

DATE 1/20/56

THE OHIO OIL CO HISTORY OF OIL OR GAS WELL

FIELD South Blanco
 WELL NO. 4 LEASE Jicarilla BLOCK SEC. 34 TWP. 26 N R. 5 W

 STATE New Mexico PARISH _____ COUNTY Ria Arriba

 990' East Line
990' South Line
KB ELEV. 6654'
 MEASUREMENTS
TAKEN FROM
 TOP OF OIL STRING Grd. ELEV. 6642'
 TOP OF ROTARY TABLE _____ ELEV. _____
 GRD. OR MAY _____ 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

10/26/55 Fleegeer Riley #5 moving and tearing down. Rigging up. Evenings & mornings static.

10/27/55 Broke tour. Rigging up. Raised mast. Rigging up to drill rat hole & mouse hole. Drilled rat hole.

10/28/55 Finished drilling mouse hole. Drilled 180' of 11" hole. Reamed same to 15". Circulated 2 hrs., waiting on welder. Came out of hole. Ran 5 hrs. 10-3/4" 32.75# 8R H-40 Surface Casing.

152.69	Net
1.50	Baker Guide Shoe
154.19	TOTAL
1.50	Below Grd.
12.60	Grd. to KB
168.29	KB

Landed Shoe

Cemented casing with 125 sacks Reg. by HOWCO. Displaced casing w/17 bbls. H₂O. Plug down at 1:00 a.m. Good returns on cement. PBTD 153' KB.

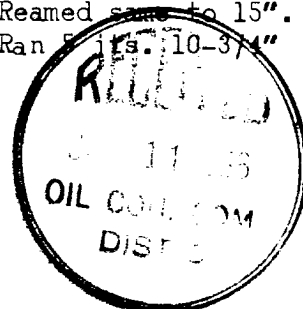
10/29/55 PBTD 153'. W.O.C. & Nippling up to drill out.

10/30/55 T.D. 1089'. Pressured casing w/500# for 1/2 hr. Casing O.K. Drilled out. Found top of cement at 150' Bit #2 HTC-OSC-3. Made trip for Bit #3 HTC-OSC-3. Dev. at 1089' - 1/2°.

10/31/55 T.D. 1575'. Drlg. ahead. Made trip for Bit #4 HTC-OSC-3 at 1697'. Dev. at 1660' - 1/2°.

11/1/55 T.D. 2290'. Drlg. ahead. Made trip for Bit #5 HTC-OSC-3. Dev. at 1992' - 1/2°.

11/2/55 T.D. 2762'. Drlg. ahead. Made trip for Bit #6 HTC-OSC-3. Drlg. ahead.



11/3/55 T.D. 2995'. Drlg. ahead. Came out of hole for Bit #7 OSC-3 7-7/8". Will reduce hole size from 9" to 7-7/8" at 2853'. Broke fan belts on motors. Shutdown two hrs. Sample top of PC Sand 2985'. Circulated two hrs. Conditioned mud & hole. Started out of hole to run Schlumberger.

11/4/55 T.D. 2995'. Ran Schlumberger ES & Micro Logs. Top of PC Sand at 2978'. Went back hole w/9" Bit. Reamed from 2853' to 2988'. Circulated 2 hrs. Conditioned hole & mud. Came out of hole laying down drill pipe. Rigging up to run casing. Started running casing.

11/5/55 T.D. 2995'. Ran 96 jts. 7" O.D. 20# J-55 8R Casing.

2984.51 Net
Bakerguide 1.28 Shoe
Bakerguide 1.51 Collar Float
2987.30 TOTAL

Landed shoe at 2985 KB w/collar at 2933.95 KB. Ran centralizers at 2978', 2967.22, 2927.95. Cemented w/150 sacks Reg. by HOWCO. Displaced casing w/121 bbls. H₂O. Bumped plug w/1200#. Plug down at 3:30. Estimated Top of cement at 2040'. Landed casing at 7:00 a.m. Release rig at 8:00 a.m. Ran Temp. Survey. Found top of cement at 1840' KB. PSTD 2934' by R & S Service W.O.C. Static until 11/10/55.

11/10/55 T.D. 2995'. Moved McKinney Drlg. Co. spudder on location at 3:00 p.m. Rigging up. Started bailing hole down.

11/11/55 T.D. 2999'. Finished bailing hole down. Rigged up to start drilling out. Found top of plug at 2934. Cement from 2935' to 2984'. Drlg. ahead in PC Sand.

11/12/55 T.D. 3026'. Drlg. ahead. Well started gassing at 3026'. Drilled to 3066'. Bailed hole clean. Washed hole and bailed same. Rigged up to run Schlumberger. Ran Gamma-Ray - Induction Log & Temp. Log at 9:00 p.m. Schlumberger T.D. 3068'.

11/13/55 T.D. 3068'. Finished running Schlumberger. Rigged up xmas tree. Rigged up to run tubing. Ran 96 jts. 2-3/8" 4.7# 8R EUE tubing. Ran one 2-3/8" coupling:

3004.66 Net
31.23 Anchor
3035.89 TOTAL
10.00 Pup
6.00 Pup
3051.89
10.50 Below KB
Landed Anchor 3062.39'
Landed 5.61' off T.D.

11/13/55 Cont. Natural gas flow before frac 140,000 Cfd, through tubing. Sand Frac 4-T 10, 1 blender truck by HOWCO. Sand frac from 2985' to 3068' with 44,500# sand and 34,860 gallons of H₂O (1.29#/gal). Pumped 20 bbls. cushion ahead of sand. Formation broke down at 1800# tubing, 1100# casing. Treatment pressures 2400# tubing, 1500# casing; final pressure 900#. Flushed casing with 6300 gallons. Average injection rate 35.9 bbls. per minute. Pumped total of 42,000 gals. water & 2,200 gals. sand in 29.5 minutes. Burned up onetruck, truck motor on fire shut-down one pump. Left 900# on tubing for 1/2 hr. Bled off pressure and well flowed water for 2 hrs. Rigged up to swab. Started swabbing well in at 3:00 p.m. Pulled sandline in two at 3:30 p.m. Started pulling tubing.

11/14/55 T.D. 3068'. Finished pulling tubing. Ran same in hole, started swabbing in well. Well in at 10:00 a.m. Blowing well, released spudder at noon. Blowing well.

11/15/55 T.D. 3068'. Blowing well.

11/16/55 T.D. 3068'. Well cleaning up. Blowing same.

11/17/55 T.D. 3068'. Blew well for 8 hrs. Gauged gas flow through 2" side static nipple through tubing. Initial flow 4,220 Mcfd with 450# on casing. Well still making water.

11/18/55 T.D. 3068'. Static

11/19/55 T.D. 3068'. Blew well. Well making water & sand. Blew same for 8 hrs. Gauge on well this day. 3,950 Mcfd through tubing with 2" side static nipple. Casing stablized at 395#.

ACTUAL CASING RECORD

WELL Jicarilla #4 FIELD South Blanco ELEV. KB 6654'

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 11/5/55 Csg. size 7" Wt. 20# Landed at 2985 Hole T.D. 3068'

Distance from KB to Grd _____

All measurements from KB

JT. NO.	LENGTH	COLLAR DEPTH	REMARKS	JT. NO.	LENGTH	COLLAR DEPTH	REMARKS
		2985.00	Landed KB	18	32.44	2434.15	
	1.28	2983.72	Baker Guide Shoe	19	30.14	2404.01	
1	16.50	2367.22		20	32.36	2371.65	
2	31.76	2935.46		21	28.20	2343.45	
	1.51	2933.95	Baker Float Collar	22	30.32	2313.13	
3	30.16	2903.79		23	33.19	2279.94	
4	29.96	2873.83		24	32.25	2247.69	
5	32.63	2841.20		25	31.62	2216.07	
6	32.16	2809.04		26	31.04	2185.03	
7	32.42	2776.62		27	30.48	2154.55	
8	24.55	2752.07		28	30.30	2124.25	
9	31.60	2720.47		29	30.58	2093.67	
10	31.08	2689.39		30	33.12	2060.55	
11	31.09	2658.30		31	27.92	2032.63	
12	32.15	2626.15		32	26.72	2005.91	
13	32.84	2593.31		33	31.97	1973.94	
14	32.47	2560.84		34	32.64	1941.30	
15	32.44	2528.40		35	29.78	1911.52	
16	30.39	2498.01		36	31.06	1880.46	
17	31.42	2466.59		37	30.90	1849.56	

ACTUAL CASING RECORD

WELL Jicarilla #4 FIELD South Blanco ELEV. KB

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	33.13	1816.43		58	29.48	1179.22	
39	31.61	1784.82		59	32.48	1146.76	
40	33.26	1751.56		60	31.15	1115.61	
41	32.46	1719.10		61	28.12	1087.49	
42	32.29	1686.81		62	30.48	1057.01	
43	32.50	1654.31		63	30.06	1026.95	
44	32.47	1621.84		64	30.22	996.73	
45	29.65	1592.19		65	33.23	963.50	
46	31.91	1560.28		66	30.08	933.42	
47	32.44	1527.84		67	31.47	901.95	
48	32.66	1495.18		68	33.45	868.50	
49	31.74	1463.44		69	32.55	835.95	
50	33.15	1430.29		70	32.26	803.69	
51	32.93	1397.36		71	32.52	771.17	
52	31.90	1365.46		72	29.25	741.92	
53	32.93	1332.53		73	30.12	711.80	
54	31.80	1300.73		74	25.50	686.30	
55	30.84	1269.89		75	32.79	653.51	
56	32.62	1237.27		76	31.96	621.55	
57	28.57	1208.70		77	32.42	589.13	

ACTUAL CHASING RECORD

WELL Jicarilla #4 FIELD South Blanco ELEV. KB

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	30.52	558.61					
79	32.97	525.64					
80	33.04	492.60					
81	24.81	467.79					
82	32.32	435.47					
83	32.53	402.94					
84	30.18	372.76					
85	32.81	339.95					
86	32.84	307.11					
87	31.54	275.57					
88	30.20	245.37					
89	31.97	213.40					
90	32.75	180.65					
91	30.00	150.65					
92	30.43	120.22					
93	27.78	92.44					
94	32.41	60.03					
95	29.49	30.54					
96	32.84	-2.30					

ADDITIONAL INFORMATION

[illegible]

Jicarilla #4

PROGRESS REPORT

8 am - 9 am

[illegible]