

SKELLY OIL COMPANY

REPORT OF CHANGE IN WELL RECORD

Cunningham "B" Unit #10

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. M. Ratcliff #8026 WELL NO. 7

CLEANING OUT RECORD				PLUGGING BACK DEEPENING RECORD			
Date commenced.....	193.....	Date commenced.....	August 3, 19341	Date completed.....	193.....	Date completed.....	September 5, 19341
Date completed.....	193.....	deepened from.....	2200' to 4178' T.D.	deepened from.....	2200' to 4178' T.D.	deepened from.....	4178' to 4178' T.D.
Prod. before.....	bbls. oil..... bbls. water..... cu. ft. gas.....	Prod. before.....	0 bbls. oil..... 0 bbls. water..... 910 M cu. ft. gas.....	Prod. after.....	bbls. oil..... bbls. water..... cu. ft. gas.....	Prod. after.....	0 bbls. oil..... 0 bbls. water..... 19,282 M cu. ft. gas.....
Kind of tools used:.....	2 1/2" AMP	Kind of tools used:.....	Rotary	Tools owned by:.....	Ruso Drilling Company	Tools owned by:.....	Ruso Drilling Company

SHOT RECORD

Date	Sept. 4, 1941	Sept. 5, 1941	
Size shot	500 gallons Qts.	1000 gallons Qts.	
Shot between	4140 Ft. and 4165 Ft.	4140 Ft. and 4165 Ft.	
Size of shell			
Put in by (Co.)	Halliburton	Halliburton	
Length anchor			
Distance below casing			
Damage to casing or casing shoulder	None	None	

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CHANGES IN CASING RECORD

SIZE	Wt.	Thds.	Where Set	PULLED OUT			LEFT IN			KIND	Cond'n	CEMENTING	
				Jts.	Feet	In.	Jts.	Feet	In.			Sacks Used	Method Employed
4 1/2" OD	9 1/2#	8R	4211				133	4244	3	Seamless	"A"	300	Halliburton
5 1/2" OD	20#	10		4	116	3				Seamless			
(4 1/2" casing perforated with 94 holes between 4140' and 4165')													

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

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

This well was originally completed in the Admire Shale, TD-2200', on September 5, 1936, for 14,600 M cubic feet of gas after acid treatment. This well's gas was used for repressuring in the Cunningham pool and by the first part of August, 1941, the gas from this zone had depleted until it was producing around 910 M cubic feet per day.

(Use reverse side for continuation of remarks and for formation record.)

REMARKS (Continued)

At this time it was decided to deepen the well to the Siliceous or Arbuckle Lime and complete as a gas well in that horizon if found productive in commercial quantities. To be a southwest offset to Miles "B" No. 4 and a West offset to Miles "A" #5.

Tools were moved in on August 3, 1941, the 116' 3" of 5 1/2" OD blind liner pulled and the well deepened as follows:

RECORD OF FORMATIONS

FORMATION	TOP	BOTTOM	REMARKS Indicate Casing Points, Describe Shows of Oil, Gas and Water, etc.
Lime	2200	2230	
Shale	2230	2295	
Sandy lime	2295	2355	
Shale	2355	2510	
Lime	2510	2525	
Shale	2525	2565	
Lime	2565	2695	
Shale	2695	2730	
Lime	2730	2785	
Shale	2785	2900	
Lime	2900	2930	
Sandy lime	2930	2977	
Lime	2977	3020	
Shale	3020	3050	
Lime	3050	3240	
Shale	3240	3411	(Well logged by Baroid Survey from 3947' to 4212')
Lime	3411	3573	
Shale	3573	3583	
Lime	3583	3712	
Chert	3712	3716	
Lime	3716	3785	
Shale	3785	3793	
Lime	3793	3816	
Shale	3816	3825	
Lime	3825	3861	
Shale	3861	3957	Top Kinderhook Dolomite at 3900'
Lime	3957	3959	
Dark green shale	3959	3963	Top Viola Lime at 3963'
Medium soft grey cherty dolomite	3963	3967	Porous w/ show of gas
Medium hard grey cherty dolomite	3967	3973	
Medium soft grey dolomite	3973	3997	Little porosity
Lime and chert	3997	4020	
Dark grey cherty dolomite	4020	4052	No saturation
Medium soft grey coarsely crystalline dolomite	4052	4061	Slight porosity & saturation Top Simpson Dolomite at 4061'

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Formation	From	To	Remarks
Medium soft grey sandy dolomite	4061	4068	Slight porosity & saturation show of gas.
Medium soft grey sandy dolomite	4068	4070	Porous & show of gas
Green shale w/ little sand	4070	4093	Top Simpson Shale at 4070'
Grey granular sand	4093	4120	Show of gas Top Simpson Sand at 4093'
Green pyritic shale and oolitic chert	4120	4139	
Dense crystalline dolomite & grey oolitic chert	4139	4145	Slight porosity
Medium soft crystalline dolomite	4145	4156	Porous & show of gas Top Siliceous Lime at 4139' (AKB)
Medium soft crystalline dolomite	4156	4161	Slight porosity & show of gas
Medium soft grey dolomite	4161	4166	Slight porosity, stained and show of gas
Medium grey coarsely c crystalline dolomite	4166	4180	No oil
Medium soft brown coarsely crystalline dolomite	4180	4191	Porous, light oil saturation
Hard grey dolomite	4191	4212	

Set and cemented 4 1/2" OD, 9 1/2", 8RT SS casing at 4211' with 300 sacks of cement and 12 sacks of aquagel. Finished cementing at 12:30 AM, 8/26/41 and while shut down waiting for cement to set, rigged up cable tools. Finished rigging up and bailed the hole to 2600' and test showed bad cement job on 4 1/2" casing. Cleaned out to bottom, ran 2" tubing with Halliburton cement retainer and set retainer at 4175' and recemented 4 1/2" casing with 17 sacks of cement. Bailed hole dry on September 3rd and cement job tested OK. Ran SIM and found top of cement plug at 4178'. Filled hole with water and perforated 4 1/2" casing by Lane-Wells with 94 holes from 4140' to 4165'. Ran 2" tubing on Sept. 4th and swabbed well in thru tubing and gas gauged 6,360 M cubic feet. Treated with 500 gallons of Halliburton acid as follows:

TOTAL DEPTH - ^{PB}4178'

ACID TREATMENT NO. 2 - Between 4140' and 4165'

Treatment put in by Halliburton Co., 9/4/41, using 500 gallons of Halliburton acid and 700 gallons of water to flush.

TIME	CP	TP	REMARKS:
6:40 PM	1330#	1400#	Start acid in hole
6:55 "	1380#	1000#	260 gallons of acid in hole
7:03 "	1400#	600#	500 gallons of acid in hole then started water in to flush.
7:21 "	300#	1600#	Flushed hole with 700 gallons of water to complete treatment.

After acid treatment, let well stand 1 hour then blew down and gas gauged 13,900 M cubic feet. On Sept. 5th, treated with acid as follows:

ACID TREATMENT NO. 3 - Between 4140' and 4165'

Treatment put in by Halliburton Co., 9/5/41, using 1000 gallons of Halliburton acid and 1500 gallons of water to flush.

<u>TIME</u>	<u>CP</u>	<u>TP</u>	<u>REMARKS:</u>
8:00 AM			Start acid in hole
8:05 "	1340#	1300#	200 gallons of acid in hole
8:11 "	1355#	320#	600 gallons of acid in hole
8:24 "	1340#	0#	1000 gallons of acid in hole then started water in to flush.
8:30 "	1300#	0#	Flushed hole with 1500 gallons of water to complete treatment.

After acid treatment, left well shut in for 1 hour then flowed for 30 minutes and gas gauged 19,282 M cubic feet. Shut-in casing pressure-1340#.

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