15-151-00413-00-00 See

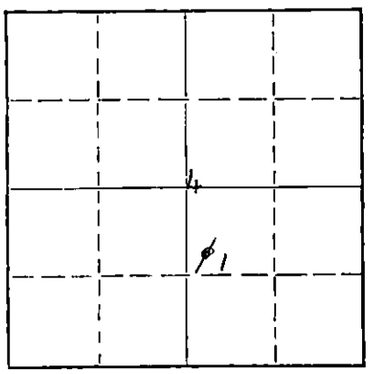
STATE OF KANSAS
STATE CORPORATION COMMISSION

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

Form CP-4

WELL PLUGGING RECORD

NORTH



Locate well correctly on above Section Plat

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

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

Lease Owner Skelly Oil Company

Lease Name J. B. Chance Well No. 1

Office Address 1860 Lincoln Street, Denver, Colo.

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

Date well completed May 12, 1953

Application for plugging filed July 18, 1967

Application for plugging approved August 14, 1967

Plugging commenced August 9, 1967

Plugging completed August 14, 1967

Reason for abandonment of well or producing formation Uneconomical to operate

If a producing well is abandoned, date of last production July 31, 1967

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 Lansing-Kans. City Depth to top 3726' Bottom _____ Total Depth of Well 4351 Feet

Show depth and thickness of all water, oil and gas formations. PB 4008'

OIL, GAS OR WATER RECORDS — CASING RECORD

FORMATION	CONTENT	FROM	TO	SIZE OD	PUT IN	PULLED OUT
Simpson Sand	Oil	4274'	4290'	8-5/8"	460'6"	None
Lansing-Kans. City	Oil	3811'	3994'	5-1/2"	4390'0"	2769'

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	4008' to 3800'
20 sacks of cement	3800' to 3655'
Mud	3655' to 300'
Rock bridge	300' to 290'
4 sacks of cement	290' to 279'
21 sacks of cement	279' to 237'
Mud	237' to 40'
Rock bridge	40' to 30'
10 sacks of cement	30' to Cellar
Surface soil	Cellar to Surface

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SEP 7 1967
9-7-67
CONSERVATION DIVISION
Wichita, Kansas

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

Name of Plugging Contractor Ralph Comstock Pipe Pulling, Inc.

Address Stafford, Kansas 67578

STATE OF Colorado, COUNTY OF Denver, ss.

Leland Franz (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) Leland Franz

1860 Lincoln St., Denver, Colo. 80203
(Address)

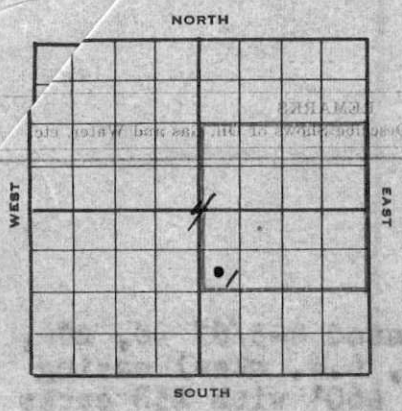
SUBSCRIBED AND SWORN TO before me this 5th day of September, 1967

Mary E. Lathrop
Notary Public.

My commission expires June 17, 1970

jj

Form N47A Re



SKELLY OIL COMPANY

Well Record

1943'RB
1940'DF
1937½'SH

Lease Name and No. J. B. Chance #47391 Well No. 1 Elev.

Lease Description S/2 NE/4 & N/2 SE/4 Section 4-26S-13W, Pratt County, Kansas (160 Acres)

Location made March 6, 19 53 by Pratt County Engineer

990 feet from North line feet from East line } SW/4
330 feet from South line feet from West line } of Sec. 4

Work com'd 3/13 19 53 Rig comp'd 3/14 19 53 Drlg. com'd 3/14 19 53 Drlg. comp'd 4/12 19 53

Rig Contractor Claude Wentworth Drilling Co., Inc.

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

Rotary Drilling from 0' to 4343' Cable Tool Drilling from 4343' to 4351'

Commenced Producing May 12, 19 53 { Initial Prod. before shot or acid Hydrafrac 185 BO no wtr in 7 hrs. Bbls.
Initial Prod. after shot or acid Hydrafrac POB 3 hrs. 56.70 BO no wtr. Estab. 24 hr. GCO potential 1733 bbls. Bbls.

Dry Gas Well Press Volume Cu. ft.

Casing Head Gas Pressure Volume Cu. ft.

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

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

PRODUCING FORMATION Simpson Sand (Name) Top 4274' Bottom 4290' TOTAL DEPTH 4351' PB 4302'

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"	28#	8R	460'				22	460	6	R1 LW	C	250	Halliburton
5-1/2"	17#	8R	4343'				188	4390	0	R1 LW	A	200	Halliburton
(8-5/8" casing set 1/2' above ground and 5½" cased to derrick floor)													
(5-1/2" casing perforated from 4274' to 4290' with 96 holes)													
Used 1 - 5-1/2"OD Baker 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	4/16/53			
Acid Used Size Shot	Gals. Qts.	Gals. Qts.	Gals. Qts.	Gals. Qts.
Shot Between	4274 Ft. and 4290 Ft.	Ft. and Ft.	Ft. and Ft.	Ft. and Ft.
Size of Shell				
Put in by (Co.)	Halliburton			
Length anchor				
Distance below Cas'g	(Hydrafrac)			
Damage to Casing or Casing Shoulder				

SIGNIFICANT GEOLOGICAL FORMATIONS

NAME	Top	Bottom	GAS From	GAS To	OIL From	OIL To	REMARKS
Heebner Shale	3532'						
Lansing Lime	3726'				3768'	3778'	Good por., sli. show oil
Conglomerate	4106'						
Mississippi Lime	4137'						
Misener Sand	4198'				4196'	4202'	Fair stain, some sat.
Viola Lime	4207'						
Simpson Sand	4274'				4274'	4282'	Sli. stain w/ show free oil
Arbuckle Lime	4340'						

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 clay, sand and shells	0	180	
Red bed and shells	180	215	
Red bed	215	450	
Lime	450	460	Set and cemented 8-5/8" OD, 28#, 8R thd., R-1, L.W. steel casing (C cond.) at 460' with 250 sacks of Pozmix cement and 1% calcium chloride. Cement circulated.
Red bed	460	810	
Anhydrite	810	840	
Shale and shells	840	1630	
Broken Lime, sandy	1630	1840	
Lime and shale	1840	1870	
Shale and lime	1870	1965	
Lime and shale	1965	2260	
Shale and lime	2260	2880	
Shale	2880	3010	
Lime and shale	3010	3190	
Lime	3190	3195	
Shale and lime	3195	3280	
Lime	3280	3570	TOP HEEBNER SHALE 3532'
Shale and shells	3570	3665	
Shale	3665	3768	TOP BROWN LIME 3698' TOP LANSING LIME 3726'
Cream to buff fine crystalline oolitic lime	3768	3778	Good porosity, no stain, very slight rainbow of oil
Shale	3778	3780	
Lime	3780	3809	
Gray to buff, fine crystalline slightly cherty lime	3809	3825	Poor to fair porosity
Lime	3825	3826	Light spotted stain Ran Halliburton drill stem test, packer set at 3802', 24' anchor, open 2 hours, gas to surface in 24 minutes, recovered 450' gas and mud cut oil and 30' of salt water, BHP-1078#.
Lime	3826	3869	
Buff, fine crystalline oolitic and oolicastic lime, good vuggy porosity	3869	3874	Free oil Ran Halliburton drill stem test, packer set 3861', used 13' anchor, open 2 hours, gas to surface in 40 minutes, recovered 60' oil and gas cut mud and 180' of gas and mud cut oil, BHP-970#.
Lime	3874	3883	
Gray, fine crystalline oolitic and oolicastic lime	3883	3887	Fair porosity and spotted saturation
Lime	3887	3902	
Gray, fine crystalline oolitic and oolicastic lime	3902	3906	Fair porosity and light spotted stain
Lime	3906	3911	
Gray, fine crystalline oolitic and oolicastic lime, good pin point to vuggy porosity	3911	3922	Fair to good spotted stain with some saturation, free oil in wet samples
Lime	3922	3924	Ran Halliburton drill stem test, packer set 3894', used 30' anchor, open 2 hours, recovered 120' oil and gas cut mud, BHP-217#.
Lime	3924	3931	
Gray, fine crystalline lime, fair pin point porosity	3931	3935	Fair light stain
Lime	3935	3946	
Gray, fine crystalline oolitic and oolicastic lime, fair to good porosity	3946	3956	Light stain to fair saturation
Lime	3956	3961	Ran Halliburton drill stem test, packer set at 3930', used 31' anchor, open 2 hours, gas to surface in 50 minutes, strong blow throughout, recovered 170' heavy oil.

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 J. B. Chance WELL NO. 1 DISTRICT Rocky Mountain
SEC. 4 T. 26S R. 13W COUNTY Pratt AFE NO. 22620
BLOCK _____ SURVEY _____ STATE Kansas

TYPE OF WORK PLUG AND ABANDON WELL

Date commenced August 9, 19 67 Date completed August 14, 19 67
Deepened from _____ to _____ Total Depth _____
Plugged back from 4008' to Surface P.B.T.D. _____
Cleaned out from _____ to _____
Production before 2 bbls. oil 18 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; Cont.
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 OD	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.
5-1/2"	17#	8R	R1 LW	B	69	1606	0	1621	0	119	1606	0	2769	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 is uneconomical to operate and there are no further zones considered worthy of testing, regular authority was granted to plug and abandon it.

On August 9, 1967, moved in and rigged up servicing unit and pulled tubing and rods; then moved in plugging machine of Ralph Comstock Pipe Pulling, Inc. and plugged the well as follows:

Sand	4008' to 3800'
20 sacks of cement	3800' to 3655'

Shot 5½"OD casing at 2971', 2746'. Pulled 119 joints (2768.85') of 5½" casing.

Mud	3655' to 300'
Rock bridge	300' to 290'
4 sacks of cement	290' to 279'
21 sacks of cement	279' to 237'
Mud	237' to 40'
Rock bridge	40' to 30'
10 sacks of cement	30' to Cellar
Surface soil	Cellar to Surface

Plugged and abandoned August 14, 1967.

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Lime	3961	3976	
Light gray, fine crystalline oolitic and oolicastic lime	3976	3983	Good porosity, light stain, show of free oil in wet samples
Lime	3983	3999	
Gray, fine crystalline oolitic and oolicastic lime	3999	4002	Good porosity and saturation, show free oil
Lime	4002	4003	Ran Halliburton drill stem test, packer set at 3974', open 2 hours, recovered 150' oil and gas cut mud, 115' gas and mud cut oil and 5' of salt water, BHP-975#.
Lime	4003	4131	BASE KANSAS CITY LIME 4023' TOP MARMATON 4043' TOP CONGLOMERATE 4106' 8-5/8" casing parted above bottom two joints, these two joints going down hole with top of 43' at 782'. Milled

on 8-5/8" casing with tapered mill from 782' to 788' and bit went out of casing. On April 3, milled on 8-5/8" casing from 786' to 788' with flat bottomed mill. Pulled milling tool and ran in with Reed bit and drill pipe. Drilled beside 8-5/8" casing from 815' to 826' and washed out to bottom.

Lime	4131	4135	TOP MISSISSIPPI LIME 4137'
White, opaque partly tripolitic chert, poor porosity	4135	4146	Dead oil stain, slight show heavy dead oil
Chert	4146	4156	Ran Halliburton drill stem test, packer set at 4131', open 2 hours, light blow throughout, recovered 35' drilling mud, BHP-210#.
Chert	4156	4165	
White to cream opaque partly tripolitic chert poor porosity	4165	4179	Dead oil stain
Shale and chert	4179	4196	TOP KINDERHOOK 4181'
Gray to tan, medium to coarse grained hard partly quartzitic sand	4196	4202	TOP MISENER SAND 4198' Fair to good stain, some saturation
Shale and chert	4202	4205	
White opaque to semi-translucent chert, poor porosity	4205	4215	TOP VIOLA LIME 4207' Spotted stain and saturation
Chert	4215	4263	TOP SIMPSON SHALE 4266'
Sandy lime	4263	4274	TOP SIMPSON SAND 4274'
White to tan medium grained well rounded friable dolomitic sand, good porosity	4274	4282	Slight to fair stain with show free oil
Sandy lime	4282	4291	Ran Halliburton drill stem test, packer set at 4263', open 2 hours, gas to surface in 8 minutes, fair blow throughout, recovered 3000' of 37.5 gravity oil and 130' of oil and gas cut mud, BHP-1440#.
Sandy Lime	4291	4339	
Buff, fine crystalline partly oolicastic cherty dolomite, very poor porosity, no shows	4339	4343	TOP ARBUCKLE LIME 4340' Set and cemented 5½" OD, 17#, 8R thd., R-1, So. Chester, L.W. casing (A cond.) at 4343' with 200 sacks of Pozmix cement. Finished 4:00 p.m. 4/8/53. Ran Halliburton Temperature Survey and found top of cement behind 5½" casing at 3045'. Moved in and rigged up cable tools, bailed hole dry, drilled cement plug and cleaned out to bottom, 5½" casing tested dry. Ran Lane-Wells Gamma Ray Survey and drilled deeper.
Buff, fine crystalline partly oolicastic cherty dolomite	4343	4345	Bailed and tested 1 hour, 1 barrel of water with slight scum of oil.

Buff, fine crystalline partly oolicastic cherty dolomite	4345	4349	Bailed and tested 4 hours, 1 barrel of water with slight scum of oil
Buff, fine crystalline partly oolicastic cherty dolomite	4349	4351	

Ran 2" tubing and set Halliburton DM packer at 4304'. Cemented off Arbuckle Lime from 4343' to 4351' with 100 sacks of cement, maximum TP-3500#, pulled tubing and shut down for cement to set.

On April 15, bailed hole dry and 5½" casing tested dry. Ran steel line measurement and found top of Halliburton DM packer at 4302'. Perforated 5½" casing from 4274' to 4290' with 96 holes by Lane-Wells. Swabbed through 5½" casing 7 hours, 185 barrels of oil and no water.

Ran 2" tubing and set Halliburton HM packer at 4230'. Ran Halliburton double Hydrafrac as follows:

HYDRAFRAC TREATMENT NO. 1 - Between 4274' and 4290'

Used 400# gel agent
20 gallons breaker agent
1600# of sand
1500 gallons kerosene
Maximum TP-2800#, broke to 2400#
Time 22 minutes

On April 17, pulled tubing and packer, bailed and cleaned up hole, ran 2" tubing and swabbed through tubing 2 hours, 31 barrels of oil used in treatment, and no water. Well started flowing. Flowed through 2" tubing 2 hours with 3/4" choke, 31 barrels of oil used in treatment. On April 18, flowed through 2" tubing 24 hours with 3/4" choke, 88 barrels of oil used in treatment, 365 barrels of formation oil, and no water. On April 19, flowed through 2" tubing 5 hours with 3/4" choke, 80 barrels of oil and no water, flowing CP-0#, TP-20#. Moved out cable tools and shut in for tank room.

On April 21, flowed through 2" tubing 19 hours with 40/64" choke, 267 barrels of oil and no water, flowing TP-20#, CP-0#. On April 22, flowed through 2" tubing 24 hours with 3/4" choke, 230 barrels of oil and no water, flowing CP-0#, TP-15#. On April 23, flowed through 2" tubing 9 hours with 3/4" choke, 59 barrels of oil and no water, shut in for tank room and to install pumping equipment.

Installed pumping equipment and on April 28, POB 8 hours, 81 barrels of oil and no water. On April 29, POB 23 hours, 232 barrels of oil and no water. On April 30, POB 24 hours, 206 barrels of oil and no water. On May 1, POB 8 hours, 54 barrels of oil and no water. Shut down to pull tubing and change subsurface pump.

On May 5, pulled rods and tubing and replaced pump. Reran tubing. On May 12, POB with bottom hole bomb 3 hours on State Corporation Commission potential, 56.70 barrels of oil and no water to establish 24 hour S.C.C. potential of 1733 barrels, SI BHP-1296#, pumping BHP-964#

TOTAL DEPTH 4351' PB 4302'

SLOPE TEST DATA

DEPTH	ANGLE OF DEFLECTION
250'	0 Degrees
450'	0 "
600'	1/2 "
750'	0 "
1500'	0 "
1700'	0 "
2000'	0 "
2250'	0 "
2500'	0 "
2800'	0 "
3000'	0 "
3500'	0 "

PLUGGING BACK RECORD

Date Commenced: August 26, 1957
Date Completed: September 18, 1957

Plugged back from 4302' to 4008' PB TD-4008'

Production Before: 3 barrels of oil and 17 barrels water per day
Production After: POB 24 hours, 82 barrels oil and 48 barrels water

5½" casing perforations open:
Above bridging plug: 3811'-3822' with 84 holes, 3836'-3842' with 35 holes, 3852'-3856' with 25 holes, 3864'-3873' with 30 holes, 3884'-3887' with 17 holes, 3945'-3956' with 66 holes, 3930'-3935' with 30 holes, 3911'-3922' with 66 holes, 3900'-3906' with 36 holes, and 3984'-3994' with 60 holes.
Below bridging plug: 4198'-4207' with 109 holes, and 4274'-4290' with 96 holes.

Producing Formation: Lansing-Kansas City

- - - - -

On August 26, 1957, moved in and rigged up cable tools. Pulled rods and 2" tubing. Swabbed through 5½" casing 3 hours, 3/4 barrels of water with trace of oil per hour.

Set Lane-Wells bridging plug at 4220' and plugged back with 1 sack of Cal-Seal from 4220' to 4212'. Perforated 5½" casing from 4198' to 4207' with 54 holes by Lane-Wells, gas gauged 1,200 M.C.F.

Set Lane-Wells bridging plug at 4190' and PB with 1/2 sack of Cal-Seal to 4186' and perforated 5½" casing from 4176' to 4181' with 20 holes by Lane-Wells, gas gauged 1,200 M.C.F. Ran 2" tubing and set Halliburton DM retainer at 4162' and cemented off perforations from 4176' to 4181' with 75 sacks of common cement, maximum TP-500#. Pulled 2" tubing.

Swabbed and bailed hole dry, 5½" casing tested dry. Drilled DM retainer at 4162', drilled cement and cleaned out to 4186', 5½" casing tested dry. Drilled up Lane-Wells bridging plug at 4190', drilled cement plug and cleaned out to 4212'. Bailed and tested 2 hours, 5½" casing tested dry.

Reperforated 5½" casing from 4198' to 4207' with 55 holes by Lane-Wells; bailed and tested 2 hours, no recovery. Ran 2" tubing and set HM packer at 4190'. Treated with 250 gallons of Halliburton MCA acid as follows:

ACID TREATMENT NO. 1 - Between 4198' and 4207'

Treatment put in 8/31/57 by Halliburton, using 250 gallons of acid and 18 barrels of oil.

TIME	CP	TP	REMARKS
6:34 pm			Start acid
6:38 pm			Acid on bottom
6:46 pm		1600#	180 gallons of acid in
6:48 pm		1700#	250 gallons of acid in

Swabbed through 2" tubing 12 hours, 12 barrels of oil used in treating, 6 barrels of acid water, and 4 barrels of formation water. Swabbed through 2" tubing 4 hours, 1½ barrels of water with scum of oil. Ran Halliburton Sand-Oil-Frac as follows:

SAND-OIL-FRAC TREATMENT NO. 1 - Between 4198' and 4207'

Used 3000# of sand
2000 gallons of heavy crude oil
152 barrels of oil to fill and flush
Maximum TP-5500#, minimum TP-4100#
Time 29 minutes

Let set 12 hours, then swabbed through 2" tubing 1 hour, 21 barrels of oil used in treating and no water. Flowed through 2" tubing 5 hours, 14 barrels of oil used in treating and no water. Flowed through 2" tubing 2 hours, no oil, gas gauged 1,200 M.C.F., SI TP-1320#. Loaded hole with 20 barrels of oil, pulled 2" tubing and Halliburton packer.

Set Lane-Wells bridging plug at 4020', swabbed and bailed hole dry, 5½" casing tested dry. Plugged back from 4020' to 4012' with 1 sack of Cal-Seal. Perforated 5½" casing from 3984' to 3994' with 60 holes by Lane-Wells; bailed and tested 2 hours, 1/2 barrel of oil with trace of water per hour. Treated through 5½" casing with 250 gallons of 15% acid and 500 gallons of Halliburton HV acid as follows:

ACID TREATMENT NO. 2 - Between 3984' and 3994'

Treatment put in 9/3/57 by Halliburton, using 750 gallons of acid and 100 barrels of oil.

TIME	CP	TP	REMARKS
11:45 pm			Start 15% acid
11:48 pm			Start HV acid
11:50 pm	900#		Start flush
12:05 am	1000#		Acid on bottom
12:30 am	500#		Treatment completed

Swabbed through 5½" casing 2 hours, 90 barrels of oil used in treating and no water. Swabbed through 5½" casing 2 hours, 10 barrels of oil used in treating and 18 barrels of acid water. Swabbed 22 hours, 124 barrels of formation oil and 25 barrels of water.

Perforated 5½" casing from 3900' to 3906' with 36 holes, and from 3911'-22' with 66 holes, 3930' to 3935' with 30 holes, and 3945'-3956' with 66 holes by Lane-Wells. Ran 2" tubing with Halliburton straddle packer, top set at 3925' and bottom at 3960'. Swabbed through 2" tubing 2 hours, no recovery. Treated through 2" tubing with 250 gallons of Halliburton 15% acid and 500 gallons of Halliburton HV acid as follows:

ACID TREATMENT NO. 3 - Between 3930'-35' and 3945'-56'

Treatment put in 9/4/57 by Halliburton, using 750 gallons of acid and 20 barrels of oil.

TIME	CP	TP	REMARKS
10:00 pm			Start 15% acid
10:03 pm			Start HV acid
10:10 pm		2500#	Acid on bottom
10:20 pm		700#	Start flush
10:50 pm		Vac.	Treatment completed

Swabbed through 2" tubing 4 hours, 20 barrels of oil used in treating and 18 barrels of acid water. Swabbed through 2" tubing 8 hours, 44 barrels of oil and 3 barrels of water.

Reset Halliburton straddle packers, top set at 3890', bottom packer set at 3925'. Swabbed 2 hours, 2 barrels of oil with trace of water per hour. Treated through tubing with 250 gallons of Halliburton 15% acid and 500 gallons of Halliburton HV acid as follows:

ACID TREATMENT NO. 4 - Between 3900'-3906' and 3911'-3922'

Treatment put in 9/5/57 by Halliburton, using 750 gallons of acid and 20 barrels of oil.

TIME	CP	TP	REMARKS
5:00 pm			Start acid
5:03 pm			Start HV acid
5:07 pm		1000#	Acid on bottom
5:15 pm		750#	15% acid clear
5:16 pm		900#	Start flush
5:20 pm		800#	Acid clear
5:35 pm		Vac.	Treatment completed

Swabbed through 2" tubing 3 hours, 20 barrels of oil used in treating and 18 barrels of acid water. Then swabbed 6 hours, 42 barrels of formation oil and 3 barrels of water.

Pulled 2" tubing and Halliburton HM straddle packer. Swabbed through 5½" casing 16 hours, 123 barrels of oil and 20 barrels of water. Swabbed through 5½" casing 3 hours, 16 barrels of oil and 2 barrels of water.

Perforated 5½" casing from 3884' to 3887' with 17 holes, 3864' to 3873' with 30 holes, 3852' to 3856' with 25 holes, and 3836' to 3842' with 35 holes by Lane-Wells. Ran 2" tubing with Halliburton straddle packer set with top at 3861' and bottom at 3892'. Swabbed through 2" tubing 2 hours, no recovery. Treated through 2" tubing with 250 gallons of Halliburton 15% acid and 500 gallons of Halliburton HV acid as follows:

ACID TREATMENT NO. 5 - Between 3864'-73' and 3884'-87'

Treatment put in 9/7/57 by Halliburton, using 750 gallons of acid and 18 barrels of oil.

TIME	CP	TP	REMARKS
7:30 pm			Start 15% acid
7:32 pm			Start HV acid
7:40 pm		2700#	Acid on bottom
7:45 pm		500#	Start flush
7:50 pm		300#	15% acid clear
7:59 pm		500#	HV acid clear
7:60 pm		550#	Treatment completed

Swabbed through 2" tubing 3 hours, 18 barrels of oil used in treating and 18 barrels of acid water. Then swabbed 2 hours, 14 barrels of oil and 1½ barrels of water. Swabbed through 2" tubing 8 hours, 33 barrels of oil and 5 barrels of water.

Re-set Halliburton straddle packer with top at 3831' and bottom at 3860'. Swabbed through 2" tubing 2 hours, no recovery. Treated through 2" tubing with 250 gallons of Halliburton 15% acid and 500 gallons of Halliburton HV acid as follows:

ACID TREATMENT NO. 6 - Between 3836'-42' and 3852'-56'

Treatment put in 9/8/57 by Halliburton, using 750 gallons of acid and 20 barrels of oil.

TIME	CP	TP	REMARKS
2:30 pm			Start acid
2:37 pm		2200#	Acid on bottom
2:43 pm		700#	
2:47 pm		700#	
2:48 pm		700#	

Swabbed through 2" tubing 3 hours, 20 barrels of oil used in treating and 18 barrels of acid water. Then swabbed 7 hours, 15 barrels of oil and 5 barrels of water. Swabbed through 2" tubing 3 hours, 4 barrels of oil and 1 barrels of water. Pulled 2" tubing and straddle packers.

Perforated 5½" casing from 3811' to 3822' with 84 holes by Lane-Wells. Ran 2" tubing with Halliburton straddle packers, set top packer at 3801', bottom packer at 3830'. Swabbed through 2" tubing 2 hours, no oil or water. Treated through tubing with 250 gallons of Halliburton 15% acid and 500 gallons of Halliburton HV acid as follows:

ACID TREATMENT NO. 7 - Between 3811' and 3822'

Treatment put in 9/9/57 by Halliburton, using 750 gallons of acid and 18 barrels of oil.

TIME	CP	TP	REMARKS
10:25 am			Start acid
10:30 am		1400#	Acid on bottom
10:36 am		1000#	
10:37 am		600#	
10:40 am		600#	Treatment completed

Swabbed through 2" tubing 2 hours, 18 barrels of oil used in treating and 18 barrels of acid water; then swabbed 2 hours, 15 barrels of oil and no water. Swabbed through 2" tubing 4 hours, 20 barrels of oil and 1/2 barrel of water. Re-acidized through 2" tubing with 1500 gallons of Halliburton HV acid as follows:

ACID TREATMENT NO. 8 - Between 3811' and 3822'

Treatment put in 9/10/57 by Halliburton, using 1500 gallons of acid and 20 barrels of oil.

TIME	CP	TP	REMARKS
10:30 am			Start acid
10:40 am		1100#	HV acid on bottom
10:59 am		900#	
11:10 am		900#	Acid clear

Swabbed through 2" tubing 7 hours, 20 barrels of oil used in treating and 36 barrels of acid water; then swabbed 7 hours, 15 barrels of oil and 20 barrels of water. Reacidized through 2" tubing with 500 gallons of Halliburton 15% acid as follows:

ACID TREATMENT NO. 9 - Between 3811' and 3822'

Treatment put in 9/11/57 by Halliburton, using 20 barrels of oil and 500 gallons of acid.

TIME	CP	TP	REMARKS
11:17 pm			Start acid
11:22 pm			Acid on bottom
11:25 pm		250#	
11:27 pm		1300#	
11:28 pm		1300#	Treatment completed

Swabbed through 2" tubing 4 hours, 20 barrels of oil used in treating and 12 barrels of acid water. Then swabbed 12 hours, 20 barrels of oil and 25 barrels of water. On September 12, swabbed through 2" tubing 24 hours, 5 barrels of oil and 44 barrels of water. Swabbed through 2" tubing 2 hours, 1/4 barrel of oil and 3½ barrels of water.

Pulled 2" tubing and Halliburton HM straddle packer. Set Baker cast iron bridging plug at 3830'. Swabbed hole dry and plugged back with 1/4 sack of Cal-Seal from 3830' to 3828'. Swabbed through 5½" casing 2 hours, 1/4 barrel of oil and 3 barrels of water. Treated perforations from 3811' to 3822' with 26 barrels of oil mixed with 30 gallons of #4-N, flushed with 104 barrels of oil, maximum CP-800#, minimum CP-500#, time 25 minutes. Swabbed through 5½" casing 7 hours, 93 barrels of oil used in treating, no water. Swabbed through 5½" casing 14 hours, 37 barrels of oil used in treating and 10 barrels of water. Then swabbed 9 hours, 18 barrels of oil and 15 barrels of water. Swabbed through 5½"OD casing 4 hours, 9 barrels of oil and 1½ barrels of water.

Loaded hole with 60 barrels of oil, drilled and drove Lane-Wells bridging plug from 3830' to 4008'SLM. Swabbed through 5½" casing 1 hour, 60 barrels of oil used to load; then swabbed 5 hours, 160 barrels of formation oil and 20 barrels of water.

Ran 2" tubing and rods and on September 16, POB 15 hours, 65 barrels of oil and 43 barrels of water. On September 17, POB 24 hours, 81 barrels of oil and 54 barrels of water. On September 18, POB 24 hours, 82 barrels of oil and 48 barrels of water.

PLUGGED BACK TOTAL DEPTH 4008'

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