



# BEARCAT DRILLING

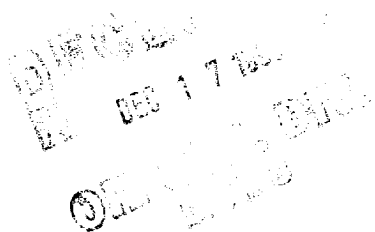
P. O. Box 717

Farmington, New Mexico 87499

Office: (505) 327-5218 ■ FAX: (505) 564-9185

November 17, 1999

Mallon Oil Company  
Attn: Christy Serrano  
P.O. Box 2797  
Durango, CO 81302



Re: Deviation Survey Record  
Jicarilla 459 SJ #2  
Section 20-T30N-R3W  
Rio Arriba County, NM

Dear Ms. Serrano:

The following are the deviation surveys conducted by our Rig #1 crews on the above referenced well.

Depth	Deviation Degrees	Depth	Deviation Degrees	Depth	Deviation Degrees
90'	1/2	209'	1/2	711'	1
1253'	1/2	1739'	1-1/2	2100'	1

Bearcat Drilling Company

Larry Martinez  
Asst. Superintendent

Subscribed and sworn before me on this the 17th day of November, 1999

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G. R. Mahan  
San Juan County, NM