

Well Name and Number: James Buchanan 33 State #1

Location: Sec. 33, T18S, R28E, Eddy County, New Mexico

Operator: Marathon Oil Company

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 ¼ 432	2 5959	1 ¾ 10841
1 944	1 ½ 6209	1 ½ 11098
1 1444	¾ 6708	
¾ 1933	¼ 7200	
1 ½ 2308	1 ½ 7707	
1 ½ 2554	1 ¼ 8172	
1 ¾ 2973	1 8672	
1 ½ 3481	2 9182	
1 3967	2 ¼ 9205	
1 ¼ 4465	2 ¼ 9430	
1 ½ 4962	1 ½ 10199	
1 ½ 5462	1 ¼ 10359	

Drilling Contractor: McVay Drilling Company

By: [Signature]

Subscribed and sworn to before me this 19th day of December, 1997.

[Signature]  
Notary Public

My Commission Expires: 8-16-2001

Lea County, New Mexico