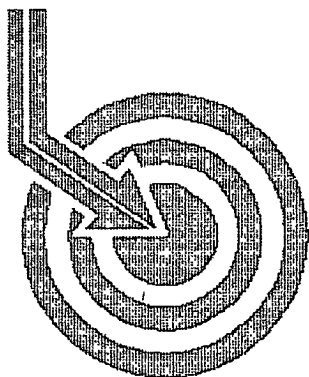




# Scientific Drilling

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NMOCD ARTESIA

## OCCIDENTAL PERMIAN LTD.

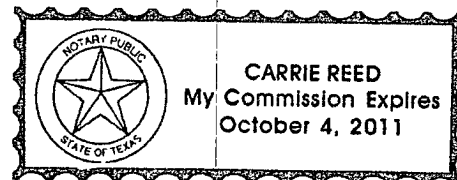
Field: Livingston Ridge, Delaware  
Site: Eddy County, NM  
Well: Federal 23 #6  
Wellpath: VH - Job #32K1209589  
Survey: 12/26/09

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

.....*R. Wharton*..... Company Representative

Notorized this date 31<sup>st</sup> of December, 2009.

*Carrie Reed*  
Notary Signature  
County of Midland  
State of Texas





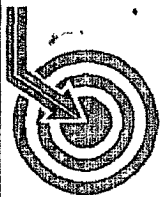
# Scientific Drilling International Survey Report

|                                          |                                    |                                          |                   |
|------------------------------------------|------------------------------------|------------------------------------------|-------------------|
| <b>Company:</b> OCCIDENTAL PERMIAN LTD.  | <b>Date:</b> 12/29/2009            | <b>Time:</b> 14:02:53                    | <b>Page:</b> 1    |
| <b>Field:</b> Livingston Ridge, Delaware | <b>Co-ordinate(N/E) Reference:</b> | <b>Site:</b> Eddy County, NM, Grid North |                   |
| <b>Site:</b> Eddy County, NM             | <b>Vertical (TVD) Reference:</b>   | <b>SITE:</b> 0.0'                        |                   |
| <b>Well:</b> Federal 23 #6               | <b>Section (VS) Reference:</b>     | <b>Well:</b> (0.00N,0.00E,134.94Azi)     |                   |
| <b>Wellpath:</b> VH - Job #32K1209589    | <b>Survey Calculation Method:</b>  | <b>Minimum Curvature</b>                 | <b>Db:</b> Sybase |

|                                                |                                      |
|------------------------------------------------|--------------------------------------|
| <b>Survey:</b> 12/26/09                        | <b>Start Date:</b> 12/26/2009        |
| <b>Company:</b> Scientific Drilling Internatio | <b>Engineer:</b> Garza/Rowe/Williams |
| <b>Tool:</b> Keeper;Keeper Surface Readout     | <b>Tied-to:</b> From Surface         |

## Survey

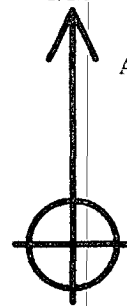
| MD<br>ft | Incl<br>deg | Azlm<br>deg | TVD<br>ft | VS<br>ft | N/S<br>ft | E/W<br>ft | DLS<br>deg/100ft | ClsD<br>ft | ClsA<br>deg |
|----------|-------------|-------------|-----------|----------|-----------|-----------|------------------|------------|-------------|
| 0.00     | 0.00        | 359.68      | 0.00      | 0.00     | 0.00      | 0.00      | 0.00             | 0.00       | 0.00        |
| 100.00   | 0.08        | 23.41       | 100.00    | -0.03    | 0.06      | 0.03      | 0.08             | 0.07       | 23.41       |
| 200.00   | 0.15        | 188.33      | 200.00    | 0.03     | 0.00      | 0.04      | 0.23             | 0.04       | 92.17       |
| 300.00   | 0.25        | 162.46      | 300.00    | 0.30     | -0.34     | 0.08      | 0.13             | 0.35       | 166.19      |
| 400.00   | 0.41        | 189.71      | 400.00    | 0.70     | -0.90     | 0.09      | 0.22             | 0.90       | 174.37      |
| 500.00   | 0.36        | 184.60      | 500.00    | 1.11     | -1.57     | 0.00      | 0.06             | 1.57       | 179.88      |
| 600.00   | 0.69        | 179.96      | 599.99    | 1.74     | -2.48     | -0.02     | 0.33             | 2.48       | 180.50      |
| 700.00   | 0.62        | 175.81      | 699.98    | 2.57     | -3.62     | 0.02      | 0.08             | 3.62       | 179.71      |
| 800.00   | 1.05        | 187.88      | 799.97    | 3.53     | -5.07     | -0.07     | 0.46             | 5.07       | 180.77      |



**Scientific  
Drilling**

Field: Livingston Ridge, Delaware  
Site: Eddy County, NM  
Well: Federal 23 #6  
Wellpath: VH - Job #32K1209589  
Survey: 12/26/09

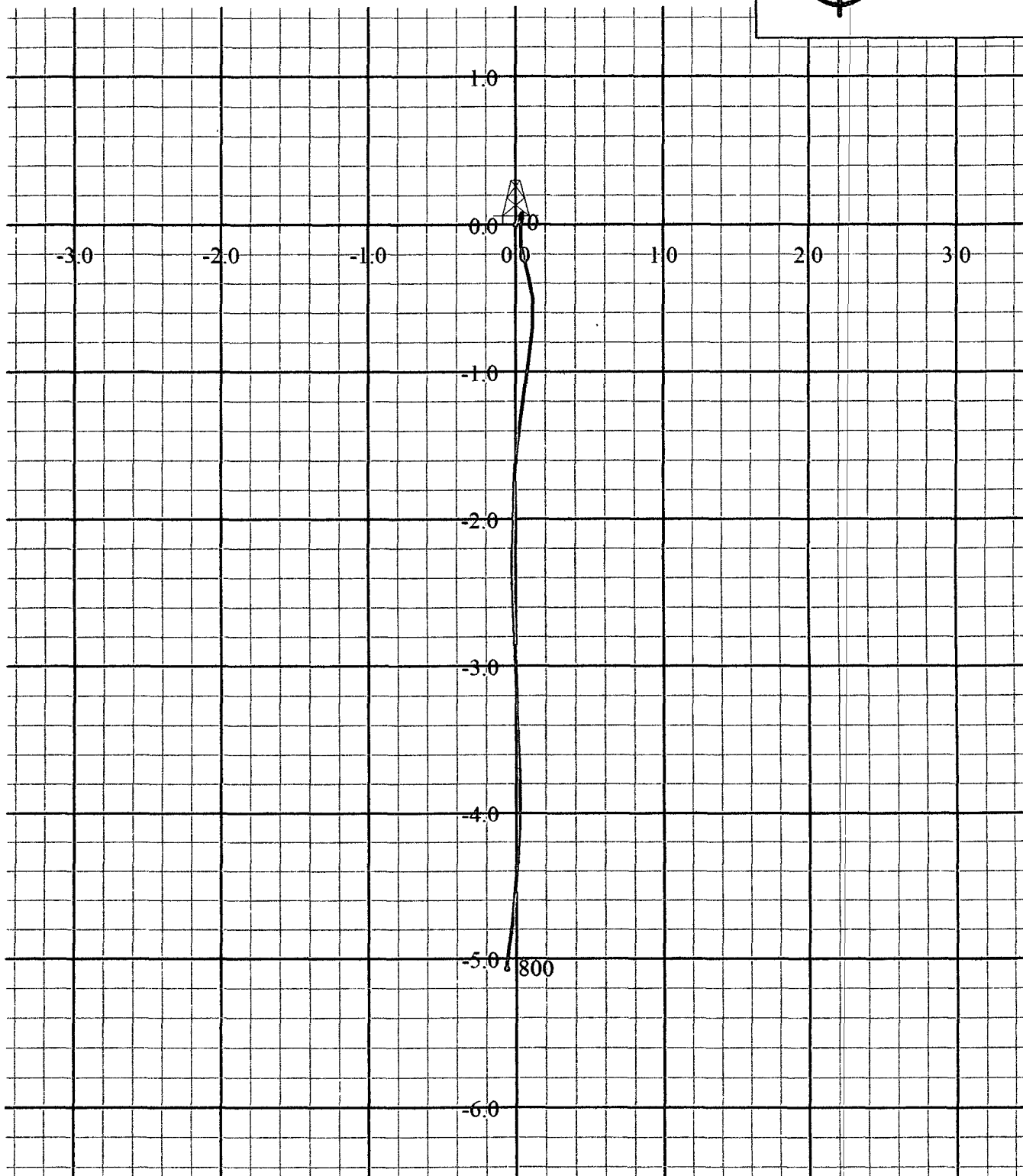
G/T/M



Azimuths to Grid North  
True North: 0.00°  
Magnetic North: 0.00°

Magnetic Field  
Strength: 0nT  
Dip Angle: 0.00°  
Date: 12/29/2009  
Model: igrf2000

South(-)/North(+) [1ft/in]



West(-)/East(+) [1ft/in]