

AUG 23 2001

WELL NAME AND NUMBER Buchanan 5-1 - G 2365/N 1641/E

LOCATION Section 5, T-17-S, R-37-E, Lea County, New Mexico 30-025-35625

OPERATOR Chesapeake Operating, Inc., P.O. Box 18496, Oklahoma City, OK 73154-0496

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:

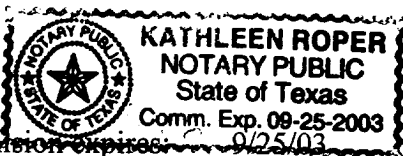
Degrees @ Depth	Degrees @ Depth	Degrees @ Depth	Degrees @ Depth
.25 @ 270'	2.00 @ 5,029'	.50 @ 9,389'	
1.00 @ 500'	1.75 @ 5,258'	3.50 @ 9,545'	
.50 @ 732'	1.75 @ 5,645'	3.50 @ 9,766'	
1.00 @ 952'	1.75 @ 5,869'	3.75 @ 10,140'	
1.00 @ 2,044'	1.75 @ 6,227'	3.75 @ 10,298'	
2.75 @ 3,019'	1.75 @ 6,951'	3.50 @ 10,451'	
2.00 @ 3,273'	1.25 @ 7,193'	2.50 @ 10,618'	
2.00 @ 3,366'	1.50 @ 7,457'	1.75 @ 10,869'	
1.75 @ 3,470'	1.50 @ 7,697'	2.25 @ 11,325'	
1.00 @ 3,579'	1.50 @ 7,916'		
.25 @ 3,704'	1.50 @ 8,199'		
.50 @ 3,954'	1.50 @ 8,477'		
.75 @ 4,175'	1.75 @ 8,689'		
1.25 @ 4,442'	2.00 @ 8,909'		
1.00 @ 4,753'	2.00 @ 9,107'		

Drilling Contractor TMBR/Sharp Drilling, Inc.

By Jeffrey D. Phillips

Jeffrey D. Phillips, Vice President

Subscribed and sworn to before me this 21st day of August 2001



Kathleen Roper  
Notary Public Kathleen Roper

Commission Expires 9/25/03

Midland County, Texas