

# A Gyrodata Directional Survey

## CONCHO RESOURCES

Well: FILAREE 18 FEDERAL WELL #1, 4-1/2" DRILLPIPE  
Location: PATTERSON #144, EDDY COUNTY, NEW MEXICO  
Job Number: MD0701GME269

| MEASURED<br>DEPTH<br>feet | I N C L<br>deg. | A Z I M U T H<br>deg. | V E R T I C A L<br>SECTION<br>feet | D O G L E G<br>SEVERITY<br>deg./<br>100 ft. | V E R T I C A L<br>DEPTH<br>feet | C L O S U R E<br>DIST. AZIMUTH<br>feet deg. | H O R I Z O N T A L<br>COORDINATES<br>feet |
|---------------------------|-----------------|-----------------------|------------------------------------|---------------------------------------------|----------------------------------|---------------------------------------------|--------------------------------------------|
| 2100.0                    | 0.67            | 46.97                 | 29.4                               | 0.29                                        | 2099.5                           | 36.5 7.0                                    | 36.24 N 4.48 E                             |
| 2200.0                    | 0.64            | 52.29                 | 30.6                               | 0.06                                        | 2199.5                           | 37.4 8.2                                    | 36.99 N 5.35 E                             |
| 2300.0                    | 0.71            | 54.38                 | 31.7                               | 0.07                                        | 2299.5                           | 38.2 9.5                                    | 37.69 N 6.30 E                             |
| 2400.0                    | 0.55            | 62.56                 | 32.8                               | 0.18                                        | 2399.5                           | 38.9 10.7                                   | 38.27 N 7.23 E                             |
| 2500.0                    | 0.73            | 69.42                 | 33.8                               | 0.20                                        | 2499.5                           | 39.6 12.0                                   | 38.72 N 8.25 E                             |
| 2600.0                    | 0.70            | 72.23                 | 34.9                               | 0.05                                        | 2599.4                           | 40.2 13.5                                   | 39.13 N 9.43 E                             |
| 2700.0                    | 0.59            | 77.81                 | 35.9                               | 0.12                                        | 2699.4                           | 40.8 14.9                                   | 39.42 N 10.52 E                            |
| 2800.0                    | 0.77            | 76.71                 | 36.9                               | 0.17                                        | 2799.4                           | 41.4 16.4                                   | 39.69 N 11.67 E                            |
| 2900.0                    | 0.79            | 77.34                 | 38.0                               | 0.02                                        | 2899.4                           | 42.1 18.0                                   | 39.99 N 13.00 E                            |
| 3000.0                    | 0.91            | 79.25                 | 39.2                               | 0.13                                        | 2999.4                           | 42.8 19.7                                   | 40.29 N 14.45 E                            |
| 3100.0                    | 0.97            | 80.79                 | 40.5                               | 0.06                                        | 3099.4                           | 43.6 21.6                                   | 40.57 N 16.06 E                            |
| 3200.0                    | 0.97            | 75.68                 | 41.9                               | 0.09                                        | 3199.4                           | 44.6 23.4                                   | 40.92 N 17.72 E                            |
| 3300.0                    | 1.06            | 76.20                 | 43.4                               | 0.09                                        | 3299.4                           | 45.7 25.2                                   | 41.35 N 19.43 E                            |
| 3400.0                    | 1.03            | 73.18                 | 45.0                               | 0.06                                        | 3399.4                           | 46.9 26.9                                   | 41.83 N 21.19 E                            |
| 3500.0                    | 1.39            | 77.07                 | 46.7                               | 0.36                                        | 3499.3                           | 48.3 28.7                                   | 42.36 N 23.23 E                            |
| 3600.0                    | 1.50            | 75.86                 | 48.9                               | 0.12                                        | 3599.3                           | 50.0 30.9                                   | 42.95 N 25.68 E                            |
| 3700.0                    | 1.65            | 74.70                 | 51.2                               | 0.15                                        | 3699.3                           | 52.0 33.0                                   | 43.65 N 28.34 E                            |
| 3800.0                    | 1.77            | 71.69                 | 53.8                               | 0.15                                        | 3799.2                           | 54.4 35.0                                   | 44.52 N 31.20 E                            |
| 3900.0                    | 1.48            | 74.08                 | 56.3                               | 0.29                                        | 3899.2                           | 56.6 36.8                                   | 45.36 N 33.91 E                            |
| 4000.0                    | 1.29            | 82.71                 | 58.2                               | 0.28                                        | 3999.1                           | 58.5 38.3                                   | 45.85 N 36.27 E                            |
| 4100.0                    | 1.26            | 87.73                 | 59.9                               | 0.12                                        | 4099.1                           | 60.0 39.9                                   | 46.04 N 38.49 E                            |
| 4200.0                    | 0.99            | 96.21                 | 61.2                               | 0.32                                        | 4199.1                           | 61.3 41.3                                   | 45.99 N 40.46 E                            |
| 4300.0                    | 0.98            | 100.39                | 62.2                               | 0.07                                        | 4299.1                           | 62.2 42.7                                   | 45.74 N 42.16 E                            |
| 4400.0                    | 0.88            | 104.60                | 63.0                               | 0.12                                        | 4399.1                           | 63.0 43.9                                   | 45.40 N 43.74 E                            |