

Well Name and Number: Hackberry 31 State #1

Location: Sec. 31, T22S, R26E, Eddy County, New Mexico

Operator: Penwell Energy

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	
1/2	255	1 1/2	5608	2 1/4	10192
5 1/2	604	1	6052	2 3/4	10362
5 1/4	685	1	7039	2	10581
5	755	1 3/4	7258	2	11106
4	854	2	7414	2 3/4	11500
3 1/4	967	2 3/4	7570	2 1/4	11720
3	1466	2	7700		
2	1600	2	7790		
1	1742	1 1/2	7944		
1	2113	1	8315		
1/2	2612	3/4	8814		
1	3111	1 1/4	9262		
3/4	3606	1	9420		
3/4	4101	2	9604		
1/4	4601	2	9780		
1	5099	2	10003		

Drilling Contractor: McVay Drilling Company

By: *Michael M. [Signature]*

Subscribed and sworn to before me this 13th day of August, 1998.

Dina Hemers
Notary Public

My Commission Expires: 8-16-01

Lea County, New Mexico

TO REPLACE THE INCLINATION THAT WAS ORIGINALLY SENT JUNE 17, 1997