

Project: Weld County, CO
 Site: Sec. 5-7N-R60W
 Well: Leggett 1-5H
 Wellbore: Plan A
 Design: Plan A - Rev 0 Proposal

Continental Resources, Inc.

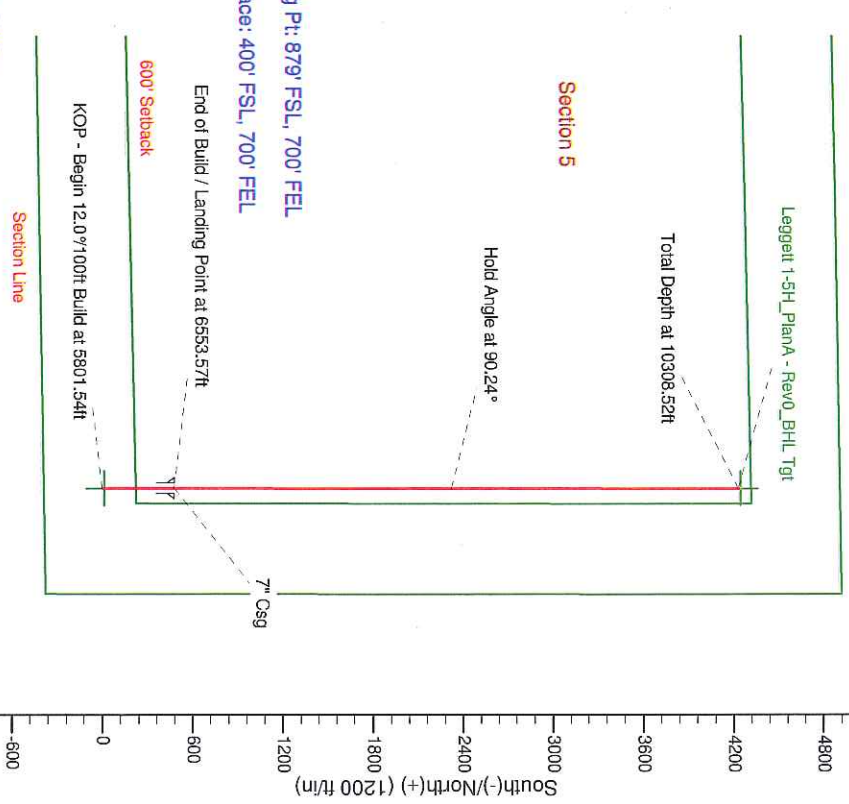
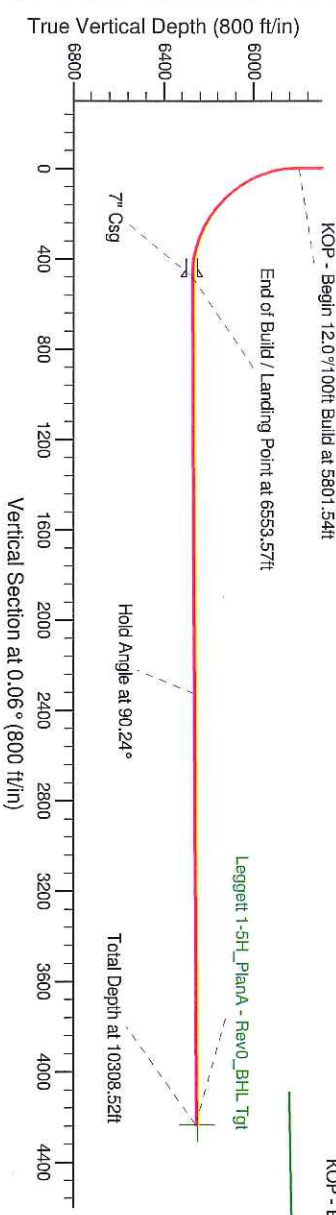
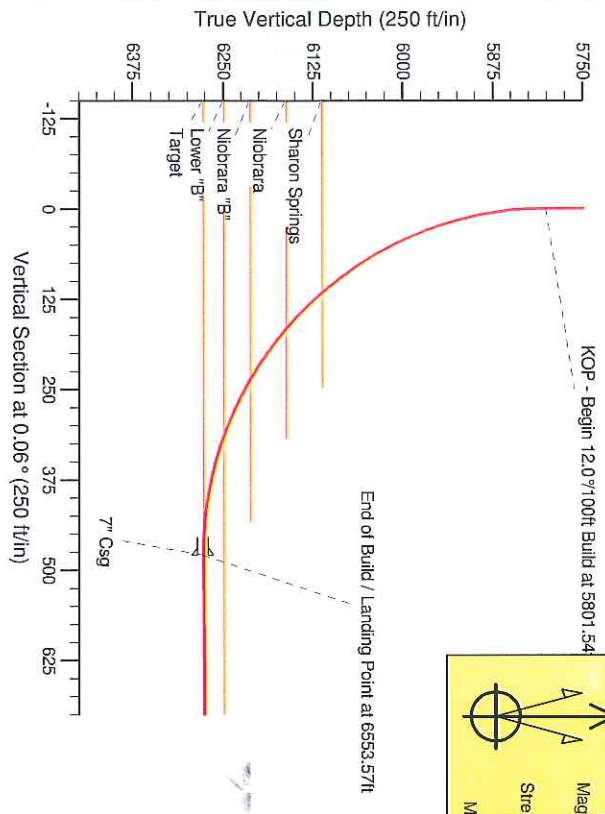
HALLIBURTON
 Sperry Drilling

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLog	Trace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	5801.54	0.00	0.00	5801.54	0.00	0.00	0.00	0.00	0.00	
3	6553.57	90.24	0.06	6279.00	479.50	0.53	12.00	0.06	479.50	
4	10308.52	90.24	0.06	6263.00	4234.41	4.70	0.00	0.00	4234.41	Leggett 1-5H_PlanA - Rev0_BHL Tgt

Legend

T G M
 Azimuths to Grid North
 True North: -0.90°
 Magnetic North: 7.53°
 Magnetic Field
 Strength: 53205.48nT
 Dip Angle: 67.29°
 Date: 12/20/2011
 Model: BCGM2011



Casing Pt: 879' FSL, 700' FEL
 Surface: 400' FSL, 700' FEL

WELL DETAILS: Leggett 1-5H

Ground Level:	4874.00	Longitude
Northing	1453740.65	Latitude
Eastings	3386001.43	104° 6' 35.755 W
Plan: Plan A - Rev 0 Proposal (Leggett 1-5H/Plan A)		
Created By: Jay Lantz	Date: 15:22, December 20 2011	
Approved:	Date:	

Continental Resources, Inc.

Weld County, CO

Sec. 5-T7N-R60W

Leggett 1-5H

Plan A

Plan: Plan A - Rev 0 Proposal

Sperry Drilling Services

Proposal Report

20 December, 2011

Well Coordinates: 1,463,740.65 N, 3,386,001.43 E (40° 35' 53.02" N, 104° 06' 35.76" W)
Ground Level: 4,874.00 ft

Local Coordinate Origin:	Centered on Well Leggett 1-5H
Viewing Datum:	KB @ 4890.00ft (Rig KB)
TVDs to System:	N
North Reference:	Grid
Unit System:	API - US Survey Feet - Custom

Geodetic Scale Factor Applied
Version: 2003.16 Build: 43I

HALLIBURTON



Plan Report for Leggett 1-5H - Plan A - Rev 0 Proposal

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
789.00	0.00	0.00	789.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pierre										
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,858.00	0.00	0.00	3,858.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Laramie										
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Plan Report for Leggett 1-5H - Plan A - Rev 0 Proposal

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,801.54	0.00	0.00	5,801.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP - Begin 12.0°/100ft Build at 5801.54ft										
5,900.00	11.82	0.06	5,899.30	10.12	0.01	10.12	12.00	12.00	0.00	0.06
6,000.00	23.82	0.06	5,994.33	40.65	0.05	40.65	12.00	12.00	0.00	0.00
6,100.00	35.82	0.06	6,080.94	90.28	0.10	90.28	12.00	12.00	0.00	0.00
6,140.85	40.72	0.06	6,113.00	115.57	0.13	115.57	12.00	12.00	0.00	0.00
Sharon Springs										
6,200.00	47.82	0.06	6,155.33	156.84	0.17	156.84	12.00	12.00	0.00	0.00
6,211.57	49.20	0.06	6,163.00	165.50	0.18	165.50	12.00	12.00	0.00	0.00
Niobrara										
6,297.50	59.51	0.06	6,213.00	235.24	0.26	235.24	12.00	12.00	0.00	0.00
Niobrara "B"										
6,300.00	59.82	0.06	6,214.26	237.40	0.26	237.40	12.00	12.00	0.00	0.00
6,384.26	69.93	0.06	6,250.00	313.59	0.35	313.59	12.00	12.00	0.00	0.00
Lower "B"										
6,400.00	71.82	0.06	6,255.16	328.46	0.36	328.46	12.00	12.00	0.00	0.00
6,500.00	83.82	0.06	6,276.23	426.02	0.47	426.02	12.00	12.00	0.00	0.00
6,549.39	89.74	0.06	6,279.00	475.32	0.53	475.32	12.00	12.00	0.00	0.00
Target										
6,553.57	90.24	0.06	6,279.00	479.49	0.53	479.49	12.00	12.00	0.00	0.00
End of Build / Landing Point at 6553.57ft - 7" Csg										
6,600.00	90.24	0.06	6,278.80	525.92	0.58	525.92	0.00	0.00	0.00	0.00
6,700.00	90.24	0.06	6,278.38	625.92	0.70	625.92	0.00	0.00	0.00	0.00
6,800.00	90.24	0.06	6,277.95	725.92	0.81	725.92	0.00	0.00	0.00	0.00
6,900.00	90.24	0.06	6,277.52	825.92	0.92	825.92	0.00	0.00	0.00	0.00
7,000.00	90.24	0.06	6,277.10	925.92	1.03	925.92	0.00	0.00	0.00	0.00
7,100.00	90.24	0.06	6,276.67	1,025.92	1.14	1,025.92	0.00	0.00	0.00	0.00
7,200.00	90.24	0.06	6,276.25	1,125.92	1.25	1,125.92	0.00	0.00	0.00	0.00
7,300.00	90.24	0.06	6,275.82	1,225.92	1.36	1,225.92	0.00	0.00	0.00	0.00
7,400.00	90.24	0.06	6,275.39	1,325.92	1.47	1,325.92	0.00	0.00	0.00	0.00
7,500.00	90.24	0.06	6,274.97	1,425.92	1.58	1,425.92	0.00	0.00	0.00	0.00
7,600.00	90.24	0.06	6,274.54	1,525.91	1.70	1,525.92	0.00	0.00	0.00	0.00
7,700.00	90.24	0.06	6,274.12	1,625.91	1.81	1,625.91	0.00	0.00	0.00	0.00
7,800.00	90.24	0.06	6,273.69	1,725.91	1.92	1,725.91	0.00	0.00	0.00	0.00
7,900.00	90.24	0.06	6,273.26	1,825.91	2.03	1,825.91	0.00	0.00	0.00	0.00
8,000.00	90.24	0.06	6,272.84	1,925.91	2.14	1,925.91	0.00	0.00	0.00	0.00
8,100.00	90.24	0.06	6,272.41	2,025.91	2.25	2,025.91	0.00	0.00	0.00	0.00
8,200.00	90.24	0.06	6,271.98	2,125.91	2.36	2,125.91	0.00	0.00	0.00	0.00
8,300.00	90.24	0.06	6,271.56	2,225.91	2.47	2,225.91	0.00	0.00	0.00	0.00
8,400.00	90.24	0.06	6,271.13	2,325.91	2.58	2,325.91	0.00	0.00	0.00	0.00
Hold Angle at 90.24°										
8,500.00	90.24	0.06	6,270.71	2,425.91	2.70	2,425.91	0.00	0.00	0.00	0.00
8,600.00	90.24	0.06	6,270.28	2,525.90	2.81	2,525.91	0.00	0.00	0.00	0.00
8,700.00	90.24	0.06	6,269.85	2,625.90	2.92	2,625.91	0.00	0.00	0.00	0.00
8,800.00	90.24	0.06	6,269.43	2,725.90	3.03	2,725.90	0.00	0.00	0.00	0.00
8,900.00	90.24	0.06	6,269.00	2,825.90	3.14	2,825.90	0.00	0.00	0.00	0.00
9,000.00	90.24	0.06	6,268.58	2,925.90	3.25	2,925.90	0.00	0.00	0.00	0.00
9,100.00	90.24	0.06	6,268.15	3,025.90	3.36	3,025.90	0.00	0.00	0.00	0.00
9,200.00	90.24	0.06	6,267.72	3,125.90	3.47	3,125.90	0.00	0.00	0.00	0.00
9,300.00	90.24	0.06	6,267.30	3,225.90	3.58	3,225.90	0.00	0.00	0.00	0.00
9,400.00	90.24	0.06	6,266.87	3,325.90	3.70	3,325.90	0.00	0.00	0.00	0.00
9,500.00	90.24	0.06	6,266.45	3,425.90	3.81	3,425.90	0.00	0.00	0.00	0.00
9,600.00	90.24	0.06	6,266.02	3,525.89	3.92	3,525.90	0.00	0.00	0.00	0.00
9,700.00	90.24	0.06	6,265.59	3,625.89	4.03	3,625.90	0.00	0.00	0.00	0.00

Plan Report for Leggett 1-5H - Plan A - Rev 0 Proposal

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
9,800.00	90.24	0.06	6,265.17	3,725.89	4.14	3,725.90	0.00	0.00	0.00	0.00
9,900.00	90.24	0.06	6,264.74	3,825.89	4.25	3,825.89	0.00	0.00	0.00	0.00
10,000.00	90.24	0.06	6,264.31	3,925.89	4.36	3,925.89	0.00	0.00	0.00	0.00
10,100.00	90.24	0.06	6,263.89	4,025.89	4.47	4,025.89	0.00	0.00	0.00	0.00
10,200.00	90.24	0.06	6,263.46	4,125.89	4.58	4,125.89	0.00	0.00	0.00	0.00
10,300.00	90.24	0.06	6,263.04	4,225.89	4.70	4,225.89	0.00	0.00	0.00	0.00
10,308.52	90.24	0.06	6,263.00	4,234.41	4.70	4,234.41	0.00	0.00	0.00	0.00
Total Depth at 10308.52ft										

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
5,801.54	5,801.54	0.00	0.00	KOP - Begin 12.0°/100ft Build at 5801.54ft
6,553.57	6,279.00	479.49	0.53	End of Build / Landing Point at 6553.57ft
8,400.00	6,271.13	2,325.91	2.58	Hold Angle at 90.24°
10,308.52	6,263.00	4,234.41	4.70	Total Depth at 10308.52ft

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/-S (ft)	Origin +E/-W (ft)	Start TVD (ft)
Target	Leggett 1-5H_PlanA - Rev0_BHL Tgt	0.06	Slot	0.00	0.00	0.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
0.00	10,308.52	Plan A - Rev 0 Proposal	MWD

Casing Details

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
6,553.57	6,279.00	7" Csg	7	8-3/4

Formation Details

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
789.00	789.00	Pierre		0.00	
3,858.00	3,858.00	Laramie		0.00	
6,140.85	6,113.00	Sharon Springs		0.00	
6,211.57	6,163.00	Niobrara		0.00	
6,297.50	6,213.00	Niobrara "B"		0.00	
6,384.26	6,250.00	Lower "B"		0.00	
6,549.39	6,279.00	Target		0.00	

Plan Report for Leggett 1-5H - Plan A - Rev 0 Proposal

Targets associated with this wellbore

Target Name	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Shape
Leggett 1-5H_PlanA - Rev0_BHL Tgt	6,263.00	4,234.41	4.70	Point
Leggett 1-5H_Sec. 5 Lines	0.00	0.00	0.00	Polygon
Leggett 1-5H_Sec. 5 600' Setbacks	0.00	0.00	0.00	Polygon

North Reference Sheet for Sec. 5-T7N-R60W - Leggett 1-5H - Plan A

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.

Vertical Depths are relative to KB @ 4890.00ft (Rig KB). Northing and Easting are relative to Leggett 1-5H

Coordinate System is US State Plane 1983, Colorado Northern Zone using datum North American Datum 1983, ellipsoid GRS 1980

Projection method is Lambert Conformal Conic (2 parallel)

Central Meridian is -105.50°, Longitude Origin: 0° 0' 0.000 E°, Latitude Origin: 40° 47' 0.000 N°

False Easting: 3,000,000.00ft, False Northing: 1,000,000.00ft, Scale Reduction: 0.99997518

Grid Coordinates of Well: 1,463,740.65 ft N, 3,386,001.43 ft E

Geographical Coordinates of Well: 40° 35' 53.02" N, 104° 06' 35.76" W

Grid Convergence at Surface is: 0.90°

Based upon Minimum Curvature type calculations, at a Measured Depth of 10,308.52ft
the Bottom Hole Displacement is 4,234.41ft in the Direction of 0.06° (Grid).

Magnetic Convergence at surface is: -7.53° (20 December 2011, , BGGM2011)

