

DATE 2/21/56

THE OHIO OIL CO

HISTORY OF OIL OR GAS WELL

FIELD SOUTH BLANCO

WELL NO. #5 LEASE Jicarilla BLOCK 28 SEC. 26N. TWP. 5W.

STATE New Mexico COUNTY Rio Arriba

1090' from The North Line
1090' from The West Line

KB ELEV. 6473'

MEASUREMENTS

TOP OF OIL STRING Grnd ELEV. 6460'

HISTORY PREPARED BY George Susich

TAKEN FROM

TOP OF ROTARY TABLE ELEV.

TITLE Asst. Petroleum Engineer

GRD. OR MAT ELEV.

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

1955

12/12

Fleeger Riley Rig #5 Contractor.
Tearing down

12/13

Tearing down & moving raised mast.

12/14

Rigging up mixing mud.

12/15

T.D. 180' Drilled mouse hole, rat hole & 180' - 1" surface hole. Bit #1.
Reed 15". Ran 5 jts, 10-3/4", H-40, 32.75#, 8R casing:

157.39	Net
1.30	Baker guide shoe
158.69	
1.00	Landed below grnd.
12.60	grnd to K.B.
172.29	Landed shoe K.B.

cemented with 125 sacks Regular by HOWCO. Displaced casing with 17 bbls. water. Plug down at 1:00 a.m. Good returns on cement PBTB 152' K.B.

12/16

T.D. 180' Finished cementing casing, plug down at 1:00 a.m.. WOC.
Nippling up & rigging up to drill out.

12/17

T.D. 508' Nippling up. Pressured surface casing with 550# for 1/2 hr.
Casing OK. Started drilling out at 7:00 a.m. Top of cement at 154' K.B. Shoe at 171' K.B. Drlg. ahead.

12/18

T.D. 1197' Drlg. ahead in ss & sh. made trip for bit #3 HTC-OSC-3
Dev. at 1149-1/4".

12/19

T.D. 1789' Drlg ahead in ss & sh made trip for bit #4 HTC-OSC-3.

12/20

T.D. 2175' Drlg ahead, made trip for bit #5 HTC-OSC-3.

12/21

T.D. 2490' Drlg ahead made trip for bit #6 HTC-OSC-3.

12/22

T.D. 2800' Drlg ahead made trip for bit #7 HTC-OSC-1G.
Drilled to 2800' stripped pipe out of hole.
Drls T.D. 2800'.
Strap T.D. 2809, Corrected T.D. to Strap.



1955

12/23	T.D.	2860'	Reduced hole size from 9" to 7-7/8" at 2809'. Top of PC sand 2850 (+3623) sample. Ran Schlumberger ES & Micro logs. Schlumberger T.D. 2860'. Went in hole with 9" bit RR HTC-OSC-3. Reamed hole from 2809-2860. Circulated 1 hr. came out of hole laying down drill pipe.
12/24	T.D.	2860'	Rigged up to run casing. Ran 93 jts. 7" OD, 20#, J-55, 8r new casing: 2848.91 Net 1.25 Baker slip Jt. shoe 1.50 Baker Float Collar <u>2851.66</u> Total Landed shoe at 2850' K.B. with collar at 2795.62' K.B. Ran centralizers at 2844.25, 2829.53, 2788.62 K.B. Cemented with 100 sacks Regular by HOWCO. Displaced casing with 113 bbls. water. Bumped plug with 1200#. Plug down at 9:00 a.m. Estimated top of cement in annulus at 2220' K.B. Landed casing at 10:00 a.m. Released rig at 10:00 a.m. Ran Temperature Survey by B&R Service. Found top of cement in annulus at 2140' PBDT at 2796. W.O.C.
12/25	PBDT	2797'	Static
12/26	PBDT	2797'	Static
12/27	PBDT	2797'	Static
12/28	PBDT	2797'	Static
12/29	PBDT	2797'	Moved McKinney spudder on location at noon, rigging up.
12/30	PBDT	2797'	Finished rigging up. Started bailing well.
12/31	T.D.	2864'	Finished bailing well, started drilling out. Drilled out float at 2796, cement from 2797' to 2849' - Drilled out shoe at 2850', open hole to 2860', shutdown rig at noon.

1956

1/1	T.D.	2864'	Static
1/2	T.D.	2890'	Drlg ahead in PC sand, well making some gas below casing (smell)
1/3	T.D.	2926'	Finished drilling through sand, estimate drilling 3' into sh at base of sand bailed hole clean & washed same. Ran Schlumberger Induction, Gamma-Ray & Temp. Logs. Schlumberger T.D. 2929'. Rigging up well head to frac. Waiting on daylight & Frac truck.
1/4	T.D.	2929'	Waiting on HOWCO Frac Trucks.
1/5	T.D.	2929'	HOWCO Frac Trucks ready to pump at 8:00 a.m. sand-frac from 2850-2929' with 45,000# (20-40) and 37,525 gals water with 5 T-10s, 2 blenders down casing. Broke down one blender. Pumped 30 bbls. cushion ahead of sand. Started sand at 1# 1 gal, broke down formation with 1200#, started sand at 1 1/2# per gal. Used 30,865 gals of frac fluid (1.46# / gal) with average injection rate at

1956			
1/5 (cont)	T.D.	2929'	42.2 bbls. per min. Flushed sand with 5400 gals of water. Final pressure 800# treatment pressure 1000#. Total time pumping 22.5 min. Well flowed for 2 hrs. Rigged up to run tubing, Ran 90 jts. tubing could not get below 2864'. Estimate 60' of sand in bottom of well. Tried to circulate out sand with HOWCO pump truck, could not clean out sand.
1/6	T.D.	2929'	Came out of hole with tubing, rigged up to run sand pump. Waiting on Bowen Head 7 hrs. Made one run with sand pump. Stuck plunger in same. Waiting on another sand pump. Froze plunger at 2:00 p.m.
1/7	T.D.	2929'	On location with sand pump at midnight. Rigged up sand pump. Pumping well. Cleaned out sand to TD. Ran 92 jts, 2-3/8" EUE 4.7#, J-55, 8R tubing. 2856.43 Net 31.03 Anchor 4.00 Pup 2891.46 Total Landed 10.50 below K.B. Landed 2901.96 K.B. Landed anchor 27.04' off T.D., 4.04' off top of sand found 23' off sand in well while running tubing, gas started breaking through casing. Landed tubing. Left an estimated 23' of sand in well. This will diminish after flowing well. Started swabbing well.
1/8	T.D.	2929'	Swabbed in well at 3:00 a.m. blew well for 12 hrs. Released spudder at 8:00 a.m.
1/9	T.D.	2929'	Blowing well.
1/10	T.D.	2929'	Blew well 6 hrs, shut-in well.
1/11	T.D.	2929'	Blowing well, well making salt water 18000 P.P.M.
1/12	T.D.	2929'	Blowing well, making salt water, no accumulation of water in well blowing spray of salt water.

ACTUAL CASING RECORD

WELL Jicarilla #5 FIELD South Blanco ELEV. KB 6473'

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 2/24/55 Csg. size 7' Wt. 20# Landed at 2350 Hole T.D. 2929

Distance from KB to Grd _____ All measurements from KB

JT. NO.	LENGTH	COLLAR DEPTH	REMARKS	JT. NO.	LENGTH	COLLAR DEPTH	REMARKS
		2350.00	Landed KB	18	29.94	2306.88	
	1.25	2848.75	Baker Slip Jt. Shoe	19	28.44	2278.44	
1	19.22	2829.53		20	29.24	2249.20	
2	32.41	2797.12		21	32.16	2217.04	
	1.50	2795.62	Baker Float Collar	22	32.29	2184.75	
3	29.55	2766.07		23	30.50	2154.25	
4	30.72	2735.35		24	30.64	2123.61	
5	30.26	2705.09		25	31.31	2092.30	
6	32.43	2672.66		26	31.07	2061.23	
7	33.06	2639.60		27	32.98	2028.25	
8	31.51	2608.09		28	30.35	1997.90	
9	28.62	2579.47		29	30.04	1967.86	
10	29.20	2550.27		30	29.75	1938.11	
11	30.11	2520.16		31	30.50	1907.61	
12	30.86	2489.30		32	31.49	1876.12	
13	32.92	2456.38		33	30.90	1845.22	
14	30.28	2426.10		34	30.40	1814.82	
15	30.47	2395.63		35	26.78	1788.04	
16	29.95	2365.68		36	28.10	1759.94	
17	28.86	2336.82		37	28.87	1731.07	

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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	30.04	1701.03		59	31.52	1091.01	
39	29.62	1671.41		59	31.02	1059.99	
40	31.49	1639.92		60	29.98	1030.01	
41	30.19	1609.73		61	31.61	998.40	
42	30.79	1578.94		62	31.95	966.45	
43	30.37	1548.57		63	32.77	933.68	
44	30.10	1518.47		64	29.71	903.97	
45	30.34	1488.13		65	30.96	873.01	
46	28.13	1460.00		66	29.20	843.81	
47	32.50	1427.50		67	32.15	811.66	
48	29.92	1397.58		68	30.23	781.43	
49	32.30	1365.28		69	29.79	751.64	
50	29.55	1335.73		70	31.20	720.44	
51	31.73	1304.00		71	31.79	688.65	
52	29.48	1274.52		72	32.03	656.62	
53	30.62	1243.90		73	29.44	627.18	
54	28.98	1214.92		74	32.66	594.52	
55	29.33	1185.59		75	31.85	562.57	
56	31.74	1153.85		76	29.01	533.66	
57	31.32	1122.53		77	32.30	501.36	

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

Distance from KB to Grd _____ All measurements from KB

[illegible]

007-157093

[illegible]

Jicarilla #5

PROGRESS REPORT

8 am - 8 am

Date	Time	Status	Depth	Made	Fm.	Remarks
12/13	8:00	Rigging up				
12/14	8:00	East up				
12/15	8:00	Drig.				Digging rat and mouse hole
12/16	8:00	WOC	180'	180'	Tert.	Ran 5 jts. surface csg.
12/17	8:00	Press. csg.	180'	0'	"	Drilled plug
12/18	8:00	Drig.	721'	541'	"	
12/19	8:00	Drig.	1462'	741'	"	
12/20	8:00	Drig.	1980'	518'	"	
12/21	8:00	Drig.	2281'	301'	"	
12/22	8:00	Drig.	2559'	278'	Kirtland Sh.	
12/23	8:00	Drig.	2840'	281'	Fruitland Mbr.	
12/24	8:00	Drig.	2860'	20'	PC	Ran 7" csg. and logs
12/25	8:00		2860'			WOC. Released rig.
12/26	Static	WOC				
12/27	"	"				
12/28	"	"				
12/29	"	"				
12/30	8:00	Rigging up	2860'			
12/31	8:00	Drig.	2864'	4'	PC	
1/1/56	8:00	Drig.			PC	
1/2	8:00	Drig.	2890'	26'	PC	
1/3	8:00	Drig.	2909'	19'	PC	Ran Ind, G.R., & Temp. logs
1/4	8:00	NO HOWCO	2929'	20'	PC	
1/5	8:00	Sand-fracing				
1/6	8:00	Waiting on sand pump				
1/7	8:00	Pumping sand				
1/8	8:00	Ran tubing. Released rig;			blowing well	
1/16	8:00	Blowing well				
1/27	8:00	Blowing intermittently				