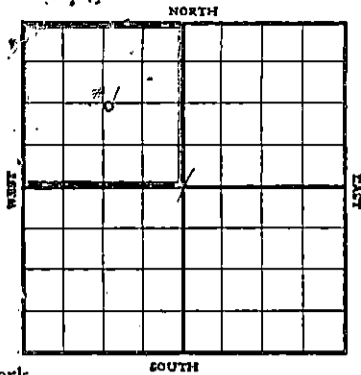


SKELLY OIL COMPANY

Well Record



Lease Name and No. F. F. Allbritten #16059 Well No. 1 Elev. 1759' DF
 Lease Description NW/4, Section 1-28S-11W
Pratt County, Kansas

Location made July 28, 1939 By Gould Randolph
1326 feet from North line _____ feet from East line } of Lease
 _____ feet from South line 1338 feet from West line }

Work
 Rm com'd July 28, 1939 Rig comp'd July 31, 1939 Drlg. com'd Aug. 3, 1939 Drlg. comp'd Sept. 5, 1939
 Rig Contractor Bodine Drilling Company, Cork Building, Great Bend, Kansas

Drilling Contractor " " " " " " " "
 Rotary Drilling from Surface to 4195' Cable Tool Drilling from 4195' to 4212'

Commenced Producing Sept. 5, 1939 { Initial Prod. before Hyd/acid 9,614 M cu.ft. gas Bbls.
 Initial Prod. after Hyd/acid 29,897 M cu.ft. gas Bbls.
 Dry Gas Well Pressure 1280# Volume S.C.C. potential 33,000 M (9/14/39) Cu. ft.

Casing Head Gas Pressure _____ Volume _____ Cu. ft.
 Braden Head (10-3/4" x 5-1/2") Gas Pressure _____ Volume _____ Cu. ft.
 Braden Head (_____) Gas Pressure _____ Volume _____ Cu. ft.

PRODUCING FORMATION Viola Lime (Name) Top 4192 1/2' Bottom 4212' TOTAL DEPTH 4212'

CASING RECORD

Size	Wt.	Thds.	Where Set	PULLED OUT			LEFT IN			KIND	Cond'n	CEMENTING	
				Jts.	Fcet.	In.	Jts.	Feet	In.			Sacks Used	Method Employed
10-3/4	45	8	343	(10'	in cellar)	13	336	5	Seamless	C	150	Halliburton Process	
5-1/2	14	10	4193	(Cased to DF)	141	4228	0	Seamless	A	300	"	"	
(Used one, 5 1/2" OD Baker Combination Guide and 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	<u>Sept. 6, 1939</u>			
Acid Used	<u>1500</u>	Gals. Qts.	Gals. Qts.	Gals. Qts.
Size Shot				
Shot Between	<u>4193 Ft. and 4212 Ft.</u>	Ft. and Ft.	Ft. and Ft.	Ft. and Ft.
Size of Shell				
Put in by (Co.)	<u>Halliburton Co.</u>			
Length anchor				
Distance below Cas'g				
Damage to Casing or Casing Shoulder				

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SIGNIFICANT GEOLOGICAL FORMATIONS

NAME	Top	Bottom	GAS		OIL		Description
			From	To	From	To	
Lansing Lime	<u>3552</u>				<u>3792</u>	<u>3797</u>	Porous oil stained oolitic lime
Kinderhook Dolomite	<u>4130</u>		<u>4195</u>	<u>4212</u>			Main body pay formation
Viola Lime	<u>4192 1/2</u>						
							See formational record for further details.

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DRIILLED:

Grey and brown crystalline dolomite with 20% blue chert	4195	4200	Gas estimated 75,000 cu.ft.
No sample	4200	4205	Gas gauged 2,520 M cu.ft.
" "	4205	4207	No increase in gas
" "	4207	4208	Gas gauged 2,790 M cu.ft.
Dark grey porous dolomite	4208	4209	Gas gauged 3,201 M cu.ft.
Dark grey, very porous dolomite	4209	4211	Gas gauged 9,614 M cu.ft.
Dense grey dolomite	4211	4212	No porosity or increase in gas

TOTAL DEPTH - 4212'

On September 6th treated with Halliburton acid as follows:

ACID TREATMENT NO. 1

Treatment put in by Halliburton Co., 9/6/39, using 1500 gallons of penetrating acid and 1500 gallons of water to flush casing.

TIME	CP	REMARKS:
10:37 AM		Tested connections to 1390# then started acid in hole
10:41 "	1360#	100 gallons of acid in hole
10:49 "	1295#	300 gallons of acid in hole
10:55 "	1230#	500 gallons of acid in hole
11:01 "	1160#	700 gallons of acid in hole
11:09 "	1120#	900 gallons of acid in hole
11:16 "	1150#	1100 gallons of acid in hole
11:23 "	1175#	1300 gallons of acid in hole
11:35 "	1035#	1500 gallons of acid in hole then started water in to flush casing.
11:37 "	955#	200 gallons of water in hole
11:43 "	925#	400 gallons of water in hole
11:51 "	875#	700 gallons of water in hole
11:56 "	800#	1000 gallons of water in hole
12:00 "	760#	1200 gallons of water in hole
12:05 "	670#	1500 gallons of water in hole to complete treatment then shut well in for acid to act.

After acid treatment, left well shut in for two hours then opened and blew well down in order to clean hole of acid sludge and water used during treatment. After cleaning hole, gas gauged 29,897 M cubic feet and after shutting well in, casing pressure built up to 1350#. The above gauge on gas was taken with spring gauge, however, U.S. Bureau of Mines test for S.C.C. established potential of 33,000 M cubic feet on Sept. 14, 1939. SI CP-1280#

SLOPE TEST DATA

DEPTH	ANGLE OF DEFLECTION
250'	0 Degrees
500'	"
750'	"
1000'	0 "
1250'	0 "
1500'	0 "
1750'	0 "
2000'	0 "
2250'	0 "
2500'	0 "
2750'	0 "
3000'	1 "
3250'	1 "
3500'	1 "
3750'	1 "
4000'	2 "

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RECORD OF FORMATIONS

FORMATION	TOP	BOTTOM	REMARKS
			Indicate Casing Points, Describe Shows of Oil, Gas and Water, etc.
Sand	0	45	
Sand and clay	45	210	
Red beds	210	265	
Shale and shells	265	385	Set and cemented 10-3/4"OD, 45#, Seamless Steel casing at 343' with 150 sacks cement.
Red bed and shells	385	480	
Red bed and shale	480	700	
Shale and shells	700	1200	
Salt	1200	1450	
Shale	1450	1500	
Lime	1500	1515	
Broken lime and shale	1515	1598	
Lime	1598	1660	
Broken lime	1660	1740	
Broken lime and shale	1740	1818	
Lime	1818	1880	
Sandy lime	1880	1925	
Lime	1925	2000	
Shale and lime	2000	2065	
Broken lime and shale	2065	2140	
Broken lime	2140	2305	
Shale and shells	2305	2320	
Shale	2320	2445	
Lime and shale	2445	2520	
Broken lime and shale	2520	2575	
Broken lime	2575	2705	
Broken lime and shale	2705	2740	
Broken lime	2740	2795	
Lime	2795	2855	
Broken lime	2855	2900	
Lime	2900	2995	
Shale and shells	2995	3045	
Lime	3045	3060	
Broken lime	3060	3130	
Shale	3130	3165	
Lime	3165	3190	
Black and red shale	3190	3265	
Broken lime	3265	3385	
Black and grey shale	3385	3400	
Lime	3400	3425	
Broken lime	3425	3435	
Shale	3435	3470	
Broken lime	3470	3510	
Sand and shale	3510	3535	
Broken lime and shale	3535	3552	
Grey crystalline lime	3552	3560	Top Lansing Lime at 3552'
Lime	3560	3705	
Cherty Lime	3705	3745	Porous oolitic lime, spotted saturation from 3736' to 3742'
Lime	3745	3775	
Broken lime	3775	3790	
Lime	3790	3940	Slightly porous oil stained oolitic lime from 3792' to 3797'
Broken lime	3940	4030	
Shale	4030	4060	
Shale and shells	4060	4115	
Grey and black shale	4115	4190	Top Kinderhook Dolomite at 4130'
Dark grey shale	4190	4194 $\frac{1}{2}$	Top Viola Lime at 4192 $\frac{1}{2}$ ' SIM
Blue chert and grey crystalline dolomite	4194 $\frac{1}{2}$	4195	
Grey crystalline dolomite	4195	4197	Set and cemented 5 $\frac{1}{2}$ "OD, 14#, SS casing at 4193' SIM with 300 sacks of cement. Finished cementing 8/27/39, and while waiting on cement to set, moved in and rigged up cable tools. Finished rigging up and drilled cement to 4170' on September 2nd, after bailing hole down and testing 5 $\frac{1}{2}$ " casing, which tested OK, reloaded the hole with fresh water on Sept. 2nd and on Sept. 3rd drilled bottom plug. On Sept. 4th, bailed the hole dry to bottom and had a smell of gas on cleaning out to bottom. Correction: 4197' SLM rotary table equals 4195' SLM derrick floor.

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Top Kinderhook Dolomite at 4130'

Top Viola Lime at 4192 $\frac{1}{2}$ ' SIM

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Moved in and rigged up cable tools of Flournoy Drilling Company on September 2, 1949, and drilled deeper as follows:

Hard gray cherty lime	4212	4237	No increase in gas. Gas gauged 441 M.C.F.
Grey cherty lime	4237	4245	No increase in gas
Grey and brown cherty lime	4245	4255	Gas gauged 550 M.C.F.
TOTAL DEPTH		4255'	

On September 7, treated with 2500 gallons of Dowell "XF-18" acid through 5½" casing as follows:

ACID TREATMENT NO. 2 - Between 4193' and 4255'

Treatment put in 9/7/49 by Dowell Inc., using 2500 gallons of acid and 105 barrels of water to flush.

TIME	CP	TP	REMARKS
8:35 am			Start acid down casing
8:55 am	Vac.		2500 gallons of acid in hole, start water
9:12 am	Vac.		43 barrels of water in hole, hole volume
9:35 am	Vac.		105 barrels of water in hole and treatment completed

Bailed out water used to acidize and bailed hole clean, and gas gauged 388 M.C.F. On September 10, set Lane-wells bridging plug at 3625' and perforated 5½" casing from 3590' to 3600' with 45 holes by Lane-wells. Treated with 1000 gallons of Dowell "XF-18" acid through 5½" casing as follows:

ACID TREATMENT NO. 3 - Between 3590' and 3600'

Treatment put in 9/10/49 by Dowell Inc., using 1000 gallons of acid and 88 barrels of oil to fill hole and flush.

TIME	CP	TP	REMARKS
9:08 pm			1000 gallons of acid in hole
9:50 pm	300'		Filled hole with 64 barrels of oil, start flush
10:00 pm	1100'		42 gallons acid in formation
10:10 pm	875'		84 gallons acid in formation
10:15 pm	800'		180 gallons acid in formation
10:20 pm	900'		350 gallons acid in formation
10:25 pm	900'		630 gallons acid in formation
10:32 pm	700'		1000 gallons acid in formation and treatment completed

Swabbed out oil used in treating, then swabbed through 5½" casing 24 hours, 15 barrels of oil and 95 barrels of water. On September 12, set Lane-wells bridging plug at 3575', then perforated 5½" casing from 3552' to 3560' with 48 holes by Lane-wells. On September 13, treated through 5½" casing with 1000 gallons of Dowell "XF-18" acid as follows:

ACID TREATMENT NO. 4 - Between 3552' and 3560'

Treatment put in 9/13/49 by Dowell Inc., using 1000 gallons of acid and 88 barrels of oil to fill hole and flush.

TIME	CP	TP	REMARKS
7:00 am			1000 gallons acid in hole
7:40 am			Filled hole with 64 barrels of oil, start flush
7:45 am	300'		120 gallons acid in formation
7:50 am	375'		250 gallons acid in formation
7:55 am	400'		370 gallons acid in formation
8:00 am	450'		560 gallons acid in formation
8:05 am	500'		770 gallons acid in formation
8:10 am	550'		1000 gallons acid in formation and treatment completed

Swabbed out oil used in treating, then swabbed 18 hours, 25 barrels of oil and 117 barrels of water. On September 14, swabbed through 5½" casing 4 hours, 1½ barrels of oil and 22 barrels of water. Drove Lane-wells bridging plug to 3621'. Ran 2" tubing and set Baker cement retainer at 3532' and squeezed off perforations from 3590' to 3600' and 3552' to 3560' with 200 sacks of cement at 360'-TP. Filled tubing and shut down for cement to set. On September 18, bailed the hole dry and cement job tested OK. Drilled cement plug and Lane-wells bridging plug and cleaned out to 4255'. On September 21, ran 2" tubing and connected well to Cunningham Gasoline plant line. On September 22, flowed through 2" tubing, 1/2" orifice, 17 hours, TP-56', gas gauged 119 M.C.F.; at end of 24 hours gas gauged 168 M.C.F.

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