

Patterson Drilling Company

410 N. Loraine Street — (915) 682-9401
Midland, Texas 79701

February 23, 1999

Burlington Resources Oil & Gas
P. O. Box 51810
Midland, TX 79710

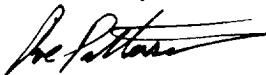
Re: Merphan 16 State #1
Eddy County, New Mexico

Gentlemen:

The following is a deviation survey on the above-referenced well located in Eddy County, New Mexico.

218' - 0.75°	5343' - 1.25°	10090' - 2.31°	12442' - 26.21°	13074' - 93.70°
400' - 0.50°	5823' - 0.25°	10184' - 2.21°	12506' - 26.40°	13092' - 92.10°
625' - 0.50°	6236' - 0.75°	10277' - 2.30°	12537' - 41.92°	13102' - 91.52°
1090' - 2.00°	6750' - 1.25°	10468' - 1.96°	12569' - 44.97°	13134' - 91.20°
1312' - 2.50°	7230' - 1.50°	10563' - 1.96°	12601' - 47.92°	13165' - 92.18°
1535' - 2.00°	7677' - 2.00°	10753' - 1.86°	12631' - 51.69°	13196' - 90.34°
1771' - 1.00°	8029' - 1.00°	10946' - 1.50°	12694' - 61.08°	13227' - 86.40°
2262' - 1.25°	8730' - 2.25°	11261' - 1.25°	12725' - 69.19°	13258' - 84.95°
2741' - 1.50°	8984' - 2.75°	11704' - 1.00°	12756' - 77.25°	
3091' - 1.00°	9142' - 2.50°	12177' - 1.75°	12820' - 86.07°	
3346' - 1.50°	9364' - 2.75°	12284' - 2.28°	12883' - 87.36°	
3602' - 1.50°	9744' - 4.50°	12316' - 6.50°	12898' - 88.37°	
3745' - 2.00°	9929' - 4.00°	12347' - 11.52°	12946' - 93.00°	
4352' - 2.00°	9993' - 3.44°	12379' - 16.01°	12977' - 93.10°	
4862' - 1.50°	10057' - 2.34°	12411' - 20.91°	13008' - 94.50°	

Sincerely,

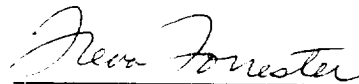


Roe Patterson

STATE OF TEXAS)
COUNTY OF MIDLAND)

The foregoing was acknowledged before me this 23rd day of February, 1999 by
Roe Patterson.

MY COMMISSION EXPIRES:



NOTARY PUBLIC

