

Well Name and Number: Thistle Unit #4

Unit N

Location: Sec. 34, T23S, R33E, Lea County, New Mexico

660/S & 1980/W

Operator: Santa Fe Energy Resources, Inc.

30-025-34456

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:

Degrees @ Depth		Degrees @ Depth		Degrees @ Depth	
½	205	1 ¾	7467		
1	605	¾	7913		
1	1084	2	8412		
½	1552	1 ¾	8680		
1 ½	2090	1 ¼	9000		
1 ¼	2574	1	9481		
1	3074	2	9932		
1 ½	3558	1 ¾	10189		
1 ¾	4032	1 ¼	10505		
1 ¼	4511	1 ¼	10856		
1 ¼	5011	1 ½	11818		
2 ¼	5510	1 ¾	11943		
1 ¾	6009	¾	12197		
1 ¾	6505	1 ¾	12640		
1	6995	½	13135		
		1	13625		

Drilling Contractor: McVay Drilling Company

By: Joe Hlyang

Subscribed and sworn to before me this 2nd day of December, 1998.

Steve Adams  
Notary Public

My Commission Expires: 8-16-01

Lea County, New Mexico