

Well Name and Number: Old Ranch Knoll 8 Fed. #4

Location: Sec. 8, T22S, R24E, Eddy County, New Mexico

Operator: Santa Fe Energy Resources, Inc.

Drilling Contractor: McVay Drilling Company

The undersigned certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

<u>Degrees @ Depth</u>	<u>Degrees @ Depth</u>	<u>Degrees @ Depth</u>
1 ¼ 1619	2 ¼ 5876	
1 2094	1 ½ 6375	
1 ¼ 2602	1 6807	
1 ¼ 3110	1 ¾ 7306	
1 3618	2 ¼ 7947	
1 ¾ 4123	2 ¼ 8195	
2 4402	2 8597	
1 ¼ 4662	1 ½ 8970	
2 4945	1 ¼ 9411	
3 ¼ 5254	1 ¼ 9852	
3 5348	½ 10790	
3 5441	1 11800	
3 5535		
2 ½ 5656		

Drilling Contractor: McVay Drilling Company

By: Joe W. Wagoner

Subscribed and sworn to before me this 21st day of September, 1998.

Steve Fleming

Notary Public

My Commission Expires: 8-16-01

Lea County, New Mexico