



Weatherford[®]

Drilling Services

Proposal



GOODMAN POINT #26

MONTEZUMA CO., CO

WELL FILE: **PLAN 1**

MARCH 28, 2013

Weatherford International, Ltd.

P.O. Box 61028

Midland, TX 79711 USA

+1.432.561.8892 Main

+1.432.561.8895 Fax

www.weatherford.com

Goodman Point #26
Montezuma Co., Colorado

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	135.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	7872.68	0.00	135.00	7872.68	0.00	0.00	0.00	0.00	0.00	
3	8072.68	90.00	135.00	8000.00	-90.03	90.03	45.00	135.00	127.32	
4	9945.35	90.00	135.00	8000.00	-1414.21	1414.21	0.00	0.00	2000.00	PBHL

WELL DETAILS

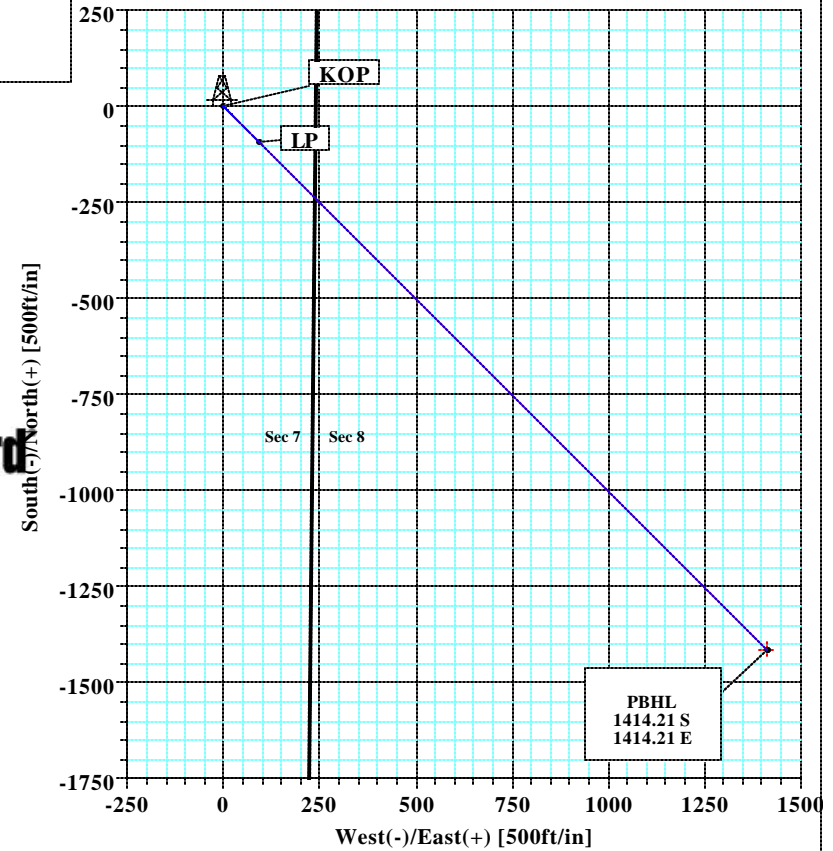
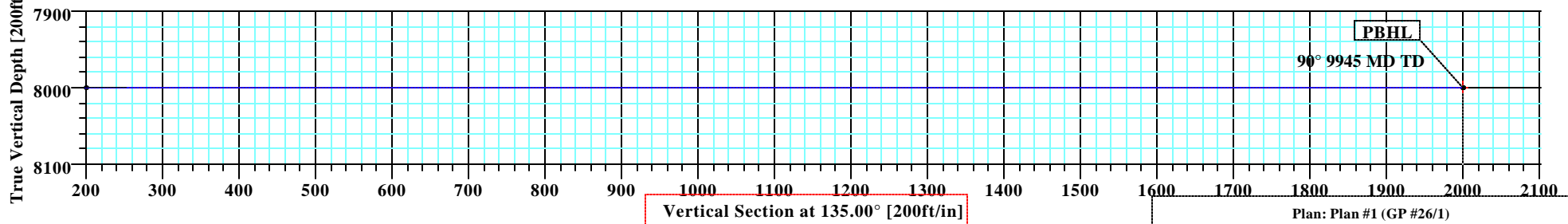
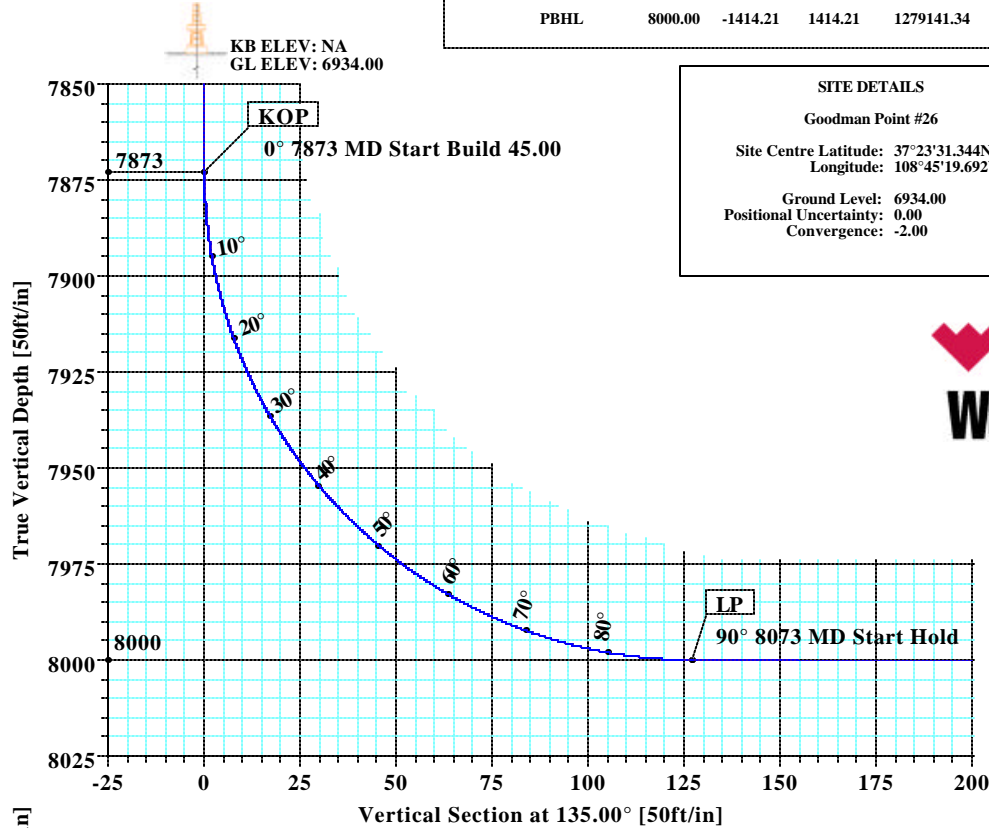
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
GP #26	0.00	0.00	1280603.97	2054419.54	37°23'31.344N	108°45'19.692W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	8000.00	-1414.21	1414.21	1279141.34	2055783.61	Point

SITE DETAILS

Goodman Point #26
Site Centre Latitude: 37°23'31.344N
Longitude: 108°45'19.692W
Ground Level: 6934.00
Positional Uncertainty: 0.00
Convergence: -2.00





Company: Kinder Morgan	Date: 3/28/2013	Time: 16:19:57	Page: 1
Field: Montezuma Co., CO (NAD83)	Co-ordinate(NE) Reference: Well: GP #26, True North		
Site: Goodman Point #26	Vertical (TVD) Reference: SITE 6934.0		
Well: GP #26	Section (VS) Reference: Well (0.00N,0.00E,135.00Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Plan: Plan #1	Date Composed: 3/28/2013
Principal: Yes	Version: 1
	Tied-to: From Surface

Field: Montezuma Co., CO (NAD83)
Colorado

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

Map Zone: Colorado, Southern Zone
Coordinate System: Well Centre
Geomagnetic Model: IGRF2010

Site: Goodman Point #26

Site Position:	Northing: 1280603.97 ft	Latitude: 37 23 31.344 N
From: Geographic	Easting: 2054419.54 ft	Longitude: 108 45 19.692 W
Position Uncertainty: 0.00 ft		North Reference: True
Ground Level: 6934.00 ft		Grid Convergence: -2.00 deg

Well: GP #26	Slot Name:
Well Position: +N/-S 0.00 ft	Latitude: 37 23 31.344 N
+E/-W 0.00 ft	Longitude: 108 45 19.692 W
Position Uncertainty: 0.00 ft	

Wellpath: 1	Drilled From: Surface
Current Datum: SITE	Tie-on Depth: 0.00 ft
Magnetic Data: 7/1/2013	Above System Datum: Mean Sea Level
Field Strength: 50819 nT	Declination: 10.15 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 63.78 deg
ft	+N/-S
	+E/-W
	Direction
	deg
8000.00	0.00 0.00 135.00

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	135.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7872.68	0.00	135.00	7872.68	0.00	0.00	0.00	0.00	0.00	0.00	
8072.68	90.00	135.00	8000.00	-90.03	90.03	45.00	45.00	0.00	135.00	
9945.35	90.00	135.00	8000.00	-1414.21	1414.21	0.00	0.00	0.00	0.00	PBHL

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Lat	Min	Sec	Long	Min	Sec	Comment
7800.00	0.00	135.00	7800.00	0.00	0.00	0.00	0.00	37	23	31.344	108	45	19.692	KOP
7872.68	0.00	135.00	7872.68	0.00	0.00	0.00	0.00	37	23	31.344	108	45	19.692	
7880.00	3.30	135.00	7880.00	-0.15	0.15	0.21	45.00	37	23	31.342	108	45	19.690	
7890.00	7.80	135.00	7889.95	-0.83	0.83	1.18	45.00	37	23	31.336	108	45	19.682	
7900.00	12.30	135.00	7899.79	-2.07	2.07	2.92	45.00	37	23	31.324	108	45	19.666	
7910.00	16.80	135.00	7909.47	-3.84	3.84	5.43	45.00	37	23	31.306	108	45	19.644	
7920.00	21.30	135.00	7918.92	-6.15	6.15	8.69	45.00	37	23	31.283	108	45	19.616	
7930.00	25.80	135.00	7928.08	-8.97	8.97	12.69	45.00	37	23	31.255	108	45	19.581	
7940.00	30.30	135.00	7936.91	-12.30	12.30	17.39	45.00	37	23	31.222	108	45	19.540	
7950.00	34.80	135.00	7945.33	-16.10	16.10	22.77	45.00	37	23	31.185	108	45	19.493	
7960.00	39.30	135.00	7953.31	-20.36	20.36	28.79	45.00	37	23	31.143	108	45	19.440	
7970.00	43.80	135.00	7960.80	-25.05	25.05	35.42	45.00	37	23	31.096	108	45	19.382	
7980.00	48.30	135.00	7967.73	-30.13	30.13	42.62	45.00	37	23	31.046	108	45	19.319	
7990.00	52.80	135.00	7974.09	-35.59	35.59	50.34	45.00	37	23	30.992	108	45	19.251	
8000.00	57.30	135.00	7979.82	-41.39	41.39	58.53	45.00	37	23	30.935	108	45	19.179	
8010.00	61.80	135.00	7984.88	-47.48	47.48	67.15	45.00	37	23	30.875	108	45	19.104	
8020.00	66.30	135.00	7989.26	-53.84	53.84	76.14	45.00	37	23	30.812	108	45	19.025	



Company: Kinder Morgan
 Field: Montezuma Co., CO (NAD83)
 Site: Goodman Point #26
 Well: GP #26
 Wellpath: 1

Date: 3/28/2013 Time: 16:19:57 Page: 2
 Co-ordinate(NE) Reference: Well: GP #26, True North
 Vertical (TVD) Reference: SITE 6934.0
 Section (VS) Reference: Well (0.00N,0.00E,135.00Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Lat	Min	Sec	Long	Min	Sec	Comment
8030.00	70.80	135.00	7992.91	-60.42	60.42	85.44	45.00	37	23	30.747	108	45	18.943	
8040.00	75.30	135.00	7995.83	-67.18	67.18	95.01	45.00	37	23	30.680	108	45	18.860	
8050.00	79.80	135.00	7997.99	-74.08	74.08	104.77	45.00	37	23	30.612	108	45	18.774	
8060.00	84.30	135.00	7999.37	-81.08	81.08	114.67	45.00	37	23	30.542	108	45	18.687	
8070.00	88.80	135.00	7999.97	-88.14	88.14	124.65	45.00	37	23	30.473	108	45	18.600	
8072.68	90.00	135.00	8000.00	-90.03	90.03	127.32	45.00	37	23	30.454	108	45	18.576	LP
8100.00	90.00	135.00	8000.00	-109.35	109.35	154.65	0.00	37	23	30.263	108	45	18.337	
8200.00	90.00	135.00	8000.00	-180.06	180.06	254.65	0.00	37	23	29.564	108	45	17.461	
8300.00	90.00	135.00	8000.00	-250.77	250.77	354.65	0.00	37	23	28.865	108	45	16.585	
8400.00	90.00	135.00	8000.00	-321.48	321.48	454.65	0.00	37	23	28.165	108	45	15.708	
8500.00	90.00	135.00	8000.00	-392.20	392.20	554.65	0.00	37	23	27.466	108	45	14.832	
8600.00	90.00	135.00	8000.00	-462.91	462.91	654.65	0.00	37	23	26.767	108	45	13.956	
8700.00	90.00	135.00	8000.00	-533.62	533.62	754.65	0.00	37	23	26.068	108	45	13.080	
8800.00	90.00	135.00	8000.00	-604.33	604.33	854.65	0.00	37	23	25.369	108	45	12.204	
8900.00	90.00	135.00	8000.00	-675.04	675.04	954.65	0.00	37	23	24.670	108	45	11.327	
9000.00	90.00	135.00	8000.00	-745.75	745.75	1054.65	0.00	37	23	23.971	108	45	10.451	
9100.00	90.00	135.00	8000.00	-816.46	816.46	1154.65	0.00	37	23	23.272	108	45	9.575	
9200.00	90.00	135.00	8000.00	-887.17	887.17	1254.65	0.00	37	23	22.572	108	45	8.699	
9300.00	90.00	135.00	8000.00	-957.88	957.88	1354.65	0.00	37	23	21.873	108	45	7.823	
9400.00	90.00	135.00	8000.00	-1028.59	1028.59	1454.65	0.00	37	23	21.174	108	45	6.947	
9500.00	90.00	135.00	8000.00	-1099.30	1099.30	1554.65	0.00	37	23	20.475	108	45	6.070	
9600.00	90.00	135.00	8000.00	-1170.01	1170.01	1654.65	0.00	37	23	19.776	108	45	5.194	
9700.00	90.00	135.00	8000.00	-1240.72	1240.72	1754.65	0.00	37	23	19.077	108	45	4.318	
9800.00	90.00	135.00	8000.00	-1311.43	1311.43	1854.65	0.00	37	23	18.378	108	45	3.442	
9900.00	90.00	135.00	8000.00	-1382.14	1382.14	1954.65	0.00	37	23	17.678	108	45	2.566	
9945.35	90.00	135.00	8000.00	-1414.21	1414.21	2000.00	0.00	37	23	17.361	108	45	2.169	PBHL

Targets

Name	Description	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<---- Latitude ---->			<--- Longitude --->				
	Dip.							Deg	Min	Sec	Deg	Min	Sec		
PBHL			8000.00	-1414.21	1414.21	1279141.34	2055783.61	37	23	17.361	N	108	45	2.169	W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

Annotation

MD ft	TVD ft	
7872.68	7872.68	KOP
8072.68	8000.00	LP
9945.35	8000.00	PBHL

Company: Kinder Morgan	Date: 3/28/2013	Time: 16:19:57	Page: 3
Field: Montezuma Co., CO (NAD83)	Co-ordinate(NE) Reference: Well: GP #26, True North		
Site: Goodman Point #26	Vertical (TVD) Reference: SITE 6934.0		
Well: GP #26	Section (VS) Reference: Well (0.00N,0.00E,135.00Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Field: Montezuma Co., CO (NAD83)
Colorado

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

Map Zone: Colorado, Southern Zone
Coordinate System: Well Centre
Geomagnetic Model: IGRF2010

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

GeoDec v5.03

Report Date: March 28, 2013

Job Number: _____

Customer: Kinder Morgan

Well Name: Goodman Point #26

API Number: _____

Rig Name: _____

Location: Montezuma Co., CO

Block: _____

Engineer: Patrick Rudolph

Geodetic Latitude / Longitude

System: Latitude / Longitude

Projection: Geodetic Latitude and Longitude

Datum: North American Datum 1983

Ellipsoid: GRS 1980

Latitude 37.3920400 DEG

Longitude -108.7554700 DEG

Geodetic Latitude / Longitude

System: Latitude / Longitude

Projection: Geodetic Latitude and Longitude

Datum: North American Datum 1983

Ellipsoid: GRS 1980

Latitude 37 23 31.3440000 DMS

Longitude -108 45 19.6920000 DMS

Geodetic Location WGS84

Elevation = 0.0 Meters

Latitude = 37.39204° N 37° 23 min 31.344 sec

Longitude = 108.75547° W 108° 45 min 19.692 sec

Magnetic Declination = 10.18° [True North Offset]

Local Gravity = .9993 g CheckSum = 7509

Local Field Strength = 50744 nT Magnetic Vector X = 22081 nT

Magnetic Dip = 63.76° Magnetic Vector Y = 3965 nT

Magnetic Model = bggm2012 Magnetic Vector Z = 45515 nT

Spud Date = Jul 01, 2013 Magnetic Vector H = 22434 nT

Signed: _____

Date: _____