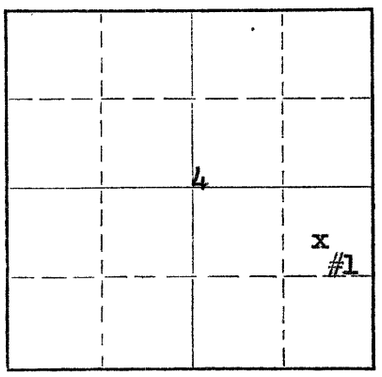
STATE OF KANSAS
STATE CORPORATION COMMISSION

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

15-039-00469-00-00

WELL PLUGGING RECORD

NORTH



Locate well correctly on above Section Plat

Decatur County. Sec. 4 Twp. 4S Rge. (E) 28 (W)

Location as "NE/CNW¼SW¼" or footage from lines Center NE/4 SE/4

Lease Owner Skelly Oil Company

Lease Name John Vavroch Well No. 1

Office Address P. O. Drawer 310, Sterling, Colorado

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

Date well completed July 28 19 60

Application for plugging filed August 9 19 60

Application for plugging approved August 11 19 60

Plugging commenced September 2 19 60

Plugging completed September 3 19 60

Reason for abandonment of well or producing formation Well was non-productive.

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

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 W. L. LacKamp

Producing formation Depth to top Bottom Total Depth of Well 4270 Feet

PBTD 4231'

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 LTM	PULLED OUT LTM
Topeka	Dry	3558'	3671'	8-5/8"OD	240'	0'
Heebner	Dry	3671'	3701'	4-1/2"OD	4258'	1910'
Toronto	Dry	3701'	3718'			
Lansing	Dry	3718'	3910'			
Marmaton	Dry	3910'	3944'			
Cherokee	Dry	3944'	4053'			
Conglomerate	Dry	4053'	4168'			
Arbuckle	Dry	4168'	4261'			

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.

4231' - 3695' - Spotted 366 gallons of sand.
3695' - 3668' - Spotted 3 sacks of regular cement.
3668' - 250' - 10# drilling mud.
250' - 245' - Set Rock Bridge.
245' - 183' - Spotted 25 sacks of regular cement.
183' - 40' - 10# drilling mud.
40' - 35' - Set Rock Bridge.
35' - 9' - Spotted 10 sacks of regular cement.
9' -Surface- Filled with dirt.

RECEIVED
STATE CORPORATION COMMISSION
SEP 26 1960
09-26-1960
CONSERVATION DIVISION
Wichita, Kansas

240' - 8-5/8" OD 22.7# Armco SW SJ R-3 Surface casing set at 252' left in hole.
2348' - 4-1/2" OD 9.5# 8rd SS J-55 R-2 RT&C Production casing set at 4270' left in hole.

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

Name of Plugging Contractor Knight Casing Pulling Company

Address Chase, Kansas

STATE OF Colorado, COUNTY OF Logan, ss.

C. F. Bass (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) C F Bass

P. O. Drawer 310, Sterling, Colorado
(Address)

SUBSCRIBED AND SWORN TO before me this 22nd day of September, 1960

Ralph E Feling Jr
Notary Public.

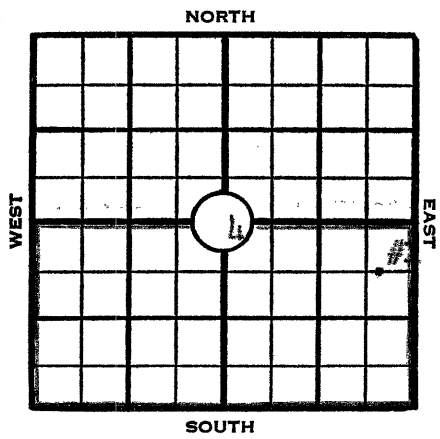
My commission expires My Commission expires June 26, 1961

Form 16-47A - Revised 1/60

15-039-00469-00-00

SKELLY OIL COMPANY

Well Record



Lease Name and No. John Vavroch Lease No. 4-7216 Well No. 1

Lease Description S/2 Section 4-4S-28W
Decatur County, Kansas (320 Acres)

Location Staked June 17, 19 60 by Don Closson

1980 feet from South line 660 feet from East line of Section 4.

Elev. K.B. 2705' D.F. 2703'

Elev. G.L. 2696'

Drilling Contractor Schafer Drilling Company

Work Com'd. June 17, 19 60 Drilling Com'd. July 1, 19 60 Reached Total Depth July 14, 19 60

Rotary Drilling from Surface to 4261' Cable Tool Drilling from ____ to ____

Well Completed September 3, 19 60 Total Depth 4261' P.B.T.D. 4231'

Initial Completion Test DRY HOLE 19 ____

Pressures: F.C.P. ____ F.T.P. ____ S.I.C.P. ____ S.I.T.P. ____

PRODUCING FROM

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

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

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

CASING RECORD

STRINGS	SIZE OD	WHERE SET (Depth)	CEMENTING RECORD Sacks Used	CEMENTING RECORD Top Cem't Bh'd. Cas'g.
Surface	8-5/8"	252'	200	Surface
Intermediate				
Production	4½"	4270'	200	3256'
Liner				

All Measurements were taken from top of Kelly Bushing which is 12 ft. from top of surface casing Flange Collar

Top Liner:

Size OD	Wt.	Thds.	Kind	Cond.	LEFT IN Jts.	LEFT IN LTM Feet	LEFT IN LTM In.	LEFT IN WTM Feet	LEFT IN WTM In.	PULLED OUT Jts.	PULLED OUT LTM Feet	PULLED OUT LTM In.	PULLED OUT WTM Feet	PULLED OUT WTM In.
8-5/8"	22.7		Armco SWSJ	A	6	240	0	240	0					
4½"	9.5	8rd	SS J-55 RT&C	B	77	2348	0	2367	3	60	1910	0	1925	0

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CONSERVATION DIVISION
Wichita, Kansas

SIGNIFICANT GEOLOGICAL FORMATIONS

NAME Source: Schlumberger	TOP	BOTTOM	GAS FROM	GAS TO	OIL FROM	OIL TO	REMARKS
Topeka	3558						
Heebner	3671						
Toronto	3701						
Lansing	3718						
Base Kansas City	3910						
Marmaton	3944						
Cherokee	4053						
Conglomerate	4168						
Arbuckle	4245						

TREATMENT RECORD

DATE	TYPE TREATMENT	INTERVAL TREATED	AMOUNT OF TREATMENT
7-20-60	Acid	3805' - 3807'	200 gallons of 15% non-emulsifying ac
7-21-60	Acid	3798' - 3805'	250 gallons of 15% non-emulsifying ac
7-21-60	Acid	3798' - 3805'	750 gallons of 15% non-emulsifying ac
7-22-60	Gelled Acid Frac	3798' - 3807'	5000 gallons of gelled acid.
7-24-60	Acid	3760' - 3762'	250 gallons of 15% non-emulsifying ac
7-27-60	Acid	3701' - 3704'	250 gallons of Dowell Mud Acid.

WORKOVER RECORD

TYPE WORK	DATE COM'D.	DATE COMP.	Plugged back or Deepened FROM	Plugged back or Deepened TO	PROD. BEFORE	PROD. AFTER

See Reverse for detail information

RECORD OF FORMATIONS

FORMATION	TOP	BOTTOM	REMARKS Indicate Casing Points, Describe shows of Oil, Gas and Water, etc.
Sand & Shale	Surface	255'	Spudded at 8:00 P.M., July 1, 1960. Drilled 12¼" hole to 255'. Ran 6 joints of 8-5/8" OD surface casing set at 252' with 200 sacks of regular cement, 2% calcium chloride. Cement circulated.
Shale	255'	1300'	
Shale & Gypsy	1300'	1706'	
Shale & Anhydrite	1706'	2658'	
Shale & Lime	2658'	3211'	
Lime	3211'	4020'	Topped Topeka at 3558' Topped Heebner at 3671' Topped Toronto at 3701' Topped Lansing at 3718' Topped Base Kansas City at 3910' Topped Marmaton at 3944' DRILL STEM TEST NO. 1 - 3751' - 3780': Tool open 1 hour. Weak flow for 5 minutes. Recovered 20' drilling mud. IFP 30#, FFP 40#. ISIP 995#/30 minutes, FSIP 275#/30 minutes. IHP 2040#, FHP 2030#. DRILL STEM TEST NO. 2 - 3790' - 3823': Tool open 1 hour. Weak Flow for 10 minutes, and died. Recovered 50' of oil and gas cut mud. IFP 30#. FFP 40#. ISIP 1115#/30 minutes, FSIP 990#/30 minutes. IHP 2060#, FHP 2045#.
Lime, Shale & Sand	4020'	4150'	Topped Cherokee at 4053'
Lime	4150'	4270'	Topped Conglomerate 4168' Topped Arbuckle at 4245'
TOTAL DEPTH		4270'	

Ran Schlumberger Induction-Electrical Log and MicroLog to 4261'. (Log did not go to bottom).

DRILL STEM TEST NO. 3 - 4245' - 4270':
Tool open 1½ hours. Weak blow throughout test. Recovered 270' muddy water. IFP 65#. FFP 135#. ISIP - no test - slid tool 12' to bottom running test. FSIP 890#/30 minutes. IHP 2280#. FHP 2280#.

Ran 137 joints 4½" OD 9.5# 8R SS J-55 R-2 RT&C "B" condition casing and set at 4270' with 200 sacks regular cement, 4% gel.

July 19, 1960 - Moved in and rigged up Peters Drilling Company's cable tools.

PLUGGED BACK TOTAL DEPTH 4233'
Ran Lane-Wells correlation log to their plug back total depth of 4233'.

PERFORATION JOB NO. 1 - 3805' - 3807':
Perforated 4½" OD casing with Lane-Wells Series "E" bullets per foot as follows:

3805' - 3807' - (2') - 8 shots

TREATMENT NO. 1 - (ACID) - 3805' - 3807':
Treated formation down 4½" OD casing with 200 gallons of Halliburton 15% non-emulsifying acid. Maximum pump pressure 500#. Pressure dropped to 450# five minutes after end of job and to 150# in twenty minutes. Injection rate was 1½ barrels per minute.

After recovering load oil, swabbed and bailed 4½" OD casing 12 hours for 13.95 barrels of salty water, no show of oil.

PERFORATION JOB NO. 2 - 3798' - 3805':
Perforated 4½" OD casing with ½ Lane-Wells Series "E" bullets per foot as follows:

3798' - 3805' - (7') - 28 shots

TREATMENT NO. 2 - (ACID) - 3805' - 3807' and 3798' - 3805':
Treated formation down 4½" OD casing with 250 gallons Halliburton 15% non-emulsifying acid. Maximum pump pressure 500#. Pressure had bled off to 400# in five minutes and 250# in twenty minutes after job was completed. Injection rate 2.5 gallons per minute.

After recovering load oil, swabbed 4½" OD casing 9 hours for 10.54 barrels salt water.

TREATMENT NO. 3 - (ACID) - 3805' - 3807' and 3798' - 3805':
Treated formation down 4½" OD casing with 750 gallons Halliburton 15% non-emulsifying acid. Maximum pump pressure 800#. Pressure had bled off to 700# in 5 minutes and 225# in 20 minutes after job was completed. Injection rate 38 gallons per minute.

After recovering load oil, swabbed 4½" OD casing 7 hours for 12.06 barrels salt water with a trace of oil.

Swabbed 4½" ID casing 9 hours for .29 barrel oil and 7.11 barrels salt water.

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JOHN VAVROCH WELL NO. 1

TREATMENT NO. 4 - (GELLED ACID FRAC) - 3796' - 3807':
Treated formation down 4½" OD casing with 5000# sand and 5000 gallons gelled acid by Halliburton. Maximum pump pressure 1700#, minimum 1400#. Pressure had bled off to 1000# in 10 minutes, 700# in 20 minutes, and 500# in 4 hours after job was completed. Injection rate 17 barrels per minute.

Swabbed 4½" OD casing 6.5 hours for 65 barrels load oil and 49 barrels load water.

Swabbed 4½" OD casing 24 hours for 2.35 barrels load oil and 34.75 barrels salt water.

Swabbed 4½" OD casing 2 hours for 2.34 barrels salt water with a trace of oil.

Ran Lane-Wells cast iron bridge plug on wire line and set at 3795'. Dry tested 1 hour, plug holding okay.

PERFORATION JOB NO. 3 - 3760' - 3762':
Perforated 4½" OD casing with 6 Lane-Wells Series "B" bullets per foot as follows:

3760' - 3762' - (2') - 12 shots

TREATMENT NO. 5 - (ACID) - 3760' - 3762':
Treated formation down 4½" OD casing with 250 gallons Halliburton 15% non-emulsifying acid. Maximum pump pressure 800#, minimum 750#. Pressure had bled off to 700# in 15 minutes after job was completed. Injection rate 2.75 gallons per minute.

Swabbed 4½" OD casing 8 hours for 55 barrels load oil and acid water. Lacked 6 barrels recovering all load oil.

PERFORATION JOB NO. 4 - 3718' - 3720':
Perforated 4½" OD casing with 6 Lane-Wells Series "B" bullets per foot as follows:

3718' - 3720' - (2') - 12 shots

Swabbed 4½" OD casing 3 hours for 2 gallons load oil and 18 gallons salt water. It is believed this fluid is load oil coming from the Lansing "F" Zone which was not recovered during the test of this zone.

PERFORATION JOB NO. 5 - 3720' - 3722':
Perforated 4½" OD casing with 6 Lane-Wells Series "B" bullets per foot as follows:

3720' - 3722' - (2') - 12 shots

Swabbed 4½" OD casing 10 hours for .25 barrel load oil and 58 barrels salt water.

Drilled out cast iron bridge plug at 3795' and cleaned out to 4233'.

Ran Lane-Wells cast iron bridge plug on wire line and set at 3712'. Dry tested 1 hour, plug holding okay.

PERFORATION JOB NO. 6 - 3701' - 3704':
Perforated 4½" OD casing with 6 Lane-Wells Series "B" bullets per foot as follows:

3701' - 3704' - (3') - 18 shots

TREATMENT NO. 6 - (ACID) - 3701' - 3704':
Treated formation down 4½" OD casing with 250 gallons Dowell Mud Acid. Maximum pump pressure 800#, minimum 390#. Pressure had bled off to 250# in 15 minutes and went on vacuum in 23 minutes after job was completed.

After recovering load oil, swabbed 4½" OD casing 3 hours for 60 barrels salt water and no oil.

Drilled out cast iron bridge plug at 3712' and cleaned out to 4231'.

September 2, 1960 - Moved in Knight Casing Pulling Company's casing puller.

Spotted 366 gallons of sand from 4231' back to 3695' and 3 sacks of regular cement from 3695' back to 3668' with dump bailer.

Shot off 4½" OD casing at 3157', 2680' and 2473' but could not pull free.

Shot off 4½" OD casing at 2012' but could not pull free.

Shot off 4½" OD casing at 1910' and pulled free.

Pulled 60 joints (1910' LTM - 1924' WTM) 4½" OD 9.5# 8R ss J-55 R-2 ETEC "C" condition casing.

Plugged well as follows:

4231'	- 3695'	-	Spotted 366 gallons of sand.
3695'	- 3668'	-	Spotted 3 sacks of regular cement.
3668'	- 250'	-	10# drilling mud.
250'	- 245'	-	Set rock bridge.
245'	- 183'	-	Spotted 25 sacks of regular cement.
183'	- 40'	-	10# drilling mud.
40'	- 35'	-	Set rock bridge.
35'	- 9'	-	Spotted 10 sacks of regular cement.
9'	- Surface-		Filled with dirt.

JOHN VAVROCH WELL NO. 1 SHEET NO. 3

Well was plugged and abandoned September 3, 1960.

SLOPE TEST DATA

Depth	Angle in Degrees
250'	1/4°
1000'	1/2°
1500'	1/2°
2290'	3/4°
2626'	3/4°
2865'	3/4°
3042'	3/4°
3211'	1/2°
4080'	1/2°