FORM 484 REV. 10-53

DATE November, 1956

THE OHIO OIL CO
HISTORY OF OIL OR GAS WELL

FIELD La Plata - Basin / Blanco [illegible]

WELL NO. 1 LEASE Government Sec 8 BLOCK SEC. 8 TWP. 31 [illegible] 13 W

STATE New Mexico PARISH COUNTY San Juan

990' from south line
1650' from west line

K.B. ELEV. 5997'

MEASUREMENTS TAKEN FROM: Top of Oil String Mat ELEV. 5985' | Top of Rotary Table ELEV. | Grd. or Mat ELEV.

HISTORY PREPARED BY George [illegible]

TITLE

IT IS OF THE GREATEST IMPORTANCE TO HAVE A COMPLETE HISTORY OF THE WELL. USE THIS FORM IN REPORTING HISTORY OF ALL IMPORTANT OPERATIONS AT THE WELL, TOGETHER WITH THE DATES THEREOF, INCLUDING SIZES 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 1956	
	Fleeger-Riley Contractor, Unit 15 Rig w/1,7-1/2 x 16 Pump
9/31/56	MIRT
10/1/56	MIRT
10/2	MIRT
10/3	RUT, raised mast.
10/4	Rigging up drilled rat hole and mouse hole, broke tour.
10/5	T.D. 212' Started drilling 15" surface hole, slope test at 176', 3/4°, [illegible] 15" hole to 212'. Dropped Kelly bushing "hairpin" in hole.
10/6	T.D. 212' Rigged up to run surface casing: Ran 6 jts 10-3/4" H-40 32.75# 8 Rd casing 193.65' Net Landed 12.30 below KB Larded bottom of string 205.95' KB. Did not run [illegible] Cemented with 135 sks (Bulk Cement) by HOWCO. Displaced casing [illegible] 21-1/2 bbls. H_2O. Plug down at 1:15 a.m. No cement returns. [illegible] PBTD 194' WOC. WOC 11 hours. Recemented annulus thru 2" pipe w/75 sks cement. Found top of cement in annulus at 40' KB. [illegible] completed at 1:00 p.m. Good returns on cement. WOC.
10/7	T.D. 510' Started drilling out plug at 9:00 am. Found top of plug at 183'. Pressured casing w/850# for 1/2 hr. casing OK. Drilled cement [illegible] 193' - 206', 206' - 212', open hole. Drilling ahead w/bit #2 Retip HTC 8-3/4". Ran Globe junk basket, retrieved 4" of hard [illegible] locked in bit cone. (Ditto above once more)
10/8	T.D. 1077' Drilling ahead, made trip for bit #3, retip HTC 8-3/4".
10/9	T.D. 1608' Drilling ahead, made trip for bit #4, retip HTC 8-3/4".
10/10	T.D. 2129' Drilling ahead, made trip for bit #5 CP ES2 8-3/4". [illegible] 2129', working pipe free. Worked pipe free.

RECEIVED
[illegible]
OIL CON

1956

10/25 T.D. 4629' WOC. Rigging up to drill out w/gas - installed head of Xmas tree below blow out preventer - laid down 4-1/2" drill pipe, picked up string of 3-1/2" flush drill pipe. Pressured casing w/600# for 1/2 hr. Casing OK. Started to blow water out of casing.

10/26 T.D. 4848' Finished drying up casing started to drill out cement plug. Top of plug at 4565', 4565' - 4573' cement, 4573' - 4575' float collar, 4575' - 4619' cement, 4619' - 4620' shoe, 4620' - 4623' cement, 4623' - 4629' open hole, drilling ahead w/bit #17 w/400# gas pressure

10/27 T.D. 5050' Drilling ahead in Point Lookout. Made trip for bit #18, drilled to 5050', dev at 5034' (2-1/4°). Came out of hole for Schlumberger. Ran Schlumberger. Top of Point Lookout 4720' (+1277)

Gamma Ray	2000' - 5060
Induction Log	4620' - 5060
Temp Log	3800' - 5060
Section gauge	4620' - 5060

Started in hole w/5" liner.

10/28 T.D. 5060' Gauged well before running liner. Well gauged 324,548 cfd through 2"orifice well tester out of 7" casing. Ran 21 jts 5" - 15# J-55 8R casing (grade #2) liner

	649.06	Net
Baker whirler float shoe (spring type)	1.50	
Burns (spring type) float collar	1.26	
	651.82	
Burns Delayed Action (lead seal) hanger	5.25	
	657.07	Total

Hung liner at 4397.93 KB w/shoe at 5055' and collar at 4992 KB. Pumped 20 bbls gel water ahead of cement (1 sk per 5 bbls. H_2O). Mixed 190 sks reg cement, (bulk) w/4% gel by HOWCO. Pumped in with one T-10 truck, displaced w/44 bbls H_2O. Bumped plug w/1200#. Back washed 20 bbls good cement. Plug down at 10:00 a.m. Used 250% excess cement mixed at (14#/gal). PBTD 4991 - WOC.

10/29 T.D. 5060' WOC

10/30 T.D. 5060' Went in hole w/drill pipe, found obstruction at 4885' pushed same to 4940', drilled to top of float collar, dusted and dryed up well. Came out of hole to perforate. Perforated casing from 4950' - 4965' w/60 super casing jets (4/ft) (15 ft). Checked Ohio collars OK. Shot from Ohio measurements. Lost 18" x 3" lead weight off jet strip in hole and one tong die PBTD 4976' by McCullough. Top of liner at 4394'

10/31 T.D. 5060' Rigged up to sand frac, attempted to break down perf w/4000#, could not break down formation. Came out of hole to reperforate, could not get below 4947' w/gun. Went in hole w/bit and drill pipe, found hard caving at 4965', washed out cement cuttings from 4940'- 4965'. Circulated one hr., came out of hole. Attempted to break down

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10/31 Cont. perforations w/4000#, could not break down formation . Went in hole w/McCullough bullet gun, reperforated from 4950 - 4965' w/ 60 - 1/2" bullets (4 ft.). Checked Ohio collars 1' high, corrected to Ohio measurements and shot by same, PBTD 4984'. Attempted to break down formation w/4000#, could not break down perforations. Went in hole with drill pipe, spotted 500 gals (15% HCl) on bottom. Displaced w/38 bbls H_2O. Let set on bottom 1 hr. Moved acid at 2 bbl intervals at 30 min each. Attempted to squeeze acid into perf., could not shut in BOP. Reversed out acid, came out of hole, to work on BOP.

11/1/56 T.D. 5060' Working on BOP. Repaired BOP, went in hole w/drill pipe. Respotted 500 gals (15% acid) on bottom. Displaced acid w/27 bbls H_2O. Closed BOP. Squeezed acid w/3500#, staged acid at 5 min. Broke down to 0 psi. Displaced w/40 bbls at 800# total. Came out of hole.

11/2 Sand frac from 4950' - 4965' w/6T-10 and 30,000# (20-40) sand. Used 44,636 gals of H_2O and 1380 gals sand. Total 46,014 gals. Broke down formation w/1400#. Pumped 30 bbls water during break down. Started sand at 1#/gal for 3 min. Increased same to 1-1/2#/gal. Used 33,894 gals H_2O mixed w/30,000 sand (.89#/gal). Average injection rate 68.4 bbls/min. Flushed casing w/216 bbls H_2O. Treatment pressure 1900#, final pressure 0,hole on vacuum. Max pressure 2200#. Used 1062 bbls H_2O. Went in hole w/Baker Model N (Mag) bridge plug. Checked Ohio collars 1' low. Corrected to Ohio measurements and set retainer at 4870'. Went in hole to perforate casing from 4835'-4850' w/60 super casing jets (4/ft) 15 ft by McCullough. Checked Ohio collars OK, and shot off same. Checked top of Model N retainer 4870'. Perforated casing from 4800' - 4825' w/100 super casing jets (4/ft) 25'. Checked Ohio collars OK, and shot off same. Attempted to break down perf w/4000#. Could not break down formation. Spotted 500 gals (15% HCl) acid on bottom. Displaced tubing w/27 bbls H_2O. When acid hit perforations hole went on vacuum. Came out of hole to sand frac from 4800'- 4825' and 4835' - 4850' w/50,000# (20-40) sand and 44,500 gals H_2O (1.12#/gal). Perforations broke down at 800#, pumped 1700 gals ahead of sand, at 800#. Pumped total of 54,600 gals H_2O and 2300 gal sand in 18 min. Flushed w/8400 gals H_2O. Average injection rate 75.3 bbl/min. Treatment pressure 1300 final pressure 0, hole on vacuum. Max pressure 1400#, used 1300 bbl H_2O. Went in hole w/Baker Model "K" (mag) bridge plug. McCullough checked Ohio collars. OK. Used Ohio measurements and set retainer at 4795 KB. Came out of hole to perforate, perforated casing from 4760' - 4790' (30' - 4/ft) w/120-1/2" bullets by McCullough. Checked Ohio collars 1' low, corrected measurements to Ohio collars and shot off same. Checked retainer at 4793. Attempted to break down formation.

11/3 T.D. 5060' Could not break down hole on vacuum. Set check retainer at 4792'. Broke down formation w/6 trucks at 500# sand frac from 4760' - 4790' w/50,000# sand and 1450 bbl H_2O. Pumped 52,500 gals H_2O w/50,000# sand (.95#/gal). Flushed sand w/8400 gal. Average injection rate (79.2 bbls/min). Treatment pressure 1200# final pressure 0, hole on vacuum. Max pressure 1500. Went in hole w/Baker Model N (mag) bridge plug set same at 4752' checked Ohio collars 1' low. Corrected to Ohio collars and shot by same by McCullough. Went in hole to perforate casing from 4720' - 4745' (25' - 4/ft) with 100 - 1/2" bullets. Checked Ohio collars OK. And shot off same, checked top of retainer at 4752'. Sand

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10/3 Cont. frac from 4720' - 4744' w/50,000# sand (20 - 40) and 38,141 gals (1.42#/gal). Broke down formation w/1200#. Pumped total 1119 bbls water including 55 bbl sand. Average injection rate 54.5 bbls/min. Treatment pressure 1800, max pressure 2400#. Final pressure 0. Flushed sand w/200 bbl and pumped 30 bbls ahead of sand. Rigged up to drill out with gas.

10/4 T.D. 5060' Drilled out retainer at 4703', well making gas and water, conclude drilling out retainers. Drilled out retainers at 4802' and 4900'. More gas and water entry, some sand.

10/5 PBTD 4988' Finished drilling out retainer at 4970', cleaned out to 4988', blow well overnight, came out of hole laying down drill pipe.

10/6 PBTD 4988' Finished laying down drill pipe, rigged up to run tubing. Ran [illegible] disc on top of anchor. Ran 152 jts (includeAJ). 2-3/8" EUE 4.7# 8R H40 Tubing.

4939.43	Net
31.08	
4970.57	
11.00	Landed below KB
4981.57	Landed KB
6.43	Off PBTD
4988.00	PBTD

Gauged well after well blowing through casing for 3 days, well making 2,450,000 MCFD through 1" side static nipple w/400# on casing. Released rig at 5:00 p.m. 11/6/56. Well shut in 4 days, absolute open flow potential 15,792 MCFD, 3 hr. blow through 3/4" orifice.

A C T U A L C A S I N G R E C O R D

WELL Government #1 FIELD Blanco Field LaPlata Area ELEV. KB 5997

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 November, 1956 Csg. Size 7" Wt. 23# Landed at 4620 Hole T.D. 4629

Distance from KB to Grd 11.80 All measurements from KB

Jt. No.	Length	Collar Depth	Remarks	Jt. No.	Length	Collar Depth	Remarks
1	40.36			20	42.19	790.10	
2	41.97	37.32		21	43.18	832.29	
3	42.73	79.29		22	43.02	875.47	
4	42.92	122.02		23	43.55	918.49	
5	41.89	164.94		24	44.24	962.04	
6	42.67	206.83		25	41.34	1006.28	
7	41.93	249.50		26	41.38	1047.62	
8	42.57	291.43		27	42.87	1089.00	
9	42.16	334.00		28	43.55	1131.87	
10	42.53	376.16		29	42.80	1175.42	
11	37.96	418.69		30	44.02	1218.22	
12	37.82	456.65		31	44.17	1262.24	
13	41.33	494.47		32	43.15	1306.41	
14	42.41	535.80		33	42.71	1349.56	
15	43.30	578.21		34	37.34	1392.27	
16	42.74	621.51		35	43.87	1429.61	
17	42.71	664.25		36	43.46	1473.48	
18	41.04	706.96		37	43.95	1516.94	
19	42.10	748.00		38	42.75	1560.89	

ACTUAL CASING RECORD

WELL Government #1 FIELD LaPlata Area ELEV. KB [illegible]

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 Nov. 1956 Csg. Size [illegible] Landed at [illegible] [illegible]

Distance from KB to Grd [illegible] All measurements from KB

Jt. No.	Length	Collar Depth	Remarks	Jt. No.	Length	Collar Depth	Remarks
39	43.01	1603.64		[illegible]	42.97	2407.[illegible]	
40	36.22	1646.65		[illegible]	43.04	2449.51	
41	42.82	1682.87		[illegible]	43.[illegible]	2492.55	
42	43.30	1725.69		61	39.95	2535.93	
43	42.08	1768.99		62	42.30	2575.88	
44	43.43	1811.07		[illegible]	42.72	2618.18	
45	43.17	1854.50		64	42.71	2660.90	
46	43.38	1897.67		[illegible]	42.93	2703.61	
47	41.19	1941.05		[illegible]	42.31	2746.54	
48	41.93	1982.24		67	42.47	2788.85	
49	42.13	2024.22		[illegible]	42.13	2831.32	
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
52	42.7[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	
53	42.87	[illegible]		[illegible]	[illegible]	2999.06	
54	42.57	2237.56		[illegible]	[illegible]	3047.[illegible]	
55	42.08	[illegible]		[illegible]	[illegible]	3085.46	
56	41.96	[illegible]		[illegible]	42.[illegible]	3127.16	
57	43.27	[illegible]		[illegible]	[illegible]	3169.72	

[illegible] RECORD

[illegible] ______ [illegible] ______ [illegible] ______ ELEV. [illegible]

[illegible] form is to be filled out after each casing job. Its purpose is to give an accurate record of the depths at which the collars were run so that at [illegible] date, the collars can be [illegible] located.

[illegible] Size [illegible] [illegible] Landed at [illegible]

[illegible] from [illegible] Grd. [illegible] [illegible]

[illegible] No.	Length	Collar Depth	Remarks	[illegible]	Length	Collar Depth	[illegible]
[illegible]	40.41	3212.67		96	42.15	[illegible]	
[illegible]	41.31	3253.0[illegible]		97	41.16	40[illegible].92	
[illegible]	[illegible].25	3294.97		98	41.97	4107.[illegible]	
[illegible]	43.71	3337.22		99	41.95	4149.[illegible]	
[illegible]	[illegible]	3380.97		100	44.04	4191.88	
[illegible]	42.39	3423.3[illegible]		101	43.20	4235.0[illegible]	
[illegible]	42.67	[illegible].95		102	42.16	4278.20	
[illegible]	42.10	3508.04		103	42.16	4320.36	
[illegible]	43.74	3550.4[illegible]		[illegible]	[illegible]	4363.47	
[illegible]	[illegible]	[illegible]		[illegible]	[illegible].21	440[illegible]	
[illegible]	[illegible]	[illegible]		[illegible]	42.[illegible]	44[illegible]	
[illegible]	[illegible]	[illegible]		[illegible]	[illegible].71	[illegible]	
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	453[illegible]	
[illegible]	42.82	[illegible]		[illegible]	[illegible].32	4574.19	[illegible]
[illegible]	42.[illegible]	3801.04		[illegible]	42.79	4575.[illegible]	
[illegible]	43.[illegible]	3840.7[illegible]			[illegible].50	4618.[illegible]	[illegible]
[illegible]	[illegible].83	[illegible].83		[illegible]		4620.00	
[illegible]	43.[illegible]	3937.61					
[illegible]	[illegible]	[illegible]					

ACTUAL CASING RECORD

Blanco Field

WELL Government #1 FIELD LaPlata Area ELEV. KB 5062

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.

5" Liner

Date Nov. 1956 Csg. Size 5" Wt. 15" landed at 5051 Hole T.D. 5060

Distance from KB to Grd 11.80 All measurements from KB

Jt. No.	Length	Collar Depth	Remarks
	4393.93		Top of liner
	5.25		liner
1	31.17	4399.18	
2	30.38	4430.35	
3	31.06	4460.73	
4	29.62	4491.79	
5	31.16	4521.41	
6	31.77	4552.56	
7	29.73	4584.33	
8	31.30	4614.06	
9	31.40	4645.36	
10	30.58	4676.76	
11	31.74	4707.34	
12	31.58	4739.08	
13	30.70	4770.68	
14	31.69	4801.44	
15	31.85	4833.19	
16	29.59	4864.70	
17	31.30	4894.29	

Jt. No.	Length	Collar Depth	Remarks
18	30.35	4925.39	
19	31.97	4555.84	
20	1.26	4987.91	
21	31.61	3989.17	
22	28.72	5020.78	
	1.50	5049.50	
Landed		5051.00	KB
*Note - These measurements have been corrected 4' after finding top of liner with McCullough perforating gun. Jobe Rasely			

MUD RECORD

Date	From	To	Gel	Soda Ash	Alkatan
[illegible]/55	0	212	2000#		
7	212	244	2000#		
9	1246	1453			
10	1730	1933		50#	50#
11	2346	2467	1400#	250#	100#
12	2578	2802	1700#		
14	3320	3524	3400#	50#	150#
15	3575	3609	2400#		150#
17	3959	3990			50#
19	4070	4145	500#		50#
20	4258	4306			100#
21	4315	4440	1500#		100#
22	4536	4625	1900#	100#	150#
					100#

BIT RECORD

WELL NAME & NO. Government #1 Section 8 FIELD La Plata BY George Usich

Date	Run No.	Name of Bit	Size	Bit No.	Serial No. of Bit	Depth From	Depth To	Footage	Hours Run	Remarks
10/5/56	RR	Reed	15"	RR	----	0	212	212	13	Retipped
10/8/56	RR	HTC OSC	8-3/4	RR		212	729	517	20	Retip
10/8/56	RR	HTC OSC	8-3/4	RR		729	1229	500	10-1/2	Retip
10/10/56	RR	HTC OSC	8-3/4	RR		1229	1616	387	16	Retip
10/11/56	1	CD ASI	8-3/4	1	108628	1616	2157	541	18	Good condition
10/11/56	2	Smith SO	8-3/4	2	16222	2157	2582	425	24-1/2	Dull and CG
10/12/56	1	HTC OSCI-G	8-3/4	3	70347	2582	3000	418	18	Dull
10/13/56	1	HTC OSCI-G	8-3/4	4	70340	3000	3575	575	23	Dull
10/15/56	1	HTC OSCI-G	8-3/4	5	70341	3575	3771	196	21-1/2	Worn out
10/16/56	1	HTC OW	8-3/4	6	39285	3771	3924	153	15	Dull and CG
10/17/56	1	HTC OJ	8-3/4	7	39258	3924	3990	66	7-1/4	Dull
10/18/56	1	HTC J7R	8-3/4	8	48794	3990	4039	49	12	Dull
10/19/56	1	HTC J7R	8-3/4	9	32744	4039	4176	137	18	Dull
10/20/56	1	HTC W7R	8-3/4	10	48793	4176	4306	130	11	Dull
10/20/56	1	HTC J7	8-3/4	11	49643	4306	4440	134	15	Dull
10/21/56	1	HTC OSC	8-3/4	12	55788	4440	4625	185	18	Dull
10/26/56	1	HTC J7R	8-1/4	13	38387	4625	4833	208	12	Dull
10/27/56	1	HTC J7R	8-1/4	14	38173	4833	5060	227	8-1/2	Good