



October 9, 1969

Pat State Comm. No. 1 Deviation Survey

1/4° @ 425'  
3/4° @ 925'  
3/4° @ 1325'  
1/2° @ 2121'  
3/4° @ 2823'  
1/4° @ 3225'  
3/4° @ 3765'  
1° @ 4110'  
1/2° @ 4485'  
3/4° @ 4990'  
1° @ 5484'  
1/2° @ 5980'  
3/4° @ 6480'  
3/4° @ 6988'  
3/4° @ 7085'  
1/4° @ 7341'  
1/2° @ 7585'  
1/2° @ 7750'  
1° @ 8250'  
1/2° @ 8486'  
1/2° @ 8660'  
1/2° @ 8945'  
3/4° @ 9100'  
1/4° @ 9300'  
1/2° @ 9540'  
1/4° @ 9955'

I hereby certify that the deviation surveys reported herein are true and correct to the best of my knowledge and belief.

  
Harold S. Winston  
Petroleum Engineer

  
Carolyn K. Smith  
Notary Public in and for Tarrant County,  
Texas.