'. Ran 2" tubing to 1144' and spotted 8 sacks of aquagel from 1144' to 500'. Pulled 2" tubing, then ran 2" tubing and set Halliburton retainer at 1086' and recemented leak in 5 1/2" casing with 125 sacks of sulphate resisting cement and 31 1/2 sacks of Flocele, pressured to 2000'. Reversed out 12 sacks of cement, pulled tubing and shut down for cement to set.

On January 21, bailed hole dry to 1086' and 5 1/2" casing tested dry. Drilled cement plug to 1136' and water and sand broke in and hole filled to 1136' with sand. Ran 2" tubing and washed down to 1136', pulled tubing and drove Halliburton plug from 1136' to 1365'. On January 25, ran 2" tubing to 1175' and cemented with 55 sacks of sulphate resisting cement. Raised tubing to 840' and reversed out an estimated 13 sacks of cement, pressured to 1000'-TF.

On January 27, bailed hole dry to 840' and 5 1/2" casing tested dry. Drilled cement plug to 1132', tools sticking at this point. Swedged out 5 1/2" casing from 1123' to 1126', filled hole with crushed rock from 1132' to 1115', then drilled out rock from 1115' to 1132' and hole tested dry. Drove Halliburton plug to 1745' and drilled up plug. Ran 2" tubing and pumped tubing down to 2020'. Pulled tubing and were unable to get fishing socket below 1126'. Swedged out casing to 1131' and tools went to 2020'. Ran Kuslow socket, but were unable to get hold of tubing in the hole. Socket hung up at 1131' when coming out of the hole. Jarred socket in two at parts and left bottom of socket in hole. Drove bottom of socket from 1131' to 2020' and swedged out 5 1/2" casing to 1135' with 5" swedge. Tried to fish out bottom of tubing socket; unable to get socket above 2020'. Tried to rip off 5 1/2" casing above 2020', but were unable to do so on account of cement in coupling recess. Moved out cable tools and due to bad condition of the hole authority was granted to plug and abandon the well at this time.

On April 4, moved in Company well servicing unit, ran 2" tubing to 2000' and plugged the well as follows:

Had laden fluid	2020' to 250'
35 sacks of cement	250' to 6'
Surface seal	6' to 0'

Plugged and abandoned April 4, 1952.

[Handwritten signature]