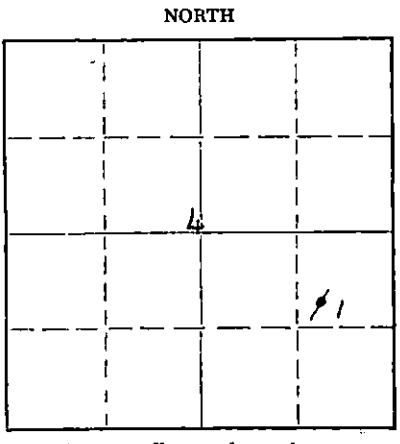


Give All Information Completely
Make Required Affidavit
Mail or Deliver Report to:
Conservation Division
State Corporation Commission
211 No. Broadway
Wichita, Kansas

WELL PLUGGING RECORD

Pratt County, Sec. 4 Twp. 26S Rge. (E) 13 (W)

Location as "NE/CNW/SW" or footage from lines SW/4 NE/4 SE/4
Lease Owner Skelly Oil Company
Lease Name Frisbie S.W.D. System Well No. 1
Office Address 1860 Lincoln St., Denver, Colo.
Character of Well (completed as Oil, Gas or Dry Hole) Dry Hole - SWDW
Date well completed September 16, 19 54
Application for plugging filed July 18, 19 67
Application for plugging approved July 20, 19 67
Plugging commenced August 14, 19 67
Plugging completed August 18, 19 67
Reason for abandonment of well or producing formation No longer needed for disposal purposes



Locate well correctly on above Section Plat

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 Mr. A. Elving
Producing formation Depth to top Bottom Total Depth of Well 4850 Feet
Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS CASING RECORD

FORMATION	CONTENT	FROM	TO	SIZE OD	PUT IN	PULLED OUT
				8-5/8"	787'	None
				5-1/2"	4432 1/2'	2709 1/2'

RECEIVED
STATE CORPORATION COMMISSION
SEP 7 1967
9-7-67
CONSERVATION DIVISION
WICHITA, KANSAS

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.

Rock bridge	3810' to 3800'
Sand	3800' to 3700'
20 sacks of cement	3700' to 3560'
Mud laden fluid	3560' to 300'
Rock bridge	300' to 290'
16 sacks of cement	290' to 221'
Mud laden fluid	221' to 40'
Rock bridge	40' to 30'
10 sacks of cement	30' to Base of cellar
Surface soil	Cellar to Surface

(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 Colorado, COUNTY OF Denver, ss.
Leland Franz (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) Leland Franz
1860 Lincoln St., Denver, Colo. 80203
(Address)

SUBSCRIBED AND SWORN TO before me this 5th day of September, 19 67

Mary E. Luttrell
Notary Public.

My commission expires June 17, 1970

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 Frisbie Salt Water Disp. System WELL NO. 1 DISTRICT Rocky Mountain
 SEC. 4 T. 26S R. 13W COUNTY Pratt AFE NO. 22633
 BLOCK _____ SURVEY _____ STATE Kansas

TYPE OF WORK PLUG AND ABANDON WELL

Date commenced August 14, 1967 Date completed August 18, 1968
 Deepened from _____ to _____ Total Depth _____
 Plugged back from 4850' to Surface P.B.T.D. _____
 Cleaned out from _____ to _____
 Production before _____ bbls. oil _____ bbls. water _____ cu. ft. gas.
 Production after _____ bbls. oil _____ bbls. water _____ cu. ft. gas.
 Tools owned by: Ralph Comstock Pipe Pulling, Inc. Kind used: Plugging Mach. No. days rig time: Contr.
 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. Cas'g.	
Production					
Liner					Top liner;

SIZE	WT.	THDS.	KIND	COND.	LEFT IN				PULLED OUT				
					Jts.	LTM		Jts.	LTM				
						Feet	In.		Feet	In.	Feet	In.	
5-1/2"	14.76	8R	R2 J55 SS	C, B55	1711	0	1723	0	87	2690	6	2709	6
	15.27			D									

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 wells being served by this System are being plugged and abandoned, there is no further need to retain it for disposal purposes. Regular authority was granted to plug and abandon it.

On August 14, 1967, moved in and rigged up plugging machine of Ralph Comstock Pipe Pulling, Inc. and plugged the well as follows:

Rock bridge	3810' to 3800'
Sand	3800' to 3700'
20 sacks of cement	3700' to 3560'

Shot 5 1/2" casing at 3267', 3010', 2827', 2762' and 2704'. Pulled 87 joints (2729.95') of 5 1/2" casing.

Mud laden fluid	3560' to 300'
Rock bridge	300' to 290'
16 sacks of cement	290' to 221'
Mud laden fluid	221' to 40'
Rock bridge	40' to 30'
10 sacks of cement	30' to Base of cellar
Surface soil	Cellar to Surface

Plugged and abandoned August 18, 1967.

SKELLY OIL COMPANY
CHANGE IN WELL RECORD

RECEIVED
STATE CORPORATION COMMISSION
SEP 7 1967
CONSERVATION DIVISION
Wichita, Kansas

WELL NO. _____ DISTRICT _____
COUNTY _____
STATE _____

DATE COMMENCED _____
DEPT. _____
TYPE OF WORK _____
REMARKS _____

DATE	TYPE OF TREATMENT	INTERVAL TREATED	AMOUNT OF TREATMENT

CHANGES IN CASING RECORD

DATE	WHERE SET	DEPTH	REMARKS

PRODUCING FROM

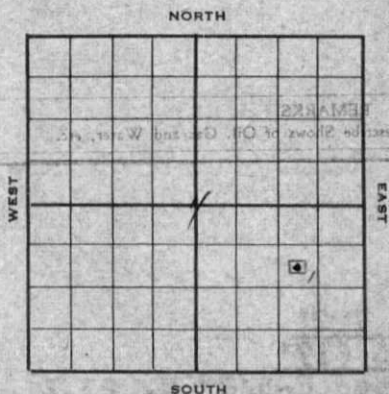
DATE	FORMATION	DEPTH	REMARKS

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

TOP _____ DEPTH _____ BOTTOM _____

FORM NO. _____

SKELLY OIL COMPANY



Well Record
 Lease Name and No. Frisbie S.W.D.S. Well No. 1 Elev. 1927'
 Lease Description 2-acre rectangular tract of land immediately surrounding well No. 1 in SE/4 Sec. 4-26-13W, Pratt Co. Kans.
 Location made May 17, 19 54 by T. L. Dix
 feet from North line 990 feet from East line 8/2 SE/4
330 feet from South line feet from West line of Sec. 4

Work com'd. 5/21 19 54 Rig com'p'd. 5/22 19 54 Drlg. com'd. 5/22 19 54 Drlg. com'p'd. 9/15 19 54
 Rig Contractor Claude Wentworth Drilling Co., Inc.
 Drilling Contractor Wentworth Drilling Company & W. L. Copeland Drlg. Company
 Rotary Drilling from 0' to 4397' Cable Tool Drilling from 4397' to 4850'
 well completed 9/16/54
 Commenced Producing 19 54 Initial Prod. before shot or acid input Bbls.
 Initial Prod. after shot or acid 13 bbls. wtr./min. by gravity Bbls.
 Dry Gas Well Press. Volume Cu. ft.
 Casing Head Gas Pressure Volume Cu. ft.
 Braden Head (8-5/8 Size x 51" OD) Gas Pressure Volume Cu. ft.
 Braden Head () Gas Pressure Volume Cu. ft.

PRODUCING FORMATION Basal Arbuckle Top 4397' Bottom 4850' TOTAL DEPTH 4850'
 (Name)

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	J	795'				20	787	0	Arco SA A	450	Halliburton	
	5-1/2"	15.8	8L	(Lot #113)				32	963	3	J55 R2 SA A			
	5-1/2"	14	8L	4397'				110	3469	3	J55 R2 SA A	200	Halliburton	
(8-5/8" casing set 2' in collar and 6" cased to derrick floor)														

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	6/17/54	7/3/54	7/4/54	
Acid Used				
Size Shot		Gals. 500	Gals. 250	Gals.
Shot Between	4306 Ft. and 4310 Ft.	4225 Ft. and 4234 Ft.	4190 Ft. and 4203 Ft.	For remaining
Size of Shell				treatments see
Put in by (Co.)	Halliburton	Halliburton	Halliburton	remarks
Length anchor				
Distance below Cas'g				
Damage to Casing or Casing Shoulder	and-Oil-Free			

SIGNIFICANT GEOLOGICAL FORMATIONS

NAME	Top	Bottom	GAS		OIL		REMARKS
			From	To	From	To	
Topeka Lime	3192'						
Heobner Shale	3533'						
Lansing Lime	3731'						
Mississippi Lime	4160'						
Viola Lime	4228'						
Simpson Sand	4301'						
Arbuckle Lime	4384'						

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	70	
Sand and shale	70	470	
Shale and shells	470	750	
Red bed, shale and shells	750	790	
Anhydrite	790	810	<u>TOP ANHYDRITE 792'</u>
Shale and shells	810	835	<u>BASE ANHYDRITE 817'</u>
			Set and cemented 8-5/8" ID, 22.7#, Arco S.S., S.J. steel casing (A cond.) at 795' with 450 sacks of cement, 2% Cel and 1% calcium chloride. Cement circulated.
Shale	835	1050	
Shale and shells	1050	1235	
Shale and lime	1235	1365	<u>TOP WALLINGTON 1293'</u>
Shale and shells	1365	1730	
Shale and lime	1730	1980	<u>BASE WALLINGTON 1933'</u>
Lime	1980	2090	
Lime and shale	2090	2160	
Lime	2160	2220	
Lime and shale	2220	3768	<u>NEAR TOP 3792'</u> <u>TOP HANCOCK SHALE 3533'</u> <u>TOP BROWN LIME 3698'</u> <u>TOP LANSING LIME 3731'</u>
Lime	3768	3808	
Gray, fine crystalline lime	3808	3813	fair porosity, slight oil stain, slight show of free oil in wet samples
Lime	3813	3819	
Gray, fine crystalline lime	3819	3830	Some show of oil
Lime	3830	3935	Ran Halliburton drill stem test, packer set at 3806', open 1 hour, strong blow throughout, recovered 160' of oil and gas cut mud and 90' of salt water, initial flow 24, final flow 108, SHP-1025.
Lime	3935	4010	Ran Johnston drill stem test, packer set at 3901', open 1 hour, fair blow throughout, recovered 135' of gas cut mud, slightly salty, and 15' of salt water, initial flow 0, final flow 0, SHP-1020, hydrostatic pressure 2220.
Lime and shale	4010	4050	<u>BASE KANSAS CITY LIME 4031'</u>
Lime	4050	4085	<u>TOP HANCOCK LIME 4052'</u>
Brown tripolitic chert	4085	4091	poor porosity, dead oil stain
Lime and shale	4091	4109	<u>TOP CONGLOMERATE 4102'</u>
Coarse grained poorly sorted sub-rounded friable sand	4109	4113	Good saturation
Lime and shale	4113	4126	Ran Halliburton drill stem test, top packer set at 4075', bottom packer at 4084', open 1 hour, strong blow of air decreasing in intensity, gas to surface in 20 minutes, gas too weak to gauge, recovered 50' of drilling mud, initial flow 48, final flow 60, SHP-1482, hydrostatic pressure 2253.
Lime and shale	4126	4145	
Lime and shale	4145	4157	<u>TOP MISSISSIPPI LIME 4160'</u>
Light gray to white semi-opaque light oil stained chert	4157	4175	
Lime and shale	4175	4225	
Lime, shale and chert	4225	4228	<u>TOP KINDERHOOK SHALE 4225'</u> <u>TOP VIOLET LIME 4228'</u>
Gray opaque, partly tripolitic chert	4228	4235	poor porosity, very poor dead oil stain
Lime and shale	4235	4303	<u>TOP SIMPSON SHALE 4296'</u> <u>TOP SIMPSON SAND 4301'</u>
Cored from 4303' to 4345' - Recovered 42'			
Top 1' - Green, very sandy shale			
Next 3' - Gray to brown, medium grained very shaly tight sand with very little oil			
Next 6" - Green shale			
Next 2'6" - Gray to brown, medium grained, very shaly tight sand, showing very slight amount of oil			
Next 3' - Gray, coarse grained shaly dolomitic sand, slight odor			

- Next 6' - Gray, coarse grained shaly dolomitic sand, slight vuggy porosity, fair stain and odor.
 Next 5' - Dark gray, fine grained, tight dolomitic sand, no shows
 Next 3' - Dark gray very dense dolomite
 Next 2' - Dark green pyritic shale
 Next 4' - Gray, very sandy shale
 Next 4' - Gray shaly quartzitic sand
 Next 8' - Dark gray slightly sandy shale

Shale	4345	4387	TOP ARBUCKLE LINE 4384'
Cream, fine crystalline sucrosic dolomite	4387	4397	Poor porosity, no shows Set and cemented 963'3" of 5 1/2" OD, 15.5#, 8R thd., R-2, J-55, S.S. casing (A cond.) Lot #113; and 3469'3" of 5 1/2" OD, 14#, 8R thd., R-2, J-55, S.S. casing (A cond.) at 4397' with 200 sacks of common cement and 2% aquagel. Finished cementing at 3:45 am 6/12/54.

Rigged up cable tools and bailed and cleaned out to 4365' on June 15. Ran Lane-wells Gamma Ray Survey and on June 16, perforated 5 1/2" casing from 4306' to 4310' with 22 holes by Lane-wells; bailed and tested 12 hours, 24 gallons of water with light scum of oil. On June 17, ran 2" tubing and set Halliburton MM packer at 4281'. Ran Halliburton Sand-Oil-Frac as follows:

SAND-OIL-FRAC TREATMENT NO. 1 - Between 4306' and 4310'

Used 4000# of sand
 65 barrels of heavy crude oil
 195 barrels of light crude oil to fill and flush
 Maximum TP-3100#, broke to 1900#
 Time 40 minutes

Pulled tubing and packer and swabbed through 5 1/2" casing 3 hours, 160 barrels of oil used in treating. Tried to run bailer to clean out to bottom, and bailer stopped at 3300'. Swedged out 5 1/2" casing with 4-3/4" swedge at 3300', then swabbed through 5 1/2" casing 4 hours, 48 barrels of water and stuck swab in 5 1/2" casing at 4350'. Cut drilling line and washed over and fished for swab from June 19 until July 2, when swab and tools were recovered.

On July 2, set Lane-wells bridging plug at 4282' and plugged back from 4282' to 4274' with 1 gallon of rock and 1 sack of cement. Perforated 5 1/2" casing from 4225' to 4234' with 54 holes by Lane-wells; bailed and tested 2 hours, 1 gallon of water with light scum of oil. Treated through 5 1/2" casing with 500 gallons of Halliburton 15% acid as follows:

ACID TREATMENT NO. 1 - Between 4225' and 4234'

Treatment put in 7/3/54 by Halliburton, using 500 gallons of acid and 106 barrels of oil to fill hole and flush.

TIME	CP	TP	REMARKS
11:10 pm	400#		Start acid
11:45 pm	1500#		Acid on bottom
12:00 am	900#		100 gallons of acid in formation
12:15 am	900#		500 gallons of acid in formation

Swabbed through 5 1/2" casing 3 hours, 93 barrels of oil used in treating. On July 3, swabbed through 5 1/2" casing 1 hour, 13 barrels of oil used in treating; then swabbed 5 hours, 15 barrels of salt water.

Set Lane-wells bridging plug at 4220' and 5 1/2" casing tested dry. Plugged back from 4220' to 4214' with 1 gallon of rock and 1 sack of cement. Perforated 5 1/2" casing from 4190' to 4203' with 78 holes by Lane-wells; bailed and tested 2 hours, 1 pint of water with scum of oil. Treated through 5 1/2" casing from 4190' to 4203' with 250 gallons of Halliburton MCA acid as follows:

ACID TREATMENT NO. 2 - Between 4190' and 4203'

Treatment put in 7/4/54 by Halliburton, using 250 gallons of acid and 105 barrels of oil to fill hole and flush.

TIME	CP	TP	REMARKS
11:20 am	Vac.		Start acid
12:00 am	300#		Acid on bottom
12:05 pm	200#		125 gallons of acid in formation
12:10 pm	100#		250 gallons of acid in formation

Swabbed through 5 1/2" casing 4 hours, 105 barrels of oil used in treating; then swabbed 2 hours, 6 barrels of acid water. On July 4, tested 5 hours, 10 barrels of salt water and no oil. Set Lane-wells bridging plug at 4185'; bailed and tested 1 hour, 5 1/2" casing tested dry.

Plugged back from 4185' to 4180 1/2' with 1/2 sack of cement and 1 gallon of rock. Perforated 5 1/2" casing from 4151' to 4178' with 102 holes by Lane-wells; bailed and tested 11 hours, 1 1/2 barrels of salt water per hour.

Drilled out Lane-wells bridging plugs at 4185' and at 4220'. Bailed and cleaned out to 4274'. On July 5, ran 2" tubing and set Halliburton DM retainer at 4143' and cemented off perforations from 4234' to 4225', 4203' to 4190', and 4178' to 4161' with 200 sacks of cement, maximum TP-3500%. Pulled 2" tubing and swabbed the hole dry and cement job tested OK. Perforated 5 1/2" casing from 4103' to 4112' with 54 holes by Lane-wells; bailed and tested 2 hours, 4 gallons of water and no oil. On July 8, bailed and tested 2 hours, 1 1/2 gallons of water and no oil. Ran 2" tubing and set Halliburton HM packer at 4068' and treated with Sand-Oil-Frac by Halliburton from 4103' to 4112' as follows:

SAND-OIL-FRAC TREATMENT NO. 2 - Between 4103' and 4112'

Used 50 barrels of heavy oil
 142 bbls. of light oil
 3000% of sand
 Maximum TP-3600%, broke to 2600%
 Time 22 minutes

Pulled tubing and packer, bailed and cleaned up hole, then swabbed through 5 1/2" casing 12 hours, 142 barrels of oil used in treating and no water, gas gauged 200 M.C.F.

On July 10, swabbed through casing 3 hours, 1 1/2 barrels of oil used in treating. Bailed and cleaned out to 4143', then perforated 5 1/2" casing from 4126' to 4130' with 24 holes by Melax Jet. Swabbed through 5 1/2" casing 10 hours, 1 1/2 barrels of oil used in treating and gas gauged 489 M.C.F. On July 11, ran 2" tubing and set Halliburton HM packer at 4061'. Ran 600% of mothballs mixed with 8 barrels of oil from 4103' to 4112', then ran Halliburton Sand-Oil-Frac from 4126' to 4130' as follows:

SAND-OIL-FRAC TREATMENT NO. 1 - Between 4126' and 4130'

Used 3000% of sand
 60 barrels of heavy crude oil
 160 barrels of light crude oil to fill and flush
 Maximum TP-3400%, broke to 2100%
 Time 27 minutes

Pulled tubing and packer, and bailed and cleaned out to 4143'. Swabbed through 5 1/2" casing 12 hours, 134 barrels of oil used in treating and gas gauged 208 M.C.F. On July 13, swabbed through 5 1/2" casing 5 hours, 2 1/2 barrels of oil used in treating. Set Baker magnesium bridging plug at 4101' and plug failed to hold. Set new plug at 4099' and plugged back from 4099' to 4098' with 1 gallon of Cal-Seal and hole tested dry. Perforated 5 1/2" casing from 4085' to 4097' with 72 holes by Lane-wells; bailed and tested 6 hours, trace of oil per hour, no water.

On July 14, treated through 5 1/2" casing with 500 gallons of Halliburton 15% acid as follows:

ACID TREATMENT NO. 3 - Between 4085' and 4097'

Treatment put in 7/14/54 by Halliburton, using 500 gallons of acid and 100 barrels of oil to fill hole and flush.

TIME	GP	TP	REMARKS
11:30 am			Start acid
11:35 am			500 gallons of acid in casing
11:45 am			Start flush
12:10 pm			Hole didn't load
12:15 pm	400%		200 gallons of acid in formation
12:20 pm	400%		500 gallons of acid in formation

Swabbed through 5 1/2" casing 12 hours, 100 barrels of oil used in treating and 12 barrels of acid water, and 4 barrels of formation oil. Ran 2" tubing and set Halliburton HM packer at 4048'. Ran Halliburton Sand-Oil-Frac treatment as follows:

SAND-OIL-FRAC TREATMENT NO. 4 - Between 4085' and 4097'

Used 3000% of sand
 60 barrels of heavy oil
 130 barrels of oil to flush
 Maximum TP-3150%, minimum 2100%
 Time 16 minutes

Swabbed through 5 1/2" casing 21 hours, 134 1/2 barrels of oil used in treating. Set Lane-wells bridging plug at 3862' and plugged back from 3862' to 3858' with 1/2 sack of Cal-Seal. Perforated 5 1/2" casing from 3810' to 3822' with 67 holes by Lane-wells; bailed and tested 5 hours, 29 gallons of oil and 49 gallons of water. Treated through 5 1/2" casing with 500 gallons of Halliburton acid as follows:

ACID TREATMENT NO. 4 - Between 3810' and 3822'

Treatment put in 7/17/54 by Halliburton, using 500 gallons of acid and 106 barrels of oil to fill hole and flush.

TIME	GP	TP	REMARKS
10:30 am	Vac.		Start acid
11:15 am	500%		Acid on bottom
11:18 am	500%		250 gallons of acid in formation
11:21 am	500%		500 gallons of acid in formation

Swabbed through 5 1/2" casing 5 hours, 106 barrels of oil used in treating and 12 barrels of acid water. On July 18, swabbed through 5 1/2" casing 24 hours, 27 barrels of oil used in treating and 85 barrels of water. On July 19, ran 2" tubing and set Halliburton DM cement retainer at 3789'. Squeeze cemented off perforations from 3810' to 3822' with 75 sacks of common cement, maximum TP-3500%. Pulled tubing and moved out cable tools.

Since all zones of probable oil or gas production were tested, with neither being found in commercial quantity, it was decided to complete the well for a salt water disposal input well.

On August 16, moved in and rigged up cable tools. Swabbed the hole dry, drilled Halliburton DM retainer at 3789', then drilled cement plug from 3808' to 3824' and bailed and cleaned out to 3862' and 5 1/2" casing tested dry. Drilled Lane-Wells bridging plug at 3862' and drove Baker magnesium plug from 4099' to 4142'.

On August 18, ran 2" tubing and set Halliburton DM retainer at 4070' and cemented off perforations from 4085' to 4097', 4103' to 4112', and 4126' to 4130' with 200 sacks of Halliburton regular cement, maximum TP-3500%.

On August 22, swabbed and bailed the hole dry, drilled DM retainer at 4070', then drilled cement plug and cleaned out to 4143' and 5 1/2" casing tested OK. Drilled DM retainer at 4143' and drilled cement plug and cleaned out to 4274', 5 1/2" casing tested dry. Drilled rock and cement plug from 4274' to 4282'. Drilled out bridging plug at 4282', and bailed and cleaned out to 4365'.

Ran 2" tubing and set Halliburton DM retainer at 4291', and cemented off perforations from 4306' to 4310' with 100 sacks of Halliburton cement, maximum TP-3500%. Pulled tubing and shut down for cement to set.

On August 29, swabbed and bailed hole dry, 5 1/2" casing tested dry. Drilled up Halliburton DM retainer at 4291' and cement plug, cleaned out to 4365'. Bailed and tested 2 hours, hole tested dry. Drilled cement plug and cleaned out to 4397'. Drilled deeper as follows:

Line	4397	4500
Line and shale	4500	4515
Line	4515	4530
Line and shale	4530	4546
Line	4546	4850
TOTAL DEPTH		4850'

On September 16, ran 2" tubing open end to 4834' and treated through 2" tubing from 4397' to 4850' with 2000 gallons of Halliburton 30% acid as follows:

ACID TREATMENT NO. 5 - Between 4397' and 4850'

Treatment put in 9/16/54 by Halliburton, using 2000 gallons of acid and 119 barrels of water to flush.

TIME	OP	TP	REMARKS
1:40 pm			Start acid
1:48 pm		700%	Acid on bottom
2:00 pm		200%	Acid in tubing
2:10 pm		200%	Start flush
2:35 pm	100%	300%	
2:36 pm	Vac.	Vac.	Flushed with 119 barrels of water

Pulled 2" tubing and swabbed through 5 1/2" casing 2 hours, 200 barrels of salt water. Found fluid level at 1114'. Ran injection rate test by Halliburton and well took 13 barrels of fluid per minute by gravity. Checked fluid level and found top at 1070'. Well completed for salt water disposal on September 16, 1954.

SLOPE TEST DATA: Tests were taken at 250' intervals from 250' to 4000' inclusive, with no deviation from vertical noted.

WATER ANALYSIS

Pawhuska Research Laboratory

Sample No. 8336
Depth Taken: 4190' to 4203'

Date Received: 7/12/54
Analysis Completed: 7/14/54

	PPM
Chlorides as Cl.	55,027
Chlorides as NaCl.	92,351
Sulfates as SO ₄	1,632
Sulfates as CaSO ₄	2,896

Sample No. 8337
Depth Taken: 4151' to 4178'

Date Received: 7/12/54
Analysis Completed: 7/14/54

	PPM
Chlorides as Cl.	60,105
Chlorides as NaCl.	99,073
Sulfates as SO ₄	3,248
Sulfates as CaSO ₄	4,603

Sample No. 8338
Depth Taken: 4225' to 4234'

Date Received: 7/12/54
Date Completed: 7/14/54

	PPM
Chlorides as Cl.	57,091
Chlorides as NaCl.	94,105
Sulfates as SO ₄	1,379
Sulfates as CaSO ₄	1,955

Sample No. 8431
Depth Taken: 3810' to 3820'

Date Received: 7/27/54
Date Completed: 7/29/54

Chlorides as Cl.	100,175
Chlorides as NaCl.	165,121
Sulfates as SO ₄	1,731
Sulfates as CaSO ₄	2,454

Fluoride in Onion Skin

Fluoride in Onion Skin

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