

SKELLY OIL COMPANY

REPORT OF CHANGE IN WELL RECORD

Give complete description of all cleaning out, deepening, plugging back and fishing jobs, changes in casing, material lost in hole, etc., not recorded in original well record.

LEASE NAME Miles "D" #7702 WELL NO. 1

CLEANING OUT RECORD				PLUGGING BACK DEEPENING RECORD			
Date commenced.....193.....				Date commenced.....September 19, 19 <u>40</u>			
Date completed.....193.....				Date completed.....October 10, 19 <u>40</u>			
Cleaned out from..... to..... T. D.....				Plugged back deepened from... <u>3500'</u> to <u>4070'</u> T.D. <u>4070'</u>			
Prod. before.....	bbls. oil.....	bbls. water.....	cu. ft. gas.....	Prod. before... <u>4 1/2</u> bbls. oil.....	<u>30</u> bbls. water.....	<u>none</u>	cu. ft. gas.....
Prod. after.....	bbls. oil.....	bbls. water.....	cu. ft. gas.....	Prod. after... <u>0</u> bbls. oil.....	<u>0</u> bbls. water.....	<u>50,200 M</u>	cu. ft. gas.....
Kind of tools used:.....				Kind of tools used: <u>Rotary and Cable</u>			
Tools owned by:.....				Tools owned by: <u>Ruso Drilling Company</u>			

ACID ~~SHOT~~ RECORD

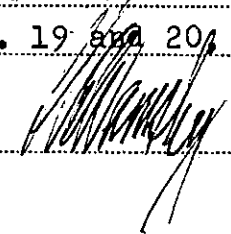
Date	<u>Oct. 5, 1940</u>				
Size shot	<u>1000</u> ^{Gals}		Qts.		Qts.
Shot between	<u>4052 Ft. and 4070 Ft.</u>	Ft. and	Ft.	Ft. and	Ft.
Size of shell					
Put in by (Co.)	<u>Halliburton</u>				
Length anchor					
Distance below casing					
Damage to casing or casing shoulder	<u>None</u>				

CHANGES IN 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
	<u>4-1/2"</u>	<u>9 1/2</u>	<u>8R</u>	<u>4052'</u>				<u>125</u>	<u>4082</u>	<u>9</u>	<u>Seamless</u>	<u>A</u>	<u>95</u>	<u>Halliburton</u>

Liner set at..... Length..... Perforated at.....
 Packer set at..... Size and kind.....

REMARKS (Give review of work accomplished and any other comment of interest) Due to the small oil productivity this well was producing from the Lansing Lime and to the fact that it was necessary to offset the Miles "B" with a Viola Lime test, it was decided to drill this well deeper and test the Viola Lime rather than drill a new well from the top down and thereby effect a large material and labor saving. Skelly Oil Company built a rotary rig over this hole on Sept. 19 and 20 and on
 (Use reverse side for continuation of remarks and for formation record).



Superintendent.

REMARKS (Continued) Sept. 21, Ruso Drilling Company moved in and rigged up rotary tools and drilled ahead as follows:

RECORD OF FORMATIONS

FORMATION	TOP	BOTTOM	REMARKS <small>Indicate Casing Points, Describe Shows of Oil, Gas and Water, etc.</small>
Cement	3500	3538	
Lime	3538	3609	
Medium soft oolitic lime	3609	3616	Little porosity and stained
Hard grey lime	3616	3649	
Medium soft oolitic lime	3649	3652	Little porosity and saturation
Hard grey lime	3652	3693	
Medium soft oolitic lime	3693	3701	Little porosity and saturation
Hard grey lime	3701	3846	
Shale	3846	3885	
Lime	3885	3898	
Lime and shale	3898	3945	
Dark shale	3945	3984	
Grey finely crystalline dolomite			
	3984	3994	<u>TOP KINDERHOOK DOLOMITE 3984'</u>
Grey dolomitic shale	3994	4052	
Grey chert and coarsely crystalline dolomite	4052	4058	Porous <u>TOP VIOLA LIME 4052'</u>
Brown and grey coarsely crystalline dolomite	4058	4063	Soft and porous
Same	4063	4070	Medium hard, porous
TOTAL DEPTH		4070'	

Seamless Steel casing at 4052' with 95 sacks of cement. Finished cementing at 7:30 PM, 9/29/40, and while shut down waiting for cement to set, moved out rotary tools and moved in and rigged up cable tools. Finished rigging up cable tools, bailed the hole down and drilled cement plug to 4035' on October 2, and 4½" casing tested OK. Drilled cement plug and cleaned out to bottom and cement job tested OK.

On October 4, bailed hole down 1300' and well cleaned itself and gas gauged 15,160 M cubic feet.

Set and cemented 4½"OD, 9½#,

On October 5, 1940, treated with 1000 gallons of Halliburton acid as follows:

ACID TREATMENT NO. 2 - Between 4052' and 4070'

Treatment put in by Halliburton Co., 10/5/40, using 1000 gallons of Halliburton acid and 3300 gallons of water to flush.

<u>TIME</u>	<u>CP</u>	<u>REMARKS</u>
9:30 AM	1200#	Started acid in hole
9:53 AM	1090#	400 gallons of acid in hole
10:02 AM	1035#	600 gallons of acid in hole
10:20 AM	700#	1000 gallons of acid in hole then started water in
10:33 AM	600#	500 gallons of water in hole
11:05 AM	100#	1500 gallons of water in hole
11:45 AM	20#	3300 gallons of water in hole to complete treatment

After acid treatment left well shut in 1 hour then opened and allowed well to clean itself of water and acid sludge after which gas gauged 44,500 M cubic feet by spring gauge. Shut in casing pressure-1250#.

The well was shut in from October 5, to October 10, at which time potential test was taken by the S.C.C. using the U.S. Bureau of Mines back pressure method to establish 24 hour potential of 50,200 M cubic feet and the shut in casing pressure was 1150#.