

**5D Plan Report**

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**GMT Exploration Co., LLC****Field Name:** *Lea Co., New Mexico (NAD 83 NME)***Site Name:** *Josephine Fed Com #1H***Well Name:** *Josephine Fed Com #1H***Plan:** *P1:V1*

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06 August 2014



Josephine Fed Com #1H  
Lea Co., New Mexico

**Plan Data for Josephine Fed Com #1H**

Site: Josephine Fed Com #1H  
Unit: USFest TVD Reference:  
Company Name: GMT Exploration Co., LLC  
Position: Northing: 440915.20USft Latitude: 32°12'33.1"  
Easting: 808819.70USft Longitude: -103°28'6.6"  
North Reference: Grid Grid Convergence: 0.46"  
Elevation Above VRD: 0.00USft

**Plan Data for Josephine Fed Com #1H**

**Plan Point Information:**

Dogleg Severity Unit: °/100.00ft Position offsets from Slot centre

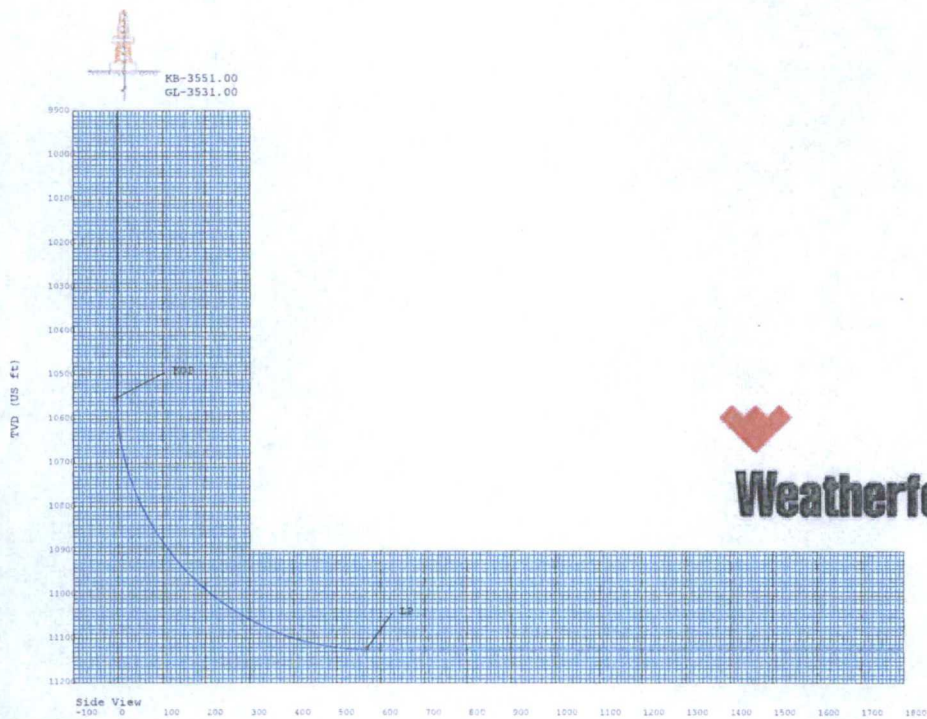
| MD       | Inc   | Az     | TVD      | +N/-S +E/-W | Northing | Easting   | VSec      | DLS     |
|----------|-------|--------|----------|-------------|----------|-----------|-----------|---------|
| (USft)   | (°)   | (°)    | (USft)   | (USft)      | (USft)   | (USft)    | (USft)    | (DLSU)  |
| 0.00     | 0.00  | 0.00   | 0.00     | 0.00        | 0.00     | 440915.20 | 808819.70 | 0.00    |
| 10552.04 | 0.00  | 0.00   | 10552.04 | 0.00        | 0.00     | 440915.20 | 808819.70 | 0.00    |
| 11452.04 | 90.00 | 179.57 | 11125.00 | -572.94     | 4.34     | 440342.26 | 808824.04 | 572.96  |
| 15424.91 | 90.00 | 179.57 | 11125.00 | -4545.70    | 34.40    | 436369.50 | 808854.10 | 4545.83 |

**Plan Data for Josephine Fed Com #1H**

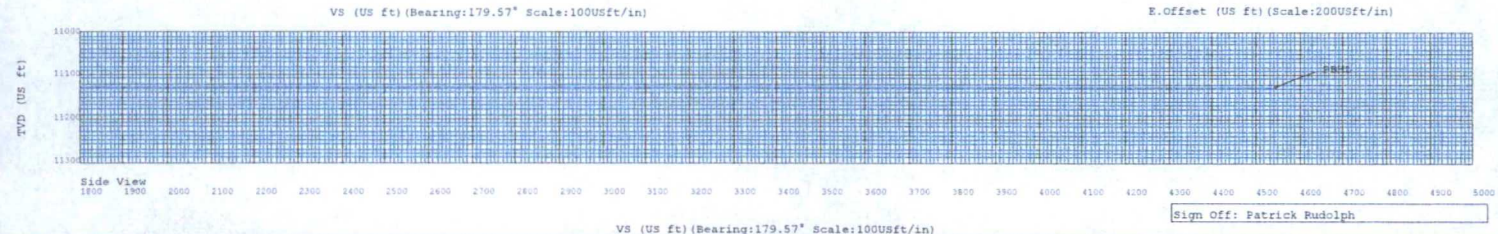
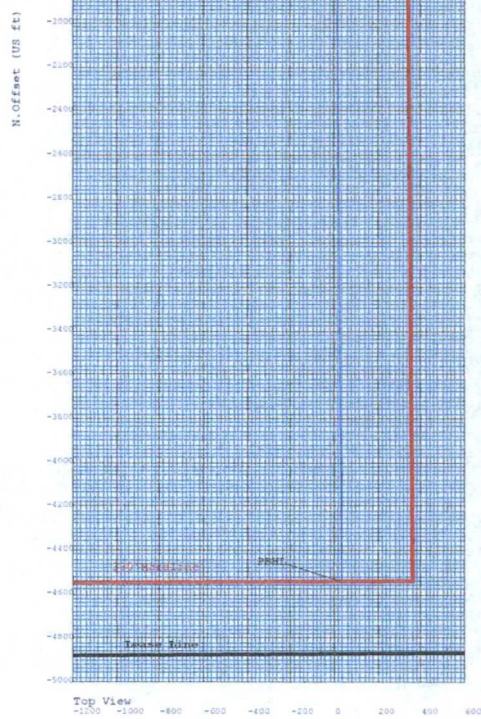
**Target Set Information:**

Name: Josephine Fed Com #1H  
Position offsets from Slot centre

| Name   | TVD      | +N/-S +E/-W | Northing | Easting   | Shape     | Comment |
|--------|----------|-------------|----------|-----------|-----------|---------|
| (USft) | (USft)   | (USft)      | (USft)   | (USft)    |           |         |
| PBHL   | 11125.00 | -4545.70    | 34.40    | 436369.50 | 808854.10 | Cuboid  |



**Weatherford**



Sign Off: Patrick Pudolph



## Josephine Fed Com #1H

|                                                    |                                                              |                            |                                         |              |
|----------------------------------------------------|--------------------------------------------------------------|----------------------------|-----------------------------------------|--------------|
| Field Name<br><br>Lea Co., New Mexico (NAD 83 NME) | Map Units : US ft                                            |                            | Company Name : GMT Exploration Co., LLC |              |
|                                                    | Vertical Reference Datum (VRD) : Mean Sea Level              |                            |                                         |              |
|                                                    | Projected Coordinate System : NAD83 / New Mexico East (ftUS) |                            |                                         |              |
|                                                    | Comment :                                                    |                            |                                         |              |
| Site Name<br><br>Josephine Fed Com #1H             | Units : US ft                                                | North Reference : Grid     | Convergence Angle : 0.46                |              |
|                                                    | Position                                                     | Northing : 440915.20 US ft | Latitude : 32° 12' 33.10"               |              |
|                                                    |                                                              | Easting : 808819.70 US ft  | Longitude : -103° 28' 6.60"             |              |
|                                                    | Elevation above Mean Sea Level:3531.00 US ft                 |                            |                                         |              |
| Comment :                                          |                                                              |                            |                                         |              |
| Slot Name<br><br>Josephine Fed Com #1H             | Position (Offsets relative to Site Centre)                   |                            |                                         |              |
|                                                    | +N / -S : 0.00 US ft                                         | Northing :440915.20 US ft  | Latitude : 32°12'33.10"                 |              |
|                                                    | +E / -W : 0.00 US ft                                         | Easting :808819.70 US ft   | Longitude : -103°28'6.60"               |              |
|                                                    | Elevation above Mean Sea Level : 3531.00 US ft               |                            |                                         |              |
| Comment :                                          |                                                              |                            |                                         |              |
| Well Name<br><br>Josephine Fed Com #1H             | Type : Main well                                             |                            | UWI :                                   | Plan : P1:V1 |
|                                                    | Rig Height <i>Kelly Bushing</i> : 20.00 US ft                |                            | Comment :                               |              |
|                                                    | Relative to Mean Sea Level: 3551.00 US ft                    |                            |                                         |              |
|                                                    | Closure Distance : 4545.83 US ft                             |                            | Closure Azimuth : 179.566°              |              |
|                                                    | Vertical Section (Position of Origin Relative to Slot )      |                            |                                         |              |
|                                                    | +N / -S : 0.00 US ft                                         |                            | +E / -W : 0.00 US ft                    | Az :179.57°  |
|                                                    | Magnetic Parameters                                          |                            |                                         |              |
|                                                    | Model : BGGM                                                 | Field Strength : 48275.7nT | Dec : 7.29°                             | Dip : 60.10° |

## Target Set

**Name** : Josephine Fed Com    **Number of Targets** : 1  
#1H

## Comment :

|              |                                      |                            |                           |                     |
|--------------|--------------------------------------|----------------------------|---------------------------|---------------------|
| Target Name: | Position (Relative to Slot centre)   |                            |                           |                     |
|              | +N / -S : -4545.70US ft              | Northing : 436369.50 US ft | Latitude : 32°11'48.12"   |                     |
| PBHL         | +E / -W : 34.40 US ft                | Easting : 808854.10US ft   | Longitude : -103°28'6.62" |                     |
| Shape:       | TVD (Kelly Bushing) : 11125.00 US ft |                            |                           |                     |
| Cuboid       | Orientation                          |                            | Azimuth : 0.00°           | Inclination : 0.00° |
|              | Dimensions                           | Length : 0.00 US ft        | Breadth : 0.00 US ft      | Height : 0.00 US ft |

Well path created using minimum curvature

## 5D Plan Report

| Salient Points (Relative to Slot centre, TVD relative to Kelly Bushing ) |            |           |                |                     |                     |                         |               |                            |                            |               |         |
|--------------------------------------------------------------------------|------------|-----------|----------------|---------------------|---------------------|-------------------------|---------------|----------------------------|----------------------------|---------------|---------|
| MD<br>(US ft)                                                            | Inc<br>(°) | Az<br>(°) | TVD<br>(US ft) | N.Offset<br>(US ft) | E.Offset<br>(US ft) | DLS<br>(°/100 US<br>ft) | VS<br>(US ft) | B.Rate<br>(°/100 US<br>ft) | T.Rate<br>(°/100 US<br>ft) | T.Face<br>(°) | Comment |
| 0.00                                                                     | 0.00       | 0.00      | 0.00           | 0.00                | 0.00                | 0.00                    | -0.00         | 0.00                       | 0.00                       | 0.00          |         |
| 10552.04                                                                 | 0.00       | 0.00      | 10552.04       | 0.00                | 0.00                | 0.00                    | -0.00         | 0.00                       | 0.00                       | 0.00          | KOP     |
| 11452.04                                                                 | 90.00      | 179.57    | 11125.00       | -572.94             | 4.34                | 10.00                   | 572.96        | 10.00                      | 0.00                       | 179.57        | LP      |
| 15424.91                                                                 | 90.00      | 179.57    | 11125.00       | -4545.70            | 34.40               | 0.00                    | 4545.83       | 0.00                       | 0.00                       | 0.00          | PBHL    |

| Interpolated Points (Relative to Slot centre, TVD relative to Kelly Bushing ) |            |           |                |                     |                     |               |                         |                     |                    |               |         |
|-------------------------------------------------------------------------------|------------|-----------|----------------|---------------------|---------------------|---------------|-------------------------|---------------------|--------------------|---------------|---------|
| MD<br>(US ft)                                                                 | Inc<br>(°) | Az<br>(°) | TVD<br>(US ft) | N.Offset<br>(US ft) | E.Offset<br>(US ft) | VS<br>(US ft) | DLS<br>(°/100 US<br>ft) | Northing<br>(US ft) | Easting<br>(US ft) | T.Face<br>(°) | Comment |
| 0.00                                                                          | 0.00       | 0.00      | 0.00           | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 100.00                                                                        | 0.00       | 0.00      | 100.00         | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 200.00                                                                        | 0.00       | 0.00      | 200.00         | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 300.00                                                                        | 0.00       | 0.00      | 300.00         | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 400.00                                                                        | 0.00       | 0.00      | 400.00         | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 500.00                                                                        | 0.00       | 0.00      | 500.00         | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 600.00                                                                        | 0.00       | 0.00      | 600.00         | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 700.00                                                                        | 0.00       | 0.00      | 700.00         | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 800.00                                                                        | 0.00       | 0.00      | 800.00         | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 900.00                                                                        | 0.00       | 0.00      | 900.00         | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 1000.00                                                                       | 0.00       | 0.00      | 1000.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 1100.00                                                                       | 0.00       | 0.00      | 1100.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 1200.00                                                                       | 0.00       | 0.00      | 1200.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 1300.00                                                                       | 0.00       | 0.00      | 1300.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 1400.00                                                                       | 0.00       | 0.00      | 1400.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 1500.00                                                                       | 0.00       | 0.00      | 1500.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 1600.00                                                                       | 0.00       | 0.00      | 1600.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 1700.00                                                                       | 0.00       | 0.00      | 1700.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 1800.00                                                                       | 0.00       | 0.00      | 1800.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 1900.00                                                                       | 0.00       | 0.00      | 1900.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 2000.00                                                                       | 0.00       | 0.00      | 2000.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 2100.00                                                                       | 0.00       | 0.00      | 2100.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 2200.00                                                                       | 0.00       | 0.00      | 2200.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 2300.00                                                                       | 0.00       | 0.00      | 2300.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 2400.00                                                                       | 0.00       | 0.00      | 2400.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 2500.00                                                                       | 0.00       | 0.00      | 2500.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 2600.00                                                                       | 0.00       | 0.00      | 2600.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 2700.00                                                                       | 0.00       | 0.00      | 2700.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 2800.00                                                                       | 0.00       | 0.00      | 2800.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 2900.00                                                                       | 0.00       | 0.00      | 2900.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 3000.00                                                                       | 0.00       | 0.00      | 3000.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 3100.00                                                                       | 0.00       | 0.00      | 3100.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 3200.00                                                                       | 0.00       | 0.00      | 3200.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 3300.00                                                                       | 0.00       | 0.00      | 3300.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 3400.00                                                                       | 0.00       | 0.00      | 3400.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 3500.00                                                                       | 0.00       | 0.00      | 3500.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 3600.00                                                                       | 0.00       | 0.00      | 3600.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 3700.00                                                                       | 0.00       | 0.00      | 3700.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 3800.00                                                                       | 0.00       | 0.00      | 3800.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 3900.00                                                                       | 0.00       | 0.00      | 3900.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 4000.00                                                                       | 0.00       | 0.00      | 4000.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 4100.00                                                                       | 0.00       | 0.00      | 4100.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 4200.00                                                                       | 0.00       | 0.00      | 4200.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 4300.00                                                                       | 0.00       | 0.00      | 4300.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 4400.00                                                                       | 0.00       | 0.00      | 4400.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 4500.00                                                                       | 0.00       | 0.00      | 4500.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 4600.00                                                                       | 0.00       | 0.00      | 4600.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 4700.00                                                                       | 0.00       | 0.00      | 4700.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 4800.00                                                                       | 0.00       | 0.00      | 4800.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 4900.00                                                                       | 0.00       | 0.00      | 4900.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |



## 5D Plan Report

| Interpolated Points (Relative to Slot centre, TVD relative to Kelly Bushing ) |            |           |                |                     |                     |               |                         |                     |                    |               |         |
|-------------------------------------------------------------------------------|------------|-----------|----------------|---------------------|---------------------|---------------|-------------------------|---------------------|--------------------|---------------|---------|
| MD<br>(US ft)                                                                 | Inc<br>(°) | Az<br>(°) | TVD<br>(US ft) | N.Offset<br>(US ft) | E.Offset<br>(US ft) | VS<br>(US ft) | DLS<br>(°/100 US<br>ft) | Northing<br>(US ft) | Easting<br>(US ft) | T.Face<br>(°) | Comment |
| 5000.00                                                                       | 0.00       | 0.00      | 5000.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 5100.00                                                                       | 0.00       | 0.00      | 5100.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 5200.00                                                                       | 0.00       | 0.00      | 5200.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 5300.00                                                                       | 0.00       | 0.00      | 5300.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 5400.00                                                                       | 0.00       | 0.00      | 5400.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 5500.00                                                                       | 0.00       | 0.00      | 5500.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 5600.00                                                                       | 0.00       | 0.00      | 5600.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 5700.00                                                                       | 0.00       | 0.00      | 5700.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 5800.00                                                                       | 0.00       | 0.00      | 5800.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 5900.00                                                                       | 0.00       | 0.00      | 5900.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 6000.00                                                                       | 0.00       | 0.00      | 6000.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 6100.00                                                                       | 0.00       | 0.00      | 6100.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 6200.00                                                                       | 0.00       | 0.00      | 6200.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 6300.00                                                                       | 0.00       | 0.00      | 6300.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 6400.00                                                                       | 0.00       | 0.00      | 6400.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 6500.00                                                                       | 0.00       | 0.00      | 6500.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 6600.00                                                                       | 0.00       | 0.00      | 6600.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 6700.00                                                                       | 0.00       | 0.00      | 6700.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 6800.00                                                                       | 0.00       | 0.00      | 6800.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 6900.00                                                                       | 0.00       | 0.00      | 6900.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 7000.00                                                                       | 0.00       | 0.00      | 7000.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 7100.00                                                                       | 0.00       | 0.00      | 7100.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 7200.00                                                                       | 0.00       | 0.00      | 7200.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 7300.00                                                                       | 0.00       | 0.00      | 7300.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 7400.00                                                                       | 0.00       | 0.00      | 7400.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 7500.00                                                                       | 0.00       | 0.00      | 7500.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 7600.00                                                                       | 0.00       | 0.00      | 7600.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 7700.00                                                                       | 0.00       | 0.00      | 7700.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 7800.00                                                                       | 0.00       | 0.00      | 7800.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 7900.00                                                                       | 0.00       | 0.00      | 7900.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 8000.00                                                                       | 0.00       | 0.00      | 8000.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 8100.00                                                                       | 0.00       | 0.00      | 8100.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 8200.00                                                                       | 0.00       | 0.00      | 8200.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 8300.00                                                                       | 0.00       | 0.00      | 8300.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 8400.00                                                                       | 0.00       | 0.00      | 8400.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 8500.00                                                                       | 0.00       | 0.00      | 8500.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 8600.00                                                                       | 0.00       | 0.00      | 8600.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 8700.00                                                                       | 0.00       | 0.00      | 8700.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 8800.00                                                                       | 0.00       | 0.00      | 8800.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 8900.00                                                                       | 0.00       | 0.00      | 8900.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 9000.00                                                                       | 0.00       | 0.00      | 9000.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 9100.00                                                                       | 0.00       | 0.00      | 9100.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 9200.00                                                                       | 0.00       | 0.00      | 9200.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 9300.00                                                                       | 0.00       | 0.00      | 9300.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 9400.00                                                                       | 0.00       | 0.00      | 9400.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 9500.00                                                                       | 0.00       | 0.00      | 9500.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 9600.00                                                                       | 0.00       | 0.00      | 9600.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 9700.00                                                                       | 0.00       | 0.00      | 9700.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 9800.00                                                                       | 0.00       | 0.00      | 9800.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 9900.00                                                                       | 0.00       | 0.00      | 9900.00        | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 10000.00                                                                      | 0.00       | 0.00      | 10000.00       | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 10100.00                                                                      | 0.00       | 0.00      | 10100.00       | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 10200.00                                                                      | 0.00       | 0.00      | 10200.00       | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 10300.00                                                                      | 0.00       | 0.00      | 10300.00       | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 10400.00                                                                      | 0.00       | 0.00      | 10400.00       | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 10500.00                                                                      | 0.00       | 0.00      | 10500.00       | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          |         |
| 10552.04                                                                      | 0.00       | 0.00      | 10552.04       | 0.00                | 0.00                | -0.00         | 0.00                    | 440915.20           | 808819.70          | 0.00          | KOP     |
| 10600.00                                                                      | 4.80       | 179.57    | 10599.94       | -2.01               | 0.02                | 2.01          | 10.00                   | 440913.19           | 808819.72          | 179.57        |         |

## 5D Plan Report

| Interpolated Points (Relative to Slot centre, TVD relative to Kelly Bushing) |            |           |                |                      |                      |               |                         |                     |                    |               |         |
|------------------------------------------------------------------------------|------------|-----------|----------------|----------------------|----------------------|---------------|-------------------------|---------------------|--------------------|---------------|---------|
| MD<br>(US ft)                                                                | Inc<br>(°) | Az<br>(°) | TVD<br>(US ft) | N. Offset<br>(US ft) | E. Offset<br>(US ft) | VS<br>(US ft) | DLS<br>(°/100 US<br>ft) | Northing<br>(US ft) | Easting<br>(US ft) | T.Face<br>(°) | Comment |
| 10700.00                                                                     | 14.80      | 179.57    | 10698.36       | -19.00               | 0.14                 | 19.00         | 10.00                   | 440896.20           | 808819.84          | 0.00          |         |
| 10800.00                                                                     | 24.80      | 179.57    | 10792.33       | -52.82               | 0.40                 | 52.82         | 10.00                   | 440862.38           | 808820.10          | 0.00          |         |
| 10900.00                                                                     | 34.80      | 179.57    | 10879.00       | -102.45              | 0.78                 | 102.45        | 10.00                   | 440812.75           | 808820.48          | 0.00          |         |
| 11000.00                                                                     | 44.80      | 179.57    | 10955.74       | -166.37              | 1.26                 | 166.38        | 10.00                   | 440748.83           | 808820.96          | 0.00          |         |
| 11100.00                                                                     | 54.80      | 179.57    | 11020.21       | -242.65              | 1.84                 | 242.65        | 10.00                   | 440672.55           | 808821.54          | 0.00          |         |
| 11200.00                                                                     | 64.80      | 179.57    | 11070.45       | -328.96              | 2.49                 | 328.97        | 10.00                   | 440586.24           | 808822.19          | 0.00          |         |
| 11300.00                                                                     | 74.80      | 179.57    | 11104.94       | -422.68              | 3.20                 | 422.70        | 10.00                   | 440492.52           | 808822.90          | 0.00          |         |
| 11400.00                                                                     | 84.80      | 179.57    | 11122.64       | -520.97              | 3.94                 | 520.99        | 10.00                   | 440394.23           | 808823.64          | 0.00          |         |
| 11452.04                                                                     | 90.00      | 179.57    | 11125.00       | -572.94              | 4.34                 | 572.96        | 10.00                   | 440342.26           | 808824.04          | 0.00          | LP      |
| 11500.00                                                                     | 90.00      | 179.57    | 11125.00       | -620.90              | 4.70                 | 620.92        | 0.00                    | 440294.30           | 808824.40          | 0.00          |         |
| 11600.00                                                                     | 90.00      | 179.57    | 11125.00       | -720.90              | 5.46                 | 720.92        | 0.00                    | 440194.30           | 808825.16          | 0.00          |         |
| 11700.00                                                                     | 90.00      | 179.57    | 11125.00       | -820.89              | 6.21                 | 820.92        | 0.00                    | 440094.31           | 808825.91          | 0.00          |         |
| 11800.00                                                                     | 90.00      | 179.57    | 11125.00       | -920.89              | 6.97                 | 920.92        | 0.00                    | 439994.31           | 808826.67          | 0.00          |         |
| 11900.00                                                                     | 90.00      | 179.57    | 11125.00       | -1020.89             | 7.73                 | 1020.92       | 0.00                    | 439894.31           | 808827.43          | 0.00          |         |
| 12000.00                                                                     | 90.00      | 179.57    | 11125.00       | -1120.89             | 8.48                 | 1120.92       | 0.00                    | 439794.31           | 808828.18          | 0.00          |         |
| 12100.00                                                                     | 90.00      | 179.57    | 11125.00       | -1220.88             | 9.24                 | 1220.92       | 0.00                    | 439694.32           | 808828.94          | 0.00          |         |
| 12200.00                                                                     | 90.00      | 179.57    | 11125.00       | -1320.88             | 10.00                | 1320.92       | 0.00                    | 439594.32           | 808829.70          | 0.00          |         |
| 12300.00                                                                     | 90.00      | 179.57    | 11125.00       | -1420.88             | 10.75                | 1420.92       | 0.00                    | 439494.32           | 808830.45          | 0.00          |         |
| 12400.00                                                                     | 90.00      | 179.57    | 11125.00       | -1520.87             | 11.51                | 1520.92       | 0.00                    | 439394.33           | 808831.21          | 0.00          |         |
| 12500.00                                                                     | 90.00      | 179.57    | 11125.00       | -1620.87             | 12.27                | 1620.92       | 0.00                    | 439294.33           | 808831.97          | 0.00          |         |
| 12600.00                                                                     | 90.00      | 179.57    | 11125.00       | -1720.87             | 13.02                | 1720.92       | 0.00                    | 439194.33           | 808832.72          | 0.00          |         |
| 12700.00                                                                     | 90.00      | 179.57    | 11125.00       | -1820.87             | 13.78                | 1820.92       | 0.00                    | 439094.33           | 808833.48          | 0.00          |         |
| 12800.00                                                                     | 90.00      | 179.57    | 11125.00       | -1920.86             | 14.54                | 1920.92       | 0.00                    | 438994.34           | 808834.24          | 0.00          |         |
| 12900.00                                                                     | 90.00      | 179.57    | 11125.00       | -2020.86             | 15.29                | 2020.92       | 0.00                    | 438894.34           | 808834.99          | 0.00          |         |
| 13000.00                                                                     | 90.00      | 179.57    | 11125.00       | -2120.86             | 16.05                | 2120.92       | 0.00                    | 438794.34           | 808835.75          | 0.00          |         |
| 13100.00                                                                     | 90.00      | 179.57    | 11125.00       | -2220.85             | 16.81                | 2220.92       | 0.00                    | 438694.35           | 808836.51          | 0.00          |         |
| 13200.00                                                                     | 90.00      | 179.57    | 11125.00       | -2320.85             | 17.56                | 2320.92       | 0.00                    | 438594.35           | 808837.26          | 0.00          |         |
| 13300.00                                                                     | 90.00      | 179.57    | 11125.00       | -2420.85             | 18.32                | 2420.92       | 0.00                    | 438494.35           | 808838.02          | 0.00          |         |
| 13400.00                                                                     | 90.00      | 179.57    | 11125.00       | -2520.85             | 19.08                | 2520.92       | 0.00                    | 438394.35           | 808838.78          | 0.00          |         |
| 13500.00                                                                     | 90.00      | 179.57    | 11125.00       | -2620.84             | 19.83                | 2620.92       | 0.00                    | 438294.36           | 808839.53          | 0.00          |         |
| 13600.00                                                                     | 90.00      | 179.57    | 11125.00       | -2720.84             | 20.59                | 2720.92       | 0.00                    | 438194.36           | 808840.29          | 0.00          |         |
| 13700.00                                                                     | 90.00      | 179.57    | 11125.00       | -2820.84             | 21.35                | 2820.92       | 0.00                    | 438094.36           | 808841.05          | 0.00          |         |
| 13800.00                                                                     | 90.00      | 179.57    | 11125.00       | -2920.83             | 22.10                | 2920.92       | 0.00                    | 437994.37           | 808841.80          | 0.00          |         |
| 13900.00                                                                     | 90.00      | 179.57    | 11125.00       | -3020.83             | 22.86                | 3020.92       | 0.00                    | 437894.37           | 808842.56          | 0.00          |         |
| 14000.00                                                                     | 90.00      | 179.57    | 11125.00       | -3120.83             | 23.62                | 3120.92       | 0.00                    | 437794.37           | 808843.32          | 0.00          |         |
| 14100.00                                                                     | 90.00      | 179.57    | 11125.00       | -3220.83             | 24.37                | 3220.92       | 0.00                    | 437694.37           | 808844.07          | 0.00          |         |
| 14200.00                                                                     | 90.00      | 179.57    | 11125.00       | -3320.82             | 25.13                | 3320.92       | 0.00                    | 437594.38           | 808844.83          | 0.00          |         |
| 14300.00                                                                     | 90.00      | 179.57    | 11125.00       | -3420.82             | 25.89                | 3420.92       | 0.00                    | 437494.38           | 808845.59          | 0.00          |         |
| 14400.00                                                                     | 90.00      | 179.57    | 11125.00       | -3520.82             | 26.64                | 3520.92       | 0.00                    | 437394.38           | 808846.34          | 0.00          |         |
| 14500.00                                                                     | 90.00      | 179.57    | 11125.00       | -3620.81             | 27.40                | 3620.92       | 0.00                    | 437294.39           | 808847.10          | 0.00          |         |
| 14600.00                                                                     | 90.00      | 179.57    | 11125.00       | -3720.81             | 28.16                | 3720.92       | 0.00                    | 437194.39           | 808847.86          | 0.00          |         |
| 14700.00                                                                     | 90.00      | 179.57    | 11125.00       | -3820.81             | 28.91                | 3820.92       | 0.00                    | 437094.39           | 808848.61          | 0.00          |         |
| 14800.00                                                                     | 90.00      | 179.57    | 11125.00       | -3920.80             | 29.67                | 3920.92       | 0.00                    | 436994.40           | 808849.37          | 0.00          |         |
| 14900.00                                                                     | 90.00      | 179.57    | 11125.00       | -4020.80             | 30.43                | 4020.92       | 0.00                    | 436894.40           | 808850.13          | 0.00          |         |
| 15000.00                                                                     | 90.00      | 179.57    | 11125.00       | -4120.80             | 31.18                | 4120.92       | 0.00                    | 436794.40           | 808850.88          | 0.00          |         |
| 15100.00                                                                     | 90.00      | 179.57    | 11125.00       | -4220.80             | 31.94                | 4220.92       | 0.00                    | 436694.40           | 808851.64          | 0.00          |         |
| 15200.00                                                                     | 90.00      | 179.57    | 11125.00       | -4320.79             | 32.70                | 4320.92       | 0.00                    | 436594.41           | 808852.40          | 0.00          |         |
| 15300.00                                                                     | 90.00      | 179.57    | 11125.00       | -4420.79             | 33.45                | 4420.92       | 0.00                    | 436494.41           | 808853.15          | 0.00          |         |
| 15400.00                                                                     | 90.00      | 179.57    | 11125.00       | -4520.79             | 34.21                | 4520.92       | 0.00                    | 436394.41           | 808853.91          | 0.00          |         |
| 15424.91                                                                     | 90.00      | 179.57    | 11125.00       | -4545.70             | 34.40                | 4545.83       | 0.00                    | 436369.50           | 808854.10          | 0.00          | PBHL    |



**Weatherford**

## Weatherford Drilling Services

GeoDec4 v2.0.0.3

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Report Date: August 05, 2014  
Job Number: \_\_\_\_\_  
Customer: GMT Exploration  
Well Name: Josephine Fed Com #1H  
API Number: \_\_\_\_\_  
Rig Name: \_\_\_\_\_  
Location: Lea Co, New Mexico (Nad 83 NME)  
Block: \_\_\_\_\_  
Engineer: Patrick Rudolph

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|                                         |                                         |
|-----------------------------------------|-----------------------------------------|
| NAD83 / New Mexico East (ftUS)          | NAD83 (1986)                            |
| Projected Coordinate System             | Geodetic Coordinate System              |
| Datum: North American Datum 1983 (1986) | Datum: North American Datum 1983 (1986) |
| Ellipsoid: GRS 1980                     | Ellipsoid: GRS 1980                     |
| EPSG: 2257                              | EPSG: 4269                              |
| North: 440915.2 US Survey Foot          | Latitude: 32.209195 Degree              |
| East: 808819.7 US Survey Foot           | Longitude: 103.468499 Degree            |
| Convergence: 0.46°                      |                                         |
| Declination: 7.25°                      |                                         |
| Total Correction: 6.79°                 |                                         |
| Datum Transformation: none              |                                         |

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### Geodetic Location WGS84

MSL Elevation = 0 m  
Latitude = 32° 12' 33.10" N  
Longitude = 103° 28' 06.60" W

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|                                 |                              |
|---------------------------------|------------------------------|
| Magnetic Declination = 7.25 deg | [True North Offset]          |
| Local Gravity = .9988 g         | Checksum = 6716              |
| Local Field Strength = 48287 nT | Magnetic Vector X = 23885 nT |
| Magnetic Dip = 60.09 deg        | Magnetic Vector Y = 3038 nT  |
| Magnetic Model = bggm2013.bgs   | Magnetic Vector Z = 41856 nT |
| Run Date = October 01, 2014     | Magnetic Vector H = 24077 nT |

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Signed: \_\_\_\_\_ Date: \_\_\_\_\_

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