

DISTRICT I  
1626 N. French Dr., Hobbs, NM 88240

DISTRICT II  
1301 W. Grand Avenue, Artesia, NM 87003

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

☐ AMENDED REPORT

SEP - 2 2008  
HOBBS OCD

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                            |                                     |                               |
|----------------------------|-------------------------------------|-------------------------------|
| API Number<br>30-025-39133 | Pool Code<br>17290                  | Pool Name<br>Denton; Wolfcamp |
| Property Code<br>37353     | Property Name<br>QUANDARY "14" FEE  | Well Number<br>1              |
| OGRID No.<br>162683        | Operator Name<br>CIMAREX ENERGY CO. | Elevation<br>3781'            |

Surface Location

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| I             | 14      | 15 S     | 37 E  |         | 1650          | SOUTH            | 750           | EAST           | LEA    |

Bottom Hole Location If Different From Surface

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| H             | 14      | 15 S     | 37 E  |         | 1650          | NORTH            | 750           | EAST           | LEA    |

| Dedicated Acres | Joint or Infill | Consolidation Code | Order No. |
|-----------------|-----------------|--------------------|-----------|
| 80              |                 |                    |           |

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>OPERATOR CERTIFICATION</b><br><br>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.<br><br>Zeno Farris 08-22-08<br>Signature Date<br><br>Zeno Farris<br>Printed Name |
|  | <b>SURVEYOR CERTIFICATION</b><br><br>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.<br><br>JULY 19, 2008<br>Date Surveyed<br><br>Signature of Gary L. Jones<br>Professional Surveyer<br>7977<br><br>Certificate No. Gary L. Jones 7977                                                                                                                                                                      |
|  | <b>BASIN SURVEYS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |



# **Weatherford**

## **Drilling Services**

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## **Proposal**

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QUANDARY 14 FEE #1

LEA COUNTY, NEW MEXICO

WELL FILE: **PLAN 1**

AUGUST 19, 2008

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**Weatherford International, Ltd.**

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# QUANDARY 14 FEE #1 LEA COUNTY, NEW MEXICO

## SECTION DETAILS

| Sec | MD       | Inc   | Azi  | TVD     | +N/-S   | +E/-W | DLeg  | TFace | VSec    | Target |
|-----|----------|-------|------|---------|---------|-------|-------|-------|---------|--------|
| 1   | 0.00     | 0.00  | 0.00 | 0.00    | 0.00    | 0.00  | 0.00  | 0.00  | 0.00    |        |
| 2   | 9038.00  | 0.00  | 0.00 | 9038.00 | 0.00    | 0.00  | 0.00  | 0.00  | 0.00    |        |
| 3   | 9053.00  | 2.00  | 0.00 | 9053.00 | 0.26    | 0.00  | 13.33 | 0.00  | 0.26    |        |
| 4   | 9058.00  | 2.00  | 0.00 | 9057.99 | 0.44    | 0.00  | 0.00  | 0.00  | 0.44    |        |
| 5   | 9354.01  | 90.00 | 0.00 | 9244.00 | 193.05  | 0.00  | 29.73 | 0.00  | 193.05  |        |
| 6   | 11140.97 | 90.00 | 0.00 | 9244.00 | 1980.00 | 0.00  | 0.00  | 0.00  | 1980.00 | PBHL   |

## WELL DETAILS

| Name+N/-S | +E/-W | Northing | Easting   | Latitude  | Longitude                    | Slot |
|-----------|-------|----------|-----------|-----------|------------------------------|------|
| #1        | 0.00  | 0.00     | 734858.20 | 899561.70 | 33°00'52.736N 103°09'52.968W | N/A  |

## TARGET DETAILS

| Name | TVD     | +N/-S   | +E/-W | Northing  | Easting   | Shape |
|------|---------|---------|-------|-----------|-----------|-------|
| PBHL | 9244.00 | 1980.00 | 0.00  | 736838.08 | 899539.69 | Point |

## FIELD DETAILS

Lea Co., NM (NAD 83)

Geodetic System: US State Plane Coordinate System 1983  
Ellipsoid: GRS 1980  
Zone: New Mexico, Eastern Zone  
Magnetic Model: bggm2007

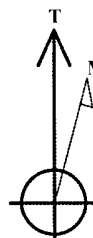
System Datum: Mean Sea Level  
Local North: True North

## SITE DETAILS

Quandary 14 Fee #1  
1650' FSL 750' FEL of SEC 14, T-15-S, R-37-E

Site Centre Northing: 734858.20  
Easting: 899561.70

Ground Level: 3781.00  
Positional Uncertainty: 0.00  
Convergence: 0.64



Mazimuths to True North  
Magnetic North: 7.84°

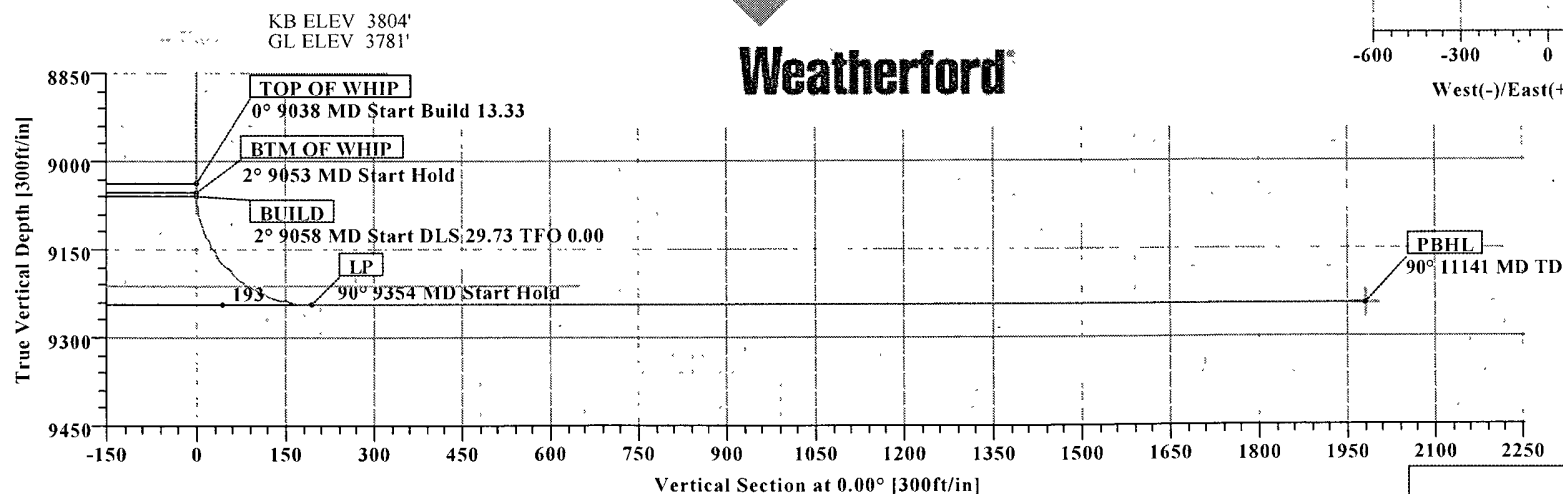
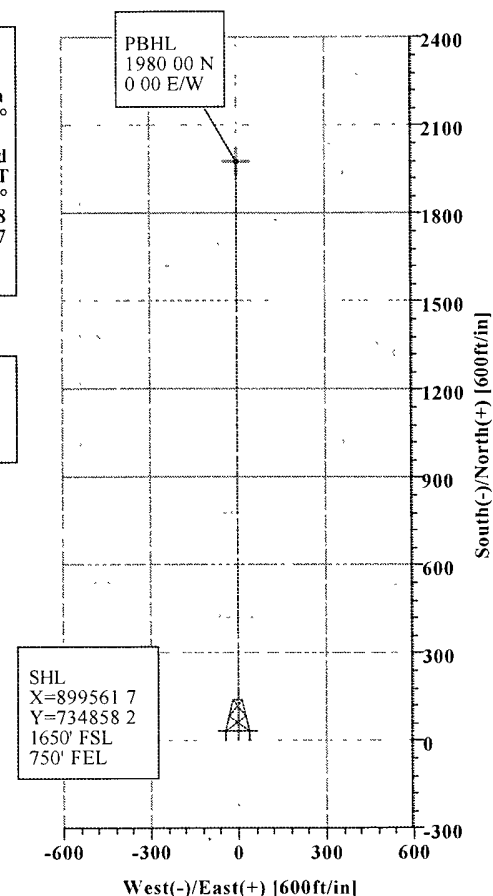
Magnetic Field  
Strength: 49475nT  
Dip Angle: 61.07°  
Date: 8/19/2008  
Model: bggm2007

TOTAL CORRECTION TO TRUE NORTH: 8.7°

## FORMATION TOP DETAILS

| No. | TVDPath | MDPath  | Formation |
|-----|---------|---------|-----------|
| 1   | 9214.00 | 9245.03 | Wolfcamp  |

VERTICAL SECTION (3000' x 600')



Plan Plan #1 (#1/1)

Created By: Lindsey Maddux

Date: 8/21/2008



# Weatherford International, Inc.

## Proposal Plan Report

Company: Cimarex Date: 8/21/2008 Time: 13 11:56 Page: 1  
Field: Lea Co , NM (NAD 83) Co-ordinate(NE) Reference: Site: Quandary 14 Fee #1, True North  
Site: Quandary 14 Fee #1 Vertical (TVD) Reference: SITE 3804 0  
Well: #1 Section (VS) Reference: Well (0.00N,0.00E,0.00Azi)  
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Plan: Plan #1 Date Composed: 8/19/2008  
Principal: Yes Version: 1  
Tied-to: From Surface

Field: Lea Co , NM (NAD 83)

Map System: US State Plane Coordinate System 1983  
Geo Datum: GRS 1980  
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone  
Coordinate System: Site Centre  
Geomagnetic Model: bggm2007

Site: Quandary 14 Fee #1

1650' FSL 750' FEL of SEC 14, T-15-S, R-37-E

Site Position: Northing: 734858.20 ft Latitude: 33 0 52.736 N  
From: Map Easting: 899561.70 ft Longitude: 103 9 52.968 W  
Position Uncertainty: 0.00 ft North Reference: True  
Ground Level: 3781.00 ft Grid Convergence: 0.64 deg

Well: #1 Slot Name:  
Well Position: +N/-S 0.00 ft Northing: 734858.20 ft Latitude: 33 0 52.736 N  
+E/-W 0.00 ft Easting: 899561.70 ft Longitude: 103 9 52.968 W  
Position Uncertainty: 0.00 ft

Wellpath: 1 Drilled From: Surface  
Current Datum: SITE Height 3804.00 ft Tie-on Depth: 0.00 ft  
Magnetic Data: 8/19/2008 Above System Datum: Mean Sea Level  
Field Strength: 49475 nT Declination: 7.84 deg  
Vertical Section: Depth From (TVD) +N/-S +E/-W Mag Dip Angle: 61.07 deg  
ft ft ft Direction  
deg  
0.00 0.00 0.00 0.00

### Plan Section Information

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | DLS<br>deg/100ft | Build<br>deg/100ft | Turn<br>deg/100ft | TFO<br>deg | Target |
|----------|-------------|-------------|-----------|-------------|-------------|------------------|--------------------|-------------------|------------|--------|
| 0.00     | 0.00        | 0.00        | 0.00      | 0.00        | 0.00        | 0.00             | 0.00               | 0.00              | 0.00       |        |
| 9038.00  | 0.00        | 0.00        | 9038.00   | 0.00        | 0.00        | 0.00             | 0.00               | 0.00              | 0.00       |        |
| 9053.00  | 2.00        | 0.00        | 9053.00   | 0.26        | 0.00        | 13.33            | 13.33              | 0.00              | 0.00       |        |
| 9058.00  | 2.00        | 0.00        | 9057.99   | 0.44        | 0.00        | 0.00             | 0.00               | 0.00              | 0.00       |        |
| 9354.01  | 90.00       | 0.00        | 9244.00   | 193.05      | 0.00        | 29.73            | 29.73              | 0.00              | 0.00       |        |
| 11140.97 | 90.00       | 0.00        | 9244.00   | 1980.00     | 0.00        | 0.00             | 0.00               | 0.00              | 0.00       | PBHL   |

### Survey

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | N/S<br>ft | E/W<br>ft | VS<br>ft | Build<br>deg/100ft | Turn<br>deg/100ft | DLS<br>deg/100ft | TFO<br>deg | Comment     |
|----------|-------------|-------------|-----------|-----------|-----------|----------|--------------------|-------------------|------------------|------------|-------------|
| 9000.00  | 0.00        | 0.00        | 9000.00   | 0.00      | 0.00      | 0.00     | 0.00               | 0.00              | 0.00             | 0.00       |             |
| 9038.00  | 0.00        | 0.00        | 9038.00   | 0.00      | 0.00      | 0.00     | 0.00               | 0.00              | 0.00             | 0.00       | TOP OF WHIP |
| 9053.00  | 2.00        | 0.00        | 9053.00   | 0.26      | 0.00      | 0.26     | 13.33              | 0.00              | 13.33            | 0.00       | BTM OF WHIP |
| 9058.00  | 2.00        | 0.00        | 9057.99   | 0.44      | 0.00      | 0.44     | 0.00               | 0.00              | 0.00             | 0.00       | BUILD       |
| 9100.00  | 14.49       | 0.00        | 9099.48   | 6.45      | 0.00      | 6.45     | 29.73              | 0.00              | 29.73            | 0.00       |             |
| 9200.00  | 44.21       | 0.00        | 9185.67   | 54.91     | 0.00      | 54.91    | 29.73              | 0.00              | 29.73            | 0.00       |             |
| 9245.03  | 57.60       | 0.00        | 9214.00   | 89.78     | 0.00      | 89.78    | 29.73              | 0.00              | 29.73            | 0.00       | Wolfcamp    |
| 9300.00  | 73.94       | 0.00        | 9236.48   | 139.74    | 0.00      | 139.74   | 29.73              | 0.00              | 29.73            | 0.00       |             |
| 9354.01  | 90.00       | 0.00        | 9244.00   | 193.05    | 0.00      | 193.05   | 29.73              | 0.00              | 29.73            | 0.00       | LP          |
| 9400.00  | 90.00       | 0.00        | 9244.00   | 239.03    | 0.00      | 239.03   | 0.00               | 0.00              | 0.00             | 0.00       |             |
| 9500.00  | 90.00       | 0.00        | 9244.00   | 339.03    | 0.00      | 339.03   | 0.00               | 0.00              | 0.00             | 0.00       |             |
| 9600.00  | 90.00       | 0.00        | 9244.00   | 439.03    | 0.00      | 439.03   | 0.00               | 0.00              | 0.00             | 0.00       |             |
| 9700.00  | 90.00       | 0.00        | 9244.00   | 539.03    | 0.00      | 539.03   | 0.00               | 0.00              | 0.00             | 0.00       |             |
| 9800.00  | 90.00       | 0.00        | 9244.00   | 639.03    | 0.00      | 639.03   | 0.00               | 0.00              | 0.00             | 0.00       |             |
| 9900.00  | 90.00       | 0.00        | 9244.00   | 739.03    | 0.00      | 739.03   | 0.00               | 0.00              | 0.00             | 0.00       |             |



# Weatherford International, Inc.

## Proposal Plan Report

Company: Cimarex Date: 8/21/2008 Time: 13:11:56 Page: 2  
Field: Lea Co., NM (NAD 83) Co-ordinate(NE) Reference: Site: Quandary 14 Fee #1, True North  
Site: Quandary 14 Fee #1 Vertical (TVD) Reference: SITE 3804.0  
Well: #1 Section (VS) Reference: Well (0.00N,0.00E,0.00Azi)  
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

### Survey

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | N/S<br>ft | E/W<br>ft | VS<br>ft | Build<br>deg/100ft | Turn<br>deg/100ft | DLS<br>deg/100ft | TFO<br>deg | Comment |
|----------|-------------|-------------|-----------|-----------|-----------|----------|--------------------|-------------------|------------------|------------|---------|
| 10000.00 | 90.00       | 0.00        | 9244.00   | 839.03    | 0.00      | 839.03   | 0.00               | 0.00              | 0.00             | 0.00       |         |
| 10100.00 | 90.00       | 0.00        | 9244.00   | 939.03    | 0.00      | 939.03   | 0.00               | 0.00              | 0.00             | 0.00       |         |
| 10200.00 | 90.00       | 0.00        | 9244.00   | 1039.03   | 0.00      | 1039.03  | 0.00               | 0.00              | 0.00             | 0.00       |         |
| 10300.00 | 90.00       | 0.00        | 9244.00   | 1139.03   | 0.00      | 1139.03  | 0.00               | 0.00              | 0.00             | 0.00       |         |
| 10400.00 | 90.00       | 0.00        | 9244.00   | 1239.03   | 0.00      | 1239.03  | 0.00               | 0.00              | 0.00             | 0.00       |         |
| 10500.00 | 90.00       | 0.00        | 9244.00   | 1339.03   | 0.00      | 1339.03  | 0.00               | 0.00              | 0.00             | 0.00       |         |
| 10600.00 | 90.00       | 0.00        | 9244.00   | 1439.03   | 0.00      | 1439.03  | 0.00               | 0.00              | 0.00             | 0.00       |         |
| 10700.00 | 90.00       | 0.00        | 9244.00   | 1539.03   | 0.00      | 1539.03  | 0.00               | 0.00              | 0.00             | 0.00       |         |
| 10800.00 | 90.00       | 0.00        | 9244.00   | 1639.03   | 0.00      | 1639.03  | 0.00               | 0.00              | 0.00             | 0.00       |         |
| 10900.00 | 90.00       | 0.00        | 9244.00   | 1739.03   | 0.00      | 1739.03  | 0.00               | 0.00              | 0.00             | 0.00       |         |
| 11000.00 | 90.00       | 0.00        | 9244.00   | 1839.03   | 0.00      | 1839.03  | 0.00               | 0.00              | 0.00             | 0.00       |         |
| 11100.00 | 90.00       | 0.00        | 9244.00   | 1939.03   | 0.00      | 1939.03  | 0.00               | 0.00              | 0.00             | 0.00       |         |
| 11140.97 | 90.00       | 0.00        | 9244.00   | 1980.00   | 0.00      | 1980.00  | 0.00               | 0.00              | 0.00             | 0.00       | PBHL    |

### Targets

| Name | Description | Dir. | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | Map<br>Northing<br>ft | Map<br>Easting<br>ft | <--- Latitude ---> |     |     | <--- Longitude ---> |     |     |   |    |     |   |
|------|-------------|------|-----------|-------------|-------------|-----------------------|----------------------|--------------------|-----|-----|---------------------|-----|-----|---|----|-----|---|
|      | Dip.        |      |           |             |             |                       |                      | Deg                | Min | Sec | Deg                 | Min | Sec |   |    |     |   |
| PBHL |             |      | 9244.00   | 1980.00     | 0.00        | 736838.08             | 899539.69            | 33                 | 1   | 12  | 325                 | N   | 103 | 9 | 52 | 968 | W |

### Formations

| MD<br>ft | TVD<br>ft | Formations | Lithology | Dip Angle<br>deg | Dip Direction<br>deg |
|----------|-----------|------------|-----------|------------------|----------------------|
| 9245.03  | 9214.00   | Wolfcamp   |           | 0.00             | 0.00                 |
|          | 0.00      | Wolfcamp B |           | 0.00             | 0.00                 |

### Annotation

| MD<br>ft | TVD<br>ft |             |
|----------|-----------|-------------|
| 9038.00  | 9038.00   | TOP OF WHIP |
| 9053.00  | 9053.00   | BTM OF WHIP |
| 9058.00  | 9057.99   | BUILD       |
| 9354.01  | 9244.00   | LP          |
| 11140.96 | 9244.00   | PBHL        |

### Casing Points

| MD | TVD | Diameter | Hole Size | Name |
|----|-----|----------|-----------|------|
|    |     |          |           |      |