

5D Plan Report**Kinder Morgan****Field Name:** *Kinder Morgan Montezuma Co., CO (NAD 83 COS)***Site Name:** *Cow Canyon C-3***Well Name:** *Cow Canyon C-3***Plan:** *P1:V1*

19 March 2014



Cow Canyon C-3
Montezuma Co, CO

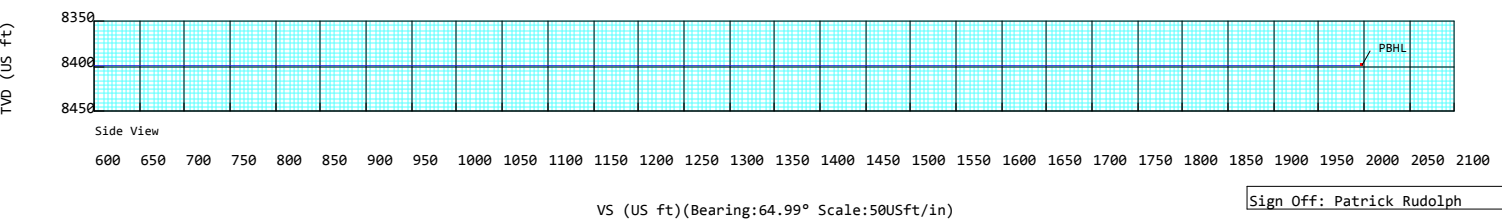
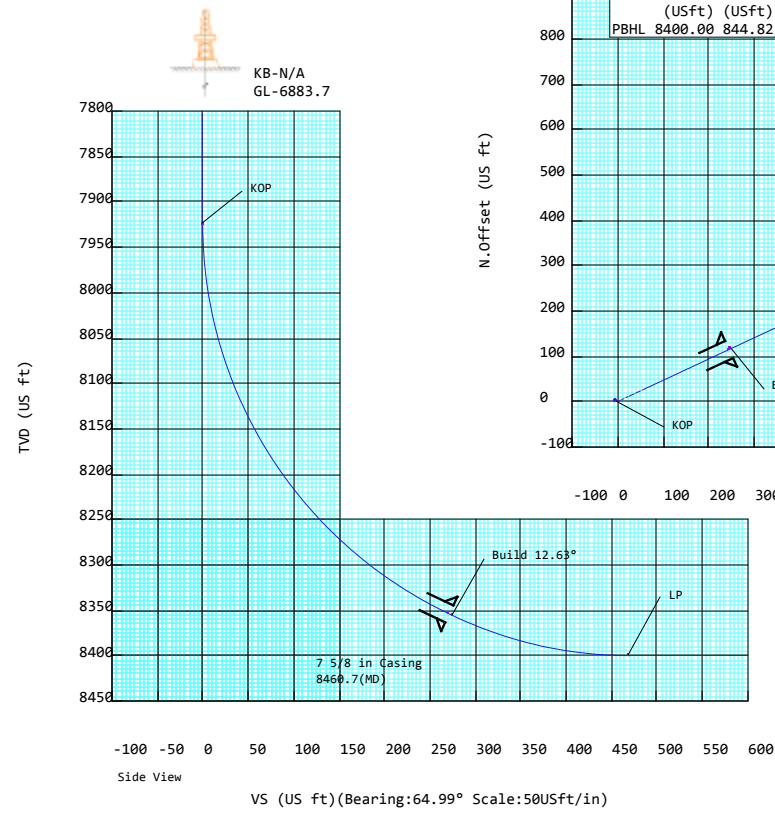
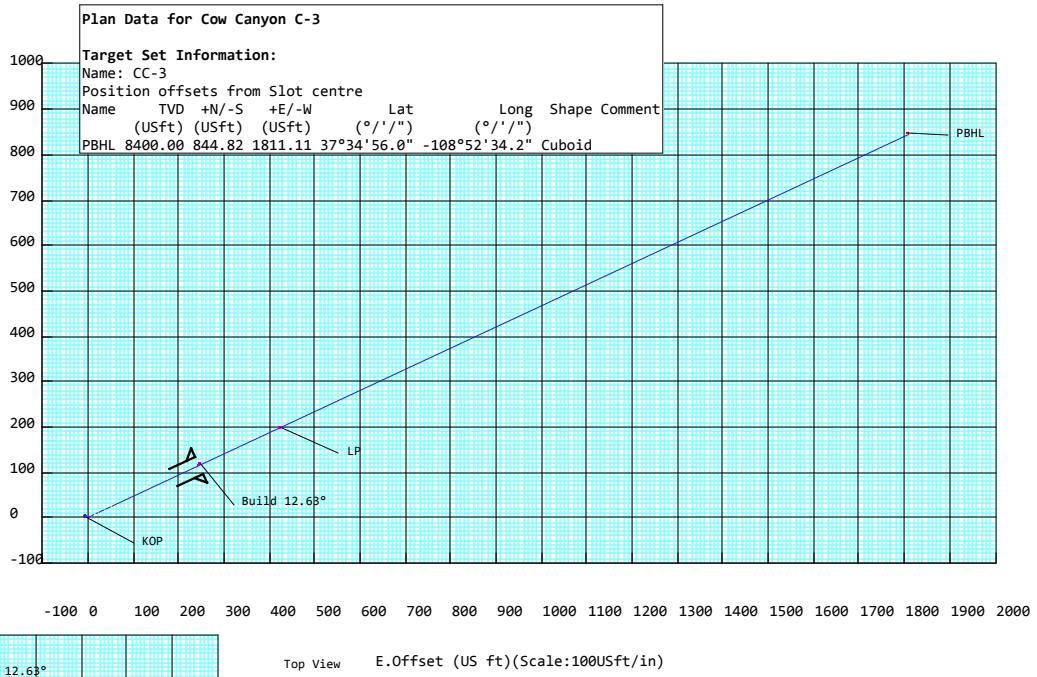
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|----------------------------------|--------------------------|--------------------------|
| Plan Data for Cow Canyon C-3 | | |
| Site: Cow Canyon C-3 | | |
| Unit: | USFeet | TVD Reference: |
| Company Name: Kinder Morgan | | |
| Position: | Northing: 1350269.46USft | Latitude: 37°34'47.6" |
| | Easting: 2020036.57USft | Longitude: -108°52'56.7" |
| North Reference: | True | Grid Convergence: -2.07° |
| Elevation Above VRD: 6883.70USft | | |

Plan Data for Cow Canyon C-3

Plan Point Information:

DogLeg Severity Unit: °/100.00ft

| MD | Inc | Az | TVD | +N/-S | +E/-W | Northing | Easting | VSec | DLS |
|----------|-------|-------|---------|--------|---------|------------|------------|---------|--------|
| (USft) | (°) | (°) | (USft) | (USft) | (USft) | (USft) | (USft) | (USft) | (DLSU) |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | 0.00 | 0.00 |
| 7924.00 | 0.00 | 0.00 | 7924.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | 0.00 | 0.00 |
| 8460.70 | 64.60 | 64.99 | 8354.00 | 114.93 | 246.35 | 1350375.39 | 2020286.91 | 271.83 | 12.04 |
| 8465.70 | 64.60 | 64.99 | 8356.14 | 116.83 | 250.44 | 1350377.15 | 2020291.07 | 276.35 | 0.00 |
| 8666.80 | 90.00 | 64.99 | 8400.00 | 199.10 | 426.78 | 1350452.97 | 2020470.28 | 470.94 | 12.63 |
| 10194.33 | 90.00 | 64.99 | 8400.00 | 844.82 | 1811.11 | 1351048.16 | 2021877.08 | 1998.46 | 0.00 |



Sign Off: Patrick Rudolph


Weatherford®

Cow Canyon C-3

| | | | | |
|---|---|-----------------------------|------------------------------|------------------------------|
| Field Name Kinder Morgan Montezuma Co., CO (NAD 83 COS) | Map Units : US ft | | Company Name : Kinder Morgan | |
| | Vertical Reference Datum (VRD) : Mean Sea Level | | | |
| | Projected Coordinate System : NAD83 / Colorado South (ftUS) | | | |
| | Comment : | | | |
| Site Name Cow Canyon C-3 | Units : US ft | North Reference : True | | Convergence Angle : -2.07 |
| | Position | Northing : 1350269.46 US ft | | Latitude : 37° 34' 47.64" |
| | | Easting : 2020036.57 US ft | | Longitude : -108° 52' 56.68" |
| | Elevation above Mean Sea Level:6883.70 US ft | | | |
| Comment : | | | | |
| Slot Name Cow Canyon C-3 | Position (Offsets relative to Site Centre) | | | |
| | +N / -S : 0.00 US ft | Northing :1350269.46 US ft | | Latitude : 37°34'47.64" |
| | +E / -W : 0.00 US ft | Easting :2020036.57 US ft | | Longitude : -108°52'56.68" |
| | Slot TVD Reference : Ground Elevation | | | |
| | Elevation above Mean Sea Level : 6883.70 US ft | | | |
| | Comment : | | | |
| Well Name Cow Canyon C-3 | Type : Main well | | UWI : | Plan : P1:V1 |
| | Rig Height <i>Drill Floor</i> : 0.00 US ft | | Comment : | |
| | Relative to Mean Sea Level: 6883.70 US ft | | | |
| | Closure Distance : 1998.46 US ft | | Closure Azimuth : 64.9927° | |
| | Vertical Section (Position of Origin Relative to Slot) | | | |
| | +N / -S : 0.00 US ft | | +E / -W : 0.00 US ft | Az :64.99° |
| | Magnetic Parameters | | | |
| | Model : BGGM | Field Strength : 50748.5nT | Dec : 10.18° | Dip : 63.91° |

Target Set

Name : CC-3 **Number of Targets** : 1

Comment :

| | | | |
|--------------|------------------------------------|-----------------------------|----------------------------|
| Target Name: | Position (Relative to Slot centre) | | |
| | +N / -S : 844.82US ft | Northing : 1351048.16 US ft | Latitude : 37°34'55.99" |
| PBHL | +E / -W : 1811.11 US ft | Easting : 2021877.08US ft | Longitude : -108°52'34.18" |
| Shape: | TVD (Drill Floor) : 8400.00 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 |

5D Plan Report

| Casing Points (Relative to Slot centre, TVD relative to Drill Floor) | | | | | | | | |
|---|------------|-----------|----------------|---------------------|---------------------|---------------------|--------------------|-----------------|
| MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | N.Offset (US ft) | E.Offset (US ft) | Northing (US ft) | Easting (US ft) | Name |
| 8460.70 | 64.60 | 64.99 | 8354.00 | 114.93 | 246.35 | 1350375.39 | 2020286.91 | Casing 7 5/8 in |

Well path created using minimum curvature

| Salient Points (Relative to Slot centre, TVD relative to Drill Floor) | | | | | | | | | | | |
|--|------------|-----------|----------------|---------------------|---------------------|----------------------|---------------|-------------------------|-------------------------|---------------|-------------------------|
| MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | N.Offset (US ft) | E.Offset (US ft) | DLS (°/100 US ft) | VS (US ft) | B.Rate (°/100 US ft) | T.Rate (°/100 US ft) | T.Face (°) | Comment |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7924.00 | 0.00 | 0.00 | 7924.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | KOP |
| 8460.70 | 64.60 | 64.99 | 8354.00 | 114.93 | 246.35 | 12.04 | 271.83 | 12.04 | 0.00 | 64.99 | Casing; 7 5/8 in Casing |
| 8465.70 | 64.60 | 64.99 | 8356.14 | 116.83 | 250.44 | 0.00 | 276.35 | 0.00 | 0.00 | 0.00 | Build 12.63° |
| 8666.80 | 90.00 | 64.99 | 8400.00 | 199.10 | 426.78 | 12.63 | 470.94 | 12.63 | 0.00 | 0.01 | LP |
| 10194.33 | 90.00 | 64.99 | 8400.00 | 844.82 | 1811.11 | 0.00 | 1998.46 | 0.00 | 0.00 | 0.00 | PBHL |

| Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor) | | | | | | | | | | | |
|---|------------|-----------|----------------|---------------------|---------------------|---------------|----------------------|---------------------|--------------------|--|---------|
| MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | N.Offset (US ft) | E.Offset (US ft) | VS (US ft) | DLS (°/100 US ft) | Northing (US ft) | Easting (US ft) | | Comment |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 400.00 | 0.00 | 0.00 | 400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 600.00 | 0.00 | 0.00 | 600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 700.00 | 0.00 | 0.00 | 700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 800.00 | 0.00 | 0.00 | 800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 900.00 | 0.00 | 0.00 | 900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 1000.00 | 0.00 | 0.00 | 1000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 1100.00 | 0.00 | 0.00 | 1100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 1200.00 | 0.00 | 0.00 | 1200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 1300.00 | 0.00 | 0.00 | 1300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 1400.00 | 0.00 | 0.00 | 1400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 1500.00 | 0.00 | 0.00 | 1500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 1600.00 | 0.00 | 0.00 | 1600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 1700.00 | 0.00 | 0.00 | 1700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 1800.00 | 0.00 | 0.00 | 1800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 1900.00 | 0.00 | 0.00 | 1900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 2000.00 | 0.00 | 0.00 | 2000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 2100.00 | 0.00 | 0.00 | 2100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 2200.00 | 0.00 | 0.00 | 2200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 2300.00 | 0.00 | 0.00 | 2300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 2400.00 | 0.00 | 0.00 | 2400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 2500.00 | 0.00 | 0.00 | 2500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 2599.99 | 0.00 | 0.00 | 2599.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 2699.99 | 0.00 | 0.00 | 2699.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 2799.99 | 0.00 | 0.00 | 2799.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 2899.99 | 0.00 | 0.00 | 2899.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 2999.99 | 0.00 | 0.00 | 2999.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 3099.99 | 0.00 | 0.00 | 3099.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 3199.99 | 0.00 | 0.00 | 3199.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 3299.99 | 0.00 | 0.00 | 3299.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 3399.99 | 0.00 | 0.00 | 3399.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 3499.99 | 0.00 | 0.00 | 3499.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 3599.99 | 0.00 | 0.00 | 3599.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 3699.99 | 0.00 | 0.00 | 3699.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 3799.99 | 0.00 | 0.00 | 3799.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |
| 3899.99 | 0.00 | 0.00 | 3899.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | | |

5D Plan Report

| Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor) | | | | | | | | | | |
|---|------------|-----------|----------------|---------------------|---------------------|---------------|----------------------|---------------------|--------------------|----------------------------|
| MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | N.Offset (US ft) | E.Offset (US ft) | VS (US ft) | DLS (°/100 US ft) | Northing (US ft) | Easting (US ft) | Comment |
| 3999.99 | 0.00 | 0.00 | 3999.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 4099.99 | 0.00 | 0.00 | 4099.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 4199.99 | 0.00 | 0.00 | 4199.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 4299.99 | 0.00 | 0.00 | 4299.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 4399.99 | 0.00 | 0.00 | 4399.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 4499.99 | 0.00 | 0.00 | 4499.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 4599.99 | 0.00 | 0.00 | 4599.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 4699.99 | 0.00 | 0.00 | 4699.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 4799.99 | 0.00 | 0.00 | 4799.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 4899.99 | 0.00 | 0.00 | 4899.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 4999.99 | 0.00 | 0.00 | 4999.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 5099.99 | 0.00 | 0.00 | 5099.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 5199.99 | 0.00 | 0.00 | 5199.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 5299.99 | 0.00 | 0.00 | 5299.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 5399.99 | 0.00 | 0.00 | 5399.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 5499.99 | 0.00 | 0.00 | 5499.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 5599.99 | 0.00 | 0.00 | 5599.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 5699.99 | 0.00 | 0.00 | 5699.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 5799.99 | 0.00 | 0.00 | 5799.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 5899.99 | 0.00 | 0.00 | 5899.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 5999.99 | 0.00 | 0.00 | 5999.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 6099.99 | 0.00 | 0.00 | 6099.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 6199.99 | 0.00 | 0.00 | 6199.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 6299.99 | 0.00 | 0.00 | 6299.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 6399.99 | 0.00 | 0.00 | 6399.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 6499.99 | 0.00 | 0.00 | 6499.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 6599.99 | 0.00 | 0.00 | 6599.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 6699.99 | 0.00 | 0.00 | 6699.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 6799.99 | 0.00 | 0.00 | 6799.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 6899.99 | 0.00 | 0.00 | 6899.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 6999.99 | 0.00 | 0.00 | 6999.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 7099.99 | 0.00 | 0.00 | 7099.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 7199.99 | 0.00 | 0.00 | 7199.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 7299.99 | 0.00 | 0.00 | 7299.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 7399.99 | 0.00 | 0.00 | 7399.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 7499.99 | 0.00 | 0.00 | 7499.99 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 7599.98 | 0.00 | 0.00 | 7599.98 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 7699.98 | 0.00 | 0.00 | 7699.98 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 7799.98 | 0.00 | 0.00 | 7799.98 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 7899.98 | 0.00 | 0.00 | 7899.98 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | |
| 7924.00 | 0.00 | 0.00 | 7924.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1350269.46 | 2020036.57 | KOP |
| 7999.98 | 9.15 | 64.99 | 7999.66 | 2.56 | 5.48 | 6.05 | 12.04 | 1350271.82 | 2020042.14 | |
| 8099.98 | 21.18 | 64.99 | 8096.00 | 13.60 | 29.15 | 32.16 | 12.04 | 1350281.99 | 2020066.19 | |
| 8199.98 | 33.22 | 64.99 | 8184.78 | 32.89 | 70.49 | 77.79 | 12.04 | 1350299.77 | 2020108.21 | |
| 8299.98 | 45.26 | 64.99 | 8262.09 | 59.58 | 127.71 | 140.93 | 12.04 | 1350324.38 | 2020166.35 | |
| 8399.98 | 57.29 | 64.99 | 8324.54 | 92.50 | 198.28 | 218.80 | 12.04 | 1350354.72 | 2020238.07 | |
| 8460.70 | 64.60 | 64.99 | 8354.00 | 114.93 | 246.35 | 271.83 | 12.04 | 1350375.39 | 2020286.91 | Casing; 7 5/8 in Casing |
| 8465.70 | 64.60 | 64.99 | 8356.14 | 116.83 | 250.44 | 276.35 | 0.00 | 1350377.15 | 2020291.07 | Build 12.63° |
| 8499.98 | 68.93 | 64.99 | 8369.67 | 130.15 | 278.98 | 307.85 | 12.63 | 1350389.43 | 2020320.08 | |
| 8599.98 | 81.56 | 64.99 | 8395.08 | 170.95 | 366.44 | 404.36 | 12.63 | 1350427.03 | 2020408.96 | |
| 8666.80 | 90.00 | 64.99 | 8400.00 | 199.10 | 426.78 | 470.94 | 12.63 | 1350452.97 | 2020470.28 | LP |
| 8699.98 | 90.00 | 64.99 | 8400.00 | 213.12 | 456.85 | 504.11 | 0.00 | 1350465.90 | 2020500.83 | |
| 8799.98 | 90.00 | 64.99 | 8400.00 | 255.39 | 547.47 | 604.11 | 0.00 | 1350504.87 | 2020592.93 | |
| 8899.98 | 90.00 | 64.99 | 8400.00 | 297.67 | 638.10 | 704.11 | 0.00 | 1350543.83 | 2020685.03 | |
| 8999.98 | 90.00 | 64.99 | 8400.00 | 339.94 | 728.73 | 804.11 | 0.00 | 1350582.79 | 2020777.12 | |
| 9099.98 | 90.00 | 64.99 | 8400.00 | 382.21 | 819.35 | 904.11 | 0.00 | 1350621.76 | 2020869.22 | |
| 9199.98 | 90.00 | 64.99 | 8400.00 | 424.48 | 909.98 | 1004.11 | 0.00 | 1350660.72 | 2020961.32 | |
| 9299.98 | 90.00 | 64.99 | 8400.00 | 466.75 | 1000.60 | 1104.11 | 0.00 | 1350699.68 | 2021053.41 | |

5D Plan Report

| Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor) | | | | | | | | | | |
|---|------------|-----------|----------------|---------------------|---------------------|---------------|----------------------|---------------------|--------------------|---------|
| MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | N.Offset (US ft) | E.Offset (US ft) | VS (US ft) | DLS (°/100 US ft) | Northing (US ft) | Easting (US ft) | Comment |
| 9399.98 | 90.00 | 64.99 | 8400.00 | 509.03 | 1091.23 | 1204.11 | 0.00 | 1350738.65 | 2021145.51 | |
| 9499.98 | 90.00 | 64.99 | 8400.00 | 551.30 | 1181.85 | 1304.11 | 0.00 | 1350777.61 | 2021237.61 | |
| 9599.98 | 90.00 | 64.99 | 8400.00 | 593.57 | 1272.48 | 1404.11 | 0.00 | 1350816.58 | 2021329.70 | |
| 9699.98 | 90.00 | 64.99 | 8400.00 | 635.84 | 1363.11 | 1504.11 | 0.00 | 1350855.54 | 2021421.80 | |
| 9799.98 | 90.00 | 64.99 | 8400.00 | 678.12 | 1453.73 | 1604.11 | 0.00 | 1350894.50 | 2021513.89 | |
| 9899.98 | 90.00 | 64.99 | 8400.00 | 720.39 | 1544.36 | 1704.11 | 0.00 | 1350933.47 | 2021605.99 | |
| 9999.98 | 90.00 | 64.99 | 8400.00 | 762.66 | 1634.98 | 1804.11 | 0.00 | 1350972.43 | 2021698.09 | |
| 10099.98 | 90.00 | 64.99 | 8400.00 | 804.93 | 1725.61 | 1904.11 | 0.00 | 1351011.39 | 2021790.18 | |
| 10194.33 | 90.00 | 64.99 | 8400.00 | 844.82 | 1811.11 | 1998.46 | 0.00 | 1351048.16 | 2021877.08 | PBHL |



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Weatherford Drilling Services

GeoDec4 v2.0.0.3

Report Date: March 19, 2014
Job Number: _____
Customer: Kinder Morgan
Well Name: Cow Canyon C-3
API Number: _____
Rig Name: _____
Location: _____
Block: _____
Engineer: Patrick Rudolph

| | |
|---|---|
| NAD83 (1986) | NAD83 (1986) |
| Geodetic Coordinate System | Geodetic Coordinate System |
| Datum: North American Datum 1983 (1986) | Datum: North American Datum 1983 (1986) |
| Ellipsoid: GRS 1980 | Ellipsoid: GRS 1980 |
| EPSG: 4269 | EPSG: 4269 |
| Latitude: 37.5799 Degree | Latitude: 37.5799 Degree |
| Longitude: -108.88241 Degree | Longitude: -108.88241 Degree |
| Datum Transformation: none | |

Geodetic Location WGS84

MSL Elevation = 6883.7 usft
Latitude = 37° 34' 47.64" N
Longitude = 108° 52' 56.68" W

| | |
|----------------------------------|------------------------------|
| Magnetic Declination = 10.16 deg | [True North Offset] |
| Local Gravity = .9993 g | Checksum = 5787 |
| Local Field Strength = 50685 nT | Magnetic Vector X = 21941 nT |
| Magnetic Dip = 63.91 deg | Magnetic Vector Y = 3934 nT |
| Magnetic Model = bggm2013.COF | Magnetic Vector Z = 45520 nT |
| Run Date = June 01, 2014 | Magnetic Vector H = 22291 nT |

Signed: _____ Date: _____

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