

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_RIVERBEND 4-13 PAD

Riverbend 35-12

Riverbend 35-12

Plan: Riverbend 35-12 (wp01)

Standard Planning Report

11 July, 2011



Weatherford®

Project: COLORADO NORTHERN ZONE - 83
Site: WELD_RIVERBEND 4-13 PAD
Well: Riverbend 35-12
Wellbore: Riverbend 35-12
Section:
SHL:
Design: Riverbend 35-12 (wp01)
Latitude: 40.056071
Longitude: -104.847381
GL: 4952.00
KB: 15' RKB + 4952' GL @ 4967.00ft

TVDPATH	MDPATH	FORMATION
4053.00	4242.64	PK Depth
4629.00	4834.75	SX Depth
7161.00	7368.17	NIO Depth
7508.00	7715.17	CD Depth
7593.00	7800.17	GH Depth
7943.00	8150.17	J Depth



Azimuths to True North
Magnetic North: 8.87°

Magnetic Field
Strength: 52932.7snT
Dip Angle: 66.76°
Date: 7/11/2011
Model: IGRF2010

WELL DETAILS: Riverbend 35-12

+N/-S	+E/-W	Northing	Ground Level: Easting	4952.00 Latitude	Longitude	Slot
0.00	0.00	1263944.32	3182681.58	40.056071	-104.847381	

CASING DETAILS

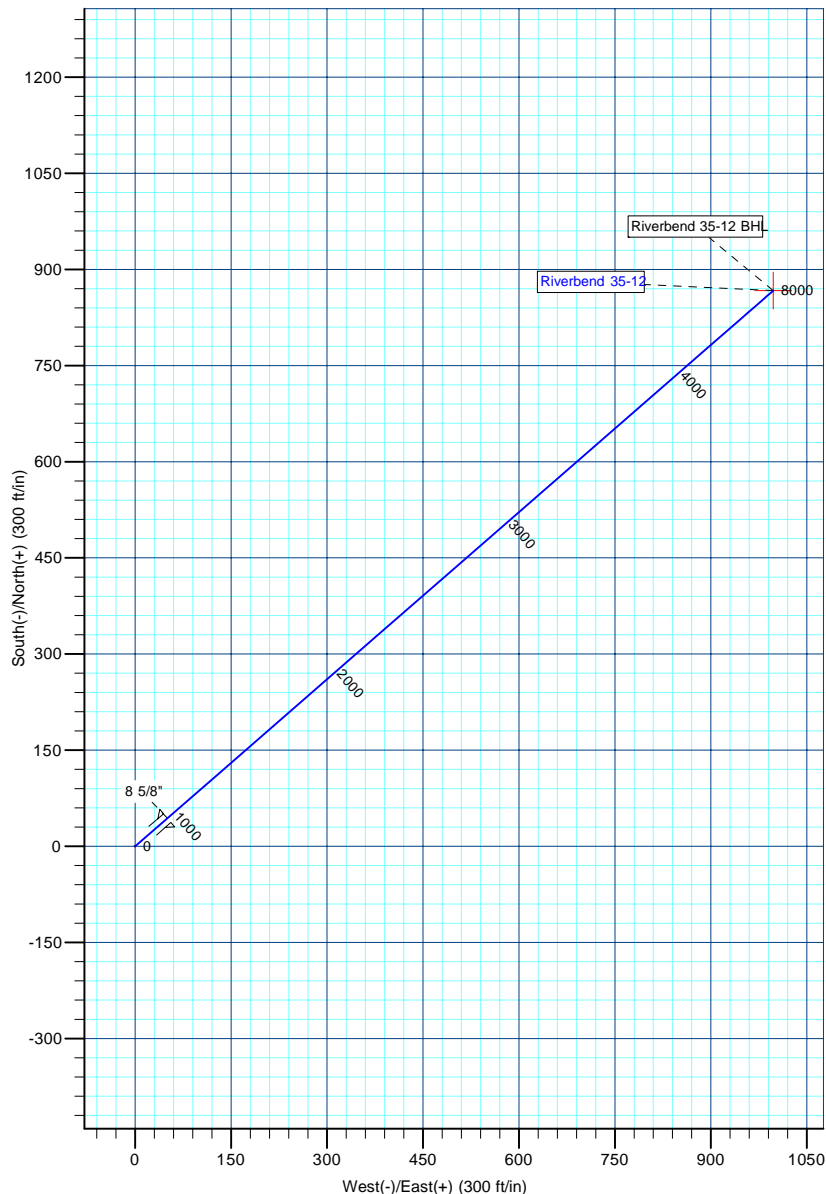
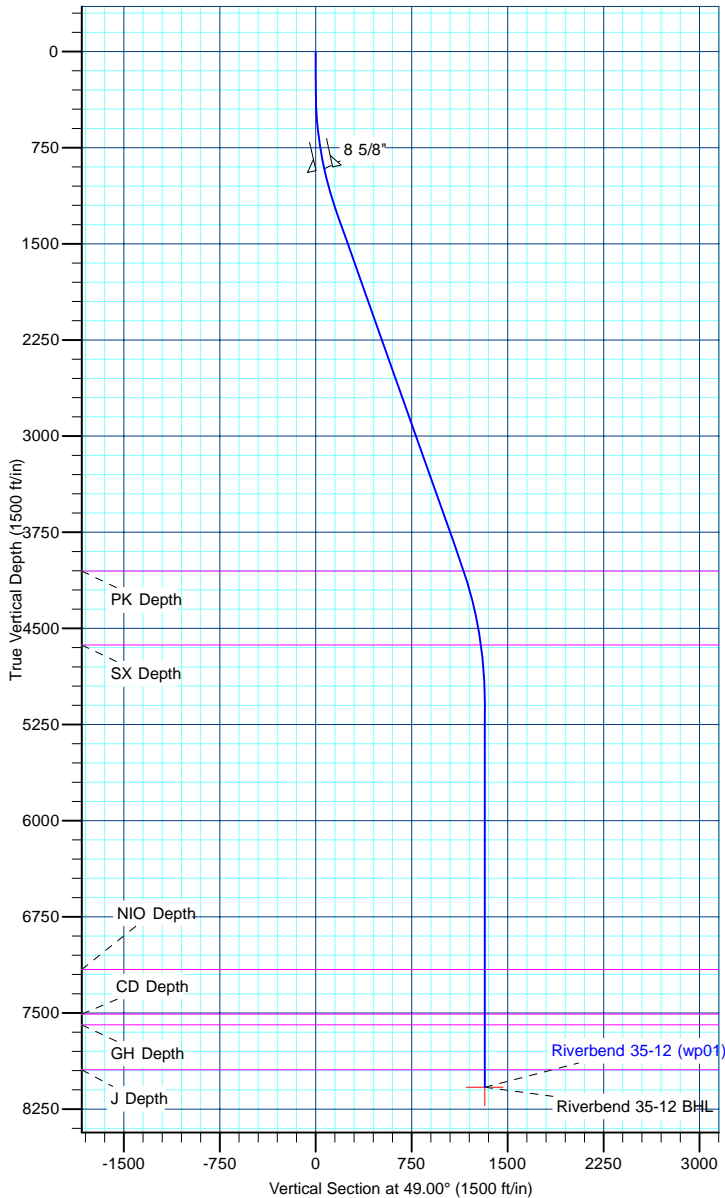
TVD	MD	Name	Size
915.00	919.82	8 5/8"	8-5/8

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape Point
Riverbend 35-12 BHL	8078.00	867.01	997.33	1264818.65	3183672.51	40.058451	-104.843818	

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
0.00	0.00	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
1277.86	19.56	49.00	1258.98	108.43	124.73	2.00	49.00	165.28
4167.61	19.56	49.00	3982.02	743.08	854.78	0.00	0.00	1132.62
5285.17	0.00	0.00	5078.00	867.01	997.33	1.75	180.00	1321.51
8285.17	0.00	0.00	8078.00	867.01	997.33	0.00	0.00	1321.51



Database:	edm5000p	Local Co-ordinate Reference:	Well Riverbend 35-12
Company:	US ROCKIES REGION PLANNING	TVD Reference:	15' RKB + 4952' GL @ 4967.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	15' RKB + 4952' GL @ 4967.00ft
Site:	WELD_RIVERBEND 4-13 PAD	North Reference:	True
Well:	Riverbend 35-12	Survey Calculation Method:	Minimum Curvature
Wellbore:	Riverbend 35-12		
Design:	Riverbend 35-12 (wp01)		

Project	COLORADO NORTHERN ZONE - 83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site	WELD_RIVERBEND 4-13 PAD		
Site Position:		Northing:	Latitude:
From:	Lat/Long	Easting:	Longitude:
Position Uncertainty:		Slot Radius:	Grid Convergence:

Well	Riverbend 35-12		
Well Position	+N/-S	Northing:	Latitude:
	+E/-W	Easting:	Longitude:
Position Uncertainty		Wellhead Elevation:	Ground Level:

Wellbore	Riverbend 35-12				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			()	()	(nT)
	IGRF2010	7/11/2011			

Design	Riverbend 35-12 (wp01)				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:		
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	()	()	()	()	

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth			Depth			Rate	Rate	Rate		
()	()	()	()	()	()	()	()	()	()	
Riverbend 35-12 Bt										

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Well:	Riverbend 35-12	Survey Calculation Method:	Minimum Curvature
Wellbore:	Riverbend 35-12		
Design:	Riverbend 35-12 (wp01)		

Planned Survey										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate	
0	0	0	0	0	0	0	0	0	0	
Start Build 2.00										
8 5/8"										
Start 2889.75 hold at 1277.86 MD										
Start Drop -1.75										
PK Depth										

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Wellbore:	Riverbend 35-12		
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Planned Survey

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
0	0	0	0	0	0	0	0	0	0

SX Depth

Start 3000.00 hold at 5285.17 MD

NIO Depth

CD Depth

GH Depth

J Depth

TD at 8285.17 - Riverbend 35-12 BHL

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Design:	Riverbend 35-12 (wp01)		

Casing Points				
Measured Depth ()	Vertical Depth ()	Name	Casing Diameter ()	Hole Diameter ()
		8 5/8"		

Formations						
Measured Depth ()	Vertical Depth ()	Name	Lithology	Dip ()	Dip Direction ()	
		PK Depth				
		SX Depth				
		NIO Depth				
		CD Depth				
		GH Depth				
		J Depth				

Plan Annotations				
Measured Depth ()	Vertical Depth ()	Local Coordinates		Comment
		+N/-S ()	+E/-W ()	
				Start Build 2.00
				Start 2889.75 hold at 1277.86 MD
				Start Drop -1.75
				Start 3000.00 hold at 5285.17 MD
				TD at 8285.17