



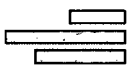
Weatherford®



## Drilling Services

30-015-41359

## Proposal



devon

IRRITABLE 22 STATE COM 2H

EDDY COUNTY, NM

WELL FILE: **PLAN 1**

MAY 6, 2013

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Irritable 22 State Com 2H  
Eddy Co., NM

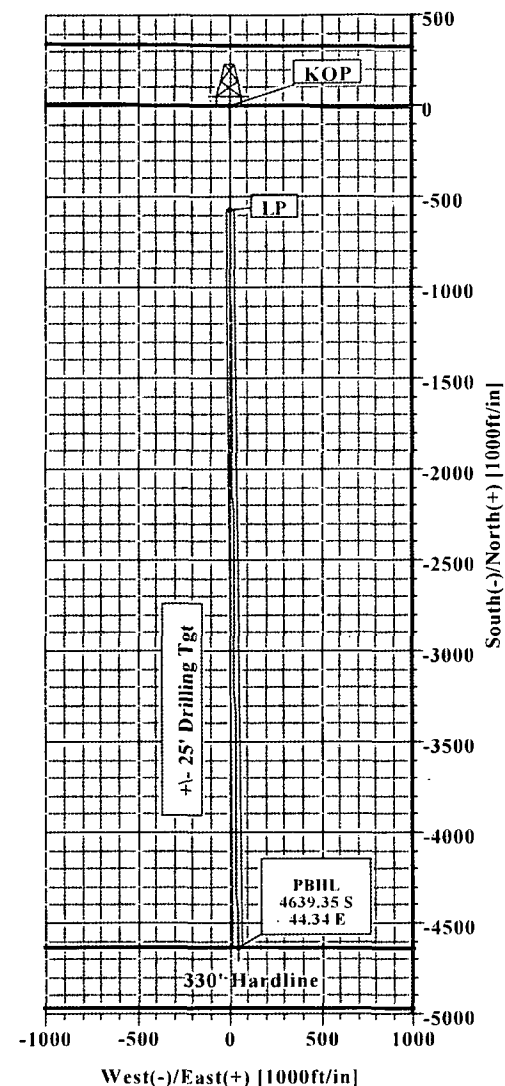
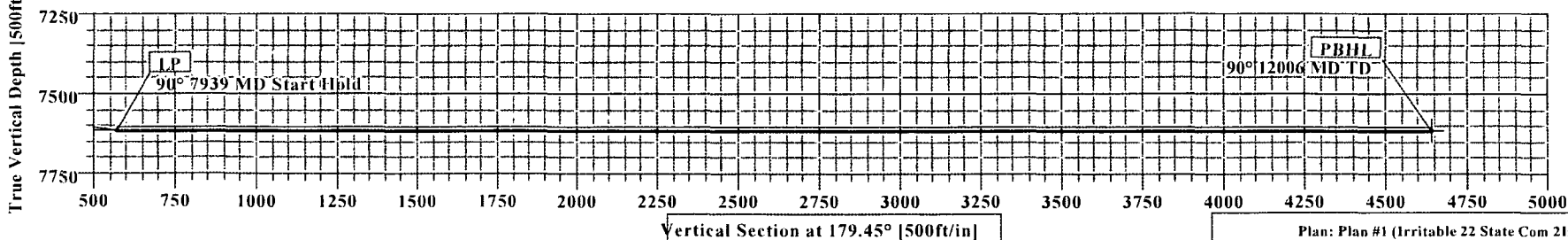
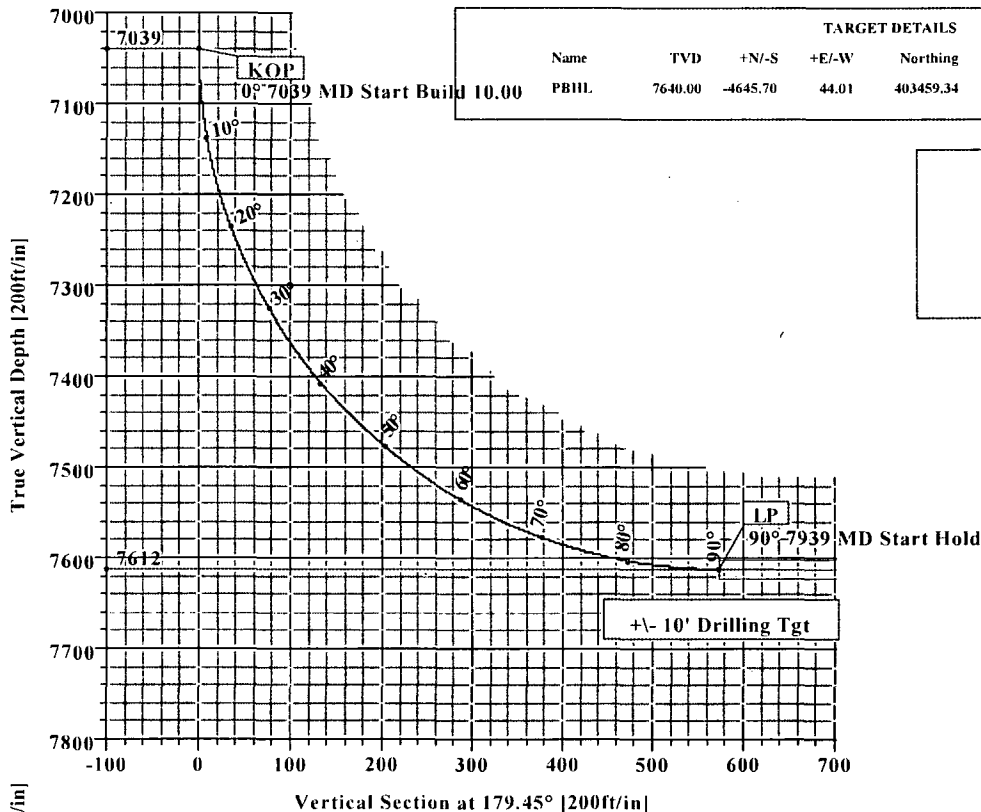
KB ELEV: 3104  
GL ELEV: 3079

| SECTION DETAILS |          |       |        |         |          |       |       |        |         |        |
|-----------------|----------|-------|--------|---------|----------|-------|-------|--------|---------|--------|
| Sec             | MD       | Inc   | Azi    | TVD     | +N/-S    | +E/-W | DLeg  | TFace  | VSec    | Target |
| 1               | 0.00     | 0.00  | 179.45 | 0.00    | 0.00     | 0.00  | 0.00  | 0.00   | 0.00    |        |
| 2               | 7039.04  | 0.00  | 179.45 | 7039.04 | 0.00     | 0.00  | 0.00  | 0.00   | 0.00    |        |
| 3               | 7939.04  | 90.00 | 179.45 | 7612.00 | -572.93  | 5.48  | 10.00 | 179.45 | 572.96  |        |
| 4               | 12005.65 | 90.00 | 179.45 | 7612.00 | -4639.35 | 44.34 | 0.00  | 0.00   | 4639.56 | PBHL   |

| WELL DETAILS              |       |       |           |           |               |                |
|---------------------------|-------|-------|-----------|-----------|---------------|----------------|
| Name                      | +N/-S | +E/-W | Northing  | Easting   | Latitude      | Longitude      |
| Irritable 22 State Com 1H | 0.00  | 0.00  | 408105.04 | 591415.19 | 32°07'18.675N | 104°10'17.673W |

| TARGET DETAILS |         |          |       |           |           |                     |
|----------------|---------|----------|-------|-----------|-----------|---------------------|
| Name           | TVD     | +N/-S    | +E/-W | Northing  | Easting   | Shape               |
| PBHL           | 7640.00 | -4645.70 | 44.01 | 403459.34 | 591459.20 | Rectangle (4072x50) |

| SITE DETAILS                    |  |
|---------------------------------|--|
| Irritable 22 State Com 1H       |  |
| Site Centre Northing: 408105.04 |  |
| Easting: 591415.19              |  |
| Ground Level: 3071.00           |  |
| Positional Uncertainty: 0.00    |  |
| Convergence: 0.09               |  |



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# Weatherford

## Wft Plan Report X Y's.

**Weatherford**

Company: Devon Energy Date: 5/6/2013 Time: 08:27:44 Page: 1  
Field: Eddy Co., NM (NAD 83) Co-ordinate(NE) Reference: Well: Irritable 22 State Com 2H  
Site: Irritable 22 State Com 2H Vertical (TVD) Reference: SITE 3104.0  
Well: Irritable 22 State Com 2H Section (VS) Reference: Well (0.00N,0.00E,179.45Azi)  
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Plan: Plan #1 Date Composed: 5/3/2013  
Principal: Yes Version: 1  
Tied-to: From Surface

Site: Irritable 22 State Com 2H

Site Position: Northing: 408118.49 ft Latitude: 32 7 18.828 N  
From: Map Easting: 590095.31 ft Longitude: 104 10 33.021 W  
Position Uncertainty: 0.00 ft North Reference: Grid  
Ground Level: 3079.00 ft Grid Convergence: 0.08 deg

Well: Irritable 22 State Com 2H Slot Name:  
Well Position: +N/-S 0.00 ft Northing: 408118.49 ft Latitude: 32 7 18.828 N  
+E/-W 0.00 ft Easting: 590095.31 ft Longitude: 104 10 33.021 W  
Position Uncertainty: 0.00 ft

Wellpath: 1 Drilled From: Surface  
Current Datum: SITE Height 3104.00 ft Tie-on Depth: 0.00 ft  
Magnetic Data: 8/10/2013 Above System Datum: Mean Sea Level  
Field Strength: 48298 nT Declination: 7.59 deg  
Vertical Section: Depth From (TVD) +N/-S +E/-W Mag Dip Angle: 59.94 deg  
ft ft ft deg  
0.00 0.00 0.00 179.45

### 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        | 179.45      | 0.00      | 0.00        | 0.00        | 0.00             | 0.00               | 0.00              | 0.00       |        |
| 7039.04  | 0.00        | 179.45      | 7039.04   | 0.00        | 0.00        | 0.00             | 0.00               | 0.00              | 0.00       |        |
| 7939.04  | 90.00       | 179.45      | 7612.00   | -572.93     | 5.48        | 10.00            | 10.00              | 0.00              | 179.45     |        |
| 12005.65 | 90.00       | 179.45      | 7612.00   | -4639.35    | 44.34       | 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 | DLS<br>deg/100ft | MapN<br>ft | MapE<br>ft | Comment |
|----------|-------------|-------------|-----------|-----------|-----------|----------|------------------|------------|------------|---------|
| 7000.00  | 0.00        | 179.45      | 7000.00   | 0.00      | 0.00      | 0.00     | 0.00             | 408118.49  | 590095.31  |         |
| 7039.04  | 0.00        | 179.45      | 7039.04   | 0.00      | 0.00      | 0.00     | 0.00             | 408118.49  | 590095.31  | KOP     |
| 7100.00  | 6.10        | 179.45      | 7099.89   | -3.24     | 0.03      | 3.24     | 10.00            | 408115.25  | 590095.34  |         |
| 7200.00  | 16.10       | 179.45      | 7197.89   | -22.46    | 0.21      | 22.46    | 10.00            | 408096.03  | 590095.52  |         |
| 7300.00  | 26.10       | 179.45      | 7291.07   | -58.40    | 0.56      | 58.41    | 10.00            | 408060.09  | 590095.87  |         |
| 7400.00  | 36.10       | 179.45      | 7376.59   | -109.98   | 1.05      | 109.99   | 10.00            | 408008.51  | 590096.36  |         |
| 7500.00  | 46.10       | 179.45      | 7451.86   | -175.63   | 1.68      | 175.64   | 10.00            | 407942.86  | 590096.99  |         |
| 7600.00  | 56.10       | 179.45      | 7514.58   | -253.35   | 2.42      | 253.36   | 10.00            | 407865.14  | 590097.73  |         |
| 7700.00  | 66.10       | 179.45      | 7562.85   | -340.77   | 3.26      | 340.79   | 10.00            | 407777.72  | 590098.57  |         |
| 7800.00  | 76.10       | 179.45      | 7595.21   | -435.26   | 4.16      | 435.28   | 10.00            | 407683.23  | 590099.47  |         |
| 7900.00  | 86.10       | 179.45      | 7610.67   | -533.92   | 5.10      | 533.95   | 10.00            | 407584.57  | 590100.41  |         |
| 7939.04  | 90.00       | 179.45      | 7612.00   | -572.93   | 5.48      | 572.96   | 10.00            | 407545.56  | 590100.79  | LP      |
| 8000.00  | 90.00       | 179.45      | 7612.00   | -633.89   | 6.06      | 633.92   | 0.00             | 407484.60  | 590101.37  |         |
| 8100.00  | 90.00       | 179.45      | 7612.00   | -733.88   | 7.01      | 733.92   | 0.00             | 407384.61  | 590102.32  |         |
| 8200.00  | 90.00       | 179.45      | 7612.00   | -833.88   | 7.97      | 833.92   | 0.00             | 407284.61  | 590103.28  |         |
| 8300.00  | 90.00       | 179.45      | 7612.00   | -933.87   | 8.93      | 933.92   | 0.00             | 407184.62  | 590104.24  |         |
| 8400.00  | 90.00       | 179.45      | 7612.00   | -1033.87  | 9.88      | 1033.92  | 0.00             | 407084.62  | 590105.19  |         |
| 8500.00  | 90.00       | 179.45      | 7612.00   | -1133.86  | 10.84     | 1133.92  | 0.00             | 406984.63  | 590106.15  |         |
| 8600.00  | 90.00       | 179.45      | 7612.00   | -1233.86  | 11.79     | 1233.92  | 0.00             | 406884.63  | 590107.10  |         |
| 8700.00  | 90.00       | 179.45      | 7612.00   | -1333.85  | 12.75     | 1333.92  | 0.00             | 406784.64  | 590108.06  |         |
| 8800.00  | 90.00       | 179.45      | 7612.00   | -1433.85  | 13.70     | 1433.92  | 0.00             | 406684.64  | 590109.01  |         |
| 8900.00  | 90.00       | 179.45      | 7612.00   | -1533.85  | 14.66     | 1533.92  | 0.00             | 406584.64  | 590109.97  |         |
| 9000.00  | 90.00       | 179.45      | 7612.00   | -1633.84  | 15.62     | 1633.92  | 0.00             | 406484.65  | 590110.93  |         |



# Weatherford

## Wft Plan Report X Y's.

**Weatherford**

Company: Devon Energy  
Field: Eddy Co., NM (NAD 83)  
Site: Irritable 22 State Com 2H  
Well: Irritable 22 State Com 2H  
Wellpath: 1

Date: 5/6/2013 Time: 08:27:44 Page: 2  
Co-ordinate(NE) Reference: Well: Irritable 22 State Com 2H  
Vertical (TVD) Reference: SITE 3104.0  
Section (VS) Reference: Well (0.00N,0.00E,179.45Azi)  
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 | DLS<br>deg/100ft | MapN<br>ft | MapE<br>ft | Comment |
|----------|-------------|-------------|-----------|-----------|-----------|----------|------------------|------------|------------|---------|
| 9100.00  | 90.00       | 179.45      | 7612.00   | -1733.84  | 16.57     | 1733.92  | 0.00             | 406384.65  | 590111.88  |         |
| 9200.00  | 90.00       | 179.45      | 7612.00   | -1833.83  | 17.53     | 1833.92  | 0.00             | 406284.66  | 590112.84  |         |
| 9300.00  | 90.00       | 179.45      | 7612.00   | -1933.83  | 18.48     | 1933.92  | 0.00             | 406184.66  | 590113.79  |         |
| 9400.00  | 90.00       | 179.45      | 7612.00   | -2033.82  | 19.44     | 2033.92  | 0.00             | 406084.67  | 590114.75  |         |
| 9500.00  | 90.00       | 179.45      | 7612.00   | -2133.82  | 20.39     | 2133.92  | 0.00             | 405984.67  | 590115.70  |         |
| 9600.00  | 90.00       | 179.45      | 7612.00   | -2233.81  | 21.35     | 2233.92  | 0.00             | 405884.68  | 590116.66  |         |
| 9700.00  | 90.00       | 179.45      | 7612.00   | -2333.81  | 22.31     | 2333.92  | 0.00             | 405784.68  | 590117.62  |         |
| 9800.00  | 90.00       | 179.45      | 7612.00   | -2433.80  | 23.26     | 2433.92  | 0.00             | 405684.69  | 590118.57  |         |
| 9900.00  | 90.00       | 179.45      | 7612.00   | -2533.80  | 24.22     | 2533.92  | 0.00             | 405584.69  | 590119.53  |         |
| 10000.00 | 90.00       | 179.45      | 7612.00   | -2633.80  | 25.17     | 2633.92  | 0.00             | 405484.69  | 590120.48  |         |
| 10100.00 | 90.00       | 179.45      | 7612.00   | -2733.79  | 26.13     | 2733.92  | 0.00             | 405384.70  | 590121.44  |         |
| 10200.00 | 90.00       | 179.45      | 7612.00   | -2833.79  | 27.08     | 2833.92  | 0.00             | 405284.70  | 590122.39  |         |
| 10300.00 | 90.00       | 179.45      | 7612.00   | -2933.78  | 28.04     | 2933.92  | 0.00             | 405184.71  | 590123.35  |         |
| 10400.00 | 90.00       | 179.45      | 7612.00   | -3033.78  | 28.99     | 3033.92  | 0.00             | 405084.71  | 590124.30  |         |
| 10500.00 | 90.00       | 179.45      | 7612.00   | -3133.77  | 29.95     | 3133.92  | 0.00             | 404984.72  | 590125.26  |         |
| 10600.00 | 90.00       | 179.45      | 7612.00   | -3233.77  | 30.91     | 3233.92  | 0.00             | 404884.72  | 590126.22  |         |
| 10700.00 | 90.00       | 179.45      | 7612.00   | -3333.76  | 31.86     | 3333.92  | 0.00             | 404784.73  | 590127.17  |         |
| 10800.00 | 90.00       | 179.45      | 7612.00   | -3433.76  | 32.82     | 3433.92  | 0.00             | 404684.73  | 590128.13  |         |
| 10900.00 | 90.00       | 179.45      | 7612.00   | -3533.75  | 33.77     | 3533.92  | 0.00             | 404584.74  | 590129.08  |         |
| 11000.00 | 90.00       | 179.45      | 7612.00   | -3633.75  | 34.73     | 3633.92  | 0.00             | 404484.74  | 590130.04  |         |
| 11100.00 | 90.00       | 179.45      | 7612.00   | -3733.75  | 35.68     | 3733.92  | 0.00             | 404384.74  | 590130.99  |         |
| 11200.00 | 90.00       | 179.45      | 7612.00   | -3833.74  | 36.64     | 3833.92  | 0.00             | 404284.75  | 590131.95  |         |
| 11300.00 | 90.00       | 179.45      | 7612.00   | -3933.74  | 37.60     | 3933.92  | 0.00             | 404184.75  | 590132.91  |         |
| 11400.00 | 90.00       | 179.45      | 7612.00   | -4033.73  | 38.55     | 4033.92  | 0.00             | 404084.76  | 590133.86  |         |
| 11500.00 | 90.00       | 179.45      | 7612.00   | -4133.73  | 39.51     | 4133.92  | 0.00             | 403984.76  | 590134.82  |         |
| 11600.00 | 90.00       | 179.45      | 7612.00   | -4233.72  | 40.46     | 4233.92  | 0.00             | 403884.77  | 590135.77  |         |
| 11700.00 | 90.00       | 179.45      | 7612.00   | -4333.72  | 41.42     | 4333.92  | 0.00             | 403784.77  | 590136.73  |         |
| 11800.00 | 90.00       | 179.45      | 7612.00   | -4433.71  | 42.37     | 4433.92  | 0.00             | 403684.78  | 590137.68  |         |
| 11900.00 | 90.00       | 179.45      | 7612.00   | -4533.71  | 43.33     | 4533.92  | 0.00             | 403584.78  | 590138.64  |         |
| 12000.00 | 90.00       | 179.45      | 7612.00   | -4633.70  | 44.29     | 4633.92  | 0.00             | 403484.79  | 590139.60  |         |
| 12005.65 | 90.00       | 179.45      | 7612.00   | -4639.35  | 44.34     | 4639.56  | 0.00             | 403479.14  | 590139.65  | PBHL    |

### Targets

| Name                 | Description<br>Dip. | Dir. | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | Map<br>Northing<br>ft | Map<br>Easting<br>ft | <---- Latitude ----> |   |          | <---- Longitude ----> |    |          |
|----------------------|---------------------|------|-----------|-------------|-------------|-----------------------|----------------------|----------------------|---|----------|-----------------------|----|----------|
| PBHL                 |                     |      | 7612.00   | -4639.35    | 44.34       | 403479.14             | 590139.65            | 32                   | 6 | 32.915 N | 104                   | 10 | 32.584 W |
| -Rectangle (4066x50) |                     |      |           |             |             |                       |                      |                      |   |          |                       |    |          |

### Casing Points

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

### Formations

| MD | TVD | Formations | Lithology | Dip Angle | Dip Direction |
|----|-----|------------|-----------|-----------|---------------|
|    |     |            |           |           |               |
|    |     |            |           |           |               |



# Weatherford

## Wft Plan Report X Y's.



|                                        |                                                                   |                       |                   |
|----------------------------------------|-------------------------------------------------------------------|-----------------------|-------------------|
| <b>Company:</b> Devon Energy           | <b>Date:</b> 5/6/2013                                             | <b>Time:</b> 08:27:44 | <b>Page:</b> 3    |
| <b>Field:</b> Eddy Co., NM (NAD 83)    | <b>Co-ordinate(NE) Reference:</b> Well: Irritable 22 State Com 2H |                       |                   |
| <b>Site:</b> Irritable 22 State Com 2H | <b>Vertical (TVD) Reference:</b> SITE 3104.0                      |                       |                   |
| <b>Well:</b> Irritable 22 State Com 2H | <b>Section (VS) Reference:</b> Well (0.00N,0.00E,179.45Azi)       |                       |                   |
| <b>Wellpath:</b> 1                     | <b>Survey Calculation Method:</b> Minimum Curvature               |                       | <b>Db:</b> Sybase |

### Annotation

| MD<br>ft | TVD<br>ft |      |
|----------|-----------|------|
| 7039.04  | 7039.04   | KOP  |
| 7939.04  | 7612.00   | LP   |
| 12005.64 | 7612.00   | PBHL |

**Weatherford****Weatherford Drilling Services**

GeoDec v5.03

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Report Date: May 03, 2013  
Job Number: \_\_\_\_\_  
Customer: Devon  
Well Name: Irritable 22 State Com 2H  
API Number: \_\_\_\_\_  
Rig Name: \_\_\_\_\_  
Location: Eddy Co., NM  
Block: \_\_\_\_\_  
Engineer: RWJ

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|                                              |                                             |
|----------------------------------------------|---------------------------------------------|
| US State Plane 1983                          | Geodetic Latitude / Longitude               |
| System: New Mexico Eastern Zone              | System: Latitude / Longitude                |
| Projection: Transverse Mercator/Gauss Kruger | Projection: Geodetic Latitude and Longitude |
| Datum: North American Datum 1983             | Datum: North American Datum 1983            |
| Ellipsoid: GRS 1980                          | Ellipsoid: GRS 1980                         |
| North/South 408118.490 USFT                  | Latitude 32.1218988 DEG                     |
| East/West 590095.310 USFT                    | Longitude -104.1758354 DEG                  |
| Grid Convergence: .08°                       |                                             |
| Total Correction: +7.62°                     |                                             |

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|                         |              |                        |
|-------------------------|--------------|------------------------|
| Geodetic Location WGS84 | Elevation =  | 0.0 Meters             |
| Latitude =              | 32.12190° N  | 32° 7 min 18.836 sec   |
| Longitude =             | 104.17584° W | 104° 10 min 33.007 sec |

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|                        |              |                              |
|------------------------|--------------|------------------------------|
| Magnetic Declination = | 7.70°        | [True North Offset]          |
| Local Gravity =        | .9988 g      | Checksum = 6846              |
| Local Field Strength = | 48258 nT     | Magnetic Vector X = 23996 nT |
| Magnetic Dip =         | 59.88°       | Magnetic Vector Y = 3244 nT  |
| Magnetic Model =       | bggm2012     | Magnetic Vector Z = 41743 nT |
| Spud Date =            | Aug 10, 2013 | Magnetic Vector H = 24214 nT |

---

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

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