

STATE OF KANSAS
STATE CORPORATION COMMISSION

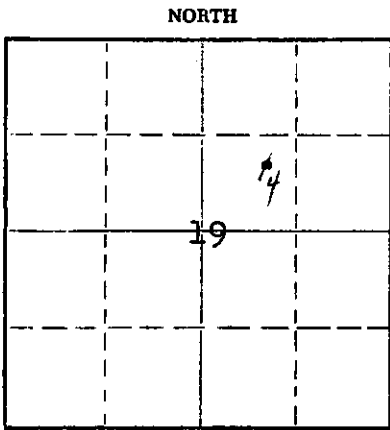
Form CP-4

WELL PLUGGING RECORD

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

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

Location as "NE/CNW*SW*" or footage from lines NE/4 SW/4 NE/4
Lease Owner Skelly Oil Company
Lease Name S. O. Bishop Well No. 4
Office Address P. O. Box 1650, Tulsa, Oklahoma
Character of Well (completed as Oil, Gas or Dry Hole) Oil
Date well completed December 19, 19 57
Application for plugging filed December 22, 19 64
Application for plugging approved December 28, 19 64
Plugging commenced February 12, 19 65
Plugging completed February 14, 19 65
Reason for abandonment of well or producing formation Depleted



Locate well correctly on above
Section Plat

If a producing well is abandoned, date of last production March 19 63

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. A. Elving
Producing formation Mississippi Depth to top 4338' Bottom Total Depth of Well 4745 Feet
PB 4707'

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	Oil	4349'	4356'	8-5/8"	580'6"	None
				5-1/2"	4782'6"	3760'

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 4707' to 4330'
5 sacks of cement 4330' to 4290'
Mud laden fluid 4290' to 290'
Rock bridge 290' to 280'
25 sacks of cement 280' to 205'
Mud 205' 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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Wichita, Kansas

(If additional description is necessary, use BACK of this sheet)
Name of Plugging Contractor Ace Pipe Pulling Company
Address P. O. Box 304, Great Bend, Kansas

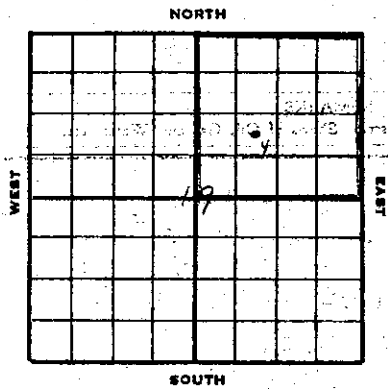
STATE OF Nebraska, COUNTY OF Red Willow, ss.
C. F. Bass (employee of owner) or (owner) of the above-described well, being first duly sworn on oath, says: That I have knowledge of the facts, statements, and matters herein contained and the log of the above-described well as filed and that the same are true and correct. So help me God.

(Signature) C. F. Bass
P. O. Box 649, McCook, Nebraska 69001
(Address)

SUBSCRIBED AND SWORN TO before me this 2nd day of March 19 65

My commission expires June 13, 1969
Notary Public.

15-077-10036-0000



SKELLY OIL COMPANY

Well Record #54013
 Lease Name and No. E. C. Bishop Well No. 4 Elev. 1495'
 Lease Description NE/4 Sec. 19-31S-06, Harper County, Kansas (160 Acres)
 Location made October 10, 1957 by E. L. Dix
 feet from North line _____ feet from East line NE/4
990 feet from South line 990 feet from West line of Sec. 19

Work com'd 10/11 1957 Rig comp'd 10/15 1957 Drlg. com'd 10/15 1957 Drlg. comp'd 11/7 1957

Rig Contractor Claude Wentworth Drilling Co., Inc.

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

Rotary Drilling from 0' to 4745' Cable Tool Drilling from To complete to _____

Commenced Producing December 19, 1957 Initial Prod. before shot or acid 1/2 G and 9 CPH Bbls.

Dry Gas Well Press. _____ Initial Prod. after shot or acid POB 8 hrs. 29.35 BO Bbls.

Casing Head Gas Pressure _____ Volume _____ Cu. ft.

Braden Head (8-5/8" 25A D) Gas Pressure _____ Volume _____ Cu. ft.

Braden Head (_____) Gas Pressure _____ Volume _____ Cu. ft.

PRODUCING FORMATION Mississippi (Name) Top 4349' Bottom 4356' TOTAL DEPTH 4745' PB 4707'

CASING RECORD

OD 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	83	587'				16	580	6	Arco 50	A	350	Halliburton
5-1/2"	14	81	4745'				150	4782	6	J55 82	A	200	Halliburton
(8-5/8" casing set 2 1/2' in cellar and 5 1/2' cased to derrick floor)													
5 1/2" casing perforations open:													
				Above PB TD: 4349' to 4356' with 42 holes									
				Below PB TD: None									

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Liner Set at _____ Length _____ Perforated at _____

Liner Set at _____ Length _____ Perforated at _____

Packer Set at _____ Size and Kind _____

Packer Set at _____ Size and Kind _____

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SHOT OR ACID TREATMENT RECORD

CONSERVATION DIVISION
Wichita, Kansas

	FIRST	SECOND	THIRD	FOURTH
Date	11/20/57			
Acid Used				
Size Shot				
Shot Between	4349 Ft. and 4356 Ft.	Ft. and Ft.	Ft. and Ft.	Ft. and Ft.
Size of Shell				
Put in by (Co.)	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	
Topeka Line	2803'	1940'					
Kansas City Line	3758'	2285'					
Marmaton Line	4050'						
Mississippi Line	4338'	2835'			4349'	4356'	
Hinderhook shale	4568'	3065'					
Simpson Sand	4714'	3711'					

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 shale Shale and shells	0 280	280 575	Set and cemented 8-5/8" casing (A cond.) at 587' with 350 sacks of Foamix cement and 17 sacks of 1-5 cement circulated. Finished at 5:30 a.m. 10/17/57.
Shale and shells Lime and shale	675 1120	1120 4341	TOP WILLIAMSON 826' BASE 4 LIBERTY 1360' BASE MAYA 1945' TOP TOPKA 2803' TOP KANSAS CITY LIME 3758' TOP HANSTON LIME 4050' TOP S. I. TIPPI LIME 4338'
Chert, white tripolitic, slightly dolomitic	4341	4355	Fair porosity, poor scattered spotted black stain, trace of free oil and white mottled glauconitic vitreous chert, no shows. Ben Halliburton drill stem test No. 1, packer set at 4341', used 14' anchor, open 1 hour, fair blow immediately, gas to surface in 53 minutes, too small to gauge, recovered 55' of slightly gas cut mud, 110' of slightly gas cut mud, with trace of oil and salt water, IHP-1603, IFF-30, FFP-78, FBP-614 in 20 minutes.
Chert, white tripolitic, slightly dolomitic	4355	4376	Fair porosity, poor scattered spotted black stain and white dense vitreous chert, poor porosity, no shows. Ben Halliburton drill stem test No. 2, packer set at 4355', used 21' anchor, open 1 hour, good blow of air immediately, recovered 115' of very slightly gas cut mud with trace of oil, 180' of very slightly gas cut muddy salt water with trace of oil and 60' of very slightly gas cut muddy salt water, IHP-1735, IFF-45, FFP-185, FBP-1720 in 20 mins.
Lime and shale Lime and chert Lime and shale	4376 4521 4594	4521 4594 4710	TOP KINSHAW SHALE 4568'
Cored from 4710' to 4745' - Recovered 35'			
Top 2' - shale, black carbonaceous, vertical fractured			
Next 3' - shale, dark gray to green laminated			
Next 4' - sand, light tan to white, very dolomitic, subhedral, quartzitic, poor porosity, poor scattered light stain			
Next 7' - sand, white to light gray, very dolomitic, slightly shaly, poor porosity, no shows			
Next 7' - sand, light gray, mottled, very dolomitic, poor porosity, no shows, slightly vertical fractured			
Next 10' - sand, dark tan to gray mottled, very shaly and dolomitic, tight, no shows			
Last 2' - sand, white to light gray, dolomitic, slightly sacrosic, no shows, fair porosity, vertical fractured			
			Ben Halliburton drill stem test No. 3 with top packer set at 4715' and bottom packer set at 4730', used 15' anchor, open 1 hour, strong blow of air immediately, recovered 2160' of gas, 210' of gas cut salt water with oil specks, and 1560' of salt water, IHP-255, FFP-250, BHP-1615 in 20 minutes.
TOTAL DEPTH 4745'			Ben Chluzberger Survey
Set and cemented 8-5/8" casing (A cond.) at 4745' with 200 sacks of common cement and 25 aquagel. Finished at 12:00 noon 11/9/57. Halliburton Temperature Survey showed top of cement behind 58" casing at 3750'.			

Rigged up cable tools on November 18, swabbed hole down to 4000' and bailed dry to 4707' 2 1/2", 3 1/2" casing tested dry. Perforated 3 1/2" casing from 4352' to 4356' with 24 holes by Lane-wells; bailed and tested 3 hours, 1/2 gallon of oil and 10 gallons of water per hour. Perforated 3 1/2" casing from 4349' to 4352' with 18 holes by Lane-wells; bailed and tested 15 hours, 1/2 gallon of oil and 9 gallons of water per hour. On November 20, ran 2" tubing with Halliburton M packer set at 4337'. Ran Halliburton Sand-Oil-Frac treatment as follows:

SAND-OIL-FRAC TREATMENT No. 1 - Between 4349' and 4356'

Used 2000' of sand
 1500 gallons of heavy crude oil
 155 barrels of regular crude oil to fill and flush
 Maximum TF-4500, minimum TF-3400.
 Time 14 minutes

Swabbed through 2" tubing 19 hours, 72 barrels of oil used in treating. On November 22, swabbed through 2" tubing 3 hours, 8 barrels of oil used in treating. Pulled 2" tubing with M packer. Swabbed through 3 1/2" casing 15 hours, 111 barrels of oil used in treating and 12 barrels of water, gas gauged 75 MCF. Swabbed through 3 1/2" casing 24 hours on November 23, 15 barrels of formation oil and 48 barrels of water, gas gauged 75 MCF. On November 24, swabbed through 3 1/2" casing 24 hours, 16 barrels of formation oil and 32 barrels of water, gas gauged 75 MCF. On November 25, swabbed through 3 1/2" casing 3 hours, 2 barrels of oil and 5 barrels of water. Ran 2" tubing and rods. Shut down to install surface pumping equipment until December 13.

On December 13, PDS 24 hours, 48 barrels of oil and 65 barrels of water. On December 14, PDS 24 hours, 40 barrels of oil and 60 barrels of water. On December 15, PDS 24 hours, 27 barrels of oil and 40 barrels of water. On December 16, PDS 24 hours, 21 barrels of oil and 16 1/2 barrels of water.

On December 19, PDS 8 hours on State Corporation Commission potential, 29.35 barrels of oil and 43 barrels of water to establish 24 hour L.C.C. potential of 88 barrels. Allowable 31 barrels per day.

PRODUCED FROM TOTAL DEPTH 4707'

WELLS TEST DATA: Tests were taken at 250', 500', 675', 800', 1050', 1300', 1520', 1800', 2075', 2360', 2700', 3040', 3460', and 3973' with no deviation from vertical noted.

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 Wichita, Kansas

15-077-10036-0000

SKELLY OIL COMPANY

CHANGE IN WELL RECORD

Give complete description of all cleaning out, deepening, plugging back and fishing jobs, changes in casing, material lost in hole, etc, not recorded in original well record.

LEASE NAME S. O. Bishop
 SEC. 19 T. 313 R. 67
 BLOCK _____ SURVEY _____

WELL NO. 4 DISTRICT Platte
 COUNTY Harper AFE NO. 58105
 STATE Kansas

TYPE OF WORK PLUG AND ABANDON WELL

Date commenced February 12, 1965 Date completed February 14, 1965
 Deepened from _____ to _____ Total Depth _____
 Plugged back from 4707' to Surface P.B.T.D. _____
 Cleaned out from _____ to _____
 Production before Shut Down 1/2 bbls. oil 5 bbls. water 0 cu. ft. gas.
 Production after _____ bbls. oil _____ bbls. water _____ cu. ft. gas.
 Tools owned by: Ace Pipe Pulling Company Kind used: Pulling Unit No. days rig time 3
 Cost of Job \$ _____ Revised Estimated Payout (Mos.) _____

TREATMENT RECORD

DATE	TYPE TREATMENT	INTERVAL TREATED	AMOUNT OF TREATMENT

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CHANGES IN CASING RECORD

STRINGS	SIZE	WHERE SET (Depth)	CEMENTING RECORD		Top liner;
			Sacks Used	Top Cem't. Bh'd. Cas'g.	
Production					
Liner					

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 WICHITA, KANSAS

SBS	WT.	THDS.	KIND	COND.	LEFT IN				PULLED OUT					
					Jts.	LTM		Jts.	LTM					
						Feet	In.		Feet	In.				
5-1/2"	14 1/2	BR	J55 R2 S9	C	32	1015	6	1022	6	118	3734	0	3760	0

PRODUCING FROM

FORMATION _____ thru OPEN HOLE PERFORATIONS _____ TOP _____ BOTTOM _____ Total No. Shots _____

REMARKS (Give review of work performed and any other comment of interest)

As the well was uneconomical to operate and as there were no further zones which merited testing, regular authority was granted to plug and abandon the well.

February 12, 1965, moved in and rigged up pulling machine of Ace Pipe Pulling Company and plugged the well as follows:

Sand 4707' to 4330'
 5 sacks of cement 4330' to 4290'

Pulled 3760' of 5 1/2" casing.

End 4290' to 290'
 Rock bridge 290' to 280'
 25 sacks of cement 280' to 205'
 End 205' to 40'
 Rock bridge 40' to 30'
 10 sacks of cement 30' to Base of cellar
 Surface soil Cellar to Surface

Plugged and abandoned February 14, 1965.