

S K E L L Y O I L C O M P A N Y

15-155-19186

Well Record

Lease Name & No: Martin E. Sabin #10376 Well No: 1 Elev: 1502' DF

Lease Description: E/2 Sw/4, Section 11-23S-4W,
Reno County, Kansas.

Location made: July 21, 1934 By: Gould Randolph

330 feet from North line: 330 feet from East line of Lease

Rig com'd: July 25, 1934 Rig comp'd: 7-28-34 Drdg. com'd 8-4-34 Drdg. comp'd 10-5-34

Rig contractor: Mahan, McCarty and Besse, Inc.

Drilling Contractor: Southern and Thurmond

Rotary Drilling from: 0 to 3567' Cable Tool Drilling from: 3567' to 3609'
(Initial Prod. before acid: 6½ BPH swabbed bbls.

Commenced Producing: 10-6-34 (Initial Prod. after acid: 720 BPD pumped bbls.

Casing Head Gas Pressure _____ Volume: 50,000 Cu. ft.
Braden Head (12½" x 8¾")

PRODUCING FORMATION: HUNTON LIME Top: 3565' Bottom: 3609' Total Depth: 3609'

CASING RECORD

Size	Wt.	Thds	Where Set	Pulled Out		Left In		Kind	Cond'n	Sacks Used	Cementing	
				Jts.	Ft.	In.	Feet					
12½"	50#	8	500'			23	497'	0"	Lapweld	G C	435	Halliburton
8¾"	32#	8	3275'			108	3287'	6"	Seamless	A	275	"
7" OD 24#	10		3565'			118	3590'	9"	"	A	80	"

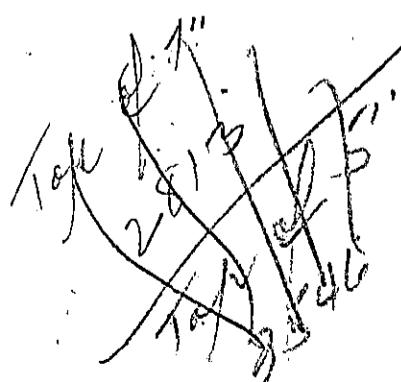
1948 Pulled out 7813'

SHOT OR ACID TREATMENT RECORD

	First	Second	RECEIVED
Date:	10-7-34	10-23-34	STATE CORPORATION COMMISSION
Acid Used	1000 Gals.	1500 Gals	FEB 26 1969
Put in by (Co)	Dowell, Inc.,	Dowell, Inc.,	CONSERVATION DIVISION Wichita, Kansas

SIGNIFICANT GEOLOGICAL FORMATIONS

Name	Top	Bottom	Remarks
Lansing Lime	2560	2725	
Chat (Mississippi Lime)	3263	3460	Oil stains 3345-3350'
Misener	3564	3565	
Hunton Lime	3565	3607	



FORMATION	TOP	BOTTOM	REMARKS
Shale and sand	0	193	
Shale and shells	193	269	
Shale and gyp	269	470	
Shale and lime shells	470	520	
Lime	520	530	Set 12 $\frac{1}{2}$ " casing at 500' w/ 435 sacks cement
Lime (White)	530	550	
Shale and shells	550	740	
Shale, shells and salt	740	840	
Lime shells	840	955	
Lime (Broken)	935	1015	
Lime (Sandy)	1015	1110	
Shale and Lime	1110	1265	
Shale and shells	1265	1370	
Shale and sandy lime	1370	1470	
Shale and shells	1470	1520	
Shale	1520	1600	
Shale and shells	1600	1685	
Shale	1685	1775	
Shale and lime	1775	1895	
Shale	1895	1945	
Lime	1945	2165	
Shale	2165	2180	
Lime	2180	2210	
Lime shells and shale	2210	2260	
Lime	2260	2300	
Lime	2300	2350	
Shale	2350	2365	
Sand	2365	2415	
Sand and broken lime	2415	2475	
Shale and lime	2475	2520	
Shale	2520	2535	
Lime	2535	2725	
Shale (Sandy)	2725	2740	
Lime	2740	2850	
Lime (Sandy)	2850	2865	
Lime	2865	2905	
Lime (Sandy)	2905	2930	
Lime	2930	3045	
Shale	3045	3170	
Lime and shale	3170	3195	
Lime (Sandy)	3195	3205	
Shale	3205	3216	
Shale and lime shells	3216	3251	
Shale (Red) lime shells and a little chert	3251	3263	
Chert and Chat (Very hard)	3263	3265	
Chat and broken shells	3265	3275	
Chat	3275	3460	
Shale and shells	3460	3490	
Shale	3490	3505	
Shale and shells	3505	3519	
Lime and shells	3519	3532	SLM correction from 3538' to 3532'
Shale	3532	3550	
Cored 3550'-3555' - Recovered 4" dark dolomitic shale			
Cored 3555' - 3558' - No recovery			
Cored 3558'-3564' - " "			
Cored 3564'-3566' - Recovered 1 $\frac{1}{2}$ " 1st, 6" - Hard gray sandy lime			
Last 1' - Hard crystalline lime			
Top MISNER - 3564'			
TOP HUNTON LIME - 3565'			
			Reamed hole to 3566' and set 8-1/4" at 3275' and cemented w/ 275 sacks on 9/8/34. Work was shut down on this date waiting on cement to dry. On 9/12/34 drilled out plug and 9/13/34, started running 7" OD casing, casing went to 3550' and stuck. 139 bbls of crude oil was pumped in and left

RECEIVED
STATE CORPORATION COMMISSION
FEB 26 1969
CONSERVATION DIVISION
Wichita, Kansas

RECEIVED
 STATE CORPORATION COMMISSION
 FEB 26 1969
 CONSERVATION DIVISION
 Wichita, Kansas

the 7" to loosen it. This procedure was effective and the 7" was pulled on this date. 250 sax of Aquagel and 60 sax of Baroid were mixed and run in the hole and circulated and the hole cleaned out until 6:00 AM 9-19-34, when drill pipe was laid down and the 7" rerun and set at 3565'. The hole was bailed down on 9-20-34 with gas thru the 7" testing 9,000,000 cut feet which later increased to around 12,000,000 cu. ft. The 7" casing was then shut in and the well allowed to gas thru the braden head for 12 hours after which the 7" casing was cemented 2/ 90 sax. In cementing the plug hung up on master gate and after being loosened would not go below 3107'. Tools were then rigged up and cement drilled out which bottomed at 3545' and tools went to bottom, showing that the cement job was ineffectual. Water was then pumped in and the gas killed and the hole bailed dry. After the hole was bailed down the gas came back thru the braden head with none showing thru the 7", so tried to raise the 7" but found it stuck. The hole was bailed clean and 75 bbls. of crude circulated around the 7" to loosen, after getting circulation w/ the oil, the 7" was again cemented w/ 80 sax and the plug going to 3530'. Standard drilling unit was then moved in while waiting on cement to set. Commenced bailing on 9-30-34 and on bailing the hole down 1200', gas started showing thru the braden head and increased as the hole was bailed down w/ none showing inside the 7". After bailing the hole dry to bottom test showed 1/4 barrel oil and 1/2 barrel water in 1 hour on 10-1-34. On 10-2-34 the cement was drilled out but the hole would not clean out to bottom due cavings coming in below the 7" and on 10/3/34-56' of 5-3/16" liner was set at 3564' and the hole cleaned out to that depth. On cleaning out to bottom 3567' the hole filled up 200' with oil and gas estimated at 25,000 cu. ft.

3566-69 good saturation - hole 700' w/ oil in 4 hours.
 No saturation or porosity - hole filled 1000' w/ oil in 6 hours.
 Good saturation and porosity - gas increased to 50,000 cu. ft. and hole filled to 1400' w/ oil in 8 hours.
 Good saturation hole filled to 2200' w/ oil in 10 hours.
 Fair saturation - hole filled to 2900' w/ oil in 14 hours, showing no water.
 3300' oil in hole at 3598'.
 No increase in oil.
 No increase in oil.

Dolomite, light brown sandy	3566	3569	
Dolomite, light gray sandy	3569	3571	
Lime, soft brown sandy	3571	3574	
Lime, soft brown sandy	3574	3579	
Lime, medium hard brown sandy w/ a little green shale	3579	3584	
Lime, brown and gray sandy	3584	3598	
Lime, light brown sandy	3598	3603	
Lime, light gray sandy w/ a little shale	3603	3609	
TOTAL DEPTH		3609	

barrels oil with the fluid swabbed down to 500'. The hole was then swabbed to bottom 3609' - 35 bbls. oil and no water. The well was left stand a few hours and at noon 10-6-34 started testing on swab, 1st, 2 hours swabbed 12.56 oil, 2nd, 1 hour 6.84 oil and 3rd, 1 hour 6.36 oil, after which 3" tubing was run in preparatory to acidizing. Acid treatment started at 10:00 AM 10-7-34 as follows:

Pumped in 50 bbls. oil CP 200# TP 200#
 Pumped in 5 gals. of Inhibiter
 Pumped in 15 gals. of blanket
 Pumped in 4 bbls. acid - Tbg. 26" Vacum - CP 100#
 Pumped in 8½ bbls. acid Tbg. 26" Vacum - CP 120#
 Pumped in 12 bbls. acid - Tbg. 26" Vacum - CP 150#
 Pumped in 17 bbls. acid - Tbg. 27" Vacum - CP 275#
 Pumped in 20 bbls. acid - Tbg. 27" Vacum - CP 300#
 Pumped in 24 bbls. acid - Tbg. 28" Vacum - CP 350#
 Pumped in 44 bbls. oil - CP 350# TP 350#
 Finished treatment at 12:00 noon 10/7/34

On 10/9/34 pulled tubing and bailed hole 6 hours then ran tubing and rods with hole standing full of oil. Started pumping test on well at 1:20 10/10/34, 1st, 1 hour pumped 63.90 oil, 2nd, 40 minutes pumped 49.00 oil and gas broke in thru 7" casing, pumping was then shut down and from 3:00 P.M. to 4:00 AM 10/11/34 flowed 15 barrels oil thru casing. On 10/11/34 water was pumped in and the gas killed, the tubing pulled and the 5-3/16" liner fished out preparatory to recementing 7" casing. The well was plugged back to 3568' w/ sand and chat and the 7" casing recemented w/ 200 sax Oilmax cement on 10/13/34. On 10/15/34 the hole was bailed down and cement drilled out on 10/16/34, after drilling out cement to bottom started cleaning out with hole caving badly at 3570', then run in 53' of 5-3/16" liner with hole standing 3000' in oil, set liner-at 3567' and went in with bailer to clean out and bailer would not go below linerxxx 3567' and went in with bailer to clean out and bailer would not go below linerxxx 3576'. Fished out liner on 10/19/34 and filled hole from 3593' to 3576' with fine rock then drilled out rock to straighten hole. The plug was drilled and cleaned out to bottom and on 10/20/34 the oil in the hole was swabbed to bottom, around 32½ BPH a total of 245 bbls. oil in all with no water showing. Tubing and rods were then rerun and at 8:20 AM 10/21/34 started potential test - 2½ hours Potential 424.11 bbls. mix oil and 14 bbls. water. After test raised tubing 30' and from 5:30 10-22-34 to 8:00 this date produced as follows: 3:30-4:30 49 bbls. oil, 4:30-5:30 25 bbls. oil, 5:30-6:30 20 bbls. oil and 6:30-8:00 32½ bbls. oil and a total of 5 bbls. water in the 4½ hours. Rods and tubing were pulled on this date, the tubing rerun and the well treated the second time w/ 1500 gals. Dowell "X" acid as follows:

ACID TREATMENT NO. 2 - Put in by Dowell, Inc.,

Ran in 35 barrels of oil
 Ran in 1000 gals. acid - CP 280# - 26" Vacum on tubing
 Ran in 500 gals. acid - CP 250# - 28" Vacum on tubing
 Ran in 22½ barrels of oil - CP 280# - 28" Vacum on tubing
 Pumped in 12½ barrels oil - CP 250# and TP 250#
 Pumped in 5 barrels oil - CP 250# and TP 250#
 Bled off 25 bbls. oil from casing head while putting in acid
 Finished treatment at 1:45 P.M. 10-23-34

On opening the well 10-26-34 it flowed 15 bbls. oil natural, the tubing was pulled, rerun with the rods and the well put to pumping at 10:30 AM 10-27-34. The head of oil was pumped down in five hours - 197½ bbls. and the well shut down to take potential test. Started potential test at 9:30 AM 10-28-34 and to 6:30 AM 10-29-34 - 21 hours, the well pumped 654.46 oil and 1/4 barrel water. At 6:30 AM 10-29-34, the steam engine with which the pumping equipment was being powered, broke down and full 2½ hour test at this time could not be made. On October 30th, 1934, the steam pumping outfit was moved out and the regular gas engine equipment rigged up to start pumping the well.

First 2½ hours starting 11:00 AM 11-5-34 and ending 11:00 AM 11-6-34, the well pumped 720 barrels oil and 5½ barrels water.

SLOPE TEST DATA

<u>Depth</u>	<u>Angle of deflection</u>
500'	1½ degrees
750'	1 "
1000'	1 "
1250'	1 "
1500'	1½ "
1750'	1½ "
2000'	1 "
2250'	2½ "
2500'	3 "
2750'	2 "
3000'	0 "
3250'	1½ "
3500'	1 "

RECEIVED
 STATE CORPORATION COMMISSION
 FEB 26 1969
 STATE CORPORATION COMMISSION
 CONSERVATION DIVISION
 Wichita, Kansas

S A B I N L E A S E

Report of Change in Well Record

Lease Name: M. E. SABIN #10376 Well No: 1

RECORD PERFORATING

Date Commenced: March 26, 1940
 Date Completed: April 16, 1940
 Cleaned out from _____ to T.D. 3609'
 Prod. before 20 bbls. oil 80 bbls. water 0 cu. ft. gas.
 Prod. after 20 bbls. oil 80 bbls. water 220 M cu. ft. gas
 Kind of tools used
 Tools owned by:

ACID NO. 3

Date: March 29, 1940
 Size shot: 1000 gals.
 Acid between: 3285 Ft and 3320 Ft.
 Put in by (Co): Halliburton
 Damage to casing or casing shoulder: None

CHANGES IN CASING RECORD

(Perforated 7" casing by Lane-Well with 66-1/2" holes between 3285-3320')

REMARKS

Due to the need of gas for gas engine operation on the M. E. Sabin Lease, it was decided to perforate the 7" casing in well No. 1 opposite the Chat gas zone of the Mississippi Lime in effort to get the necessary supply. On March 26th, pulled rods and tubing and perforated the 7" casing between 3285' and 3320' by Lane-Well with 66 holes. On perforating no show of gas was encountered, however, on March 29th, ran Halliburton packer on tubing and set packer at 3330' after which treated above packer with 1000 gallons of acid as follows:

ACID TREATMENT NO. 3 - Between 3285' and 3320'

Treatment put in by Halliburton Co., 3/29/40, using 1000 gallons of Halliburton acid and 52 barrels of oil to fill hole and flush tubing.

TIME	CP	TP	REMARKS:
11:37 am			Filled hole with 90 barrels of water and 10 barrels of oil, then started acid in hole.
11:55 am	150#	0#	Acid on bottom
11:57 am	0#	0#	1000 gallons of acid in hole, then started oil in hole
12:08 am	0#	0#	Flushed hole with 42 barrels of oil to complete treatment.

RECORD OF FORMATIONS

Since the well produced approximately 80 barrels of water along with 20 barrels of oil from the Hunton Lime zone, this water headed up during the perforating and acidizing of the well, making it necessary to pump the well several days to eliminate the head of water.

On April 10th, after depleting the water head, P.O.B. 24 hours, 22 barrels of oil 120 barrels of water and gas gauged 220,000 cubic feet. *from chart*

During the next 5 days the well produced as follows:

Date	Hours Pumped	Barrels		Casing Pressure
		Oil	Water	
4/12/40	24	20	68	115#
4/13/40	16 $\frac{1}{2}$	18	79	120
4/14/40	24	20	68	115
4/15/40	24	15	87	140
4/16/40	24	20	113	140

from Hunton

S K E L L Y O I L C O M P A N Y

Report of Change in Well Record

Lease Name: M. E. SABIN

Well No: 1

CLEANING OUT RECORD
SALVAGE 7" OD CASING

Date commenced: August 7, 1948

Date completed: August 30, 1948

T.D. 3609'

Prod. before 7 bbls. oil 80 bbls water Est. 20 M cu ft gas

Prod after 14 " 80 " " Est. 20 M "

Kind of tools used: Well Service Unit

Tools owned by: Sterling Well Servicing Co.

ACID RECORD

Date: 8/20/48

Size shot: 500 gals.

Shot between 3565 ft and 3609 ft

Put in by: Dowell Inc.

CHANGES IN CASING RECORD						(Left In)					
OD size	Wt. Thds.	Where set	Jts.	feet	In.	Jts.	Feet	In.	Kind	Cond'n	
7"	24	1PV	3565'	92	2813	3	26	777	6	SS	C

REMARKS

Moved in and rigged up machine of General Oil Tool Company on August 8, 1948. Ripped 7"OD casing at 2800' and pulled casing above that point (2813'3"). Swedged out top of 7" casing to 8-1/4" and ran 2 $\frac{1}{2}$ " tubing, and on August 20, treated Hunton Lime with 500 gallons of Dowell "X" acid as follows:

ACID TREATMENT NO. 4 - Between 3565' and 3609'

Treatment put in 8/20/48 by Dowell Inc., using 500 gallons of acid.

TIME	REMARKS
4:00 pm	Started acid in tubing
4:11 pm	Acid on bottom
4:20 pm	500 gallons of acid in formation
4:30 pm	Started flushing with water
4:50 pm	20 barrels on bottom, finished flushing

Ran rods and POB 8 hours, no oil and 30 barrels of water.

RECORD OF FORMATIONS

During the next nine days the well produced as follows:

Date	Hours Pumped	Barrels Oil	Barrels Water
8-22-48	24	8	90
8-23-48	24	9	90
8-24-48	24	16	85
8-25-48	24	14	85
8-26-48	24	14	80
8-27-48	24	14	80
8-28-48	24	15	80
8-29-48	24	14	80
8-30-48	24	14	80

RECEIVED
STATE CORPORATION COMMISSION
FEB 26 1969
CONSERVATION DIVISION
Wichita, Kansas

3577
2788