

# DEVON ENERGY

Los Medanos

Eddy County, NM

North Pure Gold "9" Federal #18

VH - Job #32K0311239

30-015-37616

RECEIVED

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NMOCD ARTESIA

Survey: Actual

## SDI Standard Survey Report

07 April, 2011

This survey is correct to the best of my knowledge and is supported by actual field data.

Cl. Hart

Notarized this date 7th of April, 2011.

Carrie Reed

Notary Signature  
County of Midland  
State of Texas



Scientific Drilling  
Directional Drilling Operations

**Scientific Drilling International, Inc.**  
SDI Standard Survey Report



|                  |                                 |                                     |                                      |
|------------------|---------------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | DEVON ENERGY                    | <b>Local Co-ordinate Reference:</b> | Well North Pure Gold "9" Federal #18 |
| <b>Project:</b>  | Los Medanos                     | <b>TVD Reference:</b>               | WELL @ 0.0usft (Original Well Elev)  |
| <b>Site:</b>     | Eddy County, NM                 | <b>MD Reference:</b>                | WELL @ 0.0usft (Original Well Elev)  |
| <b>Well:</b>     | North Pure Gold "9" Federal #18 | <b>North Reference:</b>             | Grid                                 |
| <b>Wellbore:</b> | VH - Job #32K0311239            | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | VH - Job #32K0311239            | <b>Database:</b>                    | EDM-Regulatory                       |

|             |                                      |               |                |
|-------------|--------------------------------------|---------------|----------------|
| Project     | Los Medanos                          |               |                |
| Map System: | US State Plane 1927 (Exact solution) | System Datum: | Mean Sea Level |
| Geo Datum:  | NAD 1927 (NADCON CONUS)              |               |                |
| Map Zone:   | New Mexico East 3001                 |               |                |

|                       |          |                 |                 |                   |                   |
|-----------------------|----------|-----------------|-----------------|-------------------|-------------------|
| Site                  |          | Eddy County, NM |                 |                   |                   |
| Site Position:        |          | Northing:       | 477,693.54 usft | Latitude:         | 32° 18' 43.760 N  |
| From:                 | Lat/Long | Easting:        | 665,747.30 usft | Longitude:        | 103° 47' 48.600 W |
| Position Uncertainty: | 0.0 usft | Slot Radius:    | 0"              | Grid Convergence: | 0.29 °            |

|                      |                                                     |          |                     |                 |               |                   |
|----------------------|-----------------------------------------------------|----------|---------------------|-----------------|---------------|-------------------|
| Well                 | North Pure Gold "9" Federal #18, Directional (Cudd) |          |                     |                 |               |                   |
| Well Position        | +N/-S                                               | 0 0 usft | Northing:           | 478,228 67 usft | Latitude:     | 32° 18' 48 770 N  |
|                      | +E/-W                                               | 0 0 usft | Easting:            | 671,415 55 usft | Longitude:    | 103° 46' 42 520 W |
| Position Uncertainty |                                                     | 0 0 usft | Wellhead Elevation: | usft            | Ground Level: | 0 0 usft          |

|           |  |            |  |             |  |                      |  |               |  |                     |  |
|-----------|--|------------|--|-------------|--|----------------------|--|---------------|--|---------------------|--|
| Wellbore  |  |            |  |             |  | VH - Job #32K0311239 |  |               |  |                     |  |
| Magnetics |  | Model Name |  | Sample Date |  | Declination (°)      |  | Dip Angle (°) |  | Field Strength (nT) |  |
|           |  | IGRF2010   |  | 3/15/2011   |  | 7 72                 |  | 60 24         |  | 48,699              |  |

|                   |  |                            |                 |                 |                   |
|-------------------|--|----------------------------|-----------------|-----------------|-------------------|
| Design            |  | VH - Job #32K0311239       |                 |                 |                   |
| Audit Notes:      |  |                            |                 |                 |                   |
| Version:          |  | 1 0                        | Phase:          | ACTUAL          | Tie On Depth: 0 0 |
| Vertical Section: |  | Depth From (TVD)<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Direction<br>(°)  |
|                   |  | 0 0                        | 0 0             | 0 0             | 359 68            |

|                |              |                               |          |           |             |
|----------------|--------------|-------------------------------|----------|-----------|-------------|
| Survey Program |              | Date                          | 4/7/2011 |           |             |
| From<br>(usft) | To<br>(usft) | Survey (Wellbore)             |          | Tool Name | Description |
| 100.0          | 13,214.0     | Actual (VH - Job #32K0311239) |          | Keeper    | Keeper Gyro |

| Survey                   |                    |                |                        |                       |                     |                        |                            |      |
|--------------------------|--------------------|----------------|------------------------|-----------------------|---------------------|------------------------|----------------------------|------|
| Measured Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | True Vertical<br>Depth | North/South<br>(usft) | East/West<br>(usft) | Closure Azimuth<br>(°) | Closure Distance<br>(usft) |      |
| 0 0                      | 0 00               | 0 00           | 0 0                    | 0 0                   | 0 0                 | 0 00                   |                            | 0 0  |
| 100 0                    | 0 48               | 269 39         | 100 0                  | 0 0                   | -0 4                | 269 39                 |                            | 0 4  |
| 200 0                    | 0 40               | 251 93         | 200 0                  | -0 1                  | -1 2                | 264 28                 |                            | 1 2  |
| 300 0                    | 0 51               | 258 18         | 300 0                  | -0 3                  | -1 9                | 260 72                 |                            | 2 0  |
| 400 0                    | 0 98               | 274 20         | 400 0                  | -0 3                  | -3 2                | 263 89                 |                            | 3 2  |
| 500 0                    | 1 35               | 278 48         | 500 0                  | -0 1                  | -5 2                | 268 81                 |                            | 5 2  |
| 600 0                    | 1 33               | 276 15         | 599 9                  | 0 2                   | -7 6                | 271 43                 |                            | 7 6  |
| 700 0                    | 1 21               | 282 45         | 699 9                  | 0 5                   | -9 7                | 273 18                 |                            | 9 8  |
| 800 0                    | 1 09               | 286 41         | 799 9                  | 1 0                   | -11 7               | 275 07                 |                            | 11 7 |
| 900 0                    | 1 00               | 286 91         | 899 9                  | 1 6                   | -13 4               | 276 62                 |                            | 13 5 |
| 1,000 0                  | 0 91               | 284 98         | 999 9                  | 2 0                   | -15 0               | 277 65                 |                            | 15 2 |
| 1,100 0                  | 0 89               | 293 19         | 1,099 8                | 2 5                   | -16 5               | 278 71                 |                            | 16 7 |

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| <b>Project:</b>  | Los Medanos                     | <b>TVD Reference:</b>               | WELL @ 0 0usft (Original Well Elev)  |
| <b>Site:</b>     | Eddy County, NM                 | <b>MD Reference:</b>                | WELL @ 0 0usft (Original Well Elev)  |
| <b>Well:</b>     | North Pure Gold "9" Federal #18 | <b>North Reference:</b>             | Grid                                 |
| <b>Wellbore:</b> | VH - Job #32K0311239            | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | VH - Job #32K0311239            | <b>Database:</b>                    | EDM-Regulatory                       |

| Survey                   |                    |                |                        |                       |                     |                        |                            |
|--------------------------|--------------------|----------------|------------------------|-----------------------|---------------------|------------------------|----------------------------|
| Measured Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | True Vertical<br>Depth | North/South<br>(usft) | East/West<br>(usft) | Closure Azimuth<br>(°) | Closure Distance<br>(usft) |
| 1,200 0                  | 0.86               | 290.78         | 1,199 8                | 3 1                   | -17 9               | 279 81                 | 18 2                       |
| 1,300 0                  | 0 80               | 288 70         | 1,299 8                | 3 6                   | -19 3               | 280 54                 | 19 6                       |
| 1,400 0                  | 0 79               | 284 37         | 1,399 8                | 4 0                   | -20 6               | 280 94                 | 21 0                       |
| 1,500 0                  | 0 85               | 285 60         | 1,499.8                | 4 4                   | -22 0               | 281 20                 | 22 4                       |
| 1,600 0                  | 0 71               | 277.97         | 1,599 8                | 4 6                   | -23 3               | 281 25                 | 23 8                       |
| 1,700 0                  | 0 74               | 273 83         | 1,699 8                | 4 8                   | -24 6               | 280 98                 | 25 1                       |
| 1,800.0                  | 0 74               | 271.36         | 1,799.8                | 4 8                   | -25 9               | 280 57                 | 26 3                       |
| 1,900 0                  | 0 76               | 271.51         | 1,899 8                | 4 9                   | -27 2               | 280 14                 | 27 6                       |
| 2,000 0                  | 0 74               | 279 92         | 1,999 8                | 5 0                   | -28 5               | 279 94                 | 28 9                       |
| 2,100.0                  | 0 74               | 267 82         | 2,099 8                | 5 1                   | -29 8               | 279 68                 | 30 2                       |
| 2,200 0                  | 0 77               | 271.30         | 2,199 7                | 5 1                   | -31 1               | 279 26                 | 31 5                       |
| 2,300 0                  | 0 89               | 271 23         | 2,299 7                | 5 1                   | -32 5               | 278 91                 | 32 9                       |
| 2,400 0                  | 1 02               | 267.46         | 2,399.7                | 5 1                   | -34.2               | 278 45                 | 34 6                       |
| 2,500 0                  | 1.19               | 276 78         | 2,499 7                | 5 2                   | -36 1               | 278 13                 | 36 5                       |
| 2,600 0                  | 1 03               | 273 91         | 2,599 7                | 5 3                   | -38 1               | 278 00                 | 38 4                       |
| 2,700 0                  | 1 53               | 275 14         | 2,699 7                | 5 5                   | -40 3               | 277.81                 | 40 7                       |
| 2,800 0                  | 2 03               | 271 63         | 2,799.6                | 5 7                   | -43 4               | 277 48                 | 43 8                       |
| 2,900.0                  | 2 53               | 270 05         | 2,899 5                | 5 7                   | -47 4               | 276 92                 | 47 7                       |
| 3,000 0                  | 2 43               | 270 92         | 2,999 4                | 5 8                   | -51 7               | 276 39                 | 52 0                       |
| 3,100 0                  | 2 31               | 270 15         | 3,099 4                | 5 8                   | -55 8               | 275 96                 | 56 1                       |
| 3,200 0                  | 1 64               | 274 63         | 3,199 3                | 5 9                   | -59.3               | 275.73                 | 59 6                       |
| 3,300 0                  | 0 73               | 278.74         | 3,299 3                | 6 2                   | -61 3               | 275 73                 | 61.6                       |
| 3,400 0                  | 0 18               | 120.38         | 3,399 3                | 6 2                   | -61 8               | 275 70                 | 62 1                       |
| 3,500.0                  | 0 21               | 85 93          | 3,499 3                | 6 1                   | -61 5               | 275 67                 | 61 8                       |
| 3,600 0                  | 0 81               | 90 48          | 3,599 3                | 6 1                   | -60 6               | 275 76                 | 60 9                       |
| 3,700 0                  | 1 32               | 96 50          | 3,699 2                | 6 0                   | -58 8               | 275 81                 | 59 1                       |
| 3,800 0                  | 1 88               | 104 05         | 3,799 2                | 5 5                   | -56 0               | 275 56                 | 56 3                       |
| 3,900 0                  | 1 98               | 108 08         | 3,899 1                | 4 5                   | -52 8               | 274 89                 | 53 0                       |
| 4,000 0                  | 1 85               | 107 53         | 3,999 1                | 3 5                   | -49 6               | 274 03                 | 49 7                       |
| 4,100 0                  | 1 38               | 112 45         | 4,099 1                | 2 5                   | -47.0               | 273 11                 | 47 0                       |
| 4,200.0                  | 0 83               | 113 58         | 4,199 0                | 1 8                   | -45 2               | 272 28                 | 45 2                       |
| 4,300 0                  | 0 68               | 109.22         | 4,299 0                | 1 3                   | -43 9               | 271 71                 | 44 0                       |
| 4,400.0                  | 0 59               | 112 93         | 4,399 0                | 0 9                   | -42 9               | 271 22                 | 42.9                       |
| 4,500 0                  | 0 51               | 110 48         | 4,499 0                | 0 6                   | -42 0               | 270 76                 | 42 0                       |
| 4,600 0                  | 0 36               | 107 53         | 4,599 0                | 0 3                   | -41 3               | 270 43                 | 41 3                       |
| 4,700.0                  | 0 19               | 73 35          | 4,699 0                | 0 3                   | -40 8               | 270 37                 | 40 8                       |
| 4,800 0                  | 0 31               | 92 26          | 4,799 0                | 0 3                   | -40 4               | 270 43                 | 40 4                       |
| 4,900 0                  | 0 31               | 82 85          | 4,899 0                | 0 3                   | -39 9               | 270 46                 | 39 9                       |
| 5,000 0                  | 0 13               | 89 58          | 4,999 0                | 0 4                   | -39 5               | 270 52                 | 39 5                       |
| 5,100 0                  | 0 12               | 84 58          | 5,099 0                | 0 4                   | -39.3               | 270.54                 | 39 3                       |
| 5,200 0                  | 0 09               | 71.12          | 5,199 0                | 0 4                   | -39.1               | 270 59                 | 39 1                       |
| 5,300 0                  | 0 11               | 97 90          | 5,299 0                | 0 4                   | -38 9               | 270 61                 | 38 9                       |
| 5,400 0                  | 0 06               | 106 08         | 5,399 0                | 0 4                   | -38 8               | 270 57                 | 38 8                       |
| 5,500 0                  | 0 10               | 148 48         | 5,499.0                | 0 3                   | -38 7               | 270 44                 | 38 7                       |

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| <b>Site:</b>     | Eddy County, NM                 | <b>MD Reference:</b>                | WELL @ 0 0usft (Original Well Elev)  |
| <b>Well:</b>     | North Pure Gold "9" Federal #18 | <b>North Reference:</b>             | Grid                                 |
| <b>Wellbore:</b> | VH - Job #32K0311239            | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | VH - Job #32K0311239            | <b>Database:</b>                    | EDM-Regulatory                       |

| Survey                   |                    |                |                        |                       |                     |                        |                            |
|--------------------------|--------------------|----------------|------------------------|-----------------------|---------------------|------------------------|----------------------------|
| Measured Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | True Vertical<br>Depth | North/South<br>(usft) | East/West<br>(usft) | Closure Azimuth<br>(°) | Closure Distance<br>(usft) |
| 5,600 0                  | 0 04               | 215 49         | 5,599 0                | 0 2                   | -38 7               | 270 29                 | 38 7                       |
| 5,700 0                  | 0 04               | 267 78         | 5,699 0                | 0 2                   | -38 7               | 270 25                 | 38 7                       |
| 5,800 0                  | 0 07               | 281 67         | 5,799 0                | 0 2                   | -38 8               | 270 26                 | 38 8                       |
| 5,900 0                  | 0 05               | 8 71           | 5,899 0                | 0 2                   | -38 9               | 270 34                 | 38 9                       |
| 6,000 0                  | 0 05               | 311 38         | 5,999 0                | 0 3                   | -38 9               | 270 45                 | 38 9                       |
| 6,100 0                  | 0 17               | 282 23         | 6,099 0                | 0 4                   | -39 1               | 270 54                 | 39 1                       |
| 6,200 0                  | 0 01               | 234 21         | 6,199 0                | 0 4                   | -39 2               | 270 57                 | 39 2                       |
| 6,300 0                  | 0 04               | 231 42         | 6,299 0                | 0 4                   | -39 3               | 270 53                 | 39 3                       |
| 6,400 0                  | 0 14               | 271 92         | 6,399 0                | 0 3                   | -39 4               | 270 50                 | 39 4                       |
| 6,500 0                  | 0 06               | 189 41         | 6,499 0                | 0 3                   | -39 5               | 270 43                 | 39 5                       |
| 6,600 0                  | 0 19               | 173 01         | 6,599 0                | 0 1                   | -39 5               | 270 12                 | 39 5                       |
| 6,700 0                  | 0 16               | 196 69         | 6,699 0                | -0 2                  | -39 5               | 269 69                 | 39 5                       |
| 6,800 0                  | 0 15               | 221 29         | 6,799 0                | -0 4                  | -39 7               | 269 35                 | 39 7                       |
| 6,900 0                  | 0 18               | 222 46         | 6,899 0                | -0 7                  | -39 9               | 269 05                 | 39 9                       |
| 7,000 0                  | 0 13               | 238 44         | 6,999 0                | -0 8                  | -40 1               | 268 80                 | 40 1                       |
| 7,100 0                  | 0 06               | 216 22         | 7,099 0                | -0 9                  | -40 2               | 268 66                 | 40 2                       |
| 7,200 0                  | 0 19               | 185 29         | 7,199 0                | -1 1                  | -40 2               | 268 37                 | 40 3                       |
| 7,300 0                  | 0 29               | 177 11         | 7,299 0                | -1 6                  | -40 2               | 267 78                 | 40 3                       |
| 7,400 0                  | 0 35               | 202 71         | 7,399 0                | -2 1                  | -40 4               | 267 02                 | 40 4                       |
| 7,500 0                  | 0 29               | 198 57         | 7,499 0                | -2 6                  | -40 6               | 266 30                 | 40 6                       |
| 7,600 0                  | 0 43               | 209 27         | 7,599 0                | -3 2                  | -40 8               | 265 54                 | 40 9                       |
| 7,700 0                  | 0 50               | 209 66         | 7,699 0                | -3 9                  | -41 2               | 264 60                 | 41 4                       |
| 7,800 0                  | 0 55               | 216 79         | 7,799 0                | -4 7                  | -41 7               | 263 63                 | 42 0                       |
| 7,900 0                  | 0 51               | 204 44         | 7,899 0                | -5 4                  | -42 2               | 262 64                 | 42 5                       |
| 8,000 0                  | 0 49               | 203 67         | 7,999 0                | -6 2                  | -42 5               | 261 65                 | 43 0                       |
| 8,100 0                  | 0 54               | 208 23         | 8,099 0                | -7 0                  | -42 9               | 260 68                 | 43 5                       |
| 8,200 0                  | 0 64               | 230 26         | 8,199 0                | -7 8                  | -43 6               | 259 83                 | 44 3                       |
| 8,300 0                  | 0 71               | 231 84         | 8,299 0                | -8 6                  | -44 5               | 259 11                 | 45 3                       |
| 8,400 0                  | 0 82               | 233 92         | 8,399 0                | -9 4                  | -45 6               | 258 39                 | 46 5                       |
| 8,500 0                  | 0 99               | 248 03         | 8,498 9                | -10 1                 | -47 0               | 257 85                 | 48 0                       |
| 8,600 0                  | 1 12               | 244 61         | 8,598 9                | -10 9                 | -48 6               | 257 42                 | 49 8                       |
| 8,700 0                  | 1 15               | 249 45         | 8,698 9                | -11 6                 | -50 5               | 257 03                 | 51 8                       |
| 8,800 0                  | 1 01               | 242 18         | 8,798 9                | -12 4                 | -52 2               | 256 64                 | 53 6                       |
| 8,900 0                  | 1 11               | 246 56         | 8,898 9                | -13 2                 | -53 8               | 256 24                 | 55 4                       |
| 9,000 0                  | 1 12               | 251 46         | 8,998 9                | -13 9                 | -55 7               | 256 00                 | 57 4                       |
| 9,100 0                  | 0 50               | 232 86         | 9,098 8                | -14 5                 | -56 9               | 255 76                 | 58 7                       |
| 9,200 0                  | 0 35               | 194 09         | 9,198 8                | -15 0                 | -57 4               | 255 33                 | 59 3                       |
| 9,300 0                  | 0 13               | 334 87         | 9,298 8                | -15 2                 | -57 5               | 255 18                 | 59 5                       |
| 9,400 0                  | 0 26               | 341 60         | 9,398 8                | -14 9                 | -57 6               | 255 51                 | 59 5                       |
| 9,500 0                  | 1 17               | 236 76         | 9,498 8                | -15 2                 | -58 5               | 255 41                 | 60 5                       |
| 9,600 0                  | 1 51               | 231 52         | 9,598 8                | -16 6                 | -60 4               | 254 62                 | 62 7                       |
| 9,700 0                  | 1 62               | 226 79         | 9,698 8                | -18 4                 | -62 5               | 253 59                 | 65 1                       |
| 9,800 0                  | 1 57               | 224 96         | 9,798 7                | -20 3                 | -64 5               | 252 49                 | 67 6                       |
| 9,900 0                  | 1 63               | 210 25         | 9,898 7                | -22 5                 | -66 2               | 251 19                 | 69 9                       |

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| <b>Project:</b>  | Los Medanos                     | <b>TVD Reference:</b>               | WELL @ 0 0usft (Original Well Elev)  |
| <b>Site:</b>     | Eddy County, NM                 | <b>MD Reference:</b>                | WELL @ 0 0usft (Original Well Elev)  |
| <b>Well:</b>     | North Pure Gold "9" Federal #18 | <b>North Reference:</b>             | Grid                                 |
| <b>Wellbore:</b> | VH - Job #32K0311239            | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | VH - Job #32K0311239            | <b>Database:</b>                    | EDM-Regulatory                       |

| Survey                   |                    |                |                        |                       |                     |                        |                            |
|--------------------------|--------------------|----------------|------------------------|-----------------------|---------------------|------------------------|----------------------------|
| Measured Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | True Vertical<br>Depth | North/South<br>(usft) | East/West<br>(usft) | Closure Azimuth<br>(°) | Closure Distance<br>(usft) |
| 10,000.0                 | 1.74               | 204.53         | 9,998.6                | -25.1                 | -67.5               | 249.57                 | 72.0                       |
| 10,100.0                 | 1.58               | 201.35         | 10,098.6               | -27.8                 | -68.6               | 247.94                 | 74.1                       |
| 10,200.0                 | 1.59               | 199.33         | 10,198.6               | -30.4                 | -69.6               | 246.40                 | 75.9                       |
| 10,300.0                 | 1.66               | 208.96         | 10,298.5               | -33.0                 | -70.8               | 245.01                 | 78.1                       |
| 10,400.0                 | 1.89               | 212.12         | 10,398.5               | -35.6                 | -72.3               | 243.77                 | 80.6                       |
| 10,500.0                 | 1.84               | 218.41         | 10,498.4               | -38.3                 | -74.2               | 242.70                 | 83.5                       |
| 10,600.0                 | 2.11               | 222.51         | 10,598.4               | -40.9                 | -76.5               | 241.85                 | 86.7                       |
| 10,700.0                 | 2.11               | 222.81         | 10,698.3               | -43.6                 | -78.9               | 241.08                 | 90.2                       |
| 10,800.0                 | 2.04               | 233.78         | 10,798.2               | -46.0                 | -81.6               | 240.59                 | 93.7                       |
| 10,900.0                 | 2.02               | 248.25         | 10,898.2               | -47.7                 | -84.7               | 240.60                 | 97.2                       |
| 11,000.0                 | 2.11               | 254.92         | 10,998.1               | -48.9                 | -88.1               | 240.99                 | 100.8                      |
| 11,100.0                 | 1.98               | 253.70         | 11,098.0               | -49.8                 | -91.6               | 241.44                 | 104.2                      |
| 11,200.0                 | 1.81               | 257.43         | 11,198.0               | -50.7                 | -94.8               | 241.87                 | 107.4                      |
| 11,300.0                 | 1.84               | 256.48         | 11,297.9               | -51.4                 | -97.9               | 242.30                 | 110.5                      |
| 11,400.0                 | 1.64               | 255.99         | 11,397.9               | -52.1                 | -100.8              | 242.67                 | 113.5                      |
| 11,500.0                 | 1.65               | 257.56         | 11,497.9               | -52.8                 | -103.6              | 243.02                 | 116.3                      |
| 11,600.0                 | 1.60               | 260.52         | 11,597.8               | -53.3                 | -106.4              | 243.39                 | 119.0                      |
| 11,700.0                 | 1.50               | 262.64         | 11,697.8               | -53.7                 | -109.1              | 243.79                 | 121.6                      |
| 11,800.0                 | 1.38               | 260.16         | 11,797.7               | -54.1                 | -111.5              | 244.14                 | 124.0                      |
| 11,900.0                 | 1.31               | 256.25         | 11,897.7               | -54.5                 | -113.8              | 244.40                 | 126.2                      |
| 12,000.0                 | 1.33               | 255.74         | 11,997.7               | -55.1                 | -116.1              | 244.61                 | 128.5                      |
| 12,100.0                 | 1.39               | 249.50         | 12,097.7               | -55.8                 | -118.3              | 244.75                 | 130.8                      |
| 12,200.0                 | 1.52               | 248.32         | 12,197.6               | -56.7                 | -120.7              | 244.83                 | 133.4                      |
| 12,300.0                 | 1.68               | 248.64         | 12,297.6               | -57.7                 | -123.3              | 244.90                 | 136.2                      |
| 12,400.0                 | 1.80               | 249.00         | 12,397.5               | -58.8                 | -126.1              | 244.99                 | 139.2                      |
| 12,500.0                 | 1.95               | 247.98         | 12,497.5               | -60.0                 | -129.2              | 245.07                 | 142.5                      |
| 12,600.0                 | 1.89               | 250.43         | 12,597.4               | -61.2                 | -132.3              | 245.16                 | 145.8                      |
| 12,700.0                 | 1.76               | 255.50         | 12,697.4               | -62.2                 | -135.3              | 245.33                 | 148.9                      |
| 12,800.0                 | 1.71               | 256.28         | 12,797.3               | -62.9                 | -138.3              | 245.54                 | 151.9                      |
| 12,900.0                 | 1.77               | 256.55         | 12,897.3               | -63.6                 | -141.2              | 245.75                 | 154.9                      |
| 13,000.0                 | 1.77               | 260.13         | 12,997.2               | -64.2                 | -144.3              | 245.99                 | 157.9                      |
| 13,100.0                 | 1.82               | 257.90         | 13,097.2               | -64.8                 | -147.3              | 246.25                 | 161.0                      |
| 13,200.0                 | 2.00               | 260.51         | 13,197.1               | -65.5                 | -150.6              | 246.51                 | 164.2                      |
| 13,214.0                 | 2.16               | 250.35         | 13,211.1               | -65.6                 | -151.1              | 246.53                 | 164.7                      |



Project: Los Medanos  
 Eddy County, NM  
 Well North Pure Gold "9" Federal #18  
 Wellbore: VH - Job #32K0311239  
 Design: VH - Job #32K0311239

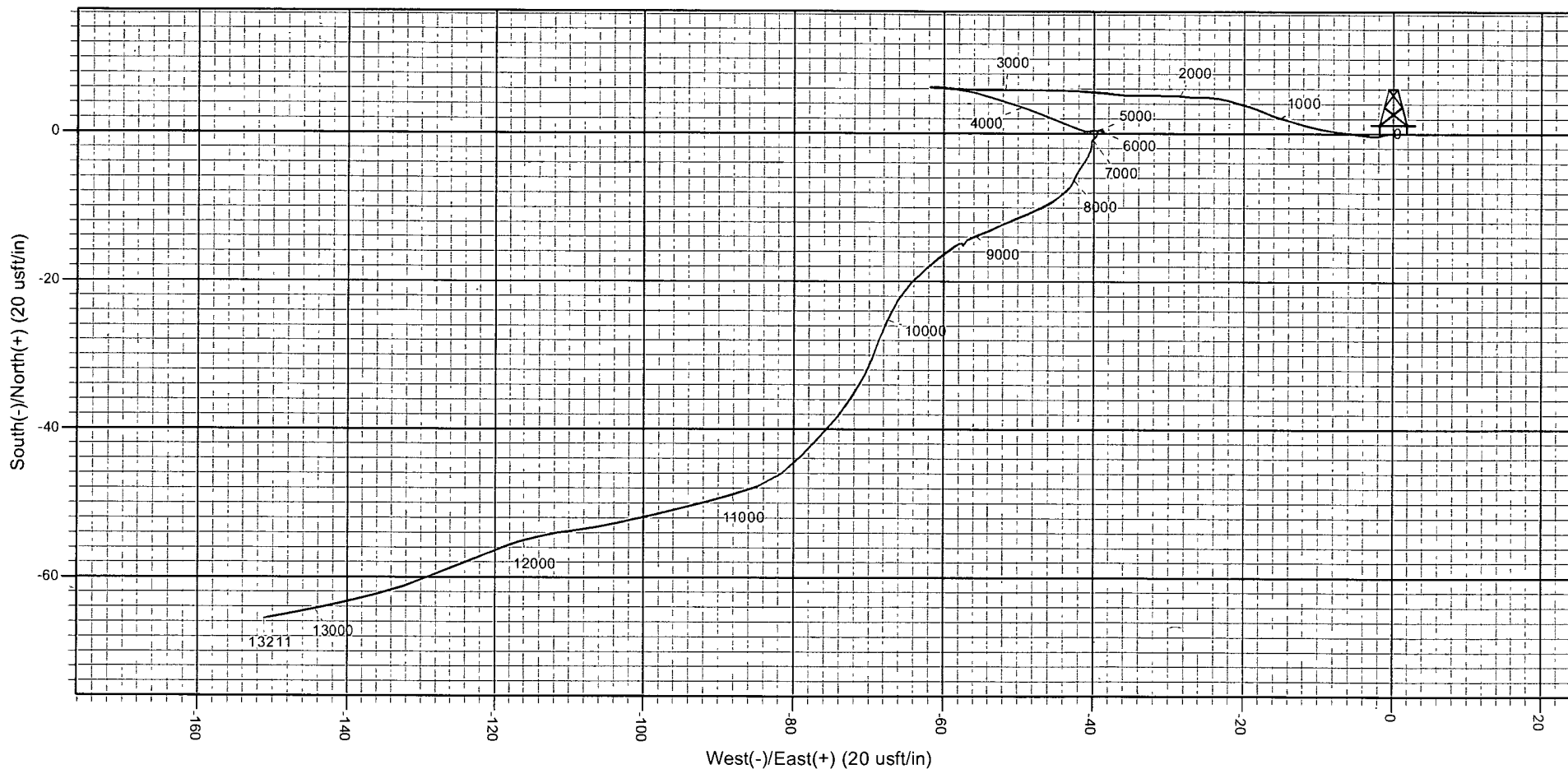


Azimuths to Grid North  
 True North: -0 30°  
 Magnetic North: 7 42°  
 Magnetic Field  
 Strength: 48698 6snT  
 Dip Angle: 60 24°  
 Date: 3/15/2011  
 Model: IGRF2010

WELL DETAILS: North Pure Gold "9" Federal #18  
 WELL @ 0 0usft (Original Well Elev)

Ground Level: 0.0

| +N/-S | +E/-W | Northing  | Easting   | Latitude         | Longitude         | Slot |
|-------|-------|-----------|-----------|------------------|-------------------|------|
| 0.0   | 0.0   | 478228.67 | 671415.55 | 32° 18' 48.770 N | 103° 46' 42.520 W |      |



PROJECT DETAILS: Los Medanos  
 Geodetic System: US State Plane 1927 (Exact solution)  
 Datum: NAD 1927 (NADCON CONUS)  
 Ellipsoid: Clarke 1866  
 Zone: New Mexico East 3001  
 System Datum: Mean Sea Level

SITE DETAILS: Eddy County, NM  
 Site Centre Latitude: 32° 18' 43.760 N  
 Longitude: 103° 47' 48.600 W  
 Positional Uncertainty: 0.0  
 Convergence: 0.29  
 Local North: Grid