DATE 1/20/53

# THE OHIO OIL CO FIELD South Blanco HISTORY OF OIL OR GAS WELL

								BLOCK				_
WELL	NO	<u>8</u> LI	EASEJi	<u>carilla</u>				SEC.	28	TWP	26 N	R. 5 W
CT 1 TF		M M-		PAR ISH	D: •					<b></b> ,		
SIAIE		<u>New Me</u>	XICO	_ COUNTY	Kla P	Arriba				East Li		
									990*	South L	ine	
				ELEV								
		TOP OF	OIL STRING	ELEV	<del></del>	HISTOR	Y PREPARE	8Y	Geora	e Susic	h	······································
MEASURI	EMENTS	TOP OF	ROTARY TABLE	ELEV			T	! TLE				
TAKEN	FROM	GRD. OR	. MAT	ELEV.								<del></del>
	HISTOR	RY OF ALL	L IMPORTANT OF BITS, C	RTANCE TO HAVE PERATIONS AT TO OMPLETE DESCRIP MPLETION OPERA	TION OF	TOGETHER WI	TH THE DAT	TES THERE	OF. INCL	IDING SIZE	OF HOLE	
DATE												
1/6/55		Fleeg	er Riley (	Contractor,	Rig #5	tearing	down a	nd mov	ing to	new loc	ation.	
1/7/55		Riggi	ng up. Ra	aised mast.	Broke	e tour.						
1/8/55		Finis 180 f	hed riggineet of 11'	ng up. Dri: "surface ho	lled mo	ouse hole eaming to	& rat 1	hole.	Spudde	d 4:00	p.m. I	rilled
1/9/55		T.D.	180'.	Finished re	eaming	at noon.	Ran 5	jts. I	LO-3/4"	32.75#	8R H-4	0 casing:
						154.0	n Nat					
							7 Baker	Guida	Shoo			
							7 TOTAL	Ourae	DILOG			
						-	0 Below	Grd.				
							O Grd.					
							7 Lande					
				Cemented with H <sub>2</sub> O. Plug estimated a	down a	ıt 2:30 p	.m. God	OWCO. od retu	Displa urns on	ced cas cement	ing wit . Top	h 17 bbls. of plug
1/10/55		T.D.	234".	Nippled up, with 500#/i	in <sup>z</sup> . C	asing O.	K. Sta:	ill out rted di	Pre	ssured out of	casing surfac	for 1/2 hr. e at 5:30
L/11/55		T.D.	938.	Came out of works.	: hole	for Bit i	#2 HTC-(	OSC-3.	Repai	ring lo	w cluto	h on draw
L/12/55		T.D.	1666.	Finished reahead in sh 1550' (3/4°	nale &							
								R	CEN	ED		

.1/13/55	T.D.	2277 <b>°.</b>	Drlg. ahead. Made trip for Bit #3 HTC-OSC-3.
.1 <b>/</b> 14 <b>/</b> 55	T.D.	2575*.	Drlg. ahead. Made trip for Bit #4 RR HTC-OSC-61. Dev. at $2600' - 3/4^{\circ}$ .
1/15/55	T.D.	<b>30</b> 96 <b>′</b> .	Drlg. ahead. Made trip for Bit #5 HTC-OWV 7-7/8". Reduced hole size at 2900', sample top PC Sand 3084' (+350°6). Conditioning hole and mud to run Schlumberger.
L <b>1/</b> 16/55	T.D.	3100.	Conditioning mud & hole. Waiting on Schlumberger. Circulating 9 hrs Schlumberger on location at 11:00 a.m. Started out of hole. Encountered tight hole. Worked pipe through tight spots & circulated. Started out of hole and repairing air leak on clutches, on bank at 7:00 p.m. Run Schlumberger. Could not get below 1478. Came out of hole, went in hole with drill pipe.
L1 <b>/17/</b> 55	T.D.	3100 <b>'.</b>	Working on air lines 10 hrs., on bottom at 6:30 a.m. Circulating and conditioning hole. Came out of hole at 2:00 p.m. Run Schlumberger. Could not get below 2880. Started back in hole working on air compressor at 6:00 p.m. On bottom at 9:00 p.m. conditioning mud & hole. Started out of hole at 10:30 p.m.
L <b>1/</b> 18/55	T.D.	3101.	On bank at 2:00 a.m., ran Schlumberger Micro & ES Logs - Schlumberger T.D. 3101'. Went back in hole. Reamed 7-7/8" hole from 2900' to 3100' w/9" bit. Came out of hole. Went back in hole with 9" bit & junk sub. Drilled to 3103. Circulated 1 hour. Came out of hole for core barrel. Started in hole with core bbl. (Christensen conventional barrel).
11/19/55	T.D.	3133″.	On bottom at 7:00 a.m. Cut core #1 3103-06. Froze swive-bearing on swivel. Came out of hole waiting on swivel.
11/20/55	T.D.	3154.	Went in hole with core bbl. Cut core #2 3106-46 - cut 40', recd. 40'. Went back in hole for core #3.
11/21/55	T.D.	3168″.	Cut core #3 3146-61. Cut 15', recd. 15'. Went back in hole with 9" bit. Reamed from 3100' to 3161'. Drilled to 3171'. Came out of hole for Schlumberger.
11/22 <b>/</b> 55	T.D.	3171.	Ran Schlumberger. Could not get below 3089'. Went in hole with 9" bit. Conditioned hole. Circulated 2 hrs. Came out of hole.

drill pipe.

Ran Schlumberger ES & Micro-Caliper Logs. Schlumberger T.D. 3171'. Went back with bit, circulated 1 hr. Came out of hole laying down

.1/23/55 T.D. 3171'. Rigged up to run casing. Ran 100 jts. 7" O.D. 20# 8R J-55 casing: 3068.64 Net 2.02 Larkin Cementrol Shoe 1.08 Larkin Flapper Type Float Collar 3071.74 TOTAL

Landed shoe at 3070' KB with collar 3034.50 KB. Ran centralizers at following depths: 3061.98, 3047.98, & 3028.50. Cemented casing with 100 sh. Reg. by HOWCO. Displaced casing with 123 bbls. H2O. Plug down at 1:00 p.m. Bumped plug with 1500#/in2. Estimated top of cement in annulus at 2440'. Landed casing at 1:00 p.m. Released rig. Ran Temp. Survey. Found top of cement in annulus at 2340 PBTD 3026 by B & R Service.

.1/24/55 PBTD 3026'. W.O.C.

.1/25/55

.1/26/55

.1/28/55

.1/29/55

PBTD 3026'. W.O.C.

PBTD 3026'. McKinney spudder on location at noon. Rigging up.

.1/27/55 3026'. Finished rigging up. Bailing hole down. Bailed hole to 2000'. PBTD Started drilling out cement. Top of cement at 3026'.

> T.D. 3171". Finished drilling out cement from 3026' to 3069'. Open hole from 3070' to 3171'. Bailed out rotary mud & cleaned out hole. Well making show of gas. Ran Schlumberger Gamma Ray - Induction Log & Temp. Log.

T.D. 3171. Finished running logs. Rigged up to run tubing. Ran 100 jts. 2-3/8" J-55 4.7# 8R Tubing:

3124.41 Net

30.35 Anchor

3.00 Pup

3157.76 TOTAL

10.50 Landed Below KB

3168.26 Landed KB

Landed tubing 3' off T.D. Natural gas flow before sand frac 9,450 Cfd. through tubing. Sand frac from 3070' to 3171' KB by HOWCO. Used 4 T-10s trucks. Pumped 20 bbls. cushion ahead of sand. Broke formation with 2500# on tubing, 1500# on casing. Treatment pressures on casing 950#, tubing 2200#. Final pressure 650#. Used total of 880 bbls. water, used 30,400 gals.  $H_2O$  & 45,000# sand (1.48#/gal.) Pumped total of 880 bbls.  $\rm H_2O$  and 49 bbls. sand in 23 min. Average injection rate 40.5 bbls. per min. Flushed sand with 1.35 bbls. H<sub>2</sub>O, well flowing water for 2 hours after frac. Rigging up and swab.

Page	4
1/20	<b>/</b> 56

Iistory	of	Oil	or	Gas	Well
[icarill	.a. /	<del>/</del> 8			

L1/30/55	T.D.	Swabbed well in. Well making gas through casing could not get communication from casing to tubing. Rocked well several times with 975# on casing. Could not break through sand bridges. Waiting on HOWCO. Pump truck 6 hrs. Reversed circulation through casing. Washed hole with 176 bbls. H <sub>2</sub> O. Washed back sand. Started to swab in well.
L2/1/55		Swabbed in well at 4:00 p.m. Blew well until midnight. Released rig at midnight. Blowing well.
L2/2/55		Blowing well.
L2/3/55		Blowing well.
L2/4/55		Blowing well.
L2/5/55		Well making 1,260 Mcfd through tubing. Gauged with 1" side static nipple on tubing. 175# back pressure on casing.

# CORE RECORD JICARILIA #8

	FROM	TO	CUI	REC'D	DESCRIPTION
30RE #1	3103	3106	<b>*</b>	<b>*</b>	SS, fine ground, glauconitic, has some gas odor. Spotted bleeding appears to be very light & well cemented.
30RE #2	3106 3106 3134 3136 3144	3146 3134 3136 3146 3146	40,	40.	SS, same as above SH, black SS, same as above SS, same as above with inclusion of black sh. & grey sh.
30RE #3	3146 3146 3157 3160	3161 3157 3160 3161	15,	15.	SS, grey, fine grd., glauconitic, interbedded with black & grey sh., has no odor; no bleeding of core appears to be venhard & tight & well cemented. SS, same as above, silty, has no sh. interbedd SS, same as above, with 1/2 foot sh. black to grey

Jore Analysis by Core Laboratory

# AUTUSL CASING KECORD

This fo	orm is to ) te record o	pe filled o	South Bla out after each lence in which curately loc	:h :h	casing	r tobs It		is to give an at at any late:
Date	Csc	j. size_	Wt.		L	inded at	Ho1:	7.D.
			EN PERSONAL CONTRACTOR OF THE STATE OF THE S				a <b>sureme</b> nt	
Jt. No.	Length	Collar Depth	Remarks		Jt. No.	Lenght	Collar Depth	Rema <b>rks</b>
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The state of the s	2.02	3067.98	Larkin Cem- entrol shoe		19	31.19	2489.97	a v-billige, tille, fottad elljelige av bengalete av

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		2.02	2007.00	Larkin Cem-					
-	dd ffrings strongs	2.02	3067.98	entrol shoe	Ш	19	31.19	2489.97	
يردوداد	l	32.40	3035.58			20	<b>2</b> 9.61	2460.36	A. C. Called Andread Street, Co. Called
				Larkin				1	
*****	<b>10.</b> 10. 10. 10. 10.	1.08	3034.50	Float Colla		21	31.45	2428.91	
	2	29.74	3004.76			22	29.93	<b>23</b> 93 .98	
-	3	27.88	2976.88			23	<b>27.</b> 88	2371.10	
					#		27.00	47/4 44	- Junes Hallestonian granustation and a second
-	4	29.59	2947.29		$\parallel$	24	30.61	2340.49	
	5	28.94	2918.35			25	31.76	2308.73	
	_				$\ $			1	
	6	31.31	2887.04		∦	26	31.48	2277.25	
•	7_	30.92	2856,12			27	29.79	2247.46	
	8	28.76	2827.36			28	29.38	2218.08	
-	9	31.35	2796.01			<b>2</b> 9 .	32.29	<b>2185.7</b> 9	
	10	31.06	2764.95			30	30.26	2155.53	
	11	<b>2</b> 9. <b>0</b> 8	2735.87			31	32.41	2123.12	
	12	31.88	2703.99			32	31.59	2091.53	
	13	29.48	2674.51			33	30.93	2060.60	
	14	31.17	2643.34			34	28.50	2032.10	
————————————————————————————————————	15	31.14	2612.20			35	30.54	2001.56	
:	16	28.75	2583.45			36	31.26	1970.30	
	17	31.49	2551.96			37	28.62	1941.68	

## ACTUAL CASING RECORP

WELL Jicarilla #8 FIELD South Blanco ELEV. EB 6670'										
date,	his form is to be filled out after each casing job. Its purpose is to give an courate record of the sequence in which the joints were run so that at any later ate, the collars can be accurately located.									
		j. size	Wt.	-	'La	T.D.				
	ce from KB		ter trappelle sent bari a l'elemente agrecation de communication de communication de communication de communic	·*****	etin onen skela. Aprostfregte jagg		ea <b>s</b> urements			
Jt. No.	Length	Collar Depth	Remarks		Jt. No.	Lenght	Collar Depth	Remarks		
58	31.75_	1909.93	and where the contraction of the discourse plan agreement		58	30.88	1302.58			
39	29.73	1880.20			59	3 <b>2.4</b> 9	1270.09			
40	28.73	1851.47			60	<b>27.</b> 18	1242.91			
41	31.38	1820.09			61	31.16	1211.75			
42	31.46	1788.63			62	31.77	1179.98			
43	28.88	1759.75			63	31.36	1148.52			
44	29.23	1730.52			64	28.50	1120.12			
45	28.33	1702.19			65	31.65	1088,47			
46	31.70	1670.49			66	31.39	1057.08			
47	30.37	1640.12			67	30.34	1026.74			
48	27.45	1612.67			68	<b>32.</b> 55	994.19			
49	28.88	1583.79	The same of the sa		69 .	31.54	9 <b>62.6</b> 5			
50	28.87	1554.92			70	30.61	932.04			
51	32.00	1522.92			71	28.68	903.36			
52	32.93	1489.99			72	32.40	870.96			
53	28.70	1461.29			73	<b>2</b> 8.87	842.09			
54	31.54	1429.75			74	31.50	810.59			
55	33.02	1396.73			75	31.64	778.95			
56	31.53	1365.20			76	31.22	747.73			
	0.1 514	3000 46		1	77	20 55	715 10			

## $\underline{A} \ \underline{C} \ \underline{T} \ \underline{U} \ \underline{A} \ \underline{L} \qquad \underline{C} \ \underline{A} \ \underline{S} \ \underline{I} \ \underline{N} \ \underline{J} \qquad \underline{R} \ \underline{E} \ \underline{C} \ \underline{O} \ \underline{R} \ \underline{D}$

WELL_	Jicarilla	#8 FIELD	South	B1	ance	ELEV. F	JB <u>667</u>	'O <i>"</i>			
accura	re record	or the seq	out after ea uence in whi ccurately lo	ch	the to	r job. Its oints were	purpose i run so tha	s to give an t at any lat			
Date_	Све	g. size	Wt		La	inded at	Hole	• T.D.			
Distance from KB to Grd			`		Mir Bridge and Colonia degrees		asurements				
Jt. No.	Length	Collar   Depth	Remarks		Jt. No.	Lenght	Collar Depth	Remarks			
78	31.78	683.40			98	31.77	64.20				
<b>7</b> 9	31.28	652.12	·		99	<b>32.</b> 89	31.31				
80	30.94	621.18			100	33.05	-1.74				
81	30.69	590.49				·					
82	29.64	560.85									
83	<b>2</b> 9.99	530.86		$\coprod$							
84	31.07	499.79		Ш							
85	31.84	467.95		$\prod$	,						
86	31.92	436.03									
87	31.41	404.62		$\prod$							
88	32.69	371.93									
89	31.79	340.14									
90	28.87	311.27		$\prod$							
91	31.68	279.59		Ш							
92	31.00	248.59		$\parallel$				*			
93	29.54	219.05									
94	31.25	187.80		$\prod$							
95	31.87	155.93		$\parallel$		*:		rodringen für bereitingen der medbelstegen.			
96	29.74	126.19				:					
97	30.22	95 97						- · · · · · · · · · · · · · · · · · · ·			

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Aerobe													
Lime												<b>(</b> -	
Cement													
Que- bracho													
Alkatan		100#	£0#	50# 50#	50# 100#	100#							
Bicarb of Soda													
Magcogel	5 sx	30 sx 8 sx				35 sx		10 sx					
Ph.											₩	₩	
Water Loss											<b>7.9</b>	9.9	
PPM Na Cl													
Weight		200	9.3	<b>7.</b> 6	7.660	49.45 0.00	7.6	9.6	9.6	7.6	. 9•6	0.00 0.00 0.00 0.00	7.6 7.6 7.6
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F/C											2/32	2/32	
Time	Morning Daylight	evening Morning Daylight	Evening Morning Daylight	Evening Morning Daylight	Morning Morning Daylight Evening	Moning	Bylight Evening	Morning Daylight Evening	Morning Daylight Evening Worming	norming Daylight Evening Morning	Daylight Evening	Morning Daylight Evening	Morning Daylight Evening
Date	11/8/55	11/11	11/12	11/13	ħι/τι	11/15	11/16	11/11	11/18	11/11	11/20	11/21	11/22

### DEVIATIONS

Depth	De <b>v.</b>
540 <b>*</b>	3/4°
1100	1/2°
1550	3/4°
26001	3/4°

### PROCRESS REPORT

### 8 m - 8 am

ate	Time	Status	Depth	Made	Fm.	Remarks
11/9	8:00	Drlg.	133	1331	Tert.	COMOL A D
	8:00	Wod	180	53!	11	P PARTY HOUSE AND
1/11	8:00	Drlg.	234	54	17	The state of the s
1/12	8:00	Drlg.	9381	704	71	THE PROPERTY OF THE PROPERTY CONTINUES OF THE PROPERTY OF THE
1/13	<u> </u>			1914	·	The state of the s
1/1/	8:00	Drlo.				The statement of the st
1/15	8:00	Drlg.	2860 <b>1</b>	21561	Kirtla	The second secon
1/16	8:00	WO Schlum		240	WTLATE	CONTROL OF THE PARTY OF T
XXXX		berger	- 5100.	240.		And with the control of the Control
$\frac{1}{1}$	8:00	Ran Logs	31001	<del> </del>	PC	Down Calabarra (CO 0 80
1/18	<u>8:00</u>		31031	31	ITU.	Ran Schlumberger, ES & Ecro
$\frac{1}{2}$		Coring		<u> </u>	<del></del>	
	8:00		31681	651.:	<b></b>	3 Cores taken and ran ES & Micro I
	8:00	Ran Csg.				7" css. Released rig.
	8:00	Cable too		<u>stion</u>		* William - Wilson Extragal Color of the Sensit of the Sensit of the Sensit of the Sensitive Color of the Sensitiv
1/29	\$ <b>:</b> 00	Sand frac	ed	<del> </del>	-	Ran RA, Ind & Temp logs., ran
		-				tubing, sand fraced.
	8:00	Swabbing		ļ	-	
2/1	8:00	Blowing w	ell	<u> </u>		Released rig at 12:00 midnight.
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