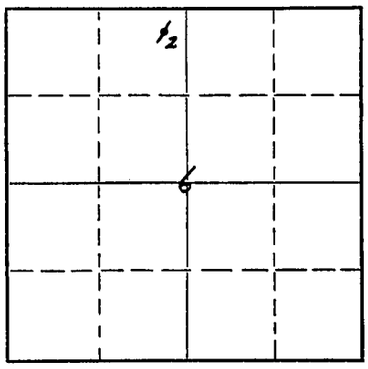
15-163-03282-0000

STATE OF KANSAS
STATE CORPORATION COMMISSION

Give All Information Completely
Make Required Affidavit
Mail or Deliver Report to:
Conservation Division
State Corporation Commission
800 Bitting Building
Wichita, Kansas

WELL PLUGGING RECORD

NORTH



Locate well correctly on above Section Plat

Rooks County. Sec. 6 Twp. 10S Rge. ___ (E) 19 (W)
Location as "NE/CNW¼SW¼" or footage from lines NE/4 NE/4 NW/4
Lease Owner Skelly Oil Company
Lease Name Chas. Pywell Well No. 2
Office Address Box 1650, Tulsa, Oklahoma
Character of Well (completed as Oil, Gas or Dry Hole) Oil
Date well completed November 10, 1952
Application for plugging filed July 16, 1952
Application for plugging approved July 19, 1954
Plugging commenced July 13, 1954
Plugging completed July 15, 1954
Reason for abandonment of well or producing formation Depleted Oil Well

If a producing well is abandoned, date of last production July 10, 1954
Was permission obtained from the Conservation Division or its agents before plugging was commenced? Yes (verbally)

Name of Conservation Agent who supervised plugging of this well Mr. Eldon Petty
Producing formation Arbuckle Lime Depth to top 3781' Bottom 3798' Total Depth of Well 3798 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	3781'	3798'	8-5/8"	267'0"	None
				5-1/2"	3810'0"	2285'3"

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	3798'	to	3770'
4 sacks of cement	3770'	to	3738'
Mud	3738'	to	275'
15 sacks of cement	275'	to	230'
Mud	230'	to	35'
Rock bridge	35'	to	30'
10 sacks of cement	30'	to	6'
Surface soil	6'	to	0'

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

Name of Plugging Contractor Ace Pipe Pulling Company
Address 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 4th day of August, 1954

Josephine L. Johnson
Notary Public.

My commission expires April 7, 1955

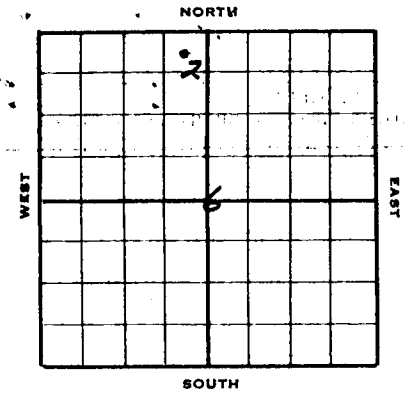
24-7368-S 3-53-20M

RECEIVED
AUG 5 1954
CONSERVATION DIVISION
Wichita, Kansas

PLUGGING
FILE SEC 6 T 10 R 19W
BOOK PAGE 49 LINE 16

Form N47A Rev.

15-163-03282-0000



SKELLY OIL COMPANY

2232'RB
2229'DF
2224'GR

Well Record

Lease Name and No. Chas. Fywell Well No. 2 Elev. 34998

Lease Description NW/4 Section 6-10S-19W, Rooks County, Kansas

Location made 10/10/52 19 by P. J. Cussen

330 feet from North line 330 feet from East line } NW/4 Sec. 6

feet from South line feet from West line } of

Work com'd 10/11 52 Rig comp'd 10/13 52 Drlg. com'd 10/13 52 Drlg. comp'd 11/7 52

Rig Contractor Claude Wentworth Drilling Co., Inc.

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

Rotary Drilling from 0' to 3785' Cable Tool Drilling from 3785' to 3798'

Commenced Producing November 10, 19 52 { Initial Prod. before shot or acid XXXX 2 gal. oil no wtr/hr. Bbls.
Initial Prod. after shot or acid XXXX POB 8 hrs. 25½ BO w/ trace wtr. Dstd. 24 hr. FCC potential 77 Bbls

Dry Gas Well Press Volume Cu. ft.

Casing Head Gas Pressure Volume Cu. ft.

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

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

PRODUCING FORMATION Arbuckle Lime (Name) Top 3781' Bottom 3798' TOTAL DEPTH 3798'

CASING RECORD

OD Size	Wt.	Thds.	Where Set	PULLED OUT Jts.	PULLED OUT Feet	PULLED OUT In.	LEFT IN Jts.	LEFT IN Feet	LEFT IN In.	KIND	Cond'n	CEMENTING Sacks Used	CEMENTING Method Employed
8-5/8"	22.7	J	275'				7	267	0	Armco SW	A	150	Halliburton
5-1/2"	14#	8R					25	816	7	H40 R2 SS	D		
5-1/2"	14#	8R					1	12	10	J55 R2 SS	B		
5-1/2"	14#	8R	3781'				93	2981	7	J55 R2 SW	A	400	Halliburton

(8-5/8" casing set 5' in cellar and 5½" cased to derrick floor)

Perforations left open: 3742'-3750' w/ 48 shots

Used 1 - 5½"OD Larkin Combination Guide & 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	11/4/52	11/8/52	11/15/52	11/19/52
Acid Used Size Shot	500 Gals. Qts.	500 Gals. Qts.	500 Gals. Qts.	1000 Gals. Qts.
Shot Between	3781 Ft. and 3791 Ft.	3781 Ft. and 3798 Ft.	3742 Ft. and 3750 Ft.	3781 Ft. and 3785 Ft.
Size of Shell				
Put in by (Co.)	Dowell Inc.	Dowell Inc.	Dowell Inc.	Dowell Inc.
Length anchor				
Distance below Cas'g				
Damage to Casing or Casing Shoulder				

SIGNIFICANT GEOLOGICAL FORMATIONS

NAME	Top	Bottom	GAS From	GAS To	OIL From	OIL To	REMARKS
Heebner Shale	3434'						
Lansing Lime	3472'				3555'	3561'	Good por., fair stain
Conglomerate	3722'				3748'	3754'	Good por., fair saturation
Simpson Shale	3754'						
Arbuckle Lime	3779'				3780'	3785'	Fair por. & saturation
					3787½	3789'	Fair por, show free oil
					3791'	3792½	Fair por. w/ oil. sat.
					3796½	3798	Fair por. and saturation

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						" " " " "

RECEIVED
STATE CORPORATION COMMISSION

(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 and sand	0	100	
Shale and sand	100	275	Set and cemented 8-5/8" OD, 22.7#, R-3, Armco S.W., .J. steel casing (A cond.) at 275' with 150 sacks of Pozmix cement and 2% calcium chloride. Cement circulated.
Shale	275	470	
Shale and sand	470	1070	
Shale and shells	1070	1425	
Shale	1425	1610	
Shale and shells	1610	2070	
Shale and lime	2070	2510	
Lime	2510	2550	
Shale and lime	2550	2760	
Lime	2760	3060	
Shale and lime	3060	3315	
Lime	3315	3621	TOP HEEBNER SHALE 3434' TOP LANSING LIME 3472'
Gray, dense to oolitic lime	3621	3625	Light stain and porosity
Lime	3625	3632	
White, finely crystalline lime	3632	3635	Poor to fair porosity, fair spotted stain
Lime	3635	3655	
White to gray finely crystalline partly oolitic lime	3655	3661	Good porosity, fair stain
Lime	3661	3685	
Gray to white dense lime, partly oolitic	3685	3688	Poor to fair porosity, light spotted stain
Lime and shale	3688	3748	TOP CONGLOMERATE 3722'
Gray fine to medium grained sand and chert	3748	3754	Good porosity and fair saturation
Lime and shale	3754	3780	TOP SIMPSON SHALE 3754' TOP ARBUCKLE LIME 3779'
Gray, fine to medium crystalline dolomite	3780	3785	Fair porosity and saturation Set and cemented 817' of 5½"OD, 14#, 8R thd., R-2, H-40, S.E. casing (D cond.); 13' of 5½"OD, 14#, 8R thd., R-2, J-55, S.E. casing (B cond.); and 2982' of 5½"OD, 14#, 8R thd., R-2, J-55, R.E.W. ettel casing (A cond.) at 3781' with 400 sacks of Pozmix cement. Finished cementing at 7:00 p.m. 10/26/52. Halliburton Temperature Survey showed top of cement behind 5½" casing at 2312'. Moved in and rigged up cable tools and bailed the hole dry on October 31, and 5½" casing tested dry. Drilled cement plug and cleaned out to bottom, tested 3 hours, no shows.
White finely crystalline dolomite	3785	3787½	Fair porosity, very light stain, no shows
White crystalline dolomite	3787½	3789	Fair porosity, light stain and saturation, show of free oil, no fill up.
Same	3789	3791	No increase in oil. Bailed and tested 2 hours, 2 gallons of oil and no water per hour.

On November 4, ran 2" tubing and treated with 500 gallons of Dowell "XXF-26 N-17" acid as follows:

ACID TREATMENT NO. 1 - Between 3781' and 3791'

Treatment put in 11/4/52 by Dowell Inc., using 500 gallons of acid and 94 barrels of oil to fill hole and flush.

TIME	CP	TP	REMARKS
10:12 am			Start oil
10:27 am	300#	300#	Start acid via tubing
10:52 am	300#	0#	500 gallons of acid in
10:55 am	300#	0#	Start oil
11:00 am	300#	0#	Acid on bottom
11:45 am	275#	Vac.	Start flush
1:30 pm	500#	200#	94 gallons of acid in
6:30 pm	500#	350#	315 gallons of acid in
10:36 pm	475#	425#	500 gallons of acid in

swabbed through 2" tubing 6 hours, 80 barrels of oil (used in treating) with trace of acid water, swabbing 500' off bottom. On November 5, ran rods and POB 16 hours, 18 barrels of oil and 3 barrels of water; last 6 hours of test pumped 1/4 barrel of oil per hour, showing 6% water. Pulled rods and tubing, bailed hole dry, then tested 1 hour 3/4 barrel of oil with trace of water. Drilled deeper:

Light gray to brown	3791	3792½	Fair porosity with slight saturation with 10% green shale, no increase in fluid
Same w/ slight increase in green shale	3792½	3794	No increase in fluid
Same	3794	3795	No increase in fluid
Gray and brown finely crystalline dolomite	3795	3796½	Poor porosity and stain, no increase in fluid
Gray and brown, finely crystalline dolomite	3796½	3798	Fair porosity and saturation
TOTAL DEPTH		3798	

Bailed and tested 3 hours, 1½ barrels of oil per hour, no water. Ran rods and POB 3 hours, 4.64 barrels of oil and no water. On November 8, pulled rods and treated with 500 gallons of Dowell "XXF-26 W-17" acid as follows:

ACID TREATMENT NO. 2 - Between 3781' and 3798'

Treatment put in 11/8/52 by Dowell Inc., using 500 gallons of acid and 94 barrels of oil to fill hole and flush.

TIME	CP	TP	REMARKS
2:25 pm	300#	300#	Filled hole with 82 barrels of oil
2:28 pm	0#	0#	Start acid
2:37 pm	250#	0#	Acid on bottom
2:47 pm	100#	Vac.	St. flush
2:57 pm	100#	Vac.	189 gallons of acid in formation
3:04 pm	100#	Vac.	270 gallons of acid in formation
3:28 pm	200#	175#	380 gallons of acid in formation
3:51 pm	300#	300#	500 gallons of acid in formation

After acid treatment swabbed through 2" tubing 3 hours, 51 barrels of oil (used in treating). Ran rods and POB 6 hours, 45 barrels of oil (used in treating); then POB 6 hours, 24 barrels of oil with trace of water.

On November 9, POB 6 hours, 12 barrels of oil with 1% water. On November 10, POB 8 hours on physical potential test, 25.52 barrels of oil with trace of water to establish 24 hour State Corporation Commission potential of 77 barrels. This potential allows 25 barrels per day for the remainder of November, 1952.

On November 10, pulled rods and tubing and ran Gamma Ray Survey. Ran 2" tubing with Baker packer, filled hole with 126 barrels of oil and set packer at 3750'. Input 4 barrels per minute at 2400#, then treated with Dowell Inc. sand-oil-frac as follows:

SAND-OIL-FRAC TREATMENT NO. 1 - Between 3781' and 3798'

Used 200 gallons of heavy crude oil
1500# of sand
Maximum TP-2100#, broke to 1500#
Used 300 gallons of plugging agent and pressured to 5400# and ran second stage
Used 1500 gallons heavy crude oil
2250# of sand
Pumped 13 barrels into formation at 6500# pressure without break.
Reversed out 15 barrels of heavy oil

Pulled tubing and packer, sand pumped and swabbed through 5½" casing 7 hours, 94 barrels of oil and no water (oil used in treating). On November 13, swabbed and cleaned out 24 hours, 60 barrels of oil (used in treating) showing 1% water. On November 14, set Baker bridging plug at 3766', bailed hole dry and 5½" casing tested dry. Perforated 5½" casing from 3742' to 3750' with 48 holes by Lane-Wells. Tested 6 hours, 1 gallon of oil per hour, no water.

On November 15, treated through 5½" casing from 3742' to 3750' with 500 gallons of Dowell "XXF-26 W-17" acid as follows:

ACID TREATMENT NO. 3 - Between 3742' and 3750'

Treatment put in 11/15/52 by Dowell Inc., using 500 gallons of acid & using 92 barrels of oil to fill and flush.

TIME	CP	TP	REMARKS
11:16 am			500 gallons of acid in, start oil
12:17 pm	0#		Hole filled
4:45 pm	1000#		105 gallons of acid in formation
8:10 pm	1000#		147 gallons of acid in formation
8:20 pm	1000#		230 gallons of acid in formation
8:34 pm	1000#		500 gallons of acid in formation

Swabbed through 5½" casing 8 hours, 92 barrels of oil (used in treating) with trace of acid water and swabbed the hole dry. Bailed and tested 1 to 2 gallons of oil per hour. Ran 2" tubing with Baker packer and loaded hole with 76 barrels of oil. Set packer at 3700' and ran Halliburton sand-oil-frac treatment as follows:

SAND-OIL-FRAC TREATMENT NO. 2 - Between 3742' and 3750'

Used 2000 gallons of heavy crude oil
1500# of sand
Maximum TP-3400#, broke to 2400#
Used 58 barrels of light oil to flush
Time 55 minutes

Pulled tubing and packer and swabbed and sand pumped 7 hours, 96 barrels of oil (used in treating) with trace of water and swabbed to bottom. On November 18, swabbed and sand pumped through 5½" casing intermittently 5 hours, 1/4 barrel of oil per hour. Drove Lane-Wells bridging plug from 3766' to 3798' and perforated open hole from 3781' to 3784' with six Lane-Wells Kone shots. Plugged back in open hole from 3798' to 3785' with sand and Dowell Gel flakes. Ran 2" tubing and set Baker retainer at 3760' with 14' nipple below packer and treated from 3781' to 3785' with 1000 gallons of Dowell "XXF-26 W-17" acid as follows:

ACID TREATMENT NO. 4 - Between 3781' and 3785'

Treatment put in 11/19/52 by Dowell Inc., using 1000 gallons of acid and 15 barrels of oil to flush.

TIME	CP	TP	REMARKS
6:25 pm			Start acid
6:29 pm			330 gallons of acid in, set packer
7:22 pm		300#	630 gallons of acid in, on bottom
7:30 pm	0#	Vac.	670 gallons of acid in
7:35 pm	0#	Vac.	730 gallons of acid in
7:43 pm	0#	Vac.	850 gallons of acid in
7:49 pm	0#	Vac.	1000 gallons of acid in, start flush
8:48 pm	0#	50#	12 barrels of oil in to flush
9:13 pm	0#	125#	Flushed with 15 barrels of oil

Pulled tubing and packer and cleaned out with sand pump 2 hours. Then swabbed through 5½" casing 1 hour, 42 barrels of oil and 1 barrel of acid water. On November 20, swabbed and ran sand pump 3 hours, 27 barrels of oil and 1 barrel of water. Drilled retainer and cleaned out to 3798'.

On November 21, ran 2" tubing and rods and POB 12 hours, 50 barrels of oil and 12 barrels of water. On November 22, POB 8 hours, 40 barrels of oil and 9 barrels of water. Moved out cable tools.

SLOPE TEST DATA: Tests were taken at 500', 1100', 1350', 2000', 2450', and 3050' with no deviation from vertical noted.

TEST LANSING LIME

Date Commenced: February 24, 1954
Date Completed: March 14, 1954

Total Depth: 3798'

Production before: 5 barrels of oil and 21 barrels of water
Production after: 6 barrels of oil and 46 barrels of water

Producing From: Arbuckle Lime

- - - - -

Moved in and rigged up cable tools of A. L. Copeland on February 24, 1954. On February 25, set Baker bridging plug at 3678' and swabbed and bailed hole dry, 5½" casing tested dry. Perforated 5½" casing from 3657' to 3666' with 81 holes by Lane-Wells. Tested 4 hours, slight show of oil. On February 26, treated through 5½" casing with 500 gallons of Halliburton 15% acid as follows:

ACID TREATMENT NO. 5 - Between 3657' and 3666'

Treatment put in 2/26/54 by Halliburton, using 500 gallons of acid and 94 barrels of oil to fill hole and flush.

TIME	OP	TP	REMARKS
9:53 am			500 gallons of acid in, start oil
10:10 am			Filled hole with 82 barrels of oil, acid on bottom
10:14 am	1000#		
10:17 am	700#		105 gallons of acid in formation
10:19 am	600#		250 gallons of acid in formation
10:20 am	600#		500 gallons of acid in formation
			Flushed with 12 barrels of oil

Swabbed through 5½" casing 4 hours, 94 barrels of oil used in treating and swabbed to bottom. Bailed and tested 12 hours, 2 gallons of oil and 2 gallons of water per hour. On February 27, set Baker bridging plug at 3518' and bailed hole dry. Perforated 5½" casing from 3502' to 3508' with 54 holes by Lane-Wells, no shows. Treated through 5½" casing with 500 gallons of Halliburton 15% acid as follows:

ACID TREATMENT NO. 6 - Between 3502' and 3508'

Treatment put in 2/27/54 by Halliburton, using 500 gallons of acid and 90 barrels of oil to fill hole and flush.

TIME	OP	TP	REMARKS
2:45 pm			500 gallons of acid in hole
3:04 pm			Acid on formation
3:06 pm	1000#		
3:09 pm	700#		84 gallons of acid in formation
3:11 pm	600#		105 gallons of acid in formation
3:12 pm	500#		500 gallons of acid in formation
			Flushed with 12 barrels of oil

Swabbed through 5½" casing 3 hours, 90 barrels of oil used in treating with show of water. Bailed and tested 12 hours, 1 barrel of water per hour with trace of oil. On February 28, drove Baker bridging plug from 3518' to 3678', ran 2" tubing and set Halliburton BP retainer at 3480'. Cemented off perforations from 3502' to 3508' and 3657' to 3666' with 300 sacks of common cement and 2% calcium chloride, estimated 280 sacks below retainer at 3500'-TP. Reversed out 20 sacks, pulled 2" tubing and shut down for cement to set.

On March 2, swabbed and bailed hole dry to retainer at 3480', 5½" casing tested dry. Drilled retainer and on March 3, drilled cement and cleaned out to bottom, 3798'. On March 6, ran 2" tubing and rods and well would not pump. On March 7, pulled and reran rods and PCB 17 hours, 95 barrels of water with trace of oil. Moved out cable tools and moved in pumping equipment. Pumped the next seven days as follows:

DATE	HOURS PUMPED	BBLS. OIL	BBLS. WTR.
3-8-54	20	Scum	48
3-9-54	24	Trace	48
3-10-54	24	2	36
3-11-54	24	5	43
3-12-54	24	5	43
3-13-54	24	6	51
3-14-54	24	8	46

15-163-03282-0000

N-136 Rev. 1M

SKELLY OIL COMPANY

REPORT OF 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.

Chas. Lywell — LEASE; 2 — WELL NO.; Western Kansas — DISTRICT

SEC. 6 T. 10 R 19W; COUNTY Rooks; 6869 JOB NO.

SURVEY _____ BLOCK _____; STATE Kansas

CLEANING OUT RECORD

Date commenced ..... 19 .....

Date completed ..... 19 .....

Cleaned out from ..... to ..... T. D. .....

Prod. before ..... bbls. oil ..... bbls. water ..... cu. ft gas

Prod. after ..... bbls. oil ..... bbls. water ..... cu. ft gas

Kind of tools used: .....

Tools owned by:

PLUGGING BACK OR DEEPENING RECORD

Date commenced ..... July 13, 19 54

Date completed ..... July 15, 19 54

Plugged back ~~or deepened~~ from 3798' to 0' T.D. 3798'

Prod. before 4 bbls. oil 14 bbls. water --- cu. ft. gas

Prod. after ..... bbls. oil ..... bbls. water ..... cu. ft. gas

Kind of tools used: Ace Pipe Pulling Company

Tools owned by:

SHOT RECORD

Date				
Size shot	Qts.	Qts.	Qts.	Qts.
Shot between	Ft. and Ft.	Ft. and Ft.	Ft. and Ft.	Ft. and Ft.
Size of shell				
Put in by (Co.)				
Length anchor				
Distance below casing				
Damage to casing or casing shoulder				

CHANGES IN CASING RECORD

SIZE	Wt.	Thds.	Where Set	PULLED OUT Jts.	PULLED OUT Feet	PULLED OUT In.	LEFT IN Jts.	LEFT IN Feet	LEFT IN In.	KIND	Cond'n	CEMENTING Sacks Used	CEMENTING Method Employed
5-1/2"	14#	8R		71	2285	3	48	1524	9	J55 R2	B		

.....Liner set at..... Length..... Perforated at .....

Packer set at..... Size and kind.....

.....

Superintendent.

REMARKS (Give review of work accomplished and any other comment of interest) ... July 13, 1954, pulled rods and tubing and moved in plugging machine of Ace Pipe Pulling Company, and plugged the well as follows:

Sand	3799' to 3770'
4 sacks of cement	3770' to 3738'

Shot off 5½" casing at 2278' and pulled 71 joints (2285'3")of 5½" OD, 14#, 8R thd., R-2, J-55, [illegible] steel casing (8 cond.)

Mud	3738' to 275'
15 sacks of cement	275' to 230'
Mud	230' to 35'
Rock bridge	35' to 30'
10 sacks of cement	30' to 6'
Surface soil	6' to 0'

Plugged and abandoned July 15, 1954.

RECORD OF FORMATIONS

FORMATION	TOP	BOTTOM	REMARKS Indicate Casing Points, Describe Shows of Oil, Gas and Water, etc.