

WELL NAME AND NUMBER Hiawatha Federal Com #1
LOCATION Section 10, T-17-S, R-28-E, Eddy County, New Mexico
OPERATOR Chi Energy Inc., 212 N. Main, Suite 200, Midland, Texas 79701
DRILLING CONTRACTOR TMBR/Sharp Drilling, Inc., P. O. Drawer 10970, Midland, TX 79702

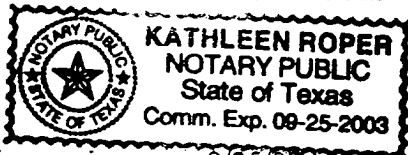
The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

Degrees @ Depth	Degrees @ Depth	Degrees @ Depth	Degrees @ Depth
.75 @ 224'	1.75 @ 5,350'		
.25 @ 319'	1.75 @ 5,631'		
.25 @ 359'	1.25 @ 6,368'		
.50 @ 632'	1.00 @ 6,846'		
.75 @ 944'	1.50 @ 7,347'		
.50 @ 1,344'	1.25 @ 7,763'		
1.00 @ 1,784'	1.25 @ 8,141'		
1.25 @ 2,000'	.75 @ 8,602'		
1.25 @ 2,360'	1.00 @ 8,800'		
1.00 @ 2,662'	1.00 @ 9,310'		
.75 @ 3,008'	.75 @ 9,542'		
1.00 @ 3,410'	.75 @ 9,830'		
1.00 @ 3,755'	1.00 @ 10,198'		
1.25 @ 4,131'			
1.75 @ 4,943'			

Drilling Contractor TMBR/Sharp Drilling, Inc.

By Jeffrey D. Phillips
Jeffrey D. Phillips, Vice President

Subscribed and sworn to before me this 17th day of September 2000



Kathleen Roper
Notary Public Kathleen Roper

Commission expires: 9/25/03

Midland County, Texas