

DATE 1/20/55

THE OHIO OIL CO

HISTORY OF OIL OR GAS WELL

FIELD South Blanco

WELL NO. 8 LEASE Jicarilla BLOCK SEC. 28 TWP. 26 N R. 5 W
 STATE New Mexico PARISH Ria Arriba COUNTY Ria Arriba
 990' East Line
 990' South Line

MEASUREMENTS TAKEN FROM
 TOP OF OIL STRING _____ ELEV. _____
 TOP OF ROTARY TABLE _____ ELEV. _____
 GRD. OR MAT _____ ELEV. _____

HISTORY PREPARED BY George Susich
 TITLE _____

IT IS OF THE GREATEST IMPORTANCE TO HAVE A COMPLETE HISTORY OF THE WELL. USE THIS FORM IN REPORTING THE HISTORY OF ALL IMPORTANT OPERATIONS AT THE WELL, TOGETHER WITH THE DATES THEREOF, INCLUDING SIZE OF HOLE, SIZE AND NUMBER OF BITS, COMPLETE DESCRIPTION OF CASING, CEMENTING, FISHING OR DRILLING DIFFICULTIES, SURVEYS, ALL TESTS, ALL COMPLETION OPERATIONS AND PROCEDURE, ETC.

DATE	
1/6/55	Fleeger Riley Contractor, Rig #5 tearing down and moving to new location.
1/7/55	Rigging up. Raised mast. Broke tour.
1/8/55	Finished rigging up. Drilled mouse hole & rat hole. Spudded 4:00 p.m. Drilled 180 feet of 11" surface hole, reaming to 15".
1/9/55	T.D. 180'. Finished reaming at noon. Ran 5 jts. 10-3/4" 32.75# 8R H-40 casing: <div style="margin-left: 400px;"> 154.00 Net 1.27 Baker Guide Shoe 155.27 TOTAL 1.50 Below Grd. 12.60 Grd. to KB 169.37 Landed KB </div> Cemented with 125 sks. Reg. by HOWCO. Displaced casing with 17 bbls. H ₂ O. Plug down at 2:30 p.m. Good returns on cement. Top of plug estimated at 153' KB. W.O.C.
1/10/55	T.D. 234'. Nippled up. Getting ready to drill out. Pressured casing for 1/2 hr. with 500#/in ² . Casing O.K. Started drilling out of surface at 5:30 p.m. Cement plug at 150'.
1/11/55	T.D. 938'. Came out of hole for Bit #2 HTC-OSC-3. Repairing low clutch on draw works.
1/12/55	T.D. 1666'. Finished repairing clutch, started back in hole at 10:00 a.m. Drlg. ahead in shale & sand. Went in hole with Bit #2 HTC-OSC-3. Dev. at 1550' (3/4°).



1/13/55 T.D. 2277'. Drlg. ahead. Made trip for Bit #3 HTC-OSC-3.

1/14/55 T.D. 2575'. Drlg. ahead. Made trip for Bit #4 RR HTC-OSC-61. Dev. at 2600' - 3/4°.

1/15/55 T.D. 3096'. Drlg. ahead. Made trip for Bit #5 HTC-OWV 7-7/8". Reduced hole size at 2900', sample top PC Sand 3084' (+350°6). Conditioning hole and mud to run Schlumberger.

1/16/55 T.D. 3100'. Conditioning mud & hole. Waiting on Schlumberger. Circulating 9 hrs. Schlumberger on location at 11:00 a.m. Started out of hole. Encountered tight hole. Worked pipe through tight spots & circulated. Started out of hole and repairing air leak on clutches, on bank at 7:00 p.m. Run Schlumberger. Could not get below 1478'. Came out of hole, went in hole with drill pipe.

1/17/55 T.D. 3100'. Working on air lines 10 hrs., on bottom at 6:30 a.m. Circulating and conditioning hole. Came out of hole at 2:00 p.m. Run Schlumberger. Could not get below 2880'. Started back in hole working on air compressor at 6:00 p.m. On bottom at 9:00 p.m. conditioning mud & hole. Started out of hole at 10:30 p.m.

1/18/55 T.D. 3101'. On bank at 2:00 a.m., ran Schlumberger Micro & ES Logs - Schlumberger T.D. 3101'. Went back in hole. Reamed 7-7/8" hole from 2900' to 3100' w/9" bit. Came out of hole. Went back in hole with 9" bit & junk sub. Drilled to 3103. Circulated 1 hour. Came out of hole for core barrel. Started in hole with core bbl. (Christensen conventional barrel).

1/19/55 T.D. 3133'. On bottom at 7:00 a.m. Cut core #1 3103-06. Froze swive-bearing on swivel. Came out of hole waiting on swivel.

1/20/55 T.D. 3154'. Went in hole with core bbl. Cut core #2 3106-46 - cut 40', recd. 40'. Went back in hole for core #3.

1/21/55 T.D. 3168'. Cut core #3 3146-61. Cut 15', recd. 15'. Went back in hole with 9" bit. Reamed from 3100' to 3161'. Drilled to 3171'. Came out of hole for Schlumberger.

1/22/55 T.D. 3171'. Ran Schlumberger. Could not get below 3089'. Went in hole with 9" bit. Conditioned hole. Circulated 2 hrs. Came out of hole. Ran Schlumberger ES & Micro-Caliper Logs. Schlumberger T.D. 3171'. Went back with bit, circulated 1 hr. Came out of hole laying down drill pipe.

1/23/55 T.D. 3171'. Rigged up to run casing. Ran 100 jts. 7" O.D. 20# 8R J-55 casing:

3068.64 Net
2.02 Larkin Cementrol Shoe
1.08 Larkin Flapper Type Float Collar
3071.74 TOTAL

Landed shoe at 3070' KB with collar 3034.50 KB. Ran centralizers at following depths: 3061.98, 3047.98, & 3028.50. Cemented casing with 100 sh. Reg. by HOWCO. Displaced casing with 123 bbls. H₂O. Plug down at 1:00 p.m. Bumped plug with 1500#/in². Estimated top of cement in annulus at 2440'. Landed casing at 1:00 p.m. Released rig. Ran Temp. Survey. Found top of cement in annulus at 2340 PBSD 3026 by B & R Service.

1/24/55 PBSD 3026'. W.O.C.

1/25/55 PBSD 3026'. W.O.C.

1/26/55 PBSD 3026'. McKinney spudder on location at noon. Rigging up.

1/27/55 PBSD 3026'. Finished rigging up. Bailing hole down. Bailed hole to 2000'. Started drilling out cement. Top of cement at 3026'.

1/28/55 T.D. 3171'. Finished drilling out cement from 3026' to 3069'. Open hole from 3070' to 3171'. Bailed out rotary mud & cleaned out hole. Well making show of gas. Ran Schlumberger Gamma Ray - Induction Log & Temp. Log.

1/29/55 T.D. 3171'. Finished running logs. Rigged up to run tubing. Ran 100 jts. 2-3/8" J-55 4.7# 8R Tubing:

3124.41 Net
30.35 Anchor
3.00 Pup
3157.76 TOTAL
10.50 Landed Below KB
3168.26 Landed KB

Landed tubing 3' off T.D. Natural gas flow before sand frac 9,450 Cfd. through tubing. Sand frac from 3070' to 3171' KB by HOWCO. Used 4 T-10s trucks. Pumped 20 bbls. cushion ahead of sand. Broke formation with 2500# on tubing, 1500# on casing. Treatment pressures on casing 950#, tubing 2200#. Final pressure 650#. Used total of 880 bbls. water, used 30,400 gals. H₂O & 45,000# sand (1.48#/gal.) Pumped total of 880 bbls. H₂O and 49 bbls. sand in 23 min. Average injection rate 40.5 bbls. per min. Flushed sand with 1.35 bbls. H₂O, well flowing water for 2 hours after frac. Rigging up and swab.

1/30/55	T.D.	Swabbed well in. Well making gas through casing could not get communication from casing to tubing. Rocked well several times with 975# on casing. Could not break through sand bridges. Waiting on HOWCO. Pump truck 6 hrs. Reversed circulation through casing. Washed hole with 176 bbls. H ₂ O. Washed back sand. Started to swab in well.
2/1/55		Swabbed in well at 4:00 p.m. Blew well until midnight. Released rig at midnight. Blowing well.
2/2/55		Blowing well.
2/3/55		Blowing well.
2/4/55		Blowing well.
2/5/55		Well making 1,260 Mcfd through tubing. Gauged with 1" side static nipple on tubing. 175# back pressure on casing.

CORE RECORD
JICARILLA #8

	<u>FROM</u>	<u>TO</u>	<u>CUT</u>	<u>REC'D</u>	<u>DESCRIPTION</u>
CORE #1	3103	3106	3'	3'	SS, fine ground, glauconitic, has some gas odor. Spotted bleeding appears to be very light & well cemented.
CORE #2	3106	3146	40'	40'	SS, same as above
	3106	3134			SH, black
	3134	3136			SS, same as above
	3136	3144			SS, same as above with inclusion of black sh. & grey sh.
	3144	3146			
CORE #3	3146	3161	15'	15'	SS, grey, fine grd., glauconitic, interbedded with black & grey sh., has no odor; no bleeding of core appears to be very hard & tight & well cemented.
	3146	3157			SS, same as above, silty, has no sh. interbedded
	3157	3160			SS, same as above, with 1/2 foot sh. black to grey
	3160	3161			

Core Analysis by Core Laboratory

ACTUAL CASING RECORD

WELL Jicarilla #8 FIELD South Blanco ELEV. KB 5670'

This form is to be filled out after each casing job. Its purpose is to give an accurate record of the sequence in which the joints were run so that at any later date, the collars can be accurately located.

Date _____ Csg. size _____ Wt. _____ Landed at _____ Hole T.D. _____

Distance from KB to Grd _____ All measurements from KB

Jt. No.	Length	Collar Depth	Remarks	Jt. No.	Length	Collar Depth	Remarks
		3070.00	Landed KB	18	30.80	2521.16	
	2.02	3067.98	Larkin Cement control shoe	19	31.19	2489.97	
1	32.40	3035.58		20	29.61	2460.36	
	1.08	3034.50	Larkin Float Collar	21	31.45	2428.91	
2	29.74	3004.76		22	29.93	2398.98	
3	27.88	2976.88		23	27.88	2371.10	
4	29.59	2947.29		24	30.61	2340.49	
5	28.94	2918.35		25	31.76	2308.73	
6	31.31	2887.04		26	31.48	2277.25	
7	30.92	2856.12		27	29.79	2247.46	
8	28.76	2827.36		28	29.38	2218.08	
9	31.35	2796.01		29	32.29	2185.79	
10	31.06	2764.95		30	30.26	2155.53	
11	29.08	2735.87		31	32.41	2123.12	
12	31.88	2703.99		32	31.59	2091.53	
13	29.48	2674.51		33	30.93	2060.60	
14	31.17	2643.34		34	28.50	2032.10	
15	31.14	2612.20		35	30.54	2001.56	
16	28.75	2583.45		36	31.26	1970.30	
17	31.49	2551.96		37	28.62	1941.68	

ACTUAL CASING RECORD

WELL Jicarilla #8 FIELD South Blanco CLEV. KB 6670'

This form is to be filled out after each casing job. Its purpose is to give an accurate record of the sequence in which the joints were run so that at any later date, the collars can be accurately located.

Date _____ Csg. size _____ Wt. _____ Landed at _____ Hole T.D. _____

Distance from KB to Grd _____ All measurements from KB

Jt. No.	Length	Collar Depth	Remarks	Jt. No.	Length	Collar Depth	Remarks
38	31.75	1909.93		58	30.88	1302.58	
39	29.73	1880.20		59	32.49	1270.09	
40	28.73	1851.47		60	27.18	1242.91	
41	31.38	1820.09		61	31.16	1211.75	
42	31.46	1788.63		62	31.77	1179.98	
43	28.88	1759.75		63	31.36	1148.62	
44	29.23	1730.52		64	28.50	1120.12	
45	28.33	1702.19		65	31.65	1088.47	
46	31.70	1670.49		66	31.39	1057.08	
47	30.37	1640.12		67	30.34	1026.74	
48	27.45	1612.67		68	32.55	994.19	
49	28.88	1583.79		69	31.54	962.65	
50	28.87	1554.92		70	30.61	932.04	
51	32.00	1522.92		71	28.68	903.36	
52	32.93	1489.99		72	32.40	870.96	
53	28.70	1461.29		73	28.87	842.09	
54	31.54	1429.75		74	31.50	810.59	
55	33.02	1396.73		75	31.64	778.95	
56	31.53	1365.20		76	31.22	747.73	
57	31.74	1333.46		77	32.55	715.18	

ACTUAL CASING RECORD

WELL Jicarilla #8 FIELD South Blance ELEV. KB 6670'

This form is to be filled out after each casing job. Its purpose is to give an accurate record of the sequence in which the joints were run so that at any later date, the collars can be accurately located.

Date _____ Csg. size _____ Wt. _____ Landed at _____ Hole T.D. _____

Distance from KB to Grd _____ All measurements from KB

Jt. No.	Length	Collar Depth	Remarks	Jt. No.	Length	Collar Depth	Remarks
78	31.78	683.40		98	31.77	64.20	
79	31.28	652.12		99	32.89	31.31	
80	30.94	621.18		100	33.05	-1.74	
81	30.69	590.49					
82	29.64	560.85					
83	29.99	530.86					
84	31.07	499.79					
85	31.84	467.95					
86	31.92	436.03					
87	31.41	404.62					
88	32.69	371.93					
89	31.79	340.14					
90	28.87	311.27					
91	31.68	279.59					
92	31.00	248.59					
93	29.54	219.05					
94	31.25	187.80					
95	31.87	155.93					
96	29.74	126.19					
97	30.22	95.97					

RPT RECORD
 UNIT NAME
 COMPANY
 DATE

PAGE

Jicarilla /8
 The Ohio Oil Company

Continued

#	Compressor #	Size	Make	Type	Serial #	On A ₂	Off A ₂	Rt. Made	Hrs. on	Station	R.P.M.	W. on R.P.M.
1	30-run	110				0'	180'	180'				
2	30-run	150				0'	180'	180'				
3	30-run	90	HTC	OSC-3		180'	938'	753'	144	85	20,000	20,000
4	30-run	90	HTC	OSC-3		938'	1890'	952'	20	85	20,000	20,000
5	30-run	90	HTC	OSC-3		1890'	2477'	587'	85	85	20,000	20,000
6	30-run	90	HTC	OSC-10		2477'	2900'	423'	85	85	18,000-20,000	18,000-20,000
7	30-run	7 7/8	HTC	OSC-10		2900'	3100'	200'	20-110	65	20,000	20,000
8	30-run	90	HTC	OSC-10		2900'	3103'	203'	65	65	15,000	15,000
9	30-run	6 1/2	Christensen	Diamond	P-2918	3103'	3168'	65'	58	58	12,000	12,000

Jicarilla #8

[illegible]

Jicarilla #8

DEVIATIONS

Depth	Dev.
540'	$3/4^{\circ}$
1100'	$1/2^{\circ}$
1550'	$3/4^{\circ}$
2600'	$3/4^{\circ}$

8 9m - 12 5m

[illegible]