

15-077-10035-0000

See

STATE OF KANSAS
STATE CORPORATION COMMISSION

Form CP-4

WELL PLUGGING RECORD

Give All Information Completely
Make Required Affidavit
Mail or Deliver Report to:
Conservation Division
State Corporation Commission
212 No. Market
Wichita, Kansas

Harper County, Sec. 19 Twp. 31S Rge. (E) 6 (W)

Location as "NE/CNWSW" or footage from lines NE/4 SE/4 NE/4

Lease Owner Skelly Oil Company

Lease Name S. O. Bishop Well No. 3

Office Address P. O. Box 649, McCook, Nebr. 69001

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

Date well completed October 31, 19 57

Application for plugging filed March 20, 19 67

Application for plugging approved March 22, 19 67

Plugging commenced April 17, 19 67

Plugging completed April 21, 19 67

Reason for abandonment of well or producing formation Uneconomical to operate

If a producing well is abandoned, date of last production April 17, 19 67

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. Archie Elving

Producing formation Mississippian Depth to top 4350 Bottom Total Depth of Well 4770 Feet

Show depth and thickness of all water, oil and gas formations. PB 4376'

OIL, GAS OR WATER RECORDS

CASING RECORD

FORMATION	CONTENT	FROM	TO	SIZE	PUT IN	PULLED OUT
Simpson Sand	Oil	4725'	4735'	8-5/8"	591'	None
Mississippi Lime	Oil	4369'	4373'	5-1/2"	4806' 6"	3684'

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	4376' to 4350'
5 sacks of cement	4350' to 4325'
Mud	4325' to 350'
Rock bridge	350' to 340'
25 sacks of cement	340' to 265'
Mud	265' to 40'
Rock bridge	40' to 30'
10 sacks of cement	30' to Base of cellar
Surface soil	Cellar to Surface

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(If additional description is necessary, use BACK of this sheet)
Name of Plugging Contractor Ralph Comstock Pipe Pulling, Inc.
Address 320 North Park, Stafford, Kansas 67578

STATE OF Nebraska, COUNTY OF Red Willow ss.
Charles R. Davis (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) Charles R. Davis

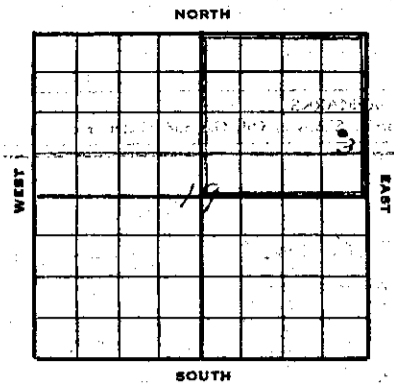
P. O. Box 649, McCook, Nebr. 69001 (Address)

SUBSCRIBED AND SWORN TO before me this 31st day of May, 19 67

C. E. Lindsey Notary Public.

COMMISSION EXPIRES JUNE 13, 1969

My commission expires



SKELLY OIL COMPANY

Well Record

Lease Name and No. E. S. Bishop Well No. 3 Elev. 1520' BS
1517' LP
1513' WH
 Lease Description 3/4 Section 19-316-6N, Harper County,
Kansas (160 Acres)
 Location made Sept. 12, 19 57 by E. S. Bishop
370 feet from North line 10/4 feet from East line
990 feet from South line Sec. 19 feet from West line

Work com'd. 9/14 19 57 Rig comp'd. 9/17 19 57 Drlg. com'd. 9/17 19 57 Drlg. comp'd. 10/9 19 57

Rig Contractor Claude Wentworth Drilling Co., Inc.

Drilling Contractor Claude Wentworth Drilling Co., Inc., Tulsa, Okla.

Rotary Drilling from 0' to 4770' Cable Tool Drilling from To complete to

Commenced Producing October 31, 19 57 Initial Prod. before shot or acid Flowed thru BHP bomb Bbls.
to casing. 26 hr. potential of 1001 bbls. Bbls.

Dry Gas Well Press. Volume 439,000 Cu. ft.

Casing Head Gas Pressure Volume 439,000 Cu. ft.

Braden Head (8-5/8" 58" OD) Gas Pressure Volume 439,000 Cu. ft.

Braden Head () Gas Pressure Volume 439,000 Cu. ft.

PRODUCING FORMATION Simpson Sand (Name) Top 4725' Bottom 4735' TOTAL DEPTH 1770'
to 4740'

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	24	598'				15	591	0	arces	A	295	Halliburton
5-1/2"	14	88	4770'				14	648	6	J55	A	150	Halliburton
(8-5/8" casing set 2' in cellar and 58" cased to derrick floor)													
58" casing perforations open:													
				Above PB ID: 4725'-4735' with 60 holes									
				Below PB ID: none									

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

Date	FIRST		SECOND		THIRD		FOURTH	
	Gals. Qts.	Gals. Qts.	Gals. Qts.	Gals. Qts.	Gals. Qts.	Gals. Qts.	Gals. Qts.	
Shot Between	Ft. and Ft.	Ft. and Ft.	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 Cas'g								
Damage to Casing or Casing Shoulder								

SIGNIFICANT GEOLOGICAL FORMATIONS

NAME	Top	Bottom	GAS		OIL		REMARKS
			From	To	From	To	
Topeka Lm	2530'	13 10					
Barnston Lm	4059'						
Mississippi Lm	4350'	4 830					
Kinderhook	4592'	30 77					
Simpson Sand	4720'	3 200			4725'	4735'	

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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 sand	0	30	
Red bed	30	130	
Shale and shells	130	675	Set and cemented 5-5/8" OD, 22.7', Araco steel casing (18 Cond.) at 598' with 295 sacks of Foxmix cement with 16 sacks of HA-5. Cement circulated. Finished cementing at 10:45 p.m. 9/18/57.
Shale and shells	675	1400	TOP HALLIBURTON 942' TOP WILLIAMSON 1336'
Line	1400	1455	BASE BEVA 1974'
Line and shale	1455	4354	TOP TOPERA 2830' TOP KANSAS CITY LINE 3770' TOP WASHINGTON LINE 4059' TOP MIS-17-17PI LINE 4350'
Chert, buff to light gray partly weathered to tripolitic	4354	4370	Fair porosity, fair medium to dark spotted stain
			Ken Halliburton drill stem test No. 1, packer set at 4354', used 16' anchor, open 1 hour, gas to surface in 3 minutes, gas gauged 455 ROP, in 15 minutes gas gauged 439 ROP, in 30 minutes gas gauged 367 ROP, and stabilized at 340 ROP in 45 minutes, recovered 115' of slightly oil and gas cut mud, 60' of slightly oil and gas cut mud with traces of salt water, 188F-1720, 18F-180, 177-122, 38F-1338 in 20 mins.
Light gray fresh chert	4370	4379	Poor porosity, poor spotted faint stain
Light gray, slightly weathered chert and finely crystalline dolomite	4379	4390	Fair porosity, fair spotted medium stain, dolomite, poor porosity, poor faint stain.
			Ken Halliburton drill stem test no. 2, packer set at 4370', used 20' anchor, open 36 mins., gas to surface in 3 mins., gas gauged 530 ROP, spray of mud in 17 minutes, oil in 20 mins. (estimated 5 obls. per hr.), recovered 800' of oil and 100' of salt water, 188F-1730, in 20 minutes, 18F-90, 177-535, 188F-1570, in 37 mins.
Line and chert	4390	4494	
Line	4494	4591	TOP HALLIBURTON 4522' TOP STUBBS 4720'
Line and shale	4591	4725	
Cored from 4725' to 4756' - Recovered 31'			
Top 11'6"	- sand, porous, good show of oil		
Next 3'6"	- sand, porous, fair show of oil		
Last 16'	- sand, porous, slightly dolomitic, no show		
			Ken Halliburton drill stem test No. 3, with 2 packers, set top packer at 4725', bottom packer at 4736', used 20' anchor, open 30 minutes, gas to surface in 24 minutes, gas gauged 220 ROP, mud spray in 18 minutes, oil in 24 minutes, estimated 10 barrels per hour, reversed circulation, no IBHP reading, 177-1110, 177-1145, 188F-1505.
Sand and lime	4756	477 1/2	Ken Chlumberger survey
SLM correction	4775 1/2	4770	
TOTAL DEPTH 4770'			Set and cemented 5-5/8" OD, 22.7' on thd., R-2, 4-55, S.C. casing (18 cond.) at 4770' with 150 sacks of common cement, 50 sacks of strata-crete and 25 Gal. Fin. 4:10 p.m. 10/10/57. Halliburton Temperature Survey showed top of cement behind 5 1/2" casing at 3650'.

Rigged up cable tools, swabbed and bailed the hole dry to 4743' on October 20, and 5 1/2" casing tested dry. Drilled cement plug and cleaned out to 4753' and 5 1/2" casing tested dry. Perforated 5 1/2" casing from 4746' to 4750' with 23 holes by Lane-wells; bailed and tested 3 hours, 4 gallons of muddy water with fair show of gas per hour. Ran 2" tubing and set 2 1/2" retainer at 4740'. Cemented off perforations from 4746' to 4750' with 100 sacks of common cement, maximum TP-3500. Pulled 2" tubing and shut down for cement to set.

On October 23, swabbed and bailed the hole dry to top of cement retainer at 4740' and 5 1/2" casing tested dry. On October 24, ran 2" tubing open end to 4669' and perforated 5 1/2" casing from 4731' to 4735' with 24 holes by Lane-wells. Flowed through 2" tubing with 1" choke 5 hours, 95 barrels of oil and no water.

Perforated 5 1/2" casing from 4725' to 4731' with 36 holes by Lane-wells. Flowed through 2" tubing 6 hours, 32/64" choke, 70 barrels of oil and 1 1/2 barrels of water, FCP-500, FTP-220. On October 25, flowed through 2" tubing 6 hours, 42/64" choke, 160 barrels of oil and no water, gas gauged 400 M.C.F., FCP-500, FTP-100.

On October 30, ran Amerada 3 1/2" bomb. On October 31, flowed through 2" tubing 15 hours, 25/64" choke, 361.50 barrels of oil and no water; then flowed through 2" tubing 3 hours, 25/64" choke, 67.50 barrels of oil and no water, to establish 24 hour .C.C. potential of 1,621 barrels. GI CP-780, GI TP-480, GI HSP-1720, FCP-780, FTP-240, FBSP-1216, gas gauged 439 M.C.F. allowable 37 barrels per day.

FINISHED WELL TOTAL DEPTH 4740'

DEPTH	LOG. TEST DATA	TYPE OF DEFLECTION
150'	0	depress
350'	0	"
550'	0	"
850'	0	"
1250'	0	"
1590'	0	"
1930'	0	"
2350'	0	"
2700'	0	"
3030'	0	"
3340'	0	"
3910'	0	"
4302'	0	"

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WEST MISSISSIPPI LINE

Date Commenced: January 20, 1960
 Date Completed: February 11, 1960

Plugged back from 4740' to 4376' FB ID-4376'

Production Before: 1 barrel oil, no gas, 5 1/2 barrels water per day
 Production After: Flowed thru 2" tubing 24 hours, 45/64" choke, 32 barrels of oil, no water, 475 MCF gas, FTP-80%, PCP-0%.

5 1/2" Casing Perforations Open:

Above FB ID: 4369'-4373' with 16 holes
 Below FB ID: 4725'-4729' with 16 holes

Producing Formation: Mississippian

Moved in and rigged up cable tools of W.L. Copeland Drilling Company on January 20, 1960. Pulled rods and 2" tubing. Swabbed through 5 1/2" casing 2 hours, 20 barrels of oil and 60 barrels of water. Swabbed through 5 1/2" casing 3 hours, 6 1/2 barrels of water with slight seum of oil.

Ran 2" tubing open end to 4738' and cemented off perforations from 4725' to 4735' with 35 sacks of Pozmix cement and 1/2 sack of calcium chloride. Reset 2" tubing at 4697' and circulated out excess cement, maximum IP-1000%. Finished at 4:00 pm 1/21/60. Pulled 250' of tubing, ran steel line measurement and found top of cement at 4698'.

On January 23, pulled tubing, swabbed and bailed the hole dry to top of cement at 4698'. Drilled cement plug and cleaned out to 4740'. Tested 5 1/2" casing 2 hours, tested dry. Drilled up retainer at 4740'. Drilled cement plug and cleaned out to 4740' and 5 1/2" casing tested dry.

PERFORATION JOB NO. 4 - Simpson Sand - 4738'-4741'
 Perforated 5 1/2" casing with 8 holes per foot by Lane-Wells:

4738'-4741' - 3' - 16 holes

Swabbed through 5 1/2" casing 4 hours, 3 barrels of water per hour with slight show of gas.

Ran 2" tubing and set BM retainer at 4735'. Cemented off perforations from 4738' to 4741' with 100 sacks of Pozmix cement and 1 sack of calcium chloride, maximum IP-4000%. Finished cementing at 3:30 pm 1/24/60. Pulled tubing and shut down for cement to set.

On January 26, swabbed and bailed hole dry to top of retainer at 4735' and 5 1/2" casing tested dry. Drilled up retainer and drilled cement plug and cleaned out to 4738' BM, 5 1/2" casing tested dry.

PERFORATION JOB NO. 5 - Simpson Sand - 4725'-4732'
 Perforated 5 1/2" casing with 4 holes per foot by Lane-Wells:

4725'-4732' - 7' - 28 Kone shots

Swabbed through 5 1/2" casing 13 hours, 1-3/4 barrels of oil and 165 barrels of water. On January 27, swabbed through 5 1/2" casing 7 hours, 1/2 barrel of oil and 12 barrels of water per hour with show of gas.

Ran 2" tubing and set Halliburton BM retainer at 4720'. Cemented off perforations from 4725' to 4732' with 75 sacks of common cement, maximum IP-3500%. Finished cementing at 9:30 pm 1/27/60. Pulled 2" tubing and shut down for cement to set.

On January 30, swabbed and bailed the hole dry to top of retainer at 4720'. Drilled up retainer and cement plug and cleaned out to 4733', 5 1/2" casing tested dry.

PERFORATION JOB NO. 6 - Simpson Sand - 4725'-4729'
 Perforated 5 1/2" casing with 4 holes per foot by Lane-Wells:

4725'-4727'	- 2'	- 8 Kone shots	- Swabbed thru 5 1/2" casing 3 hours, 5 1/2 barrels water per hour with slight seum oil.
4727'-4729'	- 2'	- 8 Kone shots	- Swabbed thru casing 10 hours, 1/2 barrels oil and 102 barrels water
TOTAL	4'	16	

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Swabbed through 5½" casing 10 hours, 1/2 barrel of oil and 103 barrels of water. On January 31, swabbed through 5½" casing 4 hours, 10 barrels of water per hour with slight scum of oil.

Set Lane-Wells bridging plug at 4404' and swabbed the hole dry. Plugged back from 4404' to 4398' with 1/2 sack of Cal-Seal.

PERFORATION JOB NO. 7 - Mississippian - 4380'-4389'

Perforated 5½" casing with 4 holes per foot by Lane-Wells:

4385'-4389'	- 4'	- 16 holes	- Swabbed thru 5½" casing 3 hours,
			1½ INPH no oil or gas.
4380'-4385'	- 5'	- 20 holes	- Swabbed thru 5½" casing 9 hours,
TOTAL	- 9'	36 holes	19½ IN, no oil or gas.

On February 1, swabbed through 5½" casing 3 hours, 2 barrels of water per hour, no oil or gas.

Ran 2" tubing and set Halliburton HM retainer at 4376'. Cemented off perforations from 4380' to 4389' with 100 sacks of common cement, maximum IP-4000'. Finished cementing at 5:00 pm 2/1/60. Pulled 2" tubing and shut down for cement to set.

On February 2, swabbed and bailed hole dry to top of cement retainer at 4373'. Drilled cement plug and cleaned out to 4376', and 5½" casing tested dry.

PLUGGED BACK TOTAL DEPTH 4376'

PERFORATION JOB NO. 8 - Mississippian - 4369'-4373'

5½" casing perforated with 4 holes per foot by Lane-Wells:

4369'-4373' - 4' - 16 holes

Swabbed through 5½" casing 11 hours, 21 barrels of oil and 2 barrels of water, swabbing 1.16 barrels oil, no water, with good show of gas per hour at end of test. Ran 2" tubing open end to 4367' and loaded hole with 95 barrels of oil. Unable to pump into formation at 2800' IP. Pulled 2" tubing, then reran 2" tubing and set Halliburton HM packer at 4358'.

TREATMENT NO. 1 - (Hydra-Frac) - 4369'-4373'

2/4/60 ran Halliburton Hydra-Frac through 2" tubing using 400# of sand, 500 gallons of gelled kerosene, 10 gallons Norflo, 55 barrels of oil to fill and flush, maximum IP-5500', minimum IP-4800', time 12 minutes, injection rate: 1 barrel per minute.

Shut down 12 hours for pressure drop, then swabbed through 2" tubing 10 hours, 38 barrels of oil used in treating, no water, good show of gas. On February 5, swabbed through 2" tubing 6 hours, 8 barrels of oil used to load hole, no water.

TREATMENT NO. 2 - (Acid) - 4369'-4373'

2/5/60 treated through 2" tubing with 100 gallons of Halliburton 7½% HV acid, used 22 barrels oil to flush, maximum IP-4000', minimum IP-3600', time 5 minutes, injection rate: 3/4 barrels per minute.

Swabbed through 2" tubing 30 minutes, 24 barrels of oil used in treating and well started flowing. Flowed through 2" tubing 1½ hours, 19 barrels of oil used in treating, no water. Flowed through 2" tubing 13 hours, 34/64" choke, 80 barrels of formation oil, no water, gas estimated 100 MCF, FCP-0%, FTP-100%. On February 6, flowed through 2" tubing 4 hours, 45/64" choke, 18 barrels of oil, no water, gas estimated 100 MCF, FTP-20%, FCP-0%. Loaded hole with 25 barrels of oil.

Pulled 26 joints of 2" tubing and well started flowing. Circulated 80 barrels of oil from hole with salt water and pulled tubing and packer. Ran 2" tubing to 4373', then swabbed and flowed through 2" tubing to 4373'. Swabbed and flowed through 2" tubing 6 hours, 26 barrels of oil and 80 barrels of water used to load hole. On February 7, swabbed and flowed through 2" tubing 3 hours, 6 barrels of load oil, no water.

Pulled 2" tubing, reran 2" tubing and set Halliburton HM packer at 4359'.

TREATMENT NO. 3 - (HI-Flow) - 4369'-4373'

2/7/60 treated with 20 gallons of Halliburton HI-Flow mixed with 2000 gallons of lease oil, used 18 barrels oil to flush, maximum IP-3600', minimum IP-2600', time 1 hour 27 minutes, injection rate 1/2 barrel per minute.

Swabbed through 2" tubing 8 hours, 48 barrels of oil used in treating, no water, good show of gas. On February 8, flowed 3 hours through 2" tubing, 1" choke, 18 barrels of oil used in treating, no water, gas estimated 100 MCF, FTP-20%, FCP-0%; shut in 2 hours, 51 IP-1300'.

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Flowed 2 hours through 2" choke on tubing, 4 barrels of formation oil, no water, gas estimated 100 MCF; SI 2 hours, SI IP-1300%. On February 9, flowed through 2" tubing 3 hours, 1" choke, 6 barrels of oil and no water, gas estimated 100 MCF, PIP-20%, FCP-0%.

TREATMENT NO. 4 - (Acid) - 4369-4373

2/9/60 treated through 2" tubing with 200 gallons of Halliburton H₂O acid and 10 gallons of Morflo, used 46 barrels of oil to flush, maximum IP-3200%, minimum IP-1500%, time 21 minutes, injection rate 1 barrel per minute.

Swabbed through 2" tubing 1 hour, 21 barrels of oil used in treating and well started flowing. Flowed 5 hours through 2" tubing, 1" choke, 25 barrels of oil used in treating and 5 barrels of acid water.

Flowed 11 hours through 2" tubing, 1" choke, 33 barrels of formation oil, no water, gas estimated 100 MCF, PIP-20%, FCP-0%. Flowed 5 hours through 2" tubing, 1" choke, 12 barrels of oil, no water, gas estimated 100 MCF, PIP-20%, FCP-0%. Moved out cable tools.

On February 10, flowed through 2" tubing 15 hours, 45/64" choke, 30 barrels of oil, no water, gas gauged 475 MCF, PIP-80%, FCP-0%. On February 11, flowed through 2" tubing 24 hours, 45/64" choke, 32 barrels of oil, no water, gas gauged 475 MCF, PIP-80%, FCP-0%.

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