

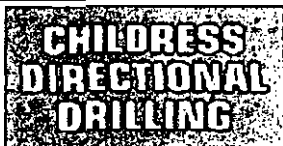
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JUL 19 2013

NMOOD ARTESIA

30-015-41165

|                                  |                              |                  |
|----------------------------------|------------------------------|------------------|
| Customer: Lime Rock Resources    | Rlg: Unit # 331              | Lat: _____       |
| Lease, Well No.: Kersey State #6 | Job No.: CD-13058            | Long: _____      |
| County or Parrish: Eddy Co.      | Location or Area: New Mexico | Mag.Decl.: 7.67° |



| Horizontal Targets          |     |  |
|-----------------------------|-----|--|
| Calculated $\theta$ Targets | TVD |  |
| K                           | N/S |  |
| Dip Angle (+Dn/-Up)         | E/W |  |

| Tie-In Survey Co.:     |      |       |      |     |        | Minimum Curvature Calculations |          |            | Rates / 100' M.D. |         | Dist $\theta$ Target Line |          |
|------------------------|------|-------|------|-----|--------|--------------------------------|----------|------------|-------------------|---------|---------------------------|----------|
| Surveying Company: VES |      |       |      |     |        | Proposed Azimuth: 281.56°      |          |            | Build or          | R or -L | Above or                  | Right or |
| Survey No              | M.D. | INCL. | AZM. | TVD | N / -S | E / -W                         | V. SECT. | DLS / 100' | -Drop             | Turn    | -Below                    | -Left    |

|        |         |      |        |          |       |         |        |       |  |  |  |  |
|--------|---------|------|--------|----------|-------|---------|--------|-------|--|--|--|--|
| Tie-In | 0.00    | 0.00 | 0.00   | 0.00     | 0.00  | 0.00    | 0.00   | 0.00  |  |  |  |  |
| 1.     | 492.00  | 0.40 | 309.60 | 492.00   | 1.09  | -1.33   | 1.52   | 0.08° |  |  |  |  |
| 2.     | 522.00  | 0.60 | 318.80 | 521.99   | 1.28  | -1.51   | 1.73   | 0.72° |  |  |  |  |
| 3.     | 604.00  | 2.60 | 295.40 | 603.96   | 2.37  | -3.41   | 3.81   | 2.39° |  |  |  |  |
| 4.     | 701.00  | 3.90 | 288.60 | 700.81   | 4.33  | -8.45   | 9.14   | 1.49° |  |  |  |  |
| 5.     | 797.00  | 5.30 | 286.30 | 796.50   | 6.61  | -15.80  | 16.80  | 1.47° |  |  |  |  |
| 6.     | 893.00  | 5.00 | 287.00 | 892.11   | 9.08  | -24.05  | 25.38  | 0.32° |  |  |  |  |
| 7.     | 989.00  | 4.60 | 288.70 | 987.77   | 11.64 | -31.70  | 33.37  | 0.44° |  |  |  |  |
| 8.     | 1085.00 | 5.30 | 281.20 | 1,083.41 | 13.63 | -39.70  | 41.62  | 0.99° |  |  |  |  |
| 9.     | 1182.00 | 5.80 | 281.30 | 1,179.96 | 15.46 | -48.90  | 51.00  | 0.52° |  |  |  |  |
| 10.    | 1278.00 | 5.80 | 280.30 | 1,275.47 | 17.28 | -58.43  | 60.70  | 0.11° |  |  |  |  |
| 11.    | 1374.00 | 5.20 | 279.60 | 1,371.03 | 18.87 | -67.49  | 69.90  | 0.63° |  |  |  |  |
| 12.    | 1470.00 | 4.90 | 279.60 | 1,466.66 | 20.28 | -75.82  | 78.36  | 0.31° |  |  |  |  |
| 13.    | 1567.00 | 4.70 | 280.50 | 1,563.31 | 21.70 | -83.81  | 86.46  | 0.22° |  |  |  |  |
| 14.    | 1663.00 | 4.60 | 281.20 | 1,659.00 | 23.16 | -91.45  | 94.24  | 0.12° |  |  |  |  |
| 15.    | 1759.00 | 2.90 | 269.40 | 1,754.79 | 23.89 | -97.66  | 100.47 | 1.94° |  |  |  |  |
| 16.    | 1855.00 | 1.50 | 269.20 | 1,850.72 | 23.62 | -101.32 | 104.00 | 1.51° |  |  |  |  |
| 17.    | 1951.00 | 0.60 | 151.10 | 1,946.70 | 22.95 | -102.31 | 104.84 | 1.85° |  |  |  |  |
| 18.    | 2048.00 | 0.60 | 142.80 | 2,043.70 | 22.10 | -101.76 | 104.13 | 0.09° |  |  |  |  |
| 19.    | 2144.00 | 0.60 | 155.20 | 2,139.69 | 21.24 | -101.25 | 103.45 | 0.13° |  |  |  |  |
| 20.    | 2240.00 | 0.70 | 150.20 | 2,235.69 | 20.28 | -100.74 | 102.76 | 0.12° |  |  |  |  |
| 21.    | 2336.00 | 0.80 | 148.80 | 2,331.68 | 19.20 | -100.11 | 101.92 | 0.11° |  |  |  |  |
| 22.    | 2432.00 | 0.80 | 155.20 | 2,427.67 | 18.01 | -99.48  | 101.07 | 0.09° |  |  |  |  |
| 23.    | 2528.00 | 0.90 | 161.00 | 2,523.66 | 16.69 | -98.95  | 100.29 | 0.14° |  |  |  |  |
| 24.    | 2624.00 | 0.40 | 33.00  | 2,619.66 | 16.26 | -98.52  | 99.78  | 1.24° |  |  |  |  |
| 25.    | 2720.00 | 0.40 | 34.90  | 2,715.65 | 16.82 | -98.15  | 99.53  | 0.01° |  |  |  |  |
| 26.    | 2817.00 | 0.40 | 35.80  | 2,812.65 | 17.37 | -97.76  | 99.25  | 0.01° |  |  |  |  |
| 27.    | 2912.00 | 0.40 | 27.20  | 2,907.65 | 17.93 | -97.41  | 99.03  | 0.06° |  |  |  |  |
| 28.    | 3009.00 | 0.40 | 19.30  | 3,004.65 | 18.55 | -97.14  | 98.89  | 0.06° |  |  |  |  |
| 29.    | 3105.00 | 0.40 | 30.50  | 3,100.64 | 19.16 | -96.86  | 98.74  | 0.08° |  |  |  |  |
| 30.    | 3201.00 | 0.80 | 26.00  | 3,196.64 | 20.05 | -96.40  | 98.46  | 0.42° |  |  |  |  |
| 31.    | 3297.00 | 0.90 | 23.10  | 3,292.63 | 21.35 | -95.81  | 98.14  | 0.11° |  |  |  |  |
| 32.    | 3394.00 | 0.30 | 320.40 | 3,389.62 | 22.24 | -95.67  | 98.19  | 0.83° |  |  |  |  |
| 33.    | 3490.00 | 0.30 | 289.40 | 3,485.62 | 22.52 | -96.07  | 98.63  | 0.17° |  |  |  |  |
| 34.    | 3586.00 | 0.40 | 309.70 | 3,581.62 | 22.82 | -96.57  | 99.18  | 0.16° |  |  |  |  |
| 35.    | 3682.00 | 0.60 | 305.80 | 3,677.62 | 23.33 | -97.23  | 99.93  | 0.21° |  |  |  |  |
| 36.    | 3779.00 | 0.40 | 134.40 | 3,774.62 | 23.39 | -97.40  | 100.11 | 1.03° |  |  |  |  |