

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_WETHINGTON PAD

Wethington 6-7

Wethington 6-7

Plan: Wethington 6-7 (wp01)

Standard Planning Report

04 May, 2011



Project: COLORADO NORTHERN ZONE - 83
 Site: WELD_WETHINGTON PAD
 Well: Wethington 6-7
 Wellbore: Wethington 6-7
 Section:
 SHL:
 Design: Wethington 6-7 (wp01)
 Latitude: 40.068897
 Longitude: -104.820443
 GL: 4902.00
 KB: 15' RKB + 4902' GL @ 4917.00ft

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
3287.00	3392.72	PRKM TOP
4617.00	4728.91	SX TOP
5132.00	5243.91	SHN TOP
7087.00	7198.91	NI A TOP
7427.00	7538.91	CDL TOP
7517.00	7628.91	GH TOP
7867.00	7978.91	J TOP



Azimuths to True North
 Magnetic North: 8.88°

Magnetic Field
 Strength: 52962.7snT
 Dip Angle: 66.78°
 Date: 5/3/2011
 Model: IGRF2010

WELL DETAILS: Wethington 6-7

+N/-S	+E/-W	Northing	Ground Level: Easting	4902.00 Latitude	Longitude	Slot
0.00	0.00	1268673.03	3190186.14	40.068897	-104.820443	

CASING DETAILS

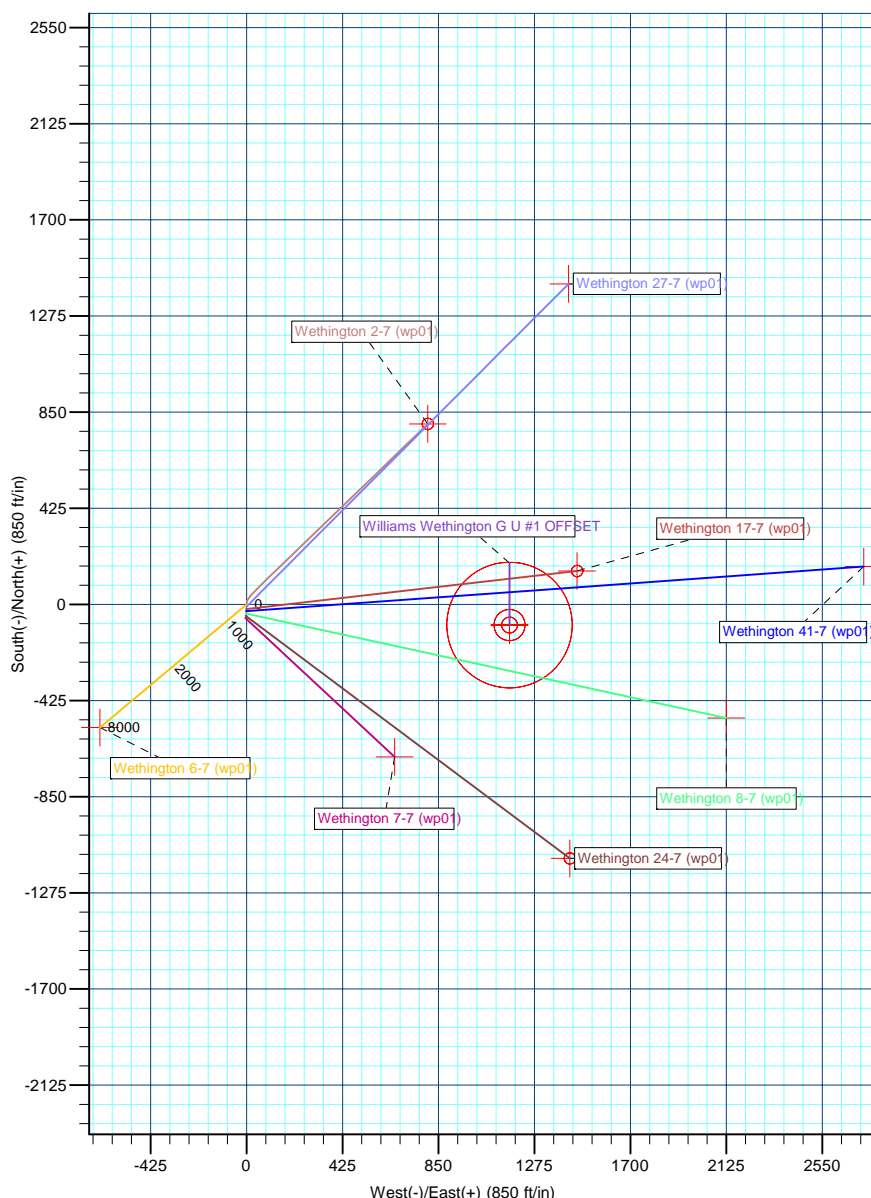
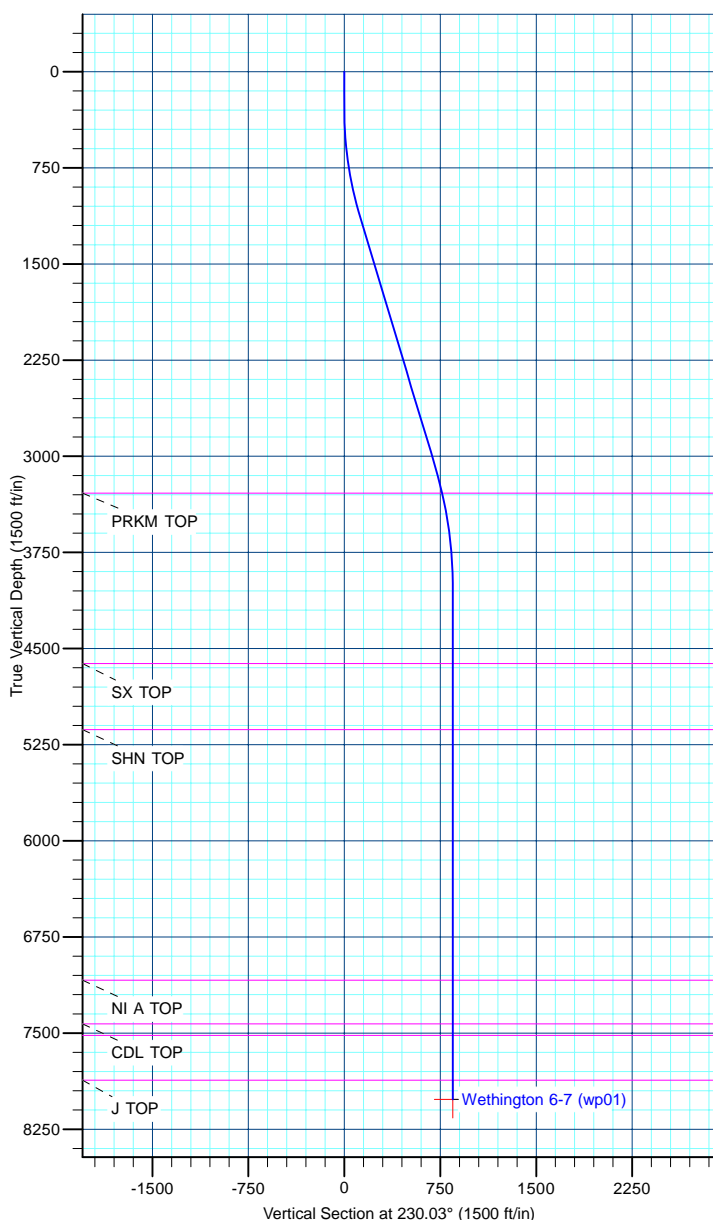
No casing data is available

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape Point
Wethington 6-7 BHL	8017.00	-544.21	-649.31	1268123.86	3189541.01	40.067403	-104.822763	

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
1138.21	16.76	230.03	1126.30	-78.21	-93.31	2.00	230.03	121.75
3170.96	16.76	230.03	3072.66	-454.83	-542.67	0.00	0.00	708.07
4128.91	0.00	0.00	4017.00	-544.21	-649.31	1.75	180.00	847.21
8128.91	0.00	0.00	8017.00	-544.21	-649.31	0.00	0.00	847.21



Database:	edm5000p	Local Co-ordinate Reference:	Well Wethington 6-7
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 6-7	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wethington 6-7		
Design:	Wethington 6-7 (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 6-7					
Well Position	+N-S	-10.21 ft	Northing:	1,268,673.03 ft	Latitude:	40.068897
	+E-W	-0.84 ft	Easting:	3,190,186.14 ft	Longitude:	-104.820443
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,902.00 ft

Wellbore	Wethington 6-7				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/3/2011	8.88	66.78	52,963

Design	Wethington 6-7 (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	230.03

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	
1,138.21	16.76	230.03	1,126.30	-78.21	-93.31	2.00	2.00	0.00	230.03	
3,170.96	16.76	230.03	3,072.66	-454.83	-542.67	0.00	0.00	0.00	0.00	
4,128.91	0.00	0.00	4,017.00	-544.21	-649.31	1.75	-1.75	0.00	180.00	
8,128.91	0.00	0.00	8,017.00	-544.21	-649.31	0.00	0.00	0.00	0.00	Wethington 6-7 BHI

Database:	edm5000p	Local Co-ordinate Reference:	Well Wethington 6-7
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 6-7	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wethington 6-7		
Design:	Wethington 6-7 (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	230.03	399.98	-1.12	-1.34	1.75	2.00	2.00	0.00
500.00	4.00	230.03	499.84	-4.48	-5.35	6.98	2.00	2.00	0.00
600.00	6.00	230.03	599.45	-10.08	-12.03	15.69	2.00	2.00	0.00
700.00	8.00	230.03	698.70	-17.91	-21.37	27.88	2.00	2.00	0.00
800.00	10.00	230.03	797.47	-27.96	-33.36	43.52	2.00	2.00	0.00
900.00	12.00	230.03	895.62	-40.21	-47.98	62.60	2.00	2.00	0.00
1,000.00	14.00	230.03	993.06	-54.66	-65.22	85.10	2.00	2.00	0.00
1,100.00	16.00	230.03	1,089.64	-71.29	-85.05	110.98	2.00	2.00	0.00
1,138.21	16.76	230.03	1,126.30	-78.21	-93.31	121.75	2.00	2.00	0.00
1,200.00	16.76	230.03	1,185.47	-89.66	-106.97	139.58	0.00	0.00	0.00
1,300.00	16.76	230.03	1,281.22	-108.18	-129.08	168.42	0.00	0.00	0.00
1,400.00	16.76	230.03	1,376.97	-126.71	-151.18	197.26	0.00	0.00	0.00
1,500.00	16.76	230.03	1,472.72	-145.24	-173.29	226.11	0.00	0.00	0.00
1,600.00	16.76	230.03	1,568.47	-163.77	-195.40	254.95	0.00	0.00	0.00
1,700.00	16.76	230.03	1,664.22	-182.29	-217.50	283.79	0.00	0.00	0.00
1,800.00	16.76	230.03	1,759.97	-200.82	-239.61	312.64	0.00	0.00	0.00
1,900.00	16.76	230.03	1,855.72	-219.35	-261.71	341.48	0.00	0.00	0.00
2,000.00	16.76	230.03	1,951.47	-237.88	-283.82	370.32	0.00	0.00	0.00
2,100.00	16.76	230.03	2,047.22	-256.40	-305.93	399.17	0.00	0.00	0.00
2,200.00	16.76	230.03	2,142.97	-274.93	-328.03	428.01	0.00	0.00	0.00
2,300.00	16.76	230.03	2,238.72	-293.46	-350.14	456.85	0.00	0.00	0.00
2,400.00	16.76	230.03	2,334.47	-311.99	-372.24	485.70	0.00	0.00	0.00
2,500.00	16.76	230.03	2,430.22	-330.52	-394.35	514.54	0.00	0.00	0.00
2,600.00	16.76	230.03	2,525.97	-349.04	-416.46	543.38	0.00	0.00	0.00
2,700.00	16.76	230.03	2,621.72	-367.57	-438.56	572.23	0.00	0.00	0.00
2,800.00	16.76	230.03	2,717.47	-386.10	-460.67	601.07	0.00	0.00	0.00
2,900.00	16.76	230.03	2,813.22	-404.63	-482.77	629.91	0.00	0.00	0.00
3,000.00	16.76	230.03	2,908.97	-423.15	-504.88	658.76	0.00	0.00	0.00
3,100.00	16.76	230.03	3,004.72	-441.68	-526.98	687.60	0.00	0.00	0.00
3,170.96	16.76	230.03	3,072.66	-454.83	-542.67	708.07	0.00	0.00	0.00
3,200.00	16.26	230.03	3,100.50	-460.13	-549.00	716.32	1.75	-1.75	0.00
3,300.00	14.51	230.03	3,196.92	-477.17	-569.32	742.84	1.75	-1.75	0.00
3,392.72	12.88	230.03	3,287.00	-491.27	-586.15	764.79	1.75	-1.75	0.00
PRKM TOP									
3,400.00	12.76	230.03	3,294.10	-492.30	-587.38	766.41	1.75	-1.75	0.00
3,500.00	11.01	230.03	3,391.95	-505.53	-603.16	787.00	1.75	-1.75	0.00
3,600.00	9.26	230.03	3,490.39	-516.83	-616.64	804.58	1.75	-1.75	0.00
3,700.00	7.51	230.03	3,589.32	-526.19	-627.81	819.16	1.75	-1.75	0.00
3,800.00	5.76	230.03	3,688.64	-533.60	-636.66	830.71	1.75	-1.75	0.00
3,900.00	4.01	230.03	3,788.28	-539.07	-643.18	839.21	1.75	-1.75	0.00
4,000.00	2.26	230.03	3,888.12	-542.58	-647.37	844.68	1.75	-1.75	0.00
4,100.00	0.51	230.03	3,988.09	-544.13	-649.22	847.09	1.75	-1.75	0.00
4,128.91	0.00	0.00	4,017.00	-544.21	-649.31	847.21	1.75	-1.75	0.00
4,200.00	0.00	0.00	4,088.09	-544.21	-649.31	847.21	0.00	0.00	0.00
4,300.00	0.00	0.00	4,188.09	-544.21	-649.31	847.21	0.00	0.00	0.00
4,400.00	0.00	0.00	4,288.09	-544.21	-649.31	847.21	0.00	0.00	0.00
4,500.00	0.00	0.00	4,388.09	-544.21	-649.31	847.21	0.00	0.00	0.00
4,600.00	0.00	0.00	4,488.09	-544.21	-649.31	847.21	0.00	0.00	0.00
4,700.00	0.00	0.00	4,588.09	-544.21	-649.31	847.21	0.00	0.00	0.00
4,728.91	0.00	0.00	4,617.00	-544.21	-649.31	847.21	0.00	0.00	0.00

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Site:	WELD_WETHINGTON PAD	North Reference:	True
Well:	Wethington 6-7	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wethington 6-7		
Design:	Wethington 6-7 (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)	
SX TOP										
4,800.00	0.00	0.00	4,688.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
4,900.00	0.00	0.00	4,788.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
5,000.00	0.00	0.00	4,888.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
5,100.00	0.00	0.00	4,988.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,088.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
5,243.91	0.00	0.00	5,132.00	-544.21	-649.31	847.21	0.00	0.00	0.00	
SHN TOP										
5,300.00	0.00	0.00	5,188.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,288.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,388.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,488.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,588.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,688.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,788.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,888.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
6,100.00	0.00	0.00	5,988.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,088.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,188.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,288.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,388.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,488.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,588.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,688.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,788.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,888.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
7,100.00	0.00	0.00	6,988.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
7,198.91	0.00	0.00	7,087.00	-544.21	-649.31	847.21	0.00	0.00	0.00	
NI A TOP										
7,200.00	0.00	0.00	7,088.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,188.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,288.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,388.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
7,538.91	0.00	0.00	7,427.00	-544.21	-649.31	847.21	0.00	0.00	0.00	
CDL TOP										
7,600.00	0.00	0.00	7,488.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
7,628.91	0.00	0.00	7,517.00	-544.21	-649.31	847.21	0.00	0.00	0.00	
GH TOP										
7,700.00	0.00	0.00	7,588.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,688.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,788.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
7,978.91	0.00	0.00	7,867.00	-544.21	-649.31	847.21	0.00	0.00	0.00	
J TOP										
8,000.00	0.00	0.00	7,888.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
8,100.00	0.00	0.00	7,988.09	-544.21	-649.31	847.21	0.00	0.00	0.00	
8,128.91	0.00	0.00	8,017.00	-544.21	-649.31	847.21	0.00	0.00	0.00	
Wethington 6-7 BHL										

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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 6-7	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wethington 6-7		
Design:	Wethington 6-7 (wp01)		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
Wethington 6-7 BHL	0.00	0.00	8,017.00	-544.21	-649.31	1,268,123.86	3,189,541.02	40.067403	-104.822763
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
3,392.72	3,287.00	PRKM TOP				
4,728.91	4,617.00	SX TOP				
5,243.91	5,132.00	SHN TOP				
7,198.91	7,087.00	NI A TOP				
7,538.91	7,427.00	CDL TOP				
7,628.91	7,517.00	GH TOP				
7,978.91	7,867.00	J TOP				

US ROCKIES REGION PLANNING

**COLORADO NORTHERN ZONE - 83
WELD_WETHINGTON PAD
Wethington 6-7**

**Wethington 6-7
Wethington 6-7 (wp01)**

Anticollision Summary Report

04 May, 2011



APC

Anticollision Summary Report



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well Wethington 6-7
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 6-7	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wethington 6-7	Database:	edm5000p
Reference Design:	Wethington 6-7 (wp01)	Offset TVD Reference:	Offset Datum

Reference	Wethington 6-7 (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		

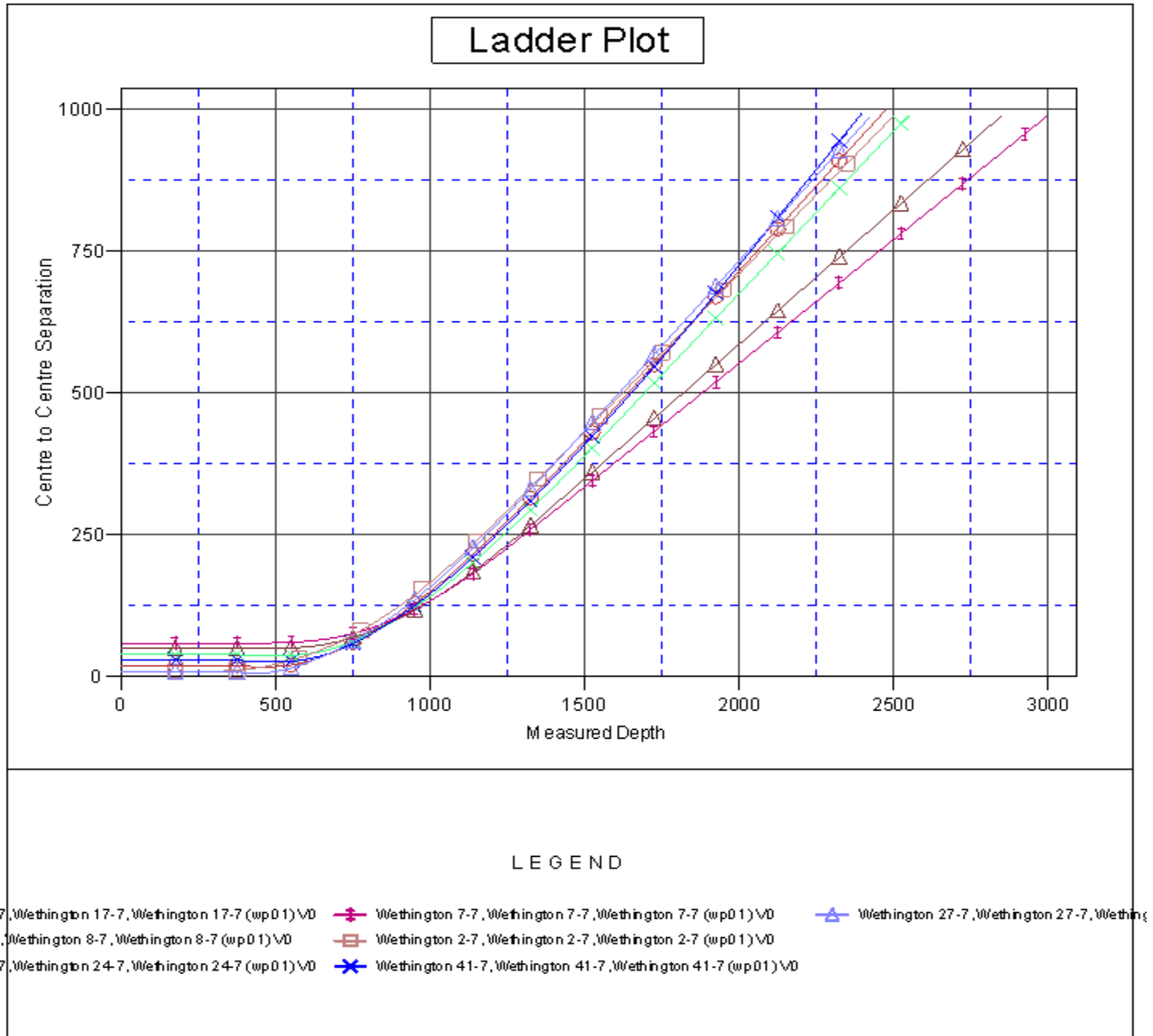
Survey Tool Program	Date 5/4/2011				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.00	8,128.91	Wethington 6-7 (wp01) (Wethington 6-7)	MWD	MWD - Standard	

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
WELD_WETHINGTON PAD						
Wethington 17-7 - Wethington 17-7 - Wethington 17-7 (w	468.38	468.08	17.75	15.95	9.870	CC
Wethington 17-7 - Wethington 17-7 - Wethington 17-7 (w	475.00	474.64	17.76	15.94	9.729	ES
Wethington 17-7 - Wethington 17-7 - Wethington 17-7 (w	525.00	524.04	19.23	17.19	9.412	SF
Wethington 24-7 - Wethington 24-7 - Wethington 24-7 (w	446.45	444.88	49.74	48.06	29.513	CC
Wethington 24-7 - Wethington 24-7 - Wethington 24-7 (w	475.00	473.00	49.81	48.01	27.660	ES
Wethington 24-7 - Wethington 24-7 - Wethington 24-7 (w	675.00	667.75	59.18	56.46	21.780	SF
Wethington 2-7 - Wethington 2-7 - Wethington 2-7 (wp01	300.00	300.00	10.24	9.15	9.392	CC, ES
Wethington 2-7 - Wethington 2-7 - Wethington 2-7 (wp01	350.00	349.81	10.98	9.68	8.420	SF
Wethington 27-7 - Wethington 27-7 - Wethington 27-7 (w	444.34	444.36	6.69	4.98	3.919	CC, ES
Wethington 27-7 - Wethington 27-7 - Wethington 27-7 (w	450.00	449.99	6.71	4.98	3.879	SF
Wethington 41-7 - Wethington 41-7 - Wethington 41-7 (w	502.39	501.81	26.74	24.80	13.774	CC, ES
Wethington 41-7 - Wethington 41-7 - Wethington 41-7 (w	575.00	573.17	29.07	26.80	12.788	SF
Wethington 7-7 - Wethington 7-7 - Wethington 7-7 (wp01	422.43	420.74	59.83	58.25	37.728	CC
Wethington 7-7 - Wethington 7-7 - Wethington 7-7 (wp01	450.00	447.86	59.86	58.17	35.290	ES
Wethington 7-7 - Wethington 7-7 - Wethington 7-7 (wp01	750.00	738.32	76.69	73.58	24.713	SF
Wethington 8-7 - Wethington 8-7 - Wethington 8-7 (wp01	502.90	501.72	37.73	35.80	19.524	CC, ES
Wethington 8-7 - Wethington 8-7 - Wethington 8-7 (wp01	625.00	621.10	42.68	40.18	17.087	SF
Williams Wethington G U #1 - Williams Wethington G U #						Out of range

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well Wethington 6-7
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 6-7	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Wethington 6-7	Database:	edm5000p
Reference Design:	Wethington 6-7 (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 6-7
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 6-7
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	15' RKB + 4902' GL @ 4917.00ft
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Coordinates are relative to: Wethington 6-7
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.44°

