

WELL NAME AND NUMBER Rig #4 Shinnery 14 Fed No. 4
LOCATION Section 14, T18S, R32E Lea County 1980/8 + 660/E
(Give Unit, Section, Township and Range)
OPERATOR Santa Fe Energy Operating Partners, L.P.
DRILLING CONTRACTOR McVay Drilling Company

The undersigned hereby 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:

Degrees @ Depth	Degrees @ Depth	Degrees @ Depth
1/4 243	1 6,109	
1/2 415	1 6,298	
1/2 659	1 1/2 6,548	
3/4 1,277	2 1/2 6,798	
1/4 1,577	2 1/2 6,923	
3/4 1,993	1-3/4 7,048	
1 1/2 2,493	3/4 7,300	
1-3/4 2,708	3/4 7,814	
1 1/4 2,960	3 1/2 8,304	
3/4 3,485	3 1/2 8,429	
1/2 3,958	3 8,585	
1/2 4,458	2-3/4 8,750	
1/4 4,958		
3/4 5,453		
1/4 5,691		

Drilling Contractor McVay Drilling Company

By: [Signature]
Subscribed and sworn to before me this 18th day of July, 1989
[Signature]
Notary Public
My Commision Expires: 12/27/91 Lea County New Mexico