

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_WETHINGTON PAD

Wethington 7-7

Wethington 7-7

Plan: Wethington 7-7 (wp01)

Standard Planning Report

10 May, 2011



Project: COLORADO NORTHERN ZONE - 83
 Site: WELD_WETHINGTON PAD
 Well: Wethington 7-7
 Wellbore: Wethington 7-7
 Section:
 SHL:
 Design: Wethington 7-7 (wp01)
 Latitude: 40.068733
 Longitude: -104.820461
 GL: 4902.00
 KB: 15' RKB + 4902' GL @ 4917.00ft

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3307.00	3462.38	PRKM TOP
4637.00	4792.80	SX TOP
5152.00	5307.80	SHN TOP
7107.00	7262.80	NI A TOP
7447.00	7602.80	CDL TOP



Azimuths to True North
 Magnetic North: 8.88°

Magnetic Field
 Strength: 52962.6snT
 Dip Angle: 66.78°
 Date: 5/3/2011
 Model: IGRF2010

WELL DETAILS: Wethington 7-7

+N/-S	+E/-W	Northing	Ground Level: Easting	4902.00 Latitude	Longitude	Slot
0.00	0.00	1268613.25	3190181.56	40.068733	-104.820461	

CASING DETAILS

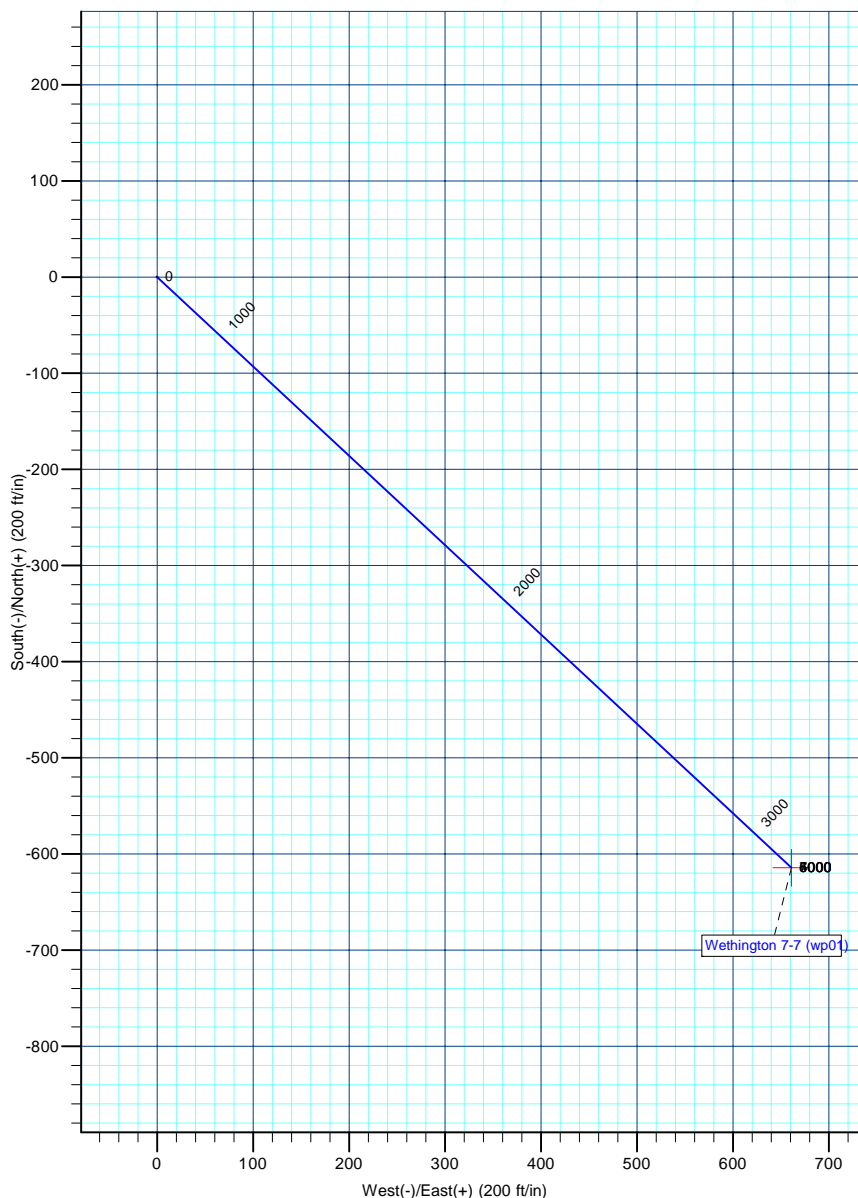
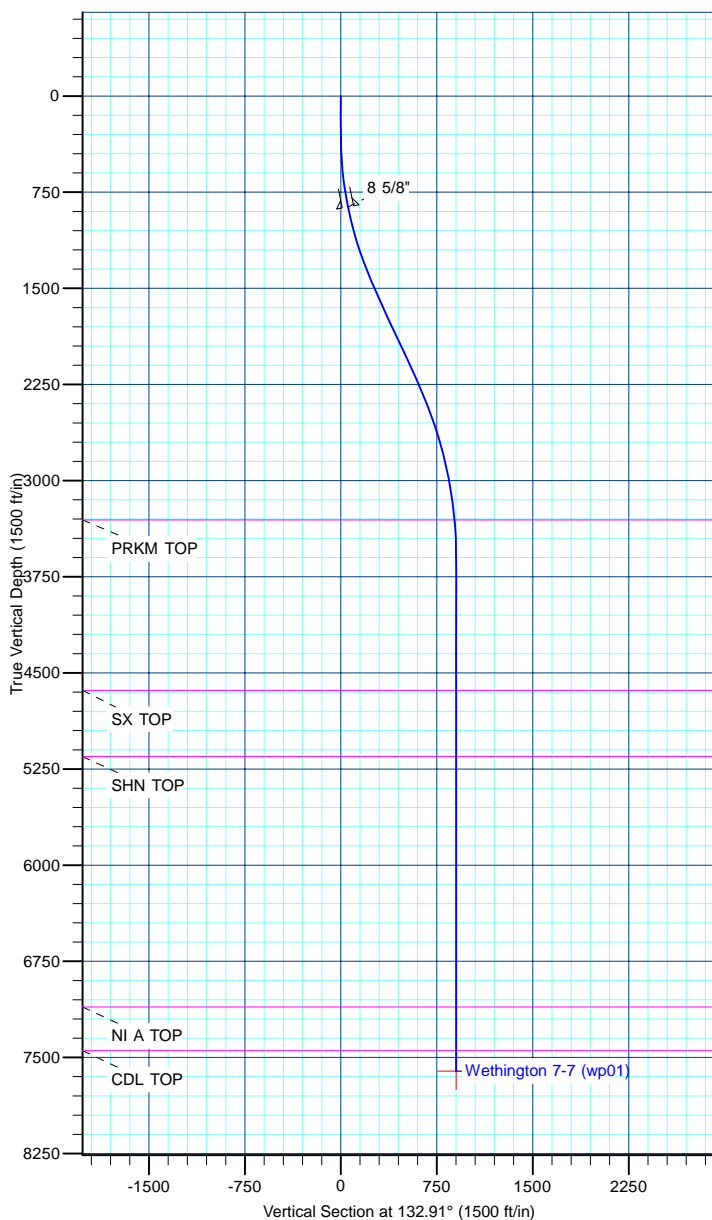
TVD	MD	Name	Size
865.00	868.73	8 5/8"	8-5/8

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape Point
Wethington 7-7 BHL	7607.00	-614.51	661.07	1268003.82	3190847.32	40.067046	-104.818099	

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
1534.16	24.68	132.91	1496.34	-178.21	191.72	2.00	132.91	261.76
2352.33	24.68	132.91	2239.75	-410.84	441.97	0.00	0.00	603.42
3762.80	0.00	0.00	3607.00	-614.51	661.07	1.75	180.00	902.57
7762.80	0.00	0.00	7607.00	-614.51	661.07	0.00	0.00	902.57



Database:	edm5000p	Local Co-ordinate Reference:	Well Wethington 7-7
Company:	US ROCKIES REGION PLANNING	TVD Reference:	15' RKB + 4902' GL @ 4917.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	15' RKB + 4902' GL @ 4917.00ft
Site:	WELD_WETHINGTON PAD	North Reference:	True
Well:	Wethington 7-7	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wethington 7-7		
Design:	Wethington 7-7 (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_WETHINGTON PAD			
Site Position:		Northing:	1,268,683.25 ft	Latitude:	40.068925
From:	Lat/Long	Easting:	3,190,186.90 ft	Longitude:	-104.820440
Position Uncertainty:	0.00 ft	Slot Radius:	0 "	Grid Convergence:	0.44 °

Well	Wethington 7-7					
Well Position	+N-S	-69.96 ft	Northing:	1,268,613.25 ft	Latitude:	40.068733
	+E-W	-5.88 ft	Easting:	3,190,181.56 ft	Longitude:	-104.820461
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,902.00 ft

Wellbore	Wethington 7-7				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/3/2011	8.88	66.78	52,963

Design	Wethington 7-7 (wp01)			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	132.91

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	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	0.00	
1,534.16	24.68	132.91	1,496.34	-178.21	191.72	2.00	2.00	0.00	132.91	
2,352.33	24.68	132.91	2,239.75	-410.84	441.97	0.00	0.00	0.00	0.00	
3,762.80	0.00	0.00	3,607.00	-614.51	661.07	1.75	-1.75	0.00	180.00	
7,762.80	0.00	0.00	7,607.00	-614.51	661.07	0.00	0.00	0.00	0.00	Wethington 7-7 BHI

Database:	edm5000p	Local Co-ordinate Reference:	Well Wethington 7-7
Company:	US ROCKIES REGION PLANNING	TVD Reference:	15' RKB + 4902' GL @ 4917.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	15' RKB + 4902' GL @ 4917.00ft
Site:	WELD_WETHINGTON PAD	North Reference:	True
Well:	Wethington 7-7	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wethington 7-7		
Design:	Wethington 7-7 (wp01)		

Planned Survey									
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)
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
200.00	0.00	0.00	200.00	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
400.00	2.00	132.91	399.98	-1.19	1.28	1.75	2.00	2.00	0.00
500.00	4.00	132.91	499.84	-4.75	5.11	6.98	2.00	2.00	0.00
600.00	6.00	132.91	599.45	-10.68	11.49	15.69	2.00	2.00	0.00
700.00	8.00	132.91	698.70	-18.98	20.42	27.88	2.00	2.00	0.00
800.00	10.00	132.91	797.47	-29.63	31.88	43.52	2.00	2.00	0.00
868.73	11.37	132.91	865.00	-38.31	41.21	56.27	2.00	2.00	0.00
8 5/8"									
900.00	12.00	132.91	895.62	-42.62	45.85	62.60	2.00	2.00	0.00
1,000.00	14.00	132.91	993.06	-57.94	62.33	85.10	2.00	2.00	0.00
1,100.00	16.00	132.91	1,089.64	-75.56	81.28	110.98	2.00	2.00	0.00
1,200.00	18.00	132.91	1,185.27	-95.46	102.70	140.21	2.00	2.00	0.00
1,300.00	20.00	132.91	1,279.82	-117.63	126.54	172.77	2.00	2.00	0.00
1,400.00	22.00	132.91	1,373.17	-142.03	152.79	208.60	2.00	2.00	0.00
1,500.00	24.00	132.91	1,465.21	-168.63	181.40	247.67	2.00	2.00	0.00
1,534.16	24.68	132.91	1,496.34	-178.21	191.72	261.76	2.00	2.00	0.00
1,600.00	24.68	132.91	1,556.16	-196.93	211.85	289.25	0.00	0.00	0.00
1,700.00	24.68	132.91	1,647.03	-225.36	242.44	331.01	0.00	0.00	0.00
1,800.00	24.68	132.91	1,737.89	-253.80	273.03	372.77	0.00	0.00	0.00
1,900.00	24.68	132.91	1,828.75	-282.23	303.61	414.53	0.00	0.00	0.00
2,000.00	24.68	132.91	1,919.61	-310.66	334.20	456.29	0.00	0.00	0.00
2,100.00	24.68	132.91	2,010.48	-339.09	364.79	498.05	0.00	0.00	0.00
2,200.00	24.68	132.91	2,101.34	-367.52	395.37	539.81	0.00	0.00	0.00
2,300.00	24.68	132.91	2,192.20	-395.96	425.96	581.57	0.00	0.00	0.00
2,352.33	24.68	132.91	2,239.75	-410.84	441.97	603.42	0.00	0.00	0.00
2,400.00	23.85	132.91	2,283.21	-424.17	456.31	623.01	1.75	-1.75	0.00
2,500.00	22.10	132.91	2,375.27	-450.75	484.90	662.04	1.75	-1.75	0.00
2,600.00	20.35	132.91	2,468.49	-475.39	511.42	698.24	1.75	-1.75	0.00
2,700.00	18.60	132.91	2,562.76	-498.09	535.83	731.58	1.75	-1.75	0.00
2,800.00	16.85	132.91	2,658.01	-518.82	558.13	762.02	1.75	-1.75	0.00
2,900.00	15.10	132.91	2,754.15	-537.55	578.29	789.54	1.75	-1.75	0.00
3,000.00	13.35	132.91	2,851.08	-554.28	596.28	814.11	1.75	-1.75	0.00
3,100.00	11.60	132.91	2,948.71	-568.99	612.10	835.71	1.75	-1.75	0.00
3,200.00	9.85	132.91	3,046.96	-581.66	625.73	854.32	1.75	-1.75	0.00
3,300.00	8.10	132.91	3,145.74	-592.28	637.15	869.92	1.75	-1.75	0.00
3,400.00	6.35	132.91	3,244.94	-600.84	646.36	882.49	1.75	-1.75	0.00
3,462.38	5.26	132.91	3,307.00	-605.13	650.98	888.80	1.75	-1.75	0.00
PRKM TOP									
3,500.00	4.60	132.91	3,344.48	-607.33	653.35	892.03	1.75	-1.75	0.00
3,600.00	2.85	132.91	3,444.26	-611.75	658.11	898.53	1.75	-1.75	0.00
3,700.00	1.10	132.91	3,544.20	-614.10	660.63	901.97	1.75	-1.75	0.00
3,762.80	0.00	0.00	3,607.00	-614.51	661.07	902.57	1.75	-1.75	0.00
3,800.00	0.00	0.00	3,644.20	-614.51	661.07	902.57	0.00	0.00	0.00
3,900.00	0.00	0.00	3,744.20	-614.51	661.07	902.57	0.00	0.00	0.00
4,000.00	0.00	0.00	3,844.20	-614.51	661.07	902.57	0.00	0.00	0.00
4,100.00	0.00	0.00	3,944.20	-614.51	661.07	902.57	0.00	0.00	0.00
4,200.00	0.00	0.00	4,044.20	-614.51	661.07	902.57	0.00	0.00	0.00
4,300.00	0.00	0.00	4,144.20	-614.51	661.07	902.57	0.00	0.00	0.00
4,400.00	0.00	0.00	4,244.20	-614.51	661.07	902.57	0.00	0.00	0.00
4,500.00	0.00	0.00	4,344.20	-614.51	661.07	902.57	0.00	0.00	0.00
4,600.00	0.00	0.00	4,444.20	-614.51	661.07	902.57	0.00	0.00	0.00

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Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	15' RKB + 4902' GL @ 4917.00ft
Site:	WELD_WETHINGTON PAD	North Reference:	True
Well:	Wethington 7-7	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wethington 7-7		
Design:	Wethington 7-7 (wp01)		

Planned Survey									
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)
4,700.00	0.00	0.00	4,544.20	-614.51	661.07	902.57	0.00	0.00	0.00
4,792.80	0.00	0.00	4,637.00	-614.51	661.07	902.57	0.00	0.00	0.00
SX TOP									
4,800.00	0.00	0.00	4,644.20	-614.51	661.07	902.57	0.00	0.00	0.00
4,900.00	0.00	0.00	4,744.20	-614.51	661.07	902.57	0.00	0.00	0.00
5,000.00	0.00	0.00	4,844.20	-614.51	661.07	902.57	0.00	0.00	0.00
5,100.00	0.00	0.00	4,944.20	-614.51	661.07	902.57	0.00	0.00	0.00
5,200.00	0.00	0.00	5,044.20	-614.51	661.07	902.57	0.00	0.00	0.00
5,300.00	0.00	0.00	5,144.20	-614.51	661.07	902.57	0.00	0.00	0.00
5,307.80	0.00	0.00	5,152.00	-614.51	661.07	902.57	0.00	0.00	0.00
SHN TOP									
5,400.00	0.00	0.00	5,244.20	-614.51	661.07	902.57	0.00	0.00	0.00
5,500.00	0.00	0.00	5,344.20	-614.51	661.07	902.57	0.00	0.00	0.00
5,600.00	0.00	0.00	5,444.20	-614.51	661.07	902.57	0.00	0.00	0.00
5,700.00	0.00	0.00	5,544.20	-614.51	661.07	902.57	0.00	0.00	0.00
5,800.00	0.00	0.00	5,644.20	-614.51	661.07	902.57	0.00	0.00	0.00
5,900.00	0.00	0.00	5,744.20	-614.51	661.07	902.57	0.00	0.00	0.00
6,000.00	0.00	0.00	5,844.20	-614.51	661.07	902.57	0.00	0.00	0.00
6,100.00	0.00	0.00	5,944.20	-614.51	661.07	902.57	0.00	0.00	0.00
6,200.00	0.00	0.00	6,044.20	-614.51	661.07	902.57	0.00	0.00	0.00
6,300.00	0.00	0.00	6,144.20	-614.51	661.07	902.57	0.00	0.00	0.00
6,400.00	0.00	0.00	6,244.20	-614.51	661.07	902.57	0.00	0.00	0.00
6,500.00	0.00	0.00	6,344.20	-614.51	661.07	902.57	0.00	0.00	0.00
6,600.00	0.00	0.00	6,444.20	-614.51	661.07	902.57	0.00	0.00	0.00
6,700.00	0.00	0.00	6,544.20	-614.51	661.07	902.57	0.00	0.00	0.00
6,800.00	0.00	0.00	6,644.20	-614.51	661.07	902.57	0.00	0.00	0.00
6,900.00	0.00	0.00	6,744.20	-614.51	661.07	902.57	0.00	0.00	0.00
7,000.00	0.00	0.00	6,844.20	-614.51	661.07	902.57	0.00	0.00	0.00
7,100.00	0.00	0.00	6,944.20	-614.51	661.07	902.57	0.00	0.00	0.00
7,200.00	0.00	0.00	7,044.20	-614.51	661.07	902.57	0.00	0.00	0.00
7,262.80	0.00	0.00	7,107.00	-614.51	661.07	902.57	0.00	0.00	0.00
NI A TOP									
7,300.00	0.00	0.00	7,144.20	-614.51	661.07	902.57	0.00	0.00	0.00
7,400.00	0.00	0.00	7,244.20	-614.51	661.07	902.57	0.00	0.00	0.00
7,500.00	0.00	0.00	7,344.20	-614.51	661.07	902.57	0.00	0.00	0.00
7,600.00	0.00	0.00	7,444.20	-614.51	661.07	902.57	0.00	0.00	0.00
7,602.80	0.00	0.00	7,447.00	-614.51	661.07	902.57	0.00	0.00	0.00
CDL TOP									
7,700.00	0.00	0.00	7,544.20	-614.51	661.07	902.57	0.00	0.00	0.00
7,762.80	0.00	0.00	7,607.00	-614.51	661.07	902.57	0.00	0.00	0.00
Wethington 7-7 BHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Wethington 7-7 BHL	0.00	0.00	7,607.00	-614.51	661.07	1,268,003.82	3,190,847.32	40.067046	-104.818099
- hit/miss target									
- Shape									
- Point									

Database:	edm5000p	Local Co-ordinate Reference:	Well Wethington 7-7
Company:	US ROCKIES REGION PLANNING	TVD Reference:	15' RKB + 4902' GL @ 4917.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	15' RKB + 4902' GL @ 4917.00ft
Site:	WELD_WETHINGTON PAD	North Reference:	True
Well:	Wethington 7-7	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wethington 7-7		
Design:	Wethington 7-7 (wp01)		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
868.73	865.00	8 5/8"	8-5/8	11	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,462.38	3,307.00	PRKM TOP				
4,792.80	4,637.00	SX TOP				
5,307.80	5,152.00	SHN TOP				
7,262.80	7,107.00	NI A TOP				
7,602.80	7,447.00	CDL TOP				

US ROCKIES REGION PLANNING

**COLORADO NORTHERN ZONE - 83
WELD_WETHINGTON PAD
Wethington 7-7**

**Wethington 7-7
Wethington 7-7 (wp01)**

Anticollision Summary Report

10 May, 2011



APC

Anticollision Summary Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well Wethington 7-7
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	15' RKB + 4902' GL @ 4917.00ft
Reference Site:	WELD_WETHINGTON PAD	MD Reference:	15' RKB + 4902' GL @ 4917.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	Wethington 7-7	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wethington 7-7	Database:	edm5000p
Reference Design:	Wethington 7-7 (wp01)	Offset TVD Reference:	Offset Datum

Reference	Wethington 7-7 (wp01)		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 25.00ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,000.00 ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date 5/10/2011			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	7,762.80	Wethington 7-7 (wp01) (Wethington 7-7)	MWD	MWD - Standard

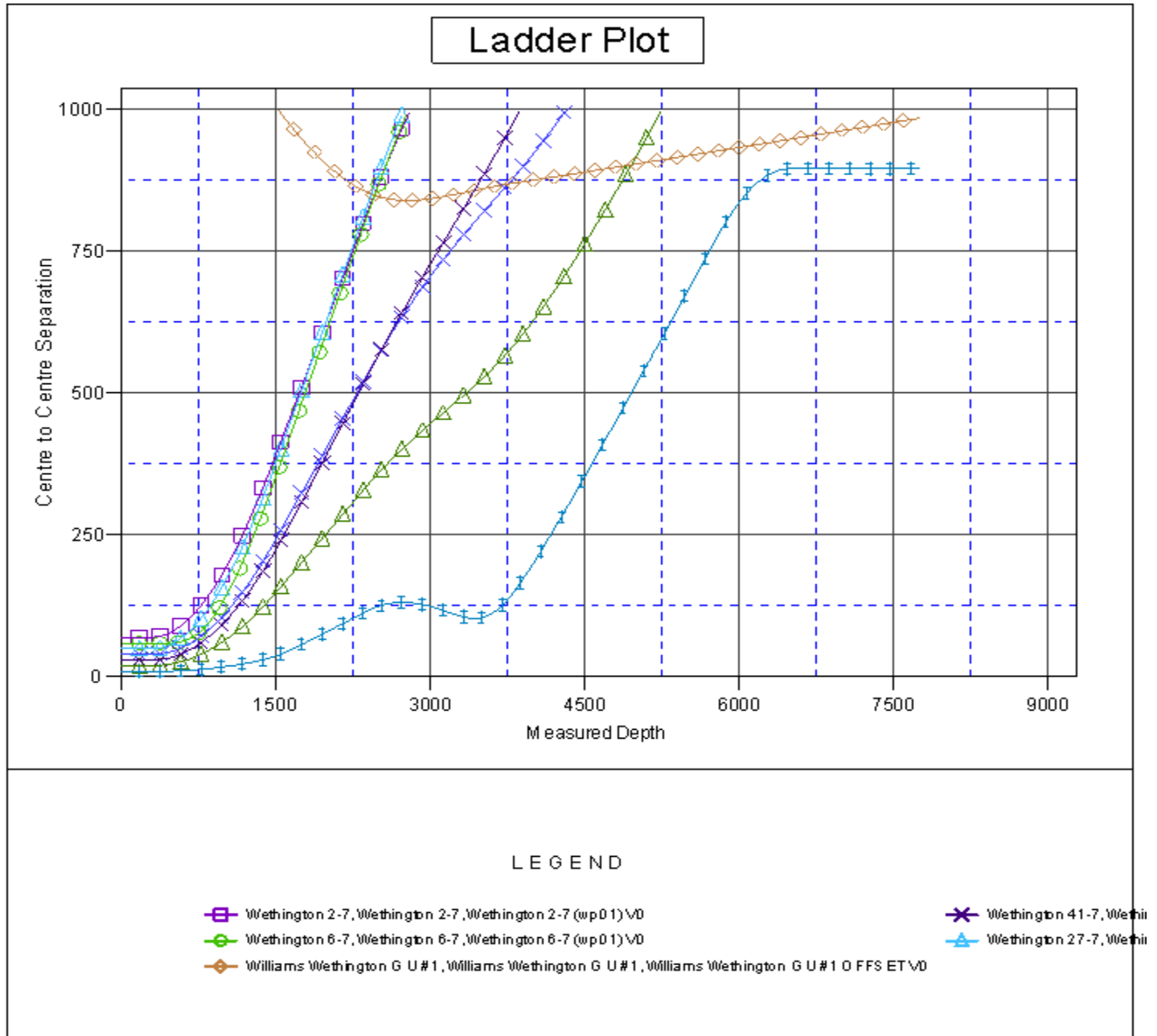
Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
WELD_WETHINGTON PAD						
Wethington 17-7 - Wethington 17-7 - Wethington 17-7 (w	300.00	300.00	39.85	38.76	36.554	CC
Wethington 17-7 - Wethington 17-7 - Wethington 17-7 (w	325.00	324.93	39.94	38.74	33.426	ES
Wethington 17-7 - Wethington 17-7 - Wethington 17-7 (w	750.00	746.86	68.82	65.59	21.343	SF
Wethington 24-7 - Wethington 24-7 - Wethington 24-7 (w	300.00	300.00	9.88	8.79	9.059	CC
Wethington 24-7 - Wethington 24-7 - Wethington 24-7 (w	425.00	425.23	10.11	8.51	6.314	ES
Wethington 24-7 - Wethington 24-7 - Wethington 24-7 (w	3,475.00	3,462.17	103.91	66.41	2.771	SF
Wethington 2-7 - Wethington 2-7 - Wethington 2-7 (wp01	300.00	300.00	70.20	69.11	64.393	CC, ES
Wethington 2-7 - Wethington 2-7 - Wethington 2-7 (wp01	675.00	665.12	105.77	103.05	38.869	SF
Wethington 27-7 - Wethington 27-7 - Wethington 27-7 (w	300.00	300.00	50.08	48.99	45.942	CC, ES
Wethington 27-7 - Wethington 27-7 - Wethington 27-7 (w	575.00	570.20	68.15	65.88	29.979	SF
Wethington 41-7 - Wethington 41-7 - Wethington 41-7 (w	300.00	300.00	29.98	28.89	27.499	CC
Wethington 41-7 - Wethington 41-7 - Wethington 41-7 (w	325.00	324.96	30.06	28.87	25.162	ES
Wethington 41-7 - Wethington 41-7 - Wethington 41-7 (w	650.00	648.61	46.65	43.98	17.528	SF
Wethington 6-7 - Wethington 6-7 - Wethington 6-7 (wp01	420.74	422.42	59.83	58.25	37.729	CC
Wethington 6-7 - Wethington 6-7 - Wethington 6-7 (wp01	450.00	452.01	59.87	58.16	35.123	ES
Wethington 6-7 - Wethington 6-7 - Wethington 6-7 (wp01	725.00	726.02	74.09	71.12	24.918	SF
Wethington 8-7 - Wethington 8-7 - Wethington 8-7 (wp01	300.00	300.00	20.11	19.02	18.447	CC
Wethington 8-7 - Wethington 8-7 - Wethington 8-7 (wp01	325.00	325.02	20.16	18.97	16.888	ES
Wethington 8-7 - Wethington 8-7 - Wethington 8-7 (wp01	650.00	649.95	30.83	28.17	11.581	SF
Williams Wethington G U #1 - Williams Wethington G U #	2,775.26	2,600.97	840.17	824.56	53.802	CC
Williams Wethington G U #1 - Williams Wethington G U #	2,800.00	2,624.43	840.22	824.46	53.334	ES
Williams Wethington G U #1 - Williams Wethington G U #	7,762.80	7,567.06	985.77	962.52	42.384	SF

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well Wethington 7-7
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	15' RKB + 4902' GL @ 4917.00ft
Reference Site:	WELD_WETHINGTON PAD	MD Reference:	15' RKB + 4902' GL @ 4917.00ft
Site Error:	0.00 ft	North Reference:	True
Reference Well:	Wethington 7-7	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wethington 7-7	Database:	edm5000p
Reference Design:	Wethington 7-7 (wp01)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 15' RKB + 4902' GL @ 4917.00ft
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000

Coordinates are relative to: Wethington 7-7
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.44°



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well Wethington 7-7
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	15' RKB + 4902' GL @ 4917.00ft
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Reference Design:	Wethington 7-7 (wp01)	Offset TVD Reference:	Offset Datum

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