

DATE 2/23/56

THE OHIO OIL CO

HISTORY OF OIL OR GAS WELL

FIELD SOUTH BLANCO

WELL NO. #6 LEASE Jicarilla BLOCK 28 SEC. 28 TWP. 26N R. 5W.

STATE New Mexico COUNTY Ria Arriba

1650' from East Line
1650' from South Line

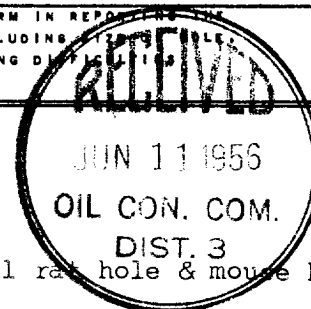
K.B. ELEV. 6696'

MEASUREMENTS
TAKEN FROM
TOP OF OIL STRING _____ ELEV. _____
TOP OF ROTARY TABLE _____ ELEV. _____
GRD. OR MAT _____ ELEV. 6683'

HISTORY PREPARED BY George Susich

TITLE Asst. Petroleum Engineer

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 THE SIZE AND NUMBER OF BITS, COMPLETE DESCRIPTION OF CASING, CEMENTING, FISHING OR DRILLING DISTURBANCES, SURVEYS, ALL TESTS, ALL COMPLETION OPERATIONS AND PROCEDURE, ETC.



DATE			
1955			
11/24			Fleeger-Riley tearing down & rigging up.
11/25			Rigging up raised mast rigging up to drill rat hole & mouse hole. Broke Kelly in two waiting on new Kelly.
11/26	T.D.	70'	Picked up new Kelly at 1:00 p.m. Rigged up to drill rat hole, drilled mouse hole. Spudded at 5:00 p.m. 12-1/4" hole.
11/27	T.D.	180'	Drilled 180'-12-1/4" hole started to ream hole to 15" at 6:00 am Reamed to 180' ran 5 jts., 10-3/4", 32.75#, H-40, 8R casing: 148.77 Net 1.35 Baker Guide shoe 150.12 Total Net Landed below grnd. 1.00 Grnd to K.B. 12.60 Landed shoe at 163.72' K.B. Cemented with 125 sax Regular by HOWCO. Displaced casing with 16 bbls. water. Plug down at 4:00 p.m. Good returns on cement. Top of plug in casing estimated at 143' K.B. W.O.C.
11/28	T.D.	344'	Finished nippleing up. pressured casing with 550#/in. ² for 1/2 hr, casing ok. Found top of cement in casing at 147'. Started to drill out at 4:00 p.m. - Bit #1 HTC OSC - 3
11/29	T.D.	1395'	Drlg ahead sand & sh made trip for Bit #2 HTC OSC - 3 Dev. at 1182- 1-1/4°
11/30	T.D.	1630'	Drlg ahead, made trip for Bit #3 HTC OSC-3 Dev at 1850- 3/4°
12/1	T.D.	2165'	Drlg ahead.
12/2	T.D.	2518'	Made trip for Bit #4 HTC OSC - 3, tight hole.
12/3	T.D.	2730'	Drlg ahead made trip for Bit #5 HTC OSC- 3 Dev. at 2600'- 3/4°. Evening tour quit at 11:00 p.m.
12/4	T.D.	2780'	Waiting on Crews and throwing out rig & air lines 16° below zero.

<u>1955</u>			
12/5	T.D.	2959'	Waiting on Crew, started drilling at 10:00 p.m.
12/6	T.D.	3059'	Drilled to 3059' with Bit #6 HTC-OSC-3. Strapped pipe out of hole: Strapped T.D. 2914' Driller's TD 2911' Corrected T.D. to 2914'. Ran junk sub on Bit #6. Picked up Core bbl & went in hole.
12/7	T.D.	3074'	Got on bottom with Core bbl, washing to bottom could not get pressure on bbl below 1500# working pipe and circulating trying to get pressure drop. Started to cut Core #1:
12/8	T.D.	3160'	Finished cutting Core #1 from 3059-3117'. Out 58' Rec. 58'. Went back in hole to cut Core #2.
12/9	T.D.	3167'	Finished cutting Core #2 at 1:00 a.m. Waiting on crew & throwing out mud lines to mix mud. Started to pull Core #2 at 9:00 a.m. Core #2 3117-3167'. Out 50' Rec. 52' ss & sh. On bank with Core at 12:00 noon. Ran Schlumberger ES & Micro Logs Schlumberger T.D. 3169'. Finished running log at 3:00 p.m. Went back in hole with 9" bit reaming from 3059' with RR HTC G-1.
12/10	T.D.	3169'	Finished reaming to 3140' circulated 2 hrs., came out of hole laying down drill pipe. Rigged up to run casing. Ran 102 jts. 7" OD, 20#, J-55, 8R casing. 3066.57' Net Larkin cementrol shoe 2.30 Larkin cementrol Flapper float 1.08 3069.95 Total Landed shoe at 3062' K.B. with collar at 3028.83', centralizers at 3021.83, 3028.70, 3052.70. Cemented with 100 sax Regular by HOWCO. Bumped plug with 1200# Liner. Plug down at 11:00 p.m. Estimated top of cement in annulus at 2450' K.B. PBTD 3029'.
12/11	T.D.	3169'	Finished landing casing at 1:00 a.m. Released rig at 1:00 a.m. Ran temp. survey, found top of cement at 1425. PBTD at 3023 by B&R Service - W.O.C.

DATE 2/23/56

THE OHIO OIL CO

HISTORY OF OIL OR GAS WELL

FIELD SOUTH BLANCO

WELL NO. #6 LEASE Jicarilla ~~PARRISH~~ PARISH BLOCK 28 SEC. 28 TWP. 26N. R. 5W.

STATE New Mexico COUNTY Ria Arriba

1650' from East Line
1650' from South Line

K.B. ELEV. 6696'

MEASUREMENTS
TAKEN FROM { TOP OF OIL STRING _____ ELEV. _____
TOP OF ROTARY TABLE _____ ELEV. _____
GRD. OR MAT _____ ELEV. 6683'

HISTORY PREPARED BY George Sustch

TITLE Asst. Petroleum Engineer

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 C O M P L E T I O N

1955 12/18	T.D.	3169'	Moved on McKinney Drlg Co. Spudder. Rigging up & bailing hole down.																					
12/19	T.D.	3169'	Finished bailing hole, started drilling out cement top of plug at 3023'. Drig ahead. Drilled out shoe at 3060'. Started bailing mud out of hole.																					
12/20	T.D.	3169'	Finished bailing hole clean & washing same with water. Ran Schlumberger Induction Gamma-Ray and Temperature logs. Well making some gas (smell). Dumped 5 bbls. water & washed well clean. Dumped 7 sax Regular cement with 2% CaCl ₂ on bottom of well by HOWCO. Estimated PBTD 3138' K.B. W.O.C.																					
12/21	PBTD	3134'	W.O.C. 8 hrs. went in hole with bailer found top of plug at 3128' K.B. Drilled out to 3134'. Rigged up to run tubing. Ran 98 jts 2-3/8", 4.7#, J-55, 8R EUE: <table border="0" style="margin-left: 100px;"> <tr> <td></td> <td style="text-align: right;">3066.49</td> <td>Net</td> </tr> <tr> <td></td> <td style="text-align: right;">31.12</td> <td>Anchor Jt.</td> </tr> <tr> <td>Corrected</td> <td style="text-align: right;">3097.61</td> <td>Total</td> </tr> <tr> <td>tubing tally</td> <td style="text-align: right;">20.18</td> <td>2' - 10' pups</td> </tr> <tr> <td></td> <td style="text-align: right;">3117.79</td> <td></td> </tr> <tr> <td></td> <td style="text-align: right;">10.50</td> <td>below K.B.</td> </tr> <tr> <td></td> <td style="text-align: right;">3128.29</td> <td>Landed K.B.</td> </tr> </table> Anchor Landed 5.00 off PBTD. Waiting on frac tanks & water.		3066.49	Net		31.12	Anchor Jt.	Corrected	3097.61	Total	tubing tally	20.18	2' - 10' pups		3117.79			10.50	below K.B.		3128.29	Landed K.B.
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	3128.29	Landed K.B.																						
12/22	PBTD	3134'	Rigging up to frac could not start on truck. Natural gas gauge on well 8840 cfd through tubing with orifice well tester. Sand frac from 3062-3134 with 40000 gals water & 45000# (20-40 mesh sand) by HOWCO. Used 4 twin T-10 trucks 70 bbl blender. Pumped 20 bbl cushion ahead of sand. Broke down formation with 1300# on casing & 2400 on tubing. Pumped 32910 gals water with 45000# sand (1.37#/gal) Average injection rate 33.4 bbls. per min. Max treatment pressure 800# casing, 2200# tubing. Flushed sand with 6250 gals water. Final pressure 750#. Well flowing water for 4 hrs. Rigged up to swab in well. Swabbing well																					
12/23	T.D.	3134'	Finished swabbing in well at 2:00 p.m. Released spudder at 6:00 p.m. Blew well until 10:00 p.m. Shut-in to change connection. Tried to blow well. Casing making gas, tubing plugged off with sand. Bridge at 1500'.																					

COMPLETION (cont)

<u>1955</u> 12/24	T.D.	3134'	Static
12/25	T.D.	3134'	Static
12/26	T.D.	3134'	Rigged back up circulated well clean with 240 bbls. water, pumped 2 bbls. sand out of tubing, by HOWCO. Swabbing well.
12/27	T.D.	3134'	Finished swabbing in well, well in at 10:00 a.m.. Released rig at 4:00 p.m. Flowing well.
12/28	T.D.	3134'	Well making water, shut-in well.
12/29	T.D.	3134'	Blew well, well blew 3 to 4 bbls. salt water out of well.
12/30	T.D.	3134'	Static shut-in.
12/31	T.D.	3134'	Casing had 800# pressure, blew well, blew out 3 to 4 bbls. salt water, clean well good, gauged water flow, well making 1 bbl water in 30 min. Shut-in well.
<u>1956</u> 1/1	T.D.	3134'	Static
1/2	T.D.	3134'	Casing build up 850#, blew well, blew out 3 to 4 bbls. salt water, blowed well 4 hrs., well killed itself. Build up to 500# well blew out water.
1/3	T.D.	3134'	Blew down well, gas blew out 3 or 4 bbls. salt water, blew well 8 hrs. Well making 1 bbl water every 1 hr.
1/4	T.D.	3134'	Static

W O R K O V E R

<u>1956</u> 1/14	Moved McKinney Drlg. Co. Spudder on location, rigged up. Killed well started out of the hole with tubing.		
1/15	T.D.	3134'	Finished pulling tubing pulled 99 fts. of 2-3/8" tubing, 3116.47 total. Dumped 50 sax 20-40 sand in well. Let sand settle to bottom. Well taking water. Went in hole found sand fill up at 3000'. Rigged up sand pump, pumping well.

W O R K O V E R (cont)

1956

1/24 (cont)	T.D.	3137'	Estimate 142 sax in formation, 8 sax in plug. Estimated PBTD 3025'. Job completed at 6:15 p.m. After back washing noticed considerable amounts of gas flowing out of tubing unloading water. W.O.C.
1/25	PBTD	3008'	W.O.C.
1/26	T.D.	3137'	Went in hole at 6:00 p.m. found top of cement plug at 3008'. Drilling cement.
1/27	T.D.	3137'	Drilling cement. Drilled cement to 3071'. Rigged up sand pump.
1/28	T.D.	3137'	Sand pumping well, finished cleaning out sand to T.D.
1/29	T.D.	3137'	Ran same tubing as on 20th, 98 jts. Rigged up to swab. Swabbing well.
1/30	T.D.	3137'	Swabbed well in at midnight. Well blew for 1 hr. Killed itself. well shut-in for 6 hrs. Swabbed well in. Well blew for 1 hr. Making salt water. Released rig at 3:00 p.m. Shut well in.
2/1	T.D.	3137'	Blew well, well slugged up with salt water 17,000 P.P.M. Shut-in well. Estimate from 2 to 4 bbls. water accumulation in well.
2/2	T.D.	3137'	Static

ACTUAL CASING RECORD

WELL Jicarilla #6 FIELD South Blanco ELEV. KB 6696'

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 12/10/55 Csg. size 7" Wt. 20# Landed at 3062 Hole T.D. 3169'

Distance from KB to Grd _____ All measurements from KB

JT. NO.	LENGTH	COLLAR DEPTH	REMARKS	JT. NO.	LENGTH	COLLAR DEPTH	REMARKS
		3062.00	Landed KB	18	31.95	2518.76	
	2.30	3059.70	Larkin Cementrol Shoe	19	29.60	2489.16	
1	29.79	3029.91		20	29.84	2459.32	
	1.08	3028.83	Larkin Cementrol Float Collar	21	29.49	2429.83	
2	28.52	3000.31		22	29.38	2400.45	
3	30.87	2969.44		23	28.53	2371.92	
4	29.30	2940.14		24	25.17	2346.75	
5	29.77	2910.37		25	32.13	2314.62	
6	29.19	2881.18		26	31.61	2283.01	
7	30.14	2851.04		27	31.57	2251.44	
8	31.00	2820.04		28	31.34	2220.10	
9	31.72	2788.32		29	29.18	2190.92	
10	29.67	2758.65		30	28.25	2162.67	
11	29.38	2729.27		31	30.40	2132.27	
12	30.38	2698.89		32	29.72	2102.55	
13	31.09	2667.80		33	28.71	2073.84	
14	26.42	2641.38		34	29.53	2044.31	
15	30.47	2610.91		35	32.20	2012.11	
16	29.19	2581.72		36	30.59	1981.52	
17	31.01	2550.71		37	30.90	1950.62	

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

WELL Jicarilla #6 FIELD South Blanco ELEV. KB

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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	29.85	1920.77		58	32.15	1315.10	
39	29.21	1891.56		59	30.34	1284.76	
40	31.26	1860.30		60	26.92	1257.84	
41	30.21	1830.09		61	29.76	1228.08	
42	29.33	1800.76		62	31.56	1196.52	
43	30.11	1770.65		63	31.27	1165.25	
44	29.25	1741.40		64	28.66	1136.59	
45	31.60	1709.80		65	29.84	1106.75	
46	30.85	1678.95		66	29.40	1077.35	
47	29.62	1649.33		67	28.97	1048.38	
48	30.53	1618.80		68	31.83	1016.55	
49	29.54	1589.26		69	29.64	986.91	
50	29.84	1559.42		70	29.01	957.90	
51	31.84	1527.58		71	31.18	926.72	
52	31.72	1495.86		72	30.60	896.12	
53	29.08	1466.78		73	29.55	866.57	
54	30.01	1436.77		74	29.97	836.60	
55	28.61	1408.16		75	30.18	806.42	
56	30.43	1377.73		76	29.20	777.22	
57	30.48	1347.25		77	28.47	748.75	

ACTUAL CASING RECORD

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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
78	31.43	717.32		98	29.78	111.37	
79	31.84	685.48		99	29.24	82.13	
80	28.04	657.44		100	28.60	53.53	
81	30.43	627.01		101	30.31	23.22	
82	29.09	597.92		102	31.17	-7.95	
83	29.25	568.67					
84	29.63	539.04					
85	30.92	508.12					
86	30.11	478.01					
87	32.44	445.57					
88	27.86	417.71					
89	30.27	387.44					
90	32.22	355.22					
91	28.68	326.54					
92	30.86	295.68					
93	30.43	265.25					
94	30.51	234.74					
95	32.45	202.29					
96	31.51	170.78					
97	29.63	141.15					

2ET RECORD PAGE
 WELL NAME Jicarilla #6
 COMPANY The Ohio Oil Company
 DATE

Surf. #	Casing #	Size	Type	Serial #	On At	Off At	Pl. Made	Hrs. on		Wt. on Bit	Rotation
								Bottom	R.P.M.		
1	12 1/4	Pilot Reamer			0	160'	160'				
2	15"	HTC	OSU-3		0	160'	160'	3 1/2	86	6000-8000	
3	9"	HTC	OSU-3		160'	1059'	899'	18	90	2000	
4	9"	HTC	OSU-3		1059'	1630'	571'			20,000	
5	9"	HTC	OSU-3		1630'	2165'	535'	16 1/2	85	25,000	
6	9"	HTC	OSU-3		2165'	2525'	360'		86	25,000	
7	9"	HTC	OSU-3		2525'	2917'	389'		80	25,000	
8	9"	HTC	OSU-3		2917'	3060'	146'				
9	6 1/8	Christie Diamond		2918	3059'	3167'	108'	32			
10		Jensen Core									
11	9"	HTC	OSU-10		3059'	3140'	89'				

Date	Time	F/C	Vis.	Weight	PPM NaCl	Water Loss	Ph.	Magcagel	Bicarb of Soda	Caustic	Quebracho	Alkatan	Live	Aeropan
11/27	Morning													
	Daylight		41	9.4										
	Evening		41	9.4										
11/28	Morning							35 sx						
	Daylight													
	Evening													
11/29	Morning		39											
	Daylight		40	9.3								50#		
	Evening		39	9.3				15 sx	2 sx					
11/30	Morning													
	Daylight											50#		
	Evening													
12/1	Morning		36											
	Daylight		39	9.6								40#		
	Evening	1/32	37	9.0		10.8	9.0	25 sx				2 sx		
12/2	Morning							10 sx						
	Daylight		39	9.6				30 sx				50#		
	Evening		43	9.6										
12/3	Morning													
	Daylight	2/32	48	9.8		9.6	8.5							
	Evening													
12/4	Morning													
	Daylight													
	Evening		49	9.6								50#		
12/5	Morning											50#		
	Daylight		42	9.7				5 sx				50#		
	Evening		68	10.3				5 sx						
12/6	Morning		68	10.3										
	Daylight		53	9.8										
	Evening	2/32	55	10.1		9.2								
12/7	Morning													
	Daylight		Ave.-66	10.0								50#		
	Evening													
12/8	Morning													
	Daylight	1/32	Ave.-50	10.0										
	Evening			9.9		8.0	8.2					50#		
12/9	Morning													
	Daylight	2/32	60	9.9		8.0	8.0							

Jicarilla #6

DEVIATIONS

		<u>Depth</u>	<u>Dev.</u>
11/27	DT	160'	$3/4^{\circ}$
11/29	DT	500'	$3/4^{\circ}$
11/29	ET	1182'	$1\ 1/4^{\circ}$
12/1	DT	1850'	$3/4^{\circ}$
12/3	DT	2600'	$3/4^{\circ}$

Jicarilla #6

PROGRESS REPORT

821 - 221

Date	Time	Status	Depth	Made	Fm.	Remarks
11/21	8:00	moving rig on				
11/25	8:00	Static				
11/26	8:00	Rigging up				
11/27	8:00	Surf. hole	180'	180'	Tert.	
11/28	8:00	WOC	180'	0'	"	Ran 5 jts. 10 3/4" csg.
11/29	8:00	Drlg.	571'	371'	"	
11/30	8:00	Drlg.	1395'	1004'	"	
11/31	8:00	Static				
12/1	8:00	Drlg.	1867'	472'		
12/2	8:00	Drlg.	2165'	298'		Made trip
12/3	8:00	Drlg.	2525'	360'		
12/4	8:00	Static	2730'	205'	Kirtland	Crew quit - lines frozen
12/5	8:00	Drlg.	2880'	150'		
12/6	8:00	Drlg.	3060	180'	Fruitland Top PC	
12/7	8:00	Prep to core				
12/8	8:00	Coring	3117'	58'	PC	Rec. core #1, 3059-3117'
12/9	8:00	Coring	3167'	50'	PC	Rec. Core #2, 3117-3167'
12/10	8:00	Logged & Beamed	3169'			
12/11	8:00	WOC	3169'			Ran csg. & released rig
12/12-						
12/14	WOC					
12/18	8:00	Rigging up				
12/19	8:00	Drilled cement				
12/20	8:00	Ran logs				
12/21	8:00	WOC				
12/22	8:00	Ran tubing and sand fraced				
12/23	8:00	Swabbing well				
12/24	8:00	H ₂ O killed well				
12/25	8:00	Swabbing				
12/26	8:00	Well making gas and salty wtr				
12/27	8:00	Rig released				
1/14	8:00	Rigging up				
1/15	8:00	Running sand purgo				
1/16	8:00	Perf. & Squeezed				
1/17	8:00	WOC				
1/18	8:00	Drlg. cement				
1/20	8:00	Running tubing				
1/22	8:00	Blowing well				
1/24	8:00	Killing well				
1/25	8:00	Squeezed				
1/26	8:00	WOC				
1/27	8:00	Drlg. cement				
1/29	8:00	Running tubing and swabbing				
1/30	8:00	Released rig at 3:00 P.M.				