

Wilson Brothers Drilling Company

217 E. KALISTE SALOOM RD. • P.O. DRAWER 53628 • LAFAYETTE, LOUISIANA 70505 • AREA CODE 318 / 233-5950

December 23, 1985

RECORD OF INCLINATION - Santa Fe Energy
500 W. Illinois - Suite
Midland, Texas 79701

WELL: Bootleg Ridge #1-19 Lea County, New Mexico

14-22-33

11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle X100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
273	2.73	1/4	.436	1.19	1.19
688	4.15	1	1.745	7.24	8.43
990	3.02	1	1.745	5.27	13.70
1,302	3.12	1	1.745	5.44	19.14
1,812	5.10	1	1.745	8.90	28.04
2,300	4.88	1	1.745	8.52	36.56
2,675	3.75	1-1/4	2.186	8.18	44.74
2,956	2.81	1	1.745	4.90	49.64
3,263	3.07	3	5.234	16.07	65.71
3,357	.94	3-1/4	5.698	5.36	71.07
3,455	.98	3-1/2	6.105	5.98	77.05
3,580	1.25	3-1/2	6.105	7.63	84.68
3,674	.94	3-1/2	6.105	5.74	90.42
3,701	.27	3-1/2	6.105	1.65	92.07
3,798	.97	2-1/2	4.362	4.23	96.30
3,860	.62	3-1/2	6.105	3.79	100.09
3,948	.88	3-1/2	6.105	5.37	105.46
4,045	.97	3-3/4	6.540	6.34	111.80
4,196	1.51	4	6.976	10.53	122.33
4,385	1.89	3-3/4	6.540	12.36	134.69
4,473	.88	3-1/4	5.698	5.01	139.70
4,570	.97	4	6.976	6.77	146.47
4,601	.31	3-3/4	6.540	2.03	148.50
4,656	.55	3	5.234	2.88	151.38
4,720	2.45	2	3.490	8.55	159.93
4,965	2.45	1	1.745	4.28	164.27
5,238	2.73	1	1.745	4.76	168.97
5,520	2.82	3/4	1.309	3.69	172.66
5,770	2.50	1/2	.873	2.18	174.84
6,257	4.87	1/2	.873	4.25	179.09
6,756	4.99	1/2	.873	4.36	183.45
7,404	6.48	3/4	1.309	8.48	191.93
7,927	5.23	1/2	.873	4.57	196.50
8,392	4.65	1/2	.873	4.06	200.56
8,905	5.13	1-1/4	2.181	11.19	211.75
9,212	3.07	2	3.490	10.71	222.46
9,379	1.67	2-3/4	4.827	8.06	230.52
9,490	1.11	2-3/4	4.827	5.36	235.88
9,614	1.24	3	5.234	6.49	242.37
9,750	1.36	3	5.234	7.12	249.49
9,769	.19	3	5.234	.99	250.48

continued

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STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-105
Revised 10-1-78

API 30-025-29175

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LAND OFFICE	
OPERATOR	

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease
State ☒ Fee ☐

5. State Oil & Gas Lease No.

TYPE OF WELL

OIL WELL ☐ GAS WELL ☐ DRY ☒ OTHER ☐

TYPE OF COMPLETION

NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐

Name of Operator

Santa Fe Energy Company

Address of Operator

500 W. Illinois, Suite 500, Midland, TX 79701

Location of Well

BY LETTER D LOCATED 990 FEET FROM THE North LINE AND 990 FEET FROM

West LINE OF SEC. 19 TWP. 22S RGE. 33E NMPM

6. Date Spudded 6-22-85 16. Date T.D. Reached 8-19-85 17. Date Compl. (Ready to Prod.) P&A 10-26-85 18. Elevations (DF, RKB, RT, GR, etc.) 3692.9 GL 19. Elev. Casinghead 3718.5 KB

20. Total Depth 15390 21. Plug Back T.D. 11985 22. If Multiple Compl., How Many all 23. Intervals Drilled By all 24. Cable Tools all

25. Producing Interval(s), of this completion - Top, Bottom, Name

None

25. Was Directional Survey Made

No

26. Type Electric and Other Logs Run

CDCN Gamma Ray, BHC Acoustilog Gamma Ray, Dual Induction

27. Was Well Cored

No

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	16	688	17 1/2	360 sx Paceset Lt & 360 sx Cl C	None
10 3/4	45.5 & 40.5	4889	12 1/4	2350 sx Thrifty & 670 sx Cl C	None
7 5/8	39	12150	9 1/2	625 sx TLW & 300 Cl H	None

LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

TUBING RECORD

SIZE	DEPTH SET	PACKER SET

28. Perforation Record (Interval, size and number)

11,715-11,752' 1 JSPF (38 holes)
10,210-10,234' 1 JSPF (49 holes)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
11,715-11,752'	Set CIBP 3 - 50 sx plug @
	14,298-13,954'; 13,669-13,382'
	12,283-12,000'
10,210-10,234'	RBP @ 10,382 w/35' cmt. Set CIBP

PRODUCTION

(see attached)

29. First Production

Production Method (Flowing, gas lift, pumping - Size and type pump)

Well Status (Prod. or Shut-in)

Days of Test	Hours Tested	Choke Size	Prod'n. For Test Period —————→	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas—Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24- Hour Rate —————→	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API (Corr.)	

30. Disposition of Gas (sold, used for fuel, vented, etc.)

Test Witnessed By

31. List of Attachments

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED Billie Hood Billie Hood

TITLE Sr. Production Clerk

DATE 11-15-85

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____ 13661	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____ 9888	T. Atoka _____ 13780	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzte _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinberry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____ 4960	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs _____ 8702	T. Wingate _____	T. _____
T. Wolfcamp _____ 12049	T. Morrow _____ 14309	T. Chinle _____	T. _____
T. Penn. _____	T. Lower Morrow _____ 15130	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. Rustler _____ 924	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____	No. 4, from _____ to _____
No. 2, from _____ to _____	No. 5, from _____ to _____
No. 3, from _____ to _____	No. 6, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____	feet. _____
No. 2, from _____ to _____	feet. _____
No. 3, from _____ to _____	feet. _____
No. 4, from _____ to _____	feet. _____

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	210	210	Red Bed	11613	12044	431	Lime, Sand, Shale
210	1080	870	Red Bed & Anhydrite	12044	12914	870	Lime, Shale
1080	3485	2405	Anhydrite & Salt	12914	13264	350	Shale
3485	3804	319	Anhydrite	13264	13575	311	Shale, Lime
3804	4175	371	Anhydrite, Lime, Shale	13575	13734	159	Lime, Chert
4175	4610	435	Salt & Anhydrite	13734	13812	78	Sand, Lime, Chert
4610	9714	5104	Anhydrite	13812	13915	103	Sand, Shale, Lime
9714	4890	4824	Lime	13915	14195	280	Lime
4890	5665	775	Sand & Lime	14195	15323	1128	Chert, Lime, Sand, Shale
5665	6315	650	Lime & Shale	15323	15390	67	Shale
6315	8652	2337	Sand, Lime, Shale				
8652	9450	798	Lime, Shale				
9450	9750	300	Lime, Shale, Chert				
9750	10055	305	Shale, Lm, Sand				
10055	11613	1558	Lime, Shale				

NOV 22 1985

HOBBS OFFICE

Attachment to Form C-105
Bootleg Ridge 19 State No. 1

32. (Continued)

@ 10,200' w/35' cmt. Set RBP @ 10,276' w/35' cmt. Cut casing @ 7500'.
Set 45 sx plug from 7515' to 7415'. Set 65 sx plug from 4839' to 4939'.
Set 70 sx plug. Top of plug 4815'. Spotted plug @ 874-974'. Set 10'
plug in top. Weld on plate. Install P&A marker 10-26-85.