

DATE 1/12/56

THE OHIO OIL CO

HISTORY OF OIL OR GAS WELL

FIELD South Blanco

WELL NO. #2 LEASE Jicarilla Apache BLOCK 33 SEC. 33 TWP. 26 N R. 5 W

STATE New Mexico PARISH Ria Arriba COUNTY 1150' East Line
990' South Line


KB ELEV. 6599'

MEASUREMENTS TOP OF OIL STRING Grd ELEV. 6586' HISTORY PREPARED BY George Susich

TAKEN FROM TOP OF ROTARY TABLE ELEV. _____ TITLE _____

GRD. OR MAY 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	DESCRIPTION
10/7/55	Fleeger-Riley Contractor, Rig #5 tearing down morning tour. Getting ready to move. Moved on location. Rigged up raised mast. Waiting on water.
10/8/55	T.D. 79'. Drilled rat hole & mouse hole. Drilled 79' of 12-1/4" surface hole. Reamed same to 15".
10/9/55	T.D. 230'. Finished drilling 12-1/4" hole to 230'. Reamed same to 15". Same out of hole to run casing. Ran 7 jts. 10-3/4" H-40 SR new casing. <div style="text-align: right;">  </div> <div style="text-align: center;"> 203.95 Net 1.50 Baker Guide Shoe 1.50 Landed Below Grd. 12.60 From Grd. to KB Landed 219.55' KB </div> Cemented with 150 sacks Ideal Regular by HOWCO. Displaced casing with 21.5 bbls. H ₂ O. Plugged down at 3:30 p.m. Good returns on cement. Estimated top of cement in casing at 196' KB. W.O.C.
10/10/55	PHTD 196'. Nippled up. Pressured casing with 500#/in ² . Casinghead leaking badly. Found casinghead flat after several attempts to repressure. Waiting on casinghead.
10/11/55	T.D. 1096'. Obtained casinghead at 5:00 a.m. Nippled up. Repressured casing with 550#/in ² for 1/2 hr. Casing O.K. Top of cement at 198' KB. Cement from 198 to 218'. Found top of shoe at 218' KB. Drlg. ahead with Bit #3 HTC-OSC-3. Dev. at 750' - 1/4°.
10/12/55	T.D. 2126'. Drlg. ahead. Mixing mud. Made trip for Bit #4 HTC-OSC-3 tight hole. Dev. at 1500' - 1/2°.
10/13/55	T.D. 2583'. Drlg. ahead. Come out of hole for Bit #5 HTC-OSC-3. Hole very tight. Strapped pipe, no correction. Dev. at 2000' - 1/2°.

0/14/55 T.D. 2895'. Drlg. ahead. Came out of hole at 2800'. Ran Bit #6 HTC-OSC-3 7-7/8". Drilled to 2895'. Circulated samples and circulating waiting on Schlumberger.

0/15/55 T.D. 2900'. Ran Schlumberger ES & Micro Logs. Could not get below 2891'. Went back in hole with RR. 9" Bit reamed from 2800' - 2895'. Drilled new hole to 2900'. Conditioned hole and mud. Came out of hole laying down drill pipe. Top of PC Sand 2895 (+3705). Ran 93 jts. 7" OD 20# J-55 8R Casing:

2899.28 Net
1.27 Baker Slip Jt. Shoe
1.50 Baker Float Collar
2902.05 TOTAL

Landed shoe at 2897. Collar at 2875.53 KB. Cemented with 150 sacks Reg. by HOWCO. Ran 3 centralizers at 2890', 2883', 2869'. Pumped 10 bbls. H₂O ahead of cement. Displaced casing with 126 bbls. H₂O. Over displaced. 10 bbls did not bump plug.

0/16/55 T.D. 2900'. During displacement air leak on pump truck occurred, could not disengage pump or shutdown motor. Displaced 5 bbls. H₂O before throttling motors & closing stop. Shutting down motors. Completed job at 2:00 a.m. Ran wire line. Found plug at 2875'. Landed casing. Released rig at 4:00 a.m. Ran Temp. Survey. Found cement behind annulus at 1700' KB by R & S Service. Rig moving off location.

0/17/55 PBTD 2875'. W.O.C. Well static until 10/28/55.

0/28/55 PBTD 2875'. Moved McKinney Drilling Co. on location with spudder at 3:00 p.m. Rigging up. Installed xmas tree. Pressured casing with 1790#/in² by HOWCO. Pressure bled off to 1765#/in² (25#) in 30 min. At 35 min., pressure dropped to 1000#/in² and to 650#/in² after 1 hr. Bled off remaining pressure. Started to bail water from well.

0/29/55 PBTD 2806'. Bailed hole clean. Found plug at 2871'. Drilled out plug and float collar. Found no cement in shoe joint. Waiting on gun perforators.

0/30/55 PBTD 2896'. Perforators on location at 11:00 a.m. Perforated casing with 4T-J jets from 2882' - 2884, 2 holes per foot. Checked collars 1' high. Corrected to Ohio measurements and shoe by same. Zeroed gun 12.50' above casinghead flange. Squeezed formation from 2882 - 2900 w/71 sacks Reg. cement by HOWCO. Set Baker R-T-8 tool at 2777'. Broke down formation with 1800#/in², taking fluid at rate at 1-1/2 bbls. per minute at 1600#/in². Displaced tubing with 14.5 bbls. H₂O. Stagged 4 times. Final squeeze pressure 3000#. Estimated 65 sacks cement in formation. Estimated PBTD 2845'. Job completed at mid-night.

10/31/55 P.B.T.D. 2845'. W.O.C. 36 hours.

11/1/55 T.D. 2902'. Bailed hole dry. Drilling out cement plug. Found top of cement at 2800'. Drilled out shoe. Well started gassing.

11/2/55 T.D. 2936'. Drilled to 2902'. Bailed hole dry. Tested squeeze for 2 hrs. Well dry. Drilling ahead in PC Sand. Drilled to 2964.

11/3/55 T.D. 2964'. Waiting on Schlumberger. Gauged natural flow of gas. Well making 784 Mcfd. Ran Schlumberger Logs: Induction - Gamma-Ray & Temp. Log. Rigged up to run tubing etc.

11/4/55 T.D. 2964'. Ran 93 jts. 2-3/8" 4.7# 8R EUE tubing:
2914.96 Net
29.64 Anchor
2.00 Pup
2946.60 TOTAL
Landed anchor at 2957.10 KB, 7' off T.D.
Waiting on frac trucks. Natural gauge on well before frac 500 Mcfd. Sand frac from 2897' - 2964' with 45,000# (20-40) mesh sand & 36,160 gallons H₂O (1.25#/gal. H₂O) by HOWCO. Pumped 20 bbls. water cushion ahead of sand. Broke down formation w/1800# with average injection rate of 32.6 bbls. per min. Max. casing pressure 1100#. Maximum tubing pressure 2200#. Final pressure 700#. Used 4-T 10 trucks. Flushed tubing with 1000 gallons H₂O. Back washed 1 bbl. sand. Flushed sand with 5,000 gallons H₂O.

11/5/55 T.D. 2964'. Well unloaded water for 3 hrs. Waited until daylight to swab in well. Made 4 swab runs. Stuck swab at 9:00 a.m. at 1500'. Waiting on water truck and HOWCO pump truck. Freed swab at 4:00 p.m. Cleaned tubing with 200 bbls. H₂O. Started swabbing at 8:00 p.m. Well in at 9:15 p.m.

11/6/55 T.D. 2964'. Blowing well. Released spudder at 7:00 a.m. Well making 9,800 Mcfd through 2" side static nipple on tubing with 670# pressure on casing.

ACTUAL CASING RECORD

WELL Jicarilla #2 FIELD South Blanco ELEV. KB 6599'

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 10/15/55 Csg. size 7" Wt. 20# Landed at 2897 Hole T.D.

Distance from KB to Grd All measurements from KB

JT. NO.	LENGTH	COLLAR DEPTH	REMARKS	JT. NO.	LENGTH	COLLAR DEPTH	REMARKS
		2897.00		18	31.29	2324.44	
	1.27	2895.73	Baker Slip Jt. Shoe	19	32.66	2291.78	
1	18.70	2877.03		20	31.25	2260.53	
	1.50	2875.53	Baker Float Collar	21	31.41	2229.12	
2	32.04	2843.49		22	31.57	2197.55	
3	30.74	2812.75		23	32.01	2165.54	
4	31.31	2781.44		24	32.94	2132.60	
5	31.55	2749.89		25	32.38	2100.22	
6	33.40	2716.49		26	31.48	2068.74	
7	32.62	2683.87		27	30.88	2037.86	
8	30.78	2653.09		28	31.35	2006.51	
9	33.01	2620.08		29	31.87	1974.64	
10	33.02	2587.06		30	32.92	1941.72	
11	32.78	2554.28		31	25.12	1916.60	
12	33.15	2521.13		32	32.35	1884.25	
13	33.18	2487.95		33	30.40	1853.85	
14	33.23	2454.72		34	32.62	1821.23	
15	33.17	2421.55		35	30.03	1791.20	
16	32.95	2388.60		36	29.23	1761.97	
17	32.87	2355.73		37	31.52	1730.45	

ACTUAL CASING RECORD

WELL Jicarilla #2 FIELD South Blance 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	28.33	1702.12		58	31.26	1094.67	
39	29.40	1672.72		59	31.03	1063.64	
40	26.06	1646.66		60	32.19	1031.45	
41	31.13	1615.53		61	30.93	1000.52	
42	31.00	1584.53		62	31.47	969.05	
43	31.23	1553.30		63	32.03	937.02	
44	30.94	1522.36		64	31.80	905.22	
45	31.23	1491.13		65	32.67	872.55	
46	30.54	1460.59		66	32.03	840.52	
47	31.62	1428.97		67	27.88	812.64	
48	25.37	1403.60		68	31.74	780.90	
49	31.37	1372.23		69	27.98	752.92	
50	28.20	1344.03		70	30.66	722.26	
51	29.78	1314.25		71	31.85	690.41	
52	32.51	1281.74		72	33.05	657.36	
53	31.26	1250.48		73	30.85	626.51	
54	31.81	1218.67		74	33.44	593.07	
55	31.81	1186.86		75	30.82	562.25	
56	30.66	1156.20		76	33.16	529.09	
57	30.27	1125.93		77	31.93	497.16	

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

WELL Jicarilla #2 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	32.24	464.92					
79	31.62	433.30					
80	31.22	402.08					
81	29.74	372.34					
82	29.77	342.57					
83	31.88	310.69					
84	32.45	278.24					
85	30.03	248.21					
86	32.24	215.97					
87	31.44	184.53					
88	31.38	153.15					
89	31.00	122.15					
90	32.43	89.72					
91	32.55	57.17					
92	31.93	25.24					
93	30.29	-5.05					

BIT RECORD PAGE 1
 WELL NAME Jicarilla #2
 COMPANY The Ohio Oil Company
 DATE 10/20/55

On Book	Corehead #	Size	Notes	Type	Serial #	On At	Off At	Ft. Made	Bottom	R.P.M.	Wt. on Bit	Wt. on Bit
1						0	79	151		100	Survival	
2 (1)		12 1/4	HTC	OSC 3		79	230	150		90	20,000	
3		15	Pilot	Reamer		80	230	1038	16 1/2	90	25,000	
4 (2)		9	HTC	OSC 3	39657	230	1268	858	14 1/2	90	25,000	
5 (3)		9	HTC	OSC 3	44206	1268	2126	457	12 1/2	85	25,000	
6 (4)		9	HTC	OSC 3	39673	2126	2583	217	6 1/2	85	25,000	
7 (5)		9	HTC	OSC 16	94763	2583	2800	95	2 1/2	85	25,000	
8 (6)		7 7/8	HTC	OW	RR	2800	2895	100	1 1/2	85		
9 (7)	Same bit as	9	HTC	OSC 16	RR	2800	2900	64				
	7 (5)					2900	2964					

Jicarilla #2

[illegible]

DEVIATIONS

[illegible]

PROGRESS REPORT

8 am - 5 am

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