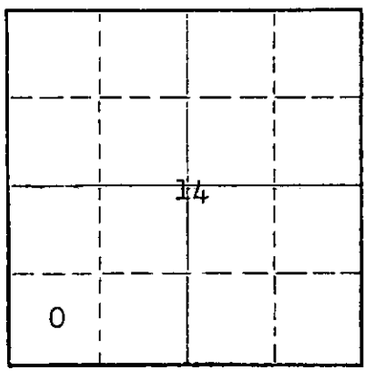
15-047-10102-00-00

STATE OF KANSAS
STATE CORPORATION COMMISSION

Give All Information Completely
Make Required Affidavit
Mail or Deliver Report to:
Conservation Division
State Corporation Commission
212 North Market, Insurance Bldg.
Wichita, Kansas

WELL PLUGGING RECORD

NORTH



Locate well correctly on above Section Plat

Edwards County. Sec. 14 Twp. 26S Rge. (E) 16 (W)
Location as "NE/CNW¼SW¼" or footage from lines C SW/4 SW/4
Lease Owner Skelly Oil Company
Lease Name C. W. Johnson Well No. 1
Office Address Box 1650, Tulsa, Oklahoma
Character of Well (completed as Oil, Gas or Dry Hole) Oil & Gas
Date well completed May 27, 19 59
Application for plugging filed April 7, 19 61
Application for plugging approved April 14, 19 61
Plugging commenced April 18, 19 61
Plugging completed April 22, 19 61
Reason for abandonment of well or producing formation Depleted

If a producing well is abandoned, date of last production April 7, 1961
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. Frank Broadfoot
Producing formation Conglomerate Depth to top 4391' Bottom ____ Total Depth of Well 4500 Feet
Show depth and thickness of all water, oil and gas formations. PB 4448'

OIL, GAS OR WATER RECORDS — CASING RECORD

FORMATION	CONTENT	FROM	TO	SIZE	PUT IN	PULLED OUT
Conglomerate	OIL & gas	4392'	4422'	8-5/8"	1053'6"	None
				5-1/2"	4527'3"	3358'

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	4448' to 4380'
5 sacks of cement	4380' to 4340'
Heavy mud	4340' to 240'
Rock bridge and Halliburton plug	240' to 230'
20 sacks of cement	230' to 170'
Mud	170' to 40'
Rock bridge and Halliburton plug	40' to 30'
10 sacks of cement	30' to 4'
Surface soil	4' to Surface

RECEIVED
STATE CORPORATION COMMISSION
MAY 8 1961
CONSERVATION DIVISION
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 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)

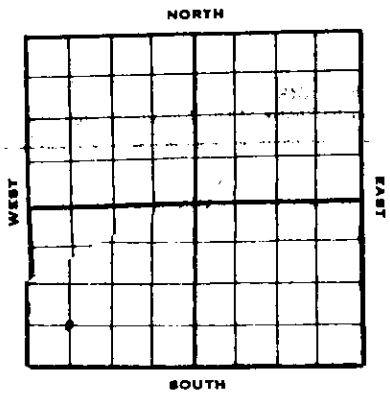
SUBSCRIBED AND SWORN TO before me this 5th day of May, 19 61

Josephine L. Johnson
Notary Public.

My commission expires April 7, 1963

6444

Form N47A Rev.



SKELLY OIL COMPANY

Well Record

#51388

2073'DF
2071'GR
2066½'LH

Lease Name and No. C. W. Johnson Well No. 1 Elev.

Lease Description 3/2 Section 14-26S-16W, Edwards County, Kansas (320 Acres)

Location made March 24, 19 59 by K. O. Morris

660 feet from North line 660 feet from East line } SW/4 of Sec. 14

660 feet from South line 660 feet from West line

Work com'd 3/26 19 59 Rig comp'd 3/27 19 59 Drlg. com'd 3/27 19 59 Drlg. comp'd 4/18 19 59

Rig Contractor Claude Wentworth Drlg. Co., Inc.

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

Rotary Drilling from 0' to 4500' Cable Tool Drilling from To complete to

Commenced Producing May 27, 19 59 { Initial Prod. before shot or acid Failed 18 BOPH Bbls.
Initial Prod. after shot or acid Flowed 24 hrs. thru 2" Bbls.
csg, 1" choke, 3/4 to 7/8 FTP

Dry Gas Well Press Volume Cu. ft.

Casing Head Gas Pressure FTP-60#, FCP-200# Volume 349,000 Cu. ft.

Braden Head (8-5/8"x5½"OD) Gas Pressure Volume Cu. ft.
Size

Braden Head ( ) Gas Pressure Volume Cu. ft.

PRODUCING FORMATION Conglomerate (Name) Top 4392' Bottom 4422' TOTAL DEPTH 4500' PB 4448'

CASING RECORD

Size	Wt.	Thds.	Where Set	PULLED OUT Jts.	Feet	In.	LEFT IN Jts.	Feet	In.	KIND	Cond'n	CEMENTING Sacks Used	Method Employed
8-5/8"	22.7	SJ	1060'				27	1053	6	Armco SW	A	550	Hallib. 1053'6"
5-1/2"	14#	8R	4499'				136	4527	3	J55 R3 SS	A	175	Hallib. 4497'6"
(8-5/8" casing set 4½' below ground and 5½" set 1½' above ground)													
5½" casing perforations open:													
Above PB TD: 4392'-4422' with 181 holes													
Below PB TD: 4462'-64' with 12 holes, and 4466'-68' with 12 holes													

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	4/24/59	4/27/59	4/28/59	
Acid Used Size Shot	500 Gals. Qts.	500 Gals. Qts.	Gals. Qts.	Gals. Qts.
Shot Between	4462 Ft. and 4468 Ft.	4392 Ft. and 4422 Ft.	4392 Ft. and 4422 Ft.	Ft. and Ft.
Size of Shell			Vis-C-Frac	
Put in by (Co.)	Halliburton	Halliburton	Halliburton	
Length anchor				
Distance below Cas'g				
Damage to Casing or Casing Shoulder				

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SIGNIFICANT GEOLOGICAL FORMATIONS

MAY 5

CONSERVATION DIVISION

NAME	Top	Bottom	GAS From	GAS To	OIL From	OIL To	REMARKS
Heebner Shale	3755'						
Lansing Lime	3919'						
Cherokee Lime	4372'						
Conglomerate Sd.	4391'				4392'	4422'	Prod. thru csg. perf.
Kinderhook	4423'						
Viola Lime	4462'						

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, shale, and red beds	0	390	
Shale, red bed and shell	390	755	
Shale and shells	755	932	
Shale	932	1030	
Shale, shells and anhydrite	1030	1061	TOP ANHYDRITE 1054' Set and cemented 8-5/8"OD, 22.7#, Armco S.W., S.J. steel casing (A cond.) at 1060' with 550 sacks of Pozmix cement. Cement circulated.
Anhydrite	1061	1080	
Shale and shells	1080	1590	
Shale	1590	1915	
Shale and lime	1915	2247	
Lime	2247	2320	
Lime and shale	2320	3570	
Lime	3570	3625	
Lime and shale	3625	3929	TOP HEEBNER SHALE 3752' TOP BROWN LIME 3902' TOP LANSING LIME 3919'
Buff, finely crystalline dense lime	3929	3938	No shows
Cream to buff, finely crystalline lime, slightly fossiliferous	3938	3954	Fair vuggy porosity, spotted light stain with very small show of free oil.
Light tan, finely crystalline, very dense lime	3954	3960	No shows Ran Halliburton drill stem test No. 1, packer set at 3929', used 31' anchor, open 1 hour, good blow throughout test, recovered 155' of heavy gas cut mud with few specks of oil and 130' of salt water, IEHP-1424# in 20 mins., IFP-50#, FFP-150#, FIHP-1100# in 20 minutes.
Lime	3960	4368	BASE KANSAS CITY LIME 4206' TOP CHEROKEE LIME 4372'
Light gray sand, fair grained, sub-angular	4368	4388	Fair porosity, fair glisonitic, good black stain, no show of free oil. Ran Halliburton drill stem test No. 2, packer set at 4368', used 20' anchor, open 1 hour, weak blow for 10 mins. recovered 5' of drilling mud, IEHP-27# in 20 mins., IFP-15#, FFP-13#, FIHP-13# in 20 mins.
Lime, sand and shale	4388	4390	TOP CONGLOMERATE SAND 4391'
Tan, fine grained, sub-angular, quartzitic sand with vari-colored slightly weathered chert	4390	4413	Fair spotted light stain, well sorted porosity, no free oil. Ran Halliburton drill stem test No. 3, packer set at 4388', used 25' anchor, open 1 hour, gas to surface in 4 minutes, gas gauged 340 MCF, recovered 70' of gas cut mud, IEHP-1394# in 20 mins., IFP-55#, FFP-65#, FIHP-1299# in 20 mins.
White, sub-opalescent chert with fine grained angular sand inclusions, sand grained, disseminated	4413	4433	TOP KINDERHOOK 4423' Poor spotted brown stain with fair show of free oil with yellow vari-colored pink chert with fair black stain, trace of heavy free oil.

			Ran Halliburton drill stem test No. 4, packer set at 4413', used 20' anchor, open 1 hour, gas to surface in 55 minutes, too small to gauge, recovered 30' oil and gas cut mud, 55' heavy oil and gas cut mud, 100' gassy oil, 4' fresh filtered water, IHP-1405# in 20 mins., IFP-55#, FFP-83#, FHP-1193# in 20 mins.
Vari-colored, light green translucent to opaque chert	4433	4455	Very poor spotted stain with brown vari-colored silty shale, slightly sandy.
			Ran Halliburton drill stem test No. 5, packer set at 4433', used 22' anchor, open 1 hour, weak blow for 5 mins., recovered 3' of mud, IHP-135# in 20 mins., IFP-27#, FFP-27#, FHP-40# in 20 mins.
Lime and chert	4455	4462	TOP VIOLA LIME 4462'
Light buff, sub-opaque chert, white-buff coarsely crystalline dense chert	4462	4470	No shows
White, slightly weathered, sub-opaque chert	4470	4477	Fair to poor vuggy porosity, fair spotted stain with trace of free oil in wet sample and light tan, fine grained dolomite, fair porosity, no shows.
White opaque chert, slightly tripelitic	4477	4480	Vuggy porosity, poor permeability, fair show of light oil, samples bleeding oil freely.
			Ran Halliburton drill stem test No. 6, packer set at 4463', used 17' anchor, open 1 hour, recovered 60' oil specked mud, 60' of heavy oil and gas cut mud, 60' of gassy oil, 120' watery oil, 550' salt water, hydrostatic pressure 2335#, IHP-1460#, IFP-120#, FFP-440#, FHP-1300#.
Chert and lime	4480	4500	Ran Schlumberger Survey
			Set and cemented 5½"OD, 14#, 8R thd., R-3, J-55, S.3. casing (A cond.) at 4499' with 175 sacks of Pozmix cement. Finished cementing at 6:50 p.m. 4/19/59.

TOTAL DEPTH 4500'

Total depth reached: 4/18/59

Rigged up cable tools, bailed and swabbed the hole down to top of cement plug, 4458', on April 23, 1959. Drilled cement plug to 4489' and ran Lane-Wells Cement, Gamma Ray and Chlorinilog.

Casing Perforation No. 1 - Viola Lime - 4462'-4468'

4462'-4464'	12 holes	Bailed 3 hrs., 10 BWPH with scum oil
4466'-4468'	12 holes	Bailed 3 hrs., 50 BWPH and 2½ BOPH

Treated through 5½" casing with 500 gallons of Halliburton 15% MCA acid as follows:

TREATMENT NO. 1 - Acidized between 4462' and 4468'

Treatment put in 4/24/59 by Halliburton, using 500 gallons of acid and 111 barrels of oil.

TIME	CP	TP	REMARKS
7:35 pm	100#		Start acid
7:39 pm	200#		Start flush
7:48 pm	500#		Acid on formation
9:56 pm	1700#		
10:03 pm	800#		
10:24 pm	800#		Finished flush

Swabbed through 5½" casing to bottom 3 hours, 111 barrels of oil used in treating and 22 barrels of acid and formation water. Then swabbed off bottom 1 hour, 4 barrels of fluid (est. 15% oil). On April 25, swabbed through 5½" casing off bottom 23 hours, 18 barrels of formation oil and 87 barrels of water.

Set Lane-Wells bridging plug at 4456'. Swabbed and bailed the hole dry, then plugged back with 1 sack of Cal-Seal from 4456' to 4448'.

Casing Perforation No. 2 - Conglomerate - 4392'-4422'

4414'-4422'	50 holes	Failed 3 hrs. 18 CO/F w/ trace wtr.
4392'-4414'	131 holes	50 MCF gas. Failed 10 hrs. 18 CO w/ trace water

Ran 2" tubing open end to 4394' and treated with 500 gallons of Halliburton MCA acid as follows:

TREATMENT NO. 2 - Acidized between 4392'-4422'

Treatment put in 4/27/59 by Halliburton, using 500 gallons of acid and 113 barrels of oil.

TIME	CP	TP	REMARKS
12:36 pm			Start acid
12:47 pm	950#		Acid on bottom
1:11 pm	800#		
1:13 pm	650#		
1:15 pm	1350#		
1:17 pm	1500#		Treatment completed

Swabbed through 2" tubing to bottom 4 hours, 96 barrels of oil used in treating. Swabbed off bottom 10 hours, 17 barrels of oil used in treating and no water.

Treated with Halliburton Vis-O-Frac down annulus in 5½" casing as follows:

TREATMENT NO. 3 - Vis-O-Frac between 4392' and 4422'

Used 6000# of sand
6000 gals. kerosene
130 barrels of regular crude oil to fill and flush
100 - 3/4" rubber balls
Maximum CP-2300#, minimum CP-2000#
Time 9 mins.
Injection rate: 17 barrels per minute

Swabbed through 2" tubing 6 hours, 128 barrels of oil used in treating. Well then flowed through 2" tubing 5 hours, 91 barrels of oil used in treating, gas gauged 820 MCF, FTP-160#, FCP-445#. Then flowed through 2" tubing 6 hours, 35 barrels of oil used in treating, gas gauged 820 MCF, FTP-140#, FCP-400#.

On April 29, flowed through 2" tubing 24 hours, 12 barrels of oil used in treating, 63 barrels of formation oil and 19 barrels of water, FTP-110#, FCP-360# at start of test, gas gauged 600 MCF at start of test, FCP-340# at end of test, gas gauged 463 MCF at end and flowing 3.34 barrels fluid per hour. On April 30, flowed through 2" tubing 24 hours, 60 barrels of oil and 8 barrels of water, gas gauged 463 MCF, FTP-90#, FCP-310#. Shut in 24 hours, SI CP-1030#, SI TP-1010#. Shut in to install tank battery.

On May 17, flowed through 2" tubing 24 hours, 51 barrels of oil and 12 barrels of water, gas gauged 495 MCF, FTP-60#, FCP-220#. On May 18, flowed through 2" tubing 24 hours, 49 barrels of oil and 5 barrels of water, gas gauged 441 MCF, FTP-60#, FCP-200#. On May 19, flowed through 2" tubing with 3/16" choke 24 hours, 2½ barrels of oil and 3.34 barrels of water, gas gauged 221 MCF, FTP-500#, FCP-630#. On May 20, flowed through 2" tubing 24 hours, 3/16" choke, 6 barrels of oil and 2½ barrels of water, gas gauged 221 MCF, FTP-540#, FCP-700#. On May 21, flowed through 2" tubing 24 hours, 1" choke, 52 barrels of oil and 7½ barrels of water, gas gauged 395 MCF, FTP-60#, FCP-210#. On May 22, flowed through 2" tubing 24 hours, 1" choke, 43½ barrels of oil

and 6½ barrels of water, gas gauged 395 MCF, FCP-210#, FTP-60#. On May 23, flowed through 2" tubing 24 hours, 1" choke, 23 barrels of oil and 8 barrels of water, gas gauged 395 MCF, FTP-60#, FCP-200#. On May 24, flowed through 2" tubing with 1" choke 24 hours, 23 barrels of oil and 8 barrels of water, gas gauged 395 MCF, FTP-60#, FCP-200#. On May 25, flowed through 2" tubing 24 hours, 1" choke, 20 barrels of oil and 6 barrels of water, gas gauged 395 MCF. On May 27, flowed through 2" tubing 24 hours, 1" choke, on State Corporation Commission potential test, 34 barrels of oil and 7½ barrels of water, gas gauged 349 MCF, FTP-60#, FCP-200#, to establish 24 hour S.C.C. potential of 34 barrels.

PLUGGED BACK TOTAL DEPTH 4448'

SLOPE TEST DATA

DEPTH	ANGLE OF DEFLECTION
250'	1/4 Degree
1000'	3/4 "
1200'	1/4 "
1500'	C "
1750'	3/4 "
2250'	1/4 "
2750'	1/4 "
3000'	1/4 "
3500'	1/4 "
3750'	1/4 "

FRACTURE CONGLOMERATE

Date Commenced: November 20, 1959
Date Completed: December 4, 1959

Plugged Back Total Depth: 4448'

Production Before: 4 barrels oil and 2 barrels water, no gas
Production After: Flowed 24 hours, 8 barrels oil, 3 barrels water, 340,000 cubic feet gas, FCP-160#, FTP-10#

5½" Casing Perforations Open:
Above PB TD: 4392'-4422' with 181 holes
Below PB TD: 4462'-4464'/12 holes, 4466'-4468'/12 holes

Producing Formation: Conglomerate

- - - - -

Moved in and rigged up cable tools of W. L. Copeland Drilling Company on November 20, 1959.

TREATMENT NO. 4 - Sand-Oil-Frac - 4392'-4422'
11/21/59 treated with Dowell Sand-Oil-Frac between 2" tubing and 5½" casing, used 26,000# of sand, 12,000 gallons of regular crude oil with 240 gallons of Dowell J-97, maximum CP-2300#, minimum CP-2250#, Time 21 minutes, rate of injection: 22 barrels per minute.

Swabbed through 2" tubing 5 hours, 104 barrels of oil used in treating. Well started flowing, flowed 9 hours, 97 barrels of oil used in treating. On November 22, flowed through 2" tubing 23 hours, 59½ barrels of oil used in treating, 8 barrels of formation water, and gas gauged 520 M.C.F., FCP-240#, FTP-12#. On November 23, flowed through 2" tubing 24 hours, 40 barrels of oil used in treating, 2 barrels formation water and gas gauged 627 M.C.F., CP-200#, TP-10#.

On November 24, flowed through 2" tubing 24 hours, 27½ barrels of oil used in treating, 4 barrels formation water, and gas gauged 520 M.C.F., FCP-190#, FTP-10#. On November 25, flowed through 2" tubing 24 hours, 20 barrels oil used in treating and 2 barrels formation water, gas gauged 520 M.C.F., FCP-195#, FTP-10#. On November 26, flowed through 2" tubing 24 hours, 19 barrels oil used in treating, 2 barrels formation water, gas gauged 510 M.C.F., FCP-180#, FTP-10#. On November 27, flowed through 2" tubing 24 hours, 17 barrels of oil used in treating, 3 barrels formation water and gas gauged 310 M.C.F., FCP-175#, FTP-10#. On November 28, flowed through 2" tubing 24 hours, 13 barrels of oil used in treating, 2 barrels of formation water, gas gauged 340 M.C.F., FCP-160#, FTP-10#. On November 29, flowed through 2" tubing 24 hours, 13 barrels of oil used in treating, 3 barrels formation water, gas gauged 340 M.C.F., FCP-160#, FTP-10#. On November 30, flowed through 2" tubing 24 hours, 10 barrels of oil used in treating, 3 barrels of formation oil, gas gauged 340 M.C.F., FCP-160#, FTP-10#. On December 1, flowed through 2" tubing 24 hours, 3 barrels oil and 2 barrels water, gas gauged 390 M.C.F., FCP-160#, FTP-10#. On December 2, flowed through 2" tubing 24 hours, 5 barrels of oil and 2 barrels of water, gas gauged 340 M.C.F., FCP-160#, FTP-10#. On December 3, flowed through 2" tubing 24 hours, 10 barrels of oil and 3 barrels of water, gas gauged 340 M.C.F., FCP-160#, FTP-10#. On December 4, flowed through 2" tubing 24 hours, 8 barrels of oil and 3 barrels of water. gas gauged 340 M.C.F., FCP-160#, FTP-10#.

FORM 16-136 (REV. 9/60)

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 C. W. Johnson WELL NO. 1 DISTRICT Eastern Kansas
SEC. 14 T. 26S R. 16W COUNTY Edwards AFE NO. 6828
BLOCK _____ SURVEY _____ STATE Kansas

TYPE OF WORK PLUG AND ABANDON WELL

Date commenced April 18, 1961 Date completed April 22, 1961
Deepened from _____ to _____ Total Depth _____
Plugged back from 4448' to Surface P.B.T.D. _____
Cleaned out from _____ to _____
Production before 0.42 bbls. oil 1½ bbls. water 92.5 M cu. ft. gas.
Production after _____ bbls. oil _____ bbls. water _____ cu. ft. gas.
Tools owned by; Ace Pipe Pulling Company Kind used; _____ No. days rig time; 5
Cost of Job $ _____ Revised Estimated Payout (Mos.) _____

TREATMENT RECORD

DATE	TYPE TREATMENT	INTERVAL TREATED	AMOUNT OF TREATMENT

CHANGES IN CASING RECORD

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

SIZE	WT.	THDS.	KIND	COND	LEFT IN					PULLED OUT				
					Jts.	LTM Feet	LTM In.	WTM Feet	WTM In.	Jts.	LTM Feet	LTM In.	WTM Feet	WTM In.
5½"OD	14#	8R	J55 R3 SS	E	36	1139	6	1147	9	99	3324	0	3379	6
5½"OD	14#	8R	J55 R3 SS	D						1	34	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 this well was no longer profitable to operate and as there were no other probable productive zones to test, regular authority was granted to plug and abandon it.

On April 18, 1961, moved in and rigged up plugging machine and plugged the well as follows:

Sand	4448' to 4380'
5 sacks of cement	4380' to 4340'

Loaded hole with water and shot off 5½" casing at 3400' and 3340', unable to pull casing. Spotted 40 barrels of oil behind 5½" casing. Pulled 3358' of 5½" casing.

Heavy mud	4340' to 240'
Rock bridge and Halliburton plug	240' to 230'
20 sacks of cement	230' to 170'
Mud	170' to 40'
Rock bridge and Halliburton plug	40' to 30'
10 sacks of cement	30' to 4'
Surface soil	4' to Surface

Plugged and abandoned April 22, 1961.