

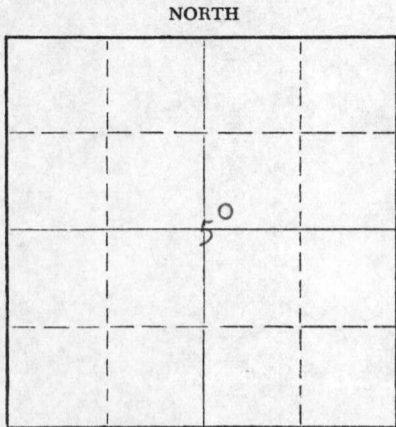
STATE OF KANSAS
STATE CORPORATION COMMISSION

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

Clark County, Sec. 5 Twp. 34S Rge. (E) 25(W)

Location as "NE/CNW/SW" or footage from lines SW/4 SW/4 NE/4
Lease Owner Skelly Oil Company
Lease Name Theis "A" Well No. 1
Office Address Box 1650, Tulsa, Oklahoma
Character of Well (completed as Oil, Gas or Dry Hole) Gas
Date well completed March 15, 19 51
Application for plugging filed August 25, 19 61
Application for plugging approved September 1, 19 61
Plugging commenced September 20, 19 61
Plugging completed September 29, 19 61
Reason for abandonment of well or producing formation Not economical to operate



Locate well correctly on above Section Plat

If a producing well is abandoned, date of last production Sept. 12, 19 61
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 Mississippi Lime Depth to top 5530' Bottom Total Depth of Well 6041 1/2 Feet
Show depth and thickness of all water, oil and gas formations. PB 5550'

OIL, GAS OR WATER RECORDS

CASING RECORD

FORMATION	CONTENT	FROM	TO	OD SIZE	PUT IN	PULLED OUT
Mississippi Lime	Gas	5532'	5555'	13-3/8"	370'0"	None
"	"	5588'	5610'	8-5/8"	2229'0"	1644'
				5-1/2"	6080'0"	4197'

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.

10 sacks of cement	5550' to 5470'
Mud and gel	5470' to 2200'
Rock bridge	2200' to 2190'
20 sacks of cement	2190' to 2130'
Mud	2130' to 350'
Rock bridge	350' to 340'
20 sacks of cement	340' to 320'
Mud	320' to 30'
Crushed rock	30' to 20'
10 sacks of cement	20' to 4'
Surface soil	4' to Surface

RECEIVED
STATE CORPORATION COMMISSION
OCT 26 1961
CONSERVATION DIVISION
Wichita, Kansas

(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.
D. E. Smith (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.

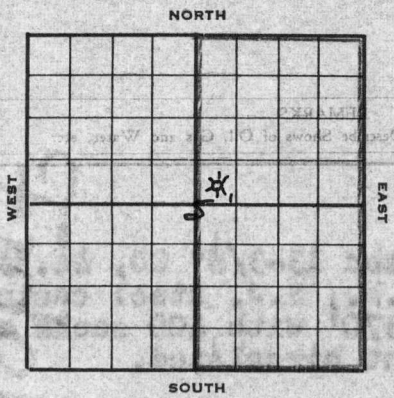
(Signature) D. E. Smith
Box 391, Hutchinson, Kansas (Address)

SUBSCRIBED AND SWORN TO before me this 25th day of October, 1961

My commission expires April 7, 1963
Josephine L. Johnson Notary Public.



SKELLY OIL COMPANY



Well Record

Lease Name and No. Thels "A" / 32860 Well No. 1 Elev. 2102' BH
2108' DF

Lease Description E/2 Section 5-34S-25W,

Clark County, Kansas

Location made Nov. 24, 1950 by R. G. Coshow

feet from North line _____ feet from East line NE/4
330 feet from South line 330 feet from West line of Sec. 5

Work com'd 12/28 1950 Rig com'p'd 1/4 1951 Drlg. com'd 1/4 1951 Drlg. com'p'd 2/22 1951

Rig Contractor Nichols-Duncan Drilling Co.

Drilling Contractor Nichols-Duncan Drilling Co., Duncan, Oklahoma

Rotary Drilling from 0' to 6041 1/2' Cable Tool Drilling from _____ to _____

Commenced Producing March 15, 1951 Initial Prod. before shot or acid _____ Bbls.
 Initial Prod. after shot or acid _____ Bbls.

Dry Gas Well Press. BHP-330 Volume 783,000 Cu. ft.

Casing Head Gas Pressure _____ Volume _____ Cu. ft.

Braden Head (13-3/8" Size x 8-5/8") Gas Pressure _____ Volume _____ Cu. ft.

Braden Head (8-5/8" Size x 5 1/2" OD) Gas Pressure _____ Volume _____ Cu. ft.

PRODUCING FORMATION Mississippi Lime Top 5588' Bottom 5610' TOTAL DEPTH 6041 1/2'
5532' 5555' PB 5977'

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
13-3/8	44	8J	370'				10	370	0	R3 SW	A	400	Halliburton
8-5/8	24	8R	2211'				71	2229	0	J55 R2 SS A	A	225	Halliburton
5-1/2	15	8R	(Lot #94)				11	350	0	J55 SS	A		
5-1/2	14	8R					56	1811	0	H40 R2 SS A	A		
5-1/2	14	10V					116	3510	3	OC R2 SS C	C		
5-1/2	15	8R	6031' (Lot #94)				13	409	0	J55 R2 SS A	A	300	Halliburton

(13-3/8" OD casing set 6' in cellar, 8-5/8" set 4' in cellar, and 5 1/2" cased to derrick floor) (5 1/2" casing perforated from 5588'-5610', 96 holes, 5532'-5555' with 96 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

Date	FIRST		SECOND		THIRD		FOURTH	
	Date	Gals. Qts.	Date	Gals. Qts.	Date	Gals. Qts.	Date	Gals. Qts.
2/28/51	1500		3/1/51	6000		3/2/51	1500	
	5588 Ft. and 5610 Ft.		5588 Ft. and 5610 Ft.		5532 Ft. and 5555 Ft.			
	Dowell Inc.		Dowell Inc.		Dowell Inc.			

SIGNIFICANT GEOLOGICAL FORMATIONS

NAME	Top	Bottom	GAS		OIL		REMARKS
			From	To	From	To	
Heebner Shale	4280'						
Toronto Lime	4290'						
Lansing Lime	4463'						
Marmaton	5097'						
Mississippi	5530'		5550'	5555'			Gas odor
			5587'	5605'			Gas odor
			5605'	5609 1/2'			Gas bubbles and odor

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)

2000-70100-260-21

RECORD OF FORMATIONS

FORMATION	TOP	BOTTOM	REMARKS
Surface soil and sand	0	40	
Red bed and sand	40	250	
Red bed, sand and shells	250	450	Set and cemented 13-3/8" OD, 44.5#, R-3, Armco, S.W., S.J. steel casing (A cond.) at 370' with 400 sacks of cement. Cement circulated.
Reamed 11" hole to 17-1/4"			
Red bed, salt and anhydrite	450	959	
Red bed and anhydrite	959	985	
Red bed, anhydrite and salt	985	1370	
Shale and gyp	1370	1495	
Red bed and anhydrite	1495	1635	
Red bed, lime and shells	1635	1738	
Shale and anhydrite	1738	1840	
Anhydrite	1840	1893	
Anhydrite and shale	1893	1995	
Lime	1995	2061	
Lime and anhydrite	2061	2124	
Lime and shale	2124	2172	
Lime and anhydrite	2172	2211	Set and cemented 8-5/8" OD, 24# 88 thd., R-2, J-55, Youngstown S.S. casing (A cond.) at 2211' with 225 sacks of cement. Halliburton Temperature Survey showed top of cement behind 8-5/8" casing at 1640'.

FORMATION	TOP	BOTTOM	REMARKS
Lime	2211	2240	
Lime and anhydrite	2240	2297	
Lime and shale	2297	2377	
Lime and anhydrite	2377	2411	Upper Herrington 2400'
Lime, sand and shale	2411	2513	Herrington 2410'
			TOP BRIDGER 2458'
			TOP WINFIELD 2480'
Lime and shale	2513	2588	TOP DOYLE 2520'
			TOP TOMANDA 2553'
Lime, shale and sand	2588	2715	TOP FR. RILEY 2600'
			TOP FLORENCE 2662'
			BASE FLORENCE 2698'
			TOP WREDFORD 2746'
Lime and sand	2715	2781	
Grey lime	2781	2984	
Lime and sand	2984	3068	
Lime, sand and shale	3068	3162	
Lime	3162	3248	
Lime and shale	3248	3552	
Lime	3552	3610	
Lime and shale	3610	3662	
Shale, lime, and chert	3662	3696	
Blue shale and sand	3696	3750	
Shale, shells and sand	3750	3802	
Shale and shells	3802	3839	
Shale	3839	4059	
Limey shale	4059	4123	
Lime and shale	4123	4186	
Sandy shale and lime	4186	4238	
Shale and lime	4238	4381	TOP HERRINGTON SHALE 4280'
Lime	4381	4453	TOP TORONTO LIME 4290'
Lime and shale	4453	4499	TOP LANGING LIME 4463'
Lime	4499	4623	
Lime and shale	4623	4653	
Sandy lime	4653	4706	
Shale and lime	4706	4819	
Cherty lime	4819	4835	
Sandy lime	4835	4880	
Cherty lime and shale	4880	4918	
Lime and shale	4918	4929	
Sandy lime and shale	4929	4953	
Shale and lime	4953	5121	TOP HARMATON 5097'
Lime	5121	5202	
Lime and shale	5202	5238	
Lime	5238	5262	
Lime and shale	5262	5320	
Lime	5320	5347	
Lime and shale	5347	5375	
Lime	5375	5401	
Lime and shale	5401	5550	TOP MISSISSIPPI LIME 5530'

Cored from 5550' to 5605' - Recovered 50'

First 5' - Grey to buff fine crystalline and fossiliferous lime, slight porosity and light gas odor in freshly broken core.

Next 5' - Grey to dark fine crystalline dense lime and shale with grey to green shale breaks.

Next 7' - Dense grey lime

Next 8' - Dark grey to brown, fine crystalline, very fossiliferous, slightly porous lime

Next 8' - Grey and green shale and lime

Last 17' - Grey and brown fine crystalline and oolitic and fossiliferous slightly porous lime with gas odor in freshly broken core.

Ran Halliburton drill stem test, packer set at 5514', used 91' of anchor, open 1 hour, recovered 90' of gas cut mud. Gas gauged 62 M.C.F. BHP-1550#.

Cored from 5605' to 5622' - Recovered 17'

- Top 4 1/2' - Brown to grey, fine crystalline and fossiliferous lime with slight porosity and slight show of gas.
- Next 3' - Grey and green shale
- Next 1' - Grey to green lime shells
- Next 7' - Grey to green, soft shale with few scattered lime breaks
- Last 1 1/2' - Grey to brown fine crystalline lime, no porosity or shows.

Drilled:

Line	5621	5639
Line and shale	5639	5665

Ran Halliburton drill stem test, packer set at 5605', used 60' of anchor, open 60 minutes, light blow for 20 minutes, then quit blowing, recovered 30' of drilling mud, BHP-40#.

Line and shale	5665	5946
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TOP MERRAMEC LINE 5790'
TOP ST. GENEVIEVE LINE 5872'
 Partial loss of circulation at 5905'. Ran Halliburton drill stem test, packer set at 5665', packer did not hold. Pulled and reran tester and set packer at 5635' with 311' of anchor. Good blow for 15 minutes, decreasing to nothing in 1 hour, no gas to surface. Tool open 1 hour, recovered 2790' of drilling mud. BHP-2235#.

Line	5946	5947
Line and shale	5947	6029
Line and shale	6029	6041 1/2

Ran Schlumberger Survey at 6029'. Set and cemented 409' of 5 1/2" OD, 15 1/2" 8R thd., R-2, J-55, Pitts. S.S. casing (Lot #94, A cond.); 3510' of 5 1/2" OD, 14", 10V thd., R-2, Grade "C", S.S. casing (C cond.); 1811' of 5 1/2" OD, 14", 8R thd., R-2, H-40, Pitts., S.S. casing (A cond.); and 350' of 5 1/2" OD, 15.5", 8R thd., R-2, J-55, Pittsburgh S.S. casing (Lot #94, A cond.) at 6031' with 300 sacks of cement. Finished cementing at 12:00 M 2/23/51. Halliburton temperature survey showed top of cement behind 5 1/2" casing at 4200'. SLM showed top of cement plug at 5977'.

TOTAL DEPTH 6041 1/2 PB 5977' SLM

On February 26, perforated 5 1/2" casing from 5880' to 5905' with 96 holes by Lane-Wells. Ran 2" tubing and set Baker retrievable cement retainer at 5854'. Swabbed through 2" tubing 9 hours, could not swab hole down below 1500' from top, swabbed all salt water. While swabbing, lost swab in tubing. Pulled tubing and cement retainer and recovered swab. Reran tubing and Baker retainer, and set retainer at 5674'. Cemented off perforations from 5880' to 5905' with 200 sacks of cement, maximum TP-1500#. Pulled tubing and perforated 5 1/2" OD casing from 5610' to 5588' with 96 Lane-Wells Kone shots, and from 5532' to 5555' with 96 Kone shots. Ran 2" tubing with Baker straddle zone packer and set packer at 5612'. On February 28, treated with 1500 gallons of Dowell "X" acid from 5588' to 5610' as follows:

ACID TREATMENT NO. 1 - Between 5588' and 5610'

Treatment put in 2/28/51 by Dowell Inc., using 1500 gallons of acid and 23 barrels of water to flush.

TIME	GP	TP	REMARKS
6:25 am			Start acid in tubing
6:48 am	400	400	1500 gallons of acid in tubing, hole loaded
6:51 am	300	300	Start pumping acid in tubing
7:00 am	375	1200	Fluid break in formation
7:15 am	375	1300	Start flush
7:20 am	200	2500	Perforations plugged
			Bleed pressure and repressure tubing
7:37 am	175	1500	Perforations still plugged
7:42 am	175	1500	Perforations still plugged - Bleed pressure to 0 and start swabbing tubing.

Swabbed out water used in treating and well started flowing. Flowed 5 hours into pits to clean up hole and gas gauged 88 M.C.F. Reacidized with 6000 gallons of Dowell "X" acid as follows:

ACID TREATMENT NO. 2 - Between 5588' and 5610'

Treatment put in 3/1/51 by Dowell Inc., using 6000 gallons of acid and 23 barrels of water to flush.

TIME	CP	TP	REMARKS
2:22 am	460	400	Start pumping acid in tubing
2:25 am	460	300	Tubing loaded
3:09 am	650	1200	Perforations plugged, bleed pressure to 0
4:03 am	75	0	Start pumping water in casing
4:15 am	0	0	50 barrels of water in casing
4:21 am	0	0	Start acid in tubing
4:22 am	100	1200	Perforations still plugged
5:23 am	700	1100	6000 gallons of acid in tubing
5:23 am	700	1100	Start water flush in tubing
5:33 am	700	1150	23 barrels water flush in tubing

Swabbed well in through tubing, flowed into pits 4 hours to clean hole and gas gauged 480 M.C.F. Reset Baker straddle tool with packer set at 5558' and treated through perforations from 5532' to 5555' with 1500 gallons of Dowell "X" acid as follows:

ACID TREATMENT NO. 3 - Between 5532' and 5555'

Treatment put in 3/2/51 by Dowell Inc., using 1500 gallons of acid and 23 barrels of water to flush.

TIME	GP	TP	REMARKS
8:41 am	Open	Vac.	20 barrels of water in tubing to kill
			Reset Baker packer from 5527'-5559'
9:19 am	Open	0	Start loading tubing with water to test packer
9:25 am		500	Tubing loaded - Packer holding
			Unseat packer to displace water
9:45 am	50	0	Start pumping acid in tubing
9:51 am	50	600	940 gallons acid in tubing, stop pump, set packers
9:53 am	50	1000	Start acid in tubing
10:00 am	50	1200	1500 gallons of acid in tubing, start flush
10:28 am	50	1200	Flushed with 23 barrels of water

Swabbed out water used in treating, then flowed into pits 3 hours to clean hole and gas gauged 191 M.C.F. Reacidized with 6000 gallons of Dowell "X" acid as follows:

ACID TREATMENT NO. 4 - Between 5532' and 5555'

Treatment put in 3/2/51 by Dowell Inc., using 6000 gallons of acid and 23 barrels of water to flush.

TIME	CP	TP	REMARKS
8:45 pm	50	200	Start acid in tubing
8:51 pm	50	500	Tubing loaded
9:21 pm	50	1050	6000 gallons acid in tubing, start flush
9:33 pm	50	1150	Flushed hole with 23 barrels of water

Swabbed out water used in treating and gas gauged 236 M.C.F. Reacidized with 15,000 gallons of Dowell "X" acid as follows:

ACID TREATMENT NO. 5 - Between 5532' and 5555'

Treatment put in 3/3/51 by Dowell Inc., using 15,000 gallons of acid and 40 barrels of water to flush.

TIME	CP	TP	REMARKS
9:55 am	50	50	Start acid in tubing
10:27 am	50	1100	7,500 gallons acid in tubing
10:50 am	50	1400	12,500 gallons acid in tubing
11:01 am	50	1225	15,000 gallons acid in tubing, start flush
11:16 am	50	1250	Flushed hole with 40 barrels of water

Swabbed out water used in treating and gas gauged 300 M.C.F. Reset Baker straddle tool with bottom packer at 5612' and top at 5580', and reacidized from 5588' to 5610' with 15,000 gallons of Dowell "X" acid as follows:

ACID TREATMENT NO. 6 - Between 5588' and 5610'

Treatment put in 3/4/51 by Dowell Inc., using 15,000 gallons of acid and 40 barrels of water to flush.

TIME	CP	TP	REMARKS
12:02 am	50	Vac.	500 gallons acid in tubing, reset packers at 5583'-5615'
12:56 am	350	900	2000 gallons acid in tubing
1:05 am	400	1000	4000 gallons acid in tubing
1:19 am	550	1175	7500 gallons acid in tubing
1:30 am	700	1175	9500 gallons acid in tubing
1:43 am	875	1200	12,000 gallons acid in tubing
2:07 am	1000	1200	15,000 gallons acid in tubing, start flush
2:22 am	1025	450	Flushed with 40 barrels of water

Swabbed out water used in treating and flowed into pits 8 hours to clean hole, gas gauged 589 M.C.F., CP-380 while flowing. Flowed into pits 24 hours, cleaned hole, and gas gauged 732 M.C.F. with 280 CP while testing through 2" tubing. Gas gauged 270 M.C.F. through 5 1/2" casing with 350 back pressure on casing.

On March 6, pulled tubing and Baker packers, reran 2" tubing and swabbed well in through tubing. Flowed into pits 24 hours to clean up hole and gas gauged 380 M.C.F. On March 8, flowed through 2" tubing with gate valve pinched 24 hours, gas gauged 324 M.C.F., CP-300, TP-60. On March 9, flowed through 2" tubing with gate valve pinched 24 hours, gas gauged 320 M.C.F., CP-300, TP-60. On March 10, flowed

through 2" tubing 24 hours, gas gauged 300 M.C.F., CP-300#, TP-60#. On March 11, flowed through 2" tubing 24 hours, 228 M.C.F., CP-275#, TP-50#, and shut in to take BHP.

On March 15, ran BHP survey, shut in 96 hours, static BHP-1320#, TP-1150#, CP-850#, stabilized flow through 2" tubing, gas gauged 734 M.C.F. with BHP-330# to give an indicated open flow potential of 783 M.C.F. of gas per day.

DEPTH	SLOPE TEST DATA	
	ANGLE OF DEFLECTION	
2190'	1/4 Degree	
3759'	3/4 "	

WATER ANALYSIS

Pawhuska Research Laboratory
 Sample Serial No. - 5195

Analysis No. 2232

Sample from 4653' - Date Received 2-9-51 - Analysis Completed 2-14-51

	PPM
Chlorides as Cl	123,700
as NaCl	204,000
Sulfates as SO ₄	671
as CaSO ₄	951

- - -

Sample Serial No. 5242

Analysis No. 2272

Sample from 5880' to 5905' - Date Received 3-9-51 - Analysis Completed 3-13-51

	PPM
Chlorides as Cl	37,100
As NaCl	61,100
Sulfates as SO ₄	807
as CaSO ₄	1143

PLUGGING BACK RECORD

Date commenced: May 13, 1952
Date completed: August 5, 1952

Plugged back from 5977' to 5550' PB TD-5550'

Production before: 3 bbls. water per hour and 783 M.C.F. gas
Production after: 340 M.C.F. CP-300, no water

Producing from: Mississippi Lime
5532'-5549'

Moved in and rigged up cable tools of Flournoy Drilling Company on May 13, 1952. On May 15, pulled 2" tubing and reran tubing and set Halliburton HM packer at 5573'. Swabbed through 2" tubing 24 hours, no gas and 3 barrels of water per hour. On May 17, swabbed through tubing 24 hours, no gas to gauge, swabbed 1 barrel of water per hour. On May 18, pulled 2" tubing and packer and set Lane-wells cast iron plug at 5575½'. Plugged back with 4 gallons of Cal-Seal from 5575½' to 5574'. Ran 2" tubing and set Halliburton HM packer at 5512' and well started flowing, flowed through 2" tubing 12 hours, gas gauged 295 M.C.F.

On May 20, ran Halliburton double Hydrafrac as follows:

HYDRAFRAC TREATMENT NO. 1 - Between 5532' and 5555'

Used 300# mothballs
550# Gel agent
20 gallons Breaker agent
1600 gallons kerosene
1200# sand
Maximum TP-1700#

Swabbed through 2" tubing 24 hours to clean up hole, gas gauged 240 M.C.F., swabbing 1 barrel water per hour. On May 22, pulled tubing and packer and drilled out bridging plug at 5575½'. Ran 2" tubing and set Baker cement retainer at 5578'. Tried to load hole with water and had communication between perforations above and below retainer. Pulled tubing and Baker retainer, reran 2" tubing and set Baker cement retainer at 5505'. Cemented off perforations from 5588' to 5610' and from 5532' to 5555' with 150 sacks of cement at 500#-TP. Pulled tubing and shut down for cement to set.

On May 26, bailed the hole down to 2500' and drilled cement plug to 5565'. Bailed hole dry and tested 1½ hours and hole tested dry. Perforated 5½" casing from 5532' to 5555' with 69 Lane-wells Kone shots, no show of gas. Ran 2" tubing and set Halliburton HM packer at 5505', loaded hole with 73 barrels of water in annulus, then treated with Halliburton acid-frac through perforations as follows:

ACID-FRAC TREATMENT NO. 2 - Between 5532' and 5555'

Used 800# sand
1000 gallons of Halliburton 7½% acid
500 gallons of Halliburton 15% acid
10 gallons of breaker agent
Maximum TP-2700#, CP-500#
Time 11 minutes

Swabbed through 2" tubing 24 hours to clean hole, gas too small to gauge. Pulled 2" tubing and Halliburton packer, then swabbed through 5½" casing to clean up hole. On June 2, ran 2" tubing and Halliburton HM packer, set packer at 5505', loaded hole with water and treated with 4000 gallons of Halliburton 15% acid as follows:

ACID TREATMENT NO. 7 - Between 5532' and 5555'

Treatment put in 6/2/52 by Halliburton, using 4000 gallons of acid and 150 barrels of water to flush.

TIME	CP	TP	REMARKS
6:39 pm			Started acid in tubing
6:50 pm		850#	300 gallons of acid in tubing
6:52 pm		1000#	600 gallons of acid in tubing
7:00 pm		850#	3000 gallons of acid in tubing
7:05 pm		800#	3500 gallons of acid in tubing
7:12 pm		825#	4000 gallons of acid in tubing
7:24 pm		500#	Flushed with 150 barrels of water

Swabbed 24 hours to clean up hole, gas gauged 196 M.C.F., CP-350#. On June 4, swabbed to clean up hole 24 hours, gas gauged 196 M.C.F., swabbing 2 barrels of water per hour.

On June 5, swabbed through tubing 14 hours and swabbed hole dry and gas gauged 196 M.C.F. On June 6, pulled 2" tubing and packer and bailed to clean up hole 12 hours, gas gauged 196 M.C.F.

On June 8, ran 2" tubing with perforations on bottom and treated with 8000 gallons of Halliburton 15% acid as follows:

ACID TREATMENT NO. 8 - Between 5532' and 5555'

Treatment put in 6/8/52 by Halliburton, using 8000 gallons of acid and 105 barrels of water to flush.

TIME	CP	TP	REMARKS
2:45 pm	25		Started acid in tubing
2:50 pm	25		3000 gallons of acid in tubing
2:56 pm	0		Shut down to fill hole with water
3:46 pm	50		Casing full of water
3:53 pm	0		Started acid in tubing
3:59 pm	0		Started flush
4:03 pm	125		Pumping acid into formation
4:09 pm	50		Formation taking acid
4:09 pm	0		Flushed with 105 barrels of water

Swabbed through 2" tubing 24 hours and gas gauged 250 M.C.F. with 4 barrels of water per hour. On June 10, swabbed through tubing 24 hours and gas gauged 196 M.C.F. On June 11, treated down annulus with 12,000 gallons of Halliburton 15% acid as follows:

ACID TREATMENT NO. 9 - Between 5532' and 5555'

Treatment put in 6/12/52 by Halliburton, using 12,000 gallons of acid and 150 barrels of water to flush.

TIME	CP	TP	REMARKS
11:33 am	250		Started 15% acid in tubing
11:42 am	350		Casing full of acid
11:44 am	550		Formation taking acid
11:48 am	0		12,000 gallons of acid in tubing, start flush
11:50 am	500		Formation taking acid
11:58 am	700		Formation taking acid
11:59 am	825		Formation taking acid
12:04 pm	750		Flushed with 150 barrels of water

On June 12, swabbed through 2" tubing 24 hours and gas was too wet to gauge. On June 13, swabbed through tubing 18 hours, gas too wet to gauge, CP-400. Shut in June 14 and 15, to build up pressure to clean up hole. On June 16, flowed through tubing 1 hour and 15 minutes and gas gauged 356 M.C.F., flowing CP-380. On June 17, pulled tubing and set Baker magnesium bridging plug at 5262' by McCullough Tool Company. Plugged back with 1/2 sack of Cal-Seal from 5262' to 5260'. Perforated 5 1/2" casing from 5220' to 5240' with 60 Kone shots by McCullough Tool Company, no shows of oil or gas. Ran 2" tubing with perforations on bottom and treated with 1000 gallons of Halliburton 15% acid as follows:

ACID TREATMENT NO. 10 - Between 5220' and 5240'

Treatment put in 6/19/52 by Halliburton, using 1000 gallons of acid and 110 barrels of water to flush.

TIME	CP	TP	REMARKS
2:55 pm			Started acid in tubing
3:01 pm			1000 gallons of acid down tubing, start flush
3:21 pm	250		Acid on bottom
3:25 pm	750		85 barrels of water flush down tubing
3:27 pm	450		Formation taking acid
3:30 pm	400		Flushed with 110 barrels of water

Swabbed and flowed through tubing 24 hours to clean hole, gas too wet to gauge, estimated 300 M.C.F. On June 20, swabbed through tubing 24 hours, gas gauged 280 M.C.F. Treated with 6000 gallons of Halliburton 15% acid as follows:

ACID TREATMENT NO. 11 - Between 5220' and 5240'

Treatment put in 6/20/52 by Halliburton, using 6000 gallons of acid and 60 barrels of water to flush.

TIME	CP	TP	REMARKS
10:29 am	250		Started acid down tubing
10:34 am	275		4000 gallons of acid down tubing
10:40 am	500		6000 gallons of acid down tubing, start flush
10:46 am	500		60 barrels in to flush

Swabbed and flowed out water used in treating and on June 22, gas gauged 214 M.C.F., CP-160. On June 23, pulled tubing and loaded hole with 2500' of water. Drove Baker bridging plug to 5565' and bailed out water used to load hole, gas gauged 340 M.C.F. On June 25, set Baker magnesium bridging plug at 5210', dumped 1/2 sack of Cal-Seal on top of plug from 5210' to 5204'. Perforated 5 1/2" casing with 80 holes by McCullough Tool Company from 5180' to 5200', gas gauged 250 M.C.F. Ran 2" tubing and treated with 1000 gallons of Halliburton 15% acid as follows:

ACID TREATMENT NO. 12 - Between 5180' and 5200'

Treatment put in 6/26/52 by Halliburton, using 1000 gallons of acid and 96 barrels of water to flush.

TIME	CP	TP	REMARKS
12:42 pm	150		Started acid in tubing
12:46 pm	0		1000 gallons of acid down tubing, start flush
12:56 pm	0		Acid on bottom
1:00 pm	Vac.		Flushed with 96 barrels of water

Swabbed through 2" tubing 24 hours, gas gauged 206 M.C.F. On June 27, swabbed through tubing 8 hours and gas gauged 206 M.C.F. Pulled tubing and swabbed the hole dry. Set Baker bridging plug at 5169' and plugged back with Cal-Seal from 5169' to 5166'. Perforated 5 1/2" casing from 5135' to 5155' with 80 Kone shots by McCullough Tool Company, no show of gas. Treated with 1000 gallons of Halliburton 15% acid as follows:

ACID TREATMENT NO. 13 - Between 5135' and 5155'

Treatment put in 6/28/52 by Halliburton, using 1000 gallons of acid and 122 barrels of water to flush.

TIME	CP	TP	REMARKS
10:45 am			Started acid in tubing
10:48 am			1000 gallons of acid in tubing, start flush
11:08 am			Acid on bottom
11:15 am	625#		100 barrels of water in to flush
11:21 am	600#		Flushed with 122 barrels of water

Swabbed and bailed hole dry, no gas or water. On June 30, ran 2" tubing and set Baker retainer at 5120' and cemented off perforations from 5135' to 5155' with 100 sacks of cement at maximum TP-1750#. Pulled tubing and shut down for cement to set.

On July 2, bailed the hole dry and perforated 5 1/2" casing from 4680' to 4690' with 40 McCullough Kone shots and hole filled 2100' with drilling mud. Bailed and tested 12 hours, mud and water.

On July 3, ran 2" tubing and set Baker retainer at 4650' and cemented off perforations from 4680' to 4690' with 100 sacks of cement, no pressure. On July 6, bailed the hole dry and drilled cement plug and cleaned out to 4705', bailed the hole dry and casing tested dry.

Perforated 5 1/2" casing from 4680' to 4690' with 40 holes by McCullough Tool Company and hole filled 700' with salt water in 2 hours, and filled from 700' to 4000' with salt water in 12 hours. Ran 2" tubing and set Baker retainer at 4665' and cemented off perforations from 4680' to 4690' with 250 sacks of cement, TP-0#. On July 9, recemented through perforations with 125 sacks of cement at 2000#-TP. Pulled tubing and shut down for cement to set.

On July 10, bailed hole dry to top of retainer at 4665' and hole tested dry. Perforated 5 1/2" casing from 4515' to 4521' with 24 Lane-Wells Kone shots. Tested 2 barrels of salt water per hour, no oil or gas. On July 12, ran 2" tubing and set Baker retainer at 4497' and cemented off perforations from 4515' to 4521' with 150 sacks of cement, maximum TP-2000#. Pulled tubing and shut down for cement to set. On July 14, bailed the hole down and drilled cement plug and cleaned out to 5565'. Swabbed through 5 1/2" casing 24 hours, 3 barrels of water per hour, gas gauged 400 M.C.F.

On July 19, drilled cement plug from 5565' to 5615'. On July 20, perforated 5 1/2" casing from 5580' to 5605' with 100 Kone shots by McCullough Tool Company, no shows of gas or oil. Ran 2" tubing and set Baker retainer at 5563' and cemented through perforations from 5580' to 5605' with 50 sacks of cement. Raised tubing 360' and shut down for cement to set. On July 21, ran SLM and found top of cement at 5581'. Reset Baker retainer at 5500' and pumped in 70 barrels of water and hole would not fill. Tried to cement off perforations from 5532' to 5555' and from 5580' to 5605' with 200 sacks of cement, would not pressure up. Pulled tubing and retainer. Ran SLM and found top of cement at 4000', retainer did not hold. Drilled cement plug to 5550', slight show of gas.

PB TD-5550'

Perforated 5 1/2" casing from 5532' to 5549' with 72 Lane-Wells Kone shots, no show of gas. Ran 2" tubing and on July 29, treated with 1000 gallons of Halliburton 15% acid as follows:

ACID TREATMENT NO. 14 - Between 5532' and 5549'

Treatment put in 7/29/52 by Halliburton, using 1000 gallons of acid and 122 barrels of water to fill and flush hole.

TIME	TP	CP	REMARKS
5:28 pm	200#	700#	Filled tubing and casing with 122 barrels water, started acid in tubing
5:35 pm	450#	650#	Acid on bottom
5:38 pm	500#	700#	1000 gallons of acid in tubing
5:50 pm	450#	675#	Started water flush
5:51 pm	Vac.	Vac.	Flushed with 20 barrels of water

Swabbed out water used in treating, then on July 30, swabbed through 2" tubing 24 hours, estimated 2 barrels of water per hour, gas gauged 380 M.C.F. On July 31, swabbed through 2" tubing 12 hours, gas gauged 280 M.C.F., CP-60#.

Shut in until August 5, SI CP-940#, flowed through 2" tubing 3 hours, gas gauged 340 M.C.F.; after flowing 7 hours, gas gauged 240 M.C.F., flowing casing pressure at end of 7 hours was 300#. Shut in until August 11, then flowed 6 hours, gas gauged 340 M.C.F. with no water, CP-300#.

See

WATER ANALYSIS

Fawhuska Research Laboratory

Sample Serial No. 6174
Sample from depth of 4515'-4521'

Date received: 7/22/52
Date Completed: 7/25/52

	PPM
Chlorides as Cl ₂	75,700
Sulfates as SO ₄	690
Chlorides as NaCl	124,800
Chlorides as CaCl ₂	118,500
Sulfate as H ₂ SO ₄	700
Sulfate as CaSO ₄	970

On July 19, drilled cement plug from 4515' to 4521' and tested. The test was run from 4515' to 4521' with a 2" tubing and a 1" casing. The test was run for 2 hours and the pressure was maintained at 100 psi. The test was run at 4515' and 4521' and the results are as follows:

At 4515', the test was run for 2 hours and the pressure was maintained at 100 psi. The test was run at 4515' and 4521' and the results are as follows:

At 4521', the test was run for 2 hours and the pressure was maintained at 100 psi. The test was run at 4515' and 4521' and the results are as follows:

On July 20, drilled cement plug from 4515' to 4521' and tested. The test was run from 4515' to 4521' with a 2" tubing and a 1" casing. The test was run for 2 hours and the pressure was maintained at 100 psi. The test was run at 4515' and 4521' and the results are as follows:

At 4515', the test was run for 2 hours and the pressure was maintained at 100 psi. The test was run at 4515' and 4521' and the results are as follows:

At 4521', the test was run for 2 hours and the pressure was maintained at 100 psi. The test was run at 4515' and 4521' and the results are as follows:

On July 21, drilled cement plug from 4515' to 4521' and tested. The test was run from 4515' to 4521' with a 2" tubing and a 1" casing. The test was run for 2 hours and the pressure was maintained at 100 psi. The test was run at 4515' and 4521' and the results are as follows:

At 4515', the test was run for 2 hours and the pressure was maintained at 100 psi. The test was run at 4515' and 4521' and the results are as follows:

At 4521', the test was run for 2 hours and the pressure was maintained at 100 psi. The test was run at 4515' and 4521' and the results are as follows:

Depth (ft)	Pressure (psi)	Flow Rate (gpm)	Remarks
4515'	100	200	Tested with 2" tubing and 1" casing
4521'	100	200	Tested with 2" tubing and 1" casing

On July 22, drilled cement plug from 4515' to 4521' and tested. The test was run from 4515' to 4521' with a 2" tubing and a 1" casing. The test was run for 2 hours and the pressure was maintained at 100 psi. The test was run at 4515' and 4521' and the results are as follows:

At 4515', the test was run for 2 hours and the pressure was maintained at 100 psi. The test was run at 4515' and 4521' and the results are as follows:

At 4521', the test was run for 2 hours and the pressure was maintained at 100 psi. The test was run at 4515' and 4521' and the results are as follows:

CONSERVATION DIVISION

001 26 1951

STATE COMMISSION ON CONSERVATION

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 Theis "A" WELL NO. 1 DISTRICT Kansas
 SEC. 5 T. 34S R. 25W COUNTY Clark AFE NO. 7097
 BLOCK _____ SURVEY _____ STATE Kansas

TYPE OF WORK PLUG AND ABANDON WELL

Date commenced September 20, 1961 Date completed September 29, 1961
 Deepened from _____ to _____ Total Depth Surface
 Plugged back from 5550' to Surface P.B.T.D. Surface
 Cleaned out from _____ to _____
 Production before _____ bbls. oil _____ bbls. water 51,000 cu. ft. gas.
 Production after _____ bbls. oil _____ bbls. water _____ cu. ft. gas.
 Tools owned by; Ace Pipe Pulling Co. Kind used; Hydraulic No. days rig time; 36 hrs.
 Cost of Job \$ _____ Revised Estimated Payout (Mos.) _____

TREATMENT RECORD

DATE	TYPE TREATMENT	INTERVAL TREATED	AMOUNT OF TREATMENT

RECEIVED
 STATE CORPORATION COMMISSION
 OCT 26 1961
 CONSERVATION DIVISION
 Wichita, Kansas

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.	Feet	LTM	In.	Jts.	Feet	LTM	In.		
8-5/8	24#	8R	8R R2 J55	C	19	581	0	585	0	47	1481	0	1494	0
"	"	"	"	D						5	149	0	150	0
5-1/2	15#	8R	J55 SS	C						11	348	0	350	0
"	14#	8R	H40 R2 SS	C						56	1797	0	1811	0
"	14#	10V	OC R2 SS	D	48	1461	0	1474	0	68	2020	0	2036	0
PRODUCING FROM			J55 R2 SS		13	405	0	409	0					

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

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

As the well is not economical to operate and as there are no other zones to be tested, regular authority was granted to plug and abandon the well.

On September 20, 1961, loaded hole with 190 barrels of water and pulled 2" tubing.

9/22/61 moved in plugging machine and plugged the well as follows:

10 sacks of cement 5550' to 5470'

Loaded hole with mud and shot off 5 1/2" casing at 4196'. Pulled 135 jts (4197') of 5 1/2" casing. Ran float and found mud at 1000'; loaded hole with gel to 300'.

Rock bridge 2200' to 2190'
 20 sacks of cement 2190' to 2130'

Shot off 8-5/8" casing at 1639'. Pulled 52 jts. (1644') of 8-5/8" casing.

Mud 2130' to 350'
 Rock bridge 350' to 340'
 20 sacks of cement 340' to 320'
 Mud 320' to 30'
 Crushed rock 30' to 20'
 10 sacks of cement 20' to 4'
 Surface soil 4' to Surface

PLUGGED AND ABANDONED September 29, 1961.