




Company: Carrizo Oil & Gas
 Site: Ptasnik
 Well: 33-11-9-59
 Project: Weld County, Colorado (NAD83)
 Rig Name: Xtreme 19



Planning: 936.442.2510 Fax: 936.442.2515
 Operations: 936.442.2500 Fax: 936.442.2599



Azimuths to Grid North
 True North: -0.97°
 Magnetic North: 7.49°

Magnetic Field
 Strength: 53387.1snT
 Dip Angle: 67.43°
 Date: 6/9/2011
 Model: WMM_2010

US State Plane 1983
 Colorado Northern Zone

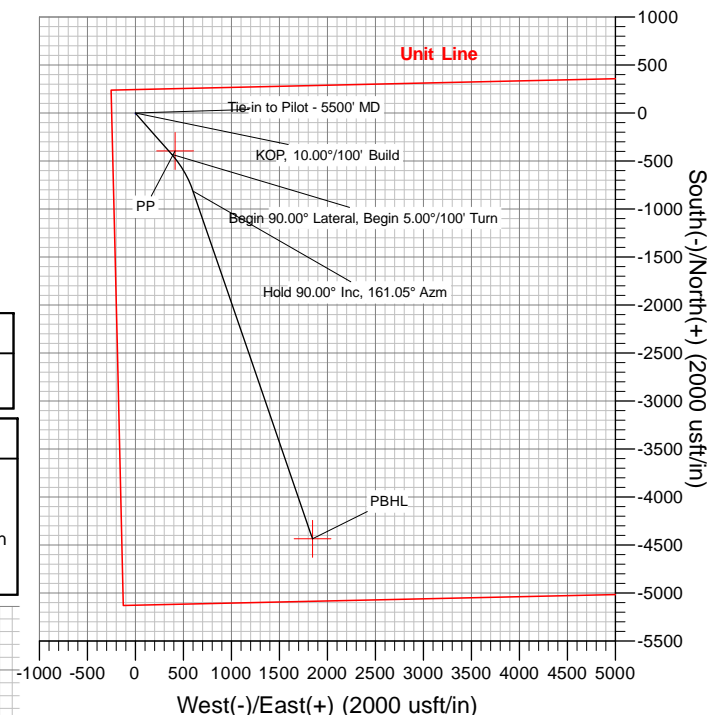
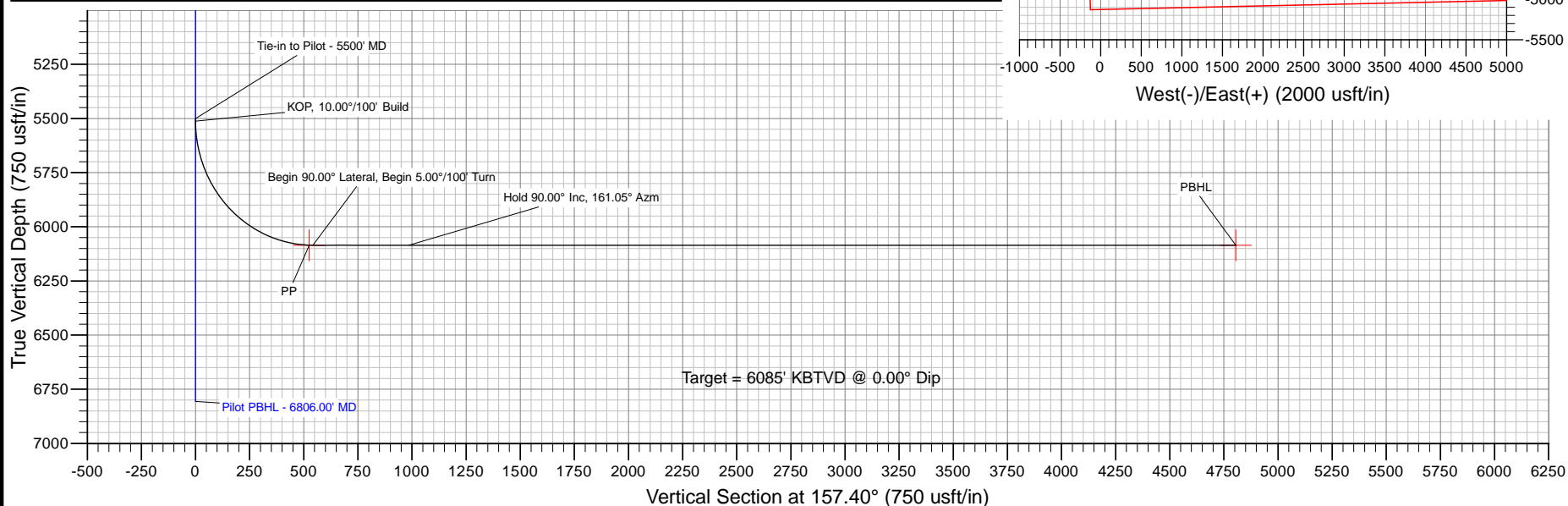
Created By: Vanessa Thom
 Date: 14:12, June 09 2011
 Plan: Design #1

PILOT ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
6806.00	0.00	0.00	6806.00	0.00	0.00	0.00	0.00	Pilot PBHL - 6806.00' MD

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
5500.00	0.00	0.00	5500.00	0.00	0.00	0.00	0.00	Tie-in to Pilot - 5500' MD
5512.04	0.00	0.00	5512.04	0.00	0.00	0.00	0.00	KOP, 10.00°/100' Build
6412.04	90.00	138.59	6085.00	-429.72	378.98	542.36	572.96	Begin 90.00° Lateral, Begin 5.00°/100' Turn
6861.19	90.00	161.05	6085.00	-815.49	603.34	984.74	1022.10	Hold 90.00° Inc, 161.05° Azm
10688.98	90.00	161.05	6085.00	-4435.77	1846.56	4804.77	4849.90	PBHL



The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by MS Energy are at the sole risk and responsibility of the customer. MS Energy is not responsible for the accuracy of this schematic or the information contained herein.



Carrizo Oil & Gas

Weld County, Colorado (NAD83)

Ptasnik

33-11-9-59

Wellbore #1

Plan: Design #1

Standard Planning Report

09 June, 2011

Database:	Southern Region	Local Co-ordinate Reference:	Well 33-11-9-59
Company:	Carrizo Oil & Gas	TVD Reference:	WELL @ 4870.00usft (Xtreme 19)
Project:	Weld County, Colorado (NAD83)	MD Reference:	WELL @ 4870.00usft (Xtreme 19)
Site:	Ptasnik	North Reference:	Grid
Well:	33-11-9-59	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Weld County, Colorado (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Well	33-11-9-59			
Well Position	+N/-S	1,506,283.53 usft	Northing:	1,506,283.53 usft
	+E/-W	3,418,167.08 usft	Easting:	3,418,167.08 usft
Position Uncertainty		0.00 usft	Wellhead Elevation:	Latitude: 40° 42' 48.1521 N
				Longitude: 103° 59' 29.445 W
				Ground Level: 4,855.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	WMM_2010	6/9/2011	8.46	67.43	53,387

Design	Design #1				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	5,500.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	157.40	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,512.04	0.00	0.00	5,512.04	0.00	0.00	0.00	0.00	0.00	0.00	
6,412.04	90.00	138.59	6,085.00	-429.72	378.98	10.00	10.00	0.00	138.59	
6,861.19	90.00	161.05	6,085.00	-815.49	603.34	5.00	0.00	5.00	90.00	
10,688.98	90.00	161.05	6,085.00	-4,435.77	1,846.56	0.00	0.00	0.00	0.00	PBHL - Ptasnik 33-11

Database:	Southern Region	Local Co-ordinate Reference:	Well 33-11-9-59
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Project:	Weld County, Colorado (NAD83)	MD Reference:	WELL @ 4870.00usft (Xtreme 19)
Site:	Plasnik	North Reference:	Grid
Well:	33-11-9-59	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
Tie-in to Pilot - 5500' MD										
5,512.04	0.00	0.00	5,512.04	0.00	0.00	0.00	0.00	0.00	0.00	
KOP, 10.00°/100' Build										
5,550.00	3.80	138.59	5,549.97	-0.94	0.83	1.19	10.00	10.00	0.00	
5,600.00	8.80	138.59	5,599.66	-5.05	4.46	6.38	10.00	10.00	0.00	
5,650.00	13.80	138.59	5,648.67	-12.40	10.93	15.65	10.00	10.00	0.00	
5,700.00	18.80	138.59	5,696.65	-22.92	20.21	28.92	10.00	10.00	0.00	
5,750.00	23.80	138.59	5,743.22	-36.53	32.22	46.11	10.00	10.00	0.00	
5,800.00	28.80	138.59	5,788.03	-53.14	46.86	67.07	10.00	10.00	0.00	
5,850.00	33.80	138.59	5,830.74	-72.61	64.04	91.65	10.00	10.00	0.00	
5,900.00	38.80	138.59	5,871.03	-94.80	83.61	119.66	10.00	10.00	0.00	
5,950.00	43.80	138.59	5,908.58	-119.54	105.43	150.88	10.00	10.00	0.00	
6,000.00	48.80	138.59	5,943.12	-146.64	129.33	185.09	10.00	10.00	0.00	
6,050.00	53.80	138.59	5,974.37	-175.90	155.13	222.01	10.00	10.00	0.00	
6,100.00	58.80	138.59	6,002.11	-207.09	182.63	261.37	10.00	10.00	0.00	
6,150.00	63.80	138.59	6,026.11	-239.97	211.63	302.87	10.00	10.00	0.00	
6,200.00	68.80	138.59	6,046.21	-274.29	241.91	346.20	10.00	10.00	0.00	
6,250.00	73.80	138.59	6,062.24	-309.80	273.22	391.01	10.00	10.00	0.00	
6,300.00	78.80	138.59	6,074.08	-346.22	305.34	436.98	10.00	10.00	0.00	
6,350.00	83.80	138.59	6,081.64	-383.28	338.02	483.75	10.00	10.00	0.00	
6,400.00	88.80	138.59	6,084.87	-420.69	371.02	530.97	10.00	10.00	0.00	
6,412.04	90.00	138.59	6,085.00	-429.72	378.98	542.36	10.00	10.00	0.00	
Begin 90.00° Lateral, Begin 5.00°/100' Turn										
6,500.00	90.00	142.99	6,085.00	-497.85	434.57	626.63	5.00	0.00	5.00	
6,600.00	90.00	147.99	6,085.00	-580.23	491.21	724.45	5.00	0.00	5.00	
6,700.00	90.00	152.99	6,085.00	-667.22	540.46	823.69	5.00	0.00	5.00	
6,800.00	90.00	157.99	6,085.00	-758.18	581.93	923.60	5.00	0.00	5.00	
6,861.19	90.00	161.05	6,085.00	-815.49	603.34	984.74	5.00	0.00	5.00	
Hold 90.00° Inc, 161.05° Azm										
6,900.00	90.00	161.05	6,085.00	-852.20	615.95	1,023.47	0.00	0.00	0.00	
7,000.00	90.00	161.05	6,085.00	-946.78	648.42	1,123.27	0.00	0.00	0.00	
7,100.00	90.00	161.05	6,085.00	-1,041.36	680.90	1,223.07	0.00	0.00	0.00	
7,200.00	90.00	161.05	6,085.00	-1,135.94	713.38	1,322.87	0.00	0.00	0.00	
7,300.00	90.00	161.05	6,085.00	-1,230.52	745.86	1,422.66	0.00	0.00	0.00	
7,400.00	90.00	161.05	6,085.00	-1,325.10	778.34	1,522.46	0.00	0.00	0.00	
7,500.00	90.00	161.05	6,085.00	-1,419.68	810.82	1,622.26	0.00	0.00	0.00	
7,600.00	90.00	161.05	6,085.00	-1,514.26	843.30	1,722.06	0.00	0.00	0.00	
7,700.00	90.00	161.05	6,085.00	-1,608.83	875.78	1,821.85	0.00	0.00	0.00	
7,800.00	90.00	161.05	6,085.00	-1,703.41	908.25	1,921.65	0.00	0.00	0.00	
7,900.00	90.00	161.05	6,085.00	-1,797.99	940.73	2,021.45	0.00	0.00	0.00	
8,000.00	90.00	161.05	6,085.00	-1,892.57	973.21	2,121.24	0.00	0.00	0.00	
8,100.00	90.00	161.05	6,085.00	-1,987.15	1,005.69	2,221.04	0.00	0.00	0.00	
8,200.00	90.00	161.05	6,085.00	-2,081.73	1,038.17	2,320.84	0.00	0.00	0.00	
8,300.00	90.00	161.05	6,085.00	-2,176.31	1,070.65	2,420.64	0.00	0.00	0.00	
8,400.00	90.00	161.05	6,085.00	-2,270.88	1,103.13	2,520.43	0.00	0.00	0.00	
8,500.00	90.00	161.05	6,085.00	-2,365.46	1,135.61	2,620.23	0.00	0.00	0.00	
8,600.00	90.00	161.05	6,085.00	-2,460.04	1,168.09	2,720.03	0.00	0.00	0.00	
8,700.00	90.00	161.05	6,085.00	-2,554.62	1,200.56	2,819.83	0.00	0.00	0.00	
8,800.00	90.00	161.05	6,085.00	-2,649.20	1,233.04	2,919.62	0.00	0.00	0.00	
8,900.00	90.00	161.05	6,085.00	-2,743.78	1,265.52	3,019.42	0.00	0.00	0.00	
9,000.00	90.00	161.05	6,085.00	-2,838.36	1,298.00	3,119.22	0.00	0.00	0.00	
9,100.00	90.00	161.05	6,085.00	-2,932.94	1,330.48	3,219.02	0.00	0.00	0.00	
9,200.00	90.00	161.05	6,085.00	-3,027.51	1,362.96	3,318.81	0.00	0.00	0.00	

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Project:	Weld County, Colorado (NAD83)	MD Reference:	WELL @ 4870.00usft (Xtreme 19)
Site:	Ptasnik	North Reference:	Grid
Well:	33-11-9-59	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,300.00	90.00	161.05	6,085.00	-3,122.09	1,395.44	3,418.61	0.00	0.00	0.00	
9,400.00	90.00	161.05	6,085.00	-3,216.67	1,427.92	3,518.41	0.00	0.00	0.00	
9,500.00	90.00	161.05	6,085.00	-3,311.25	1,460.39	3,618.20	0.00	0.00	0.00	
9,600.00	90.00	161.05	6,085.00	-3,405.83	1,492.87	3,718.00	0.00	0.00	0.00	
9,700.00	90.00	161.05	6,085.00	-3,500.41	1,525.35	3,817.80	0.00	0.00	0.00	
9,800.00	90.00	161.05	6,085.00	-3,594.99	1,557.83	3,917.60	0.00	0.00	0.00	
9,900.00	90.00	161.05	6,085.00	-3,689.56	1,590.31	4,017.39	0.00	0.00	0.00	
10,000.00	90.00	161.05	6,085.00	-3,784.14	1,622.79	4,117.19	0.00	0.00	0.00	
10,100.00	90.00	161.05	6,085.00	-3,878.72	1,655.27	4,216.99	0.00	0.00	0.00	
10,200.00	90.00	161.05	6,085.00	-3,973.30	1,687.75	4,316.79	0.00	0.00	0.00	
10,300.00	90.00	161.05	6,085.00	-4,067.88	1,720.22	4,416.58	0.00	0.00	0.00	
10,400.00	90.00	161.05	6,085.00	-4,162.46	1,752.70	4,516.38	0.00	0.00	0.00	
10,500.00	90.00	161.05	6,085.00	-4,257.04	1,785.18	4,616.18	0.00	0.00	0.00	
10,600.00	90.00	161.05	6,085.00	-4,351.62	1,817.66	4,715.97	0.00	0.00	0.00	
10,688.98	90.00	161.05	6,085.00	-4,435.77	1,846.56	4,804.77	0.00	0.00	0.00	
PBHL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
PP - Ptasnik 33-11-9-59	0.00	0.00	6,085.00	-395.75	414.27	1,505,887.78	3,418,581.35	40° 42' 44.1725 N	103° 59' 24.154 W	
- hit/miss target										
- Shape										
- plan misses target center by 48.93usft at 6409.91usft MD (6084.99 TVD, -428.12 N, 377.57 E)										
- Point										
PBHL - Ptasnik 33-11-9-	0.00	0.00	6,085.00	-4,435.77	1,846.56	1,501,847.76	3,420,013.64	40° 42' 4.0165 N	103° 59' 6.453 W	
- plan hits target center										
- Point										

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
5,500.00	5,500.00	0.00	0.00	Tie-in to Pilot - 5500' MD	
5,512.04	5,512.04	0.00	0.00	KOP, 10.00°/100' Build	
6,412.04	6,085.00	-429.72	378.98	Begin 90.00° Lateral, Begin 5.00°/100' Turn	
6,861.19	6,085.00	-815.49	603.34	Hold 90.00° Inc, 161.05° Azm	
10,688.98	6,085.00	-4,435.77	1,846.56	PBHL	