

# **US ROCKIES REGION PLANNING**

**COLORADO NORTHERN ZONE - 83**

**WELD\_LAMBRECHT 1-2 PAD**

**LAMBRECHT 27-2**

**LAMBRECHT 27-2**

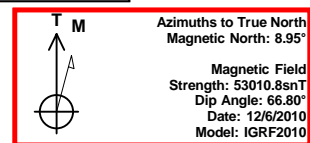
**Plan: LAMBRECHT 27-2 (wp02)**

## **Standard Planning Report**

**10 April, 2012**

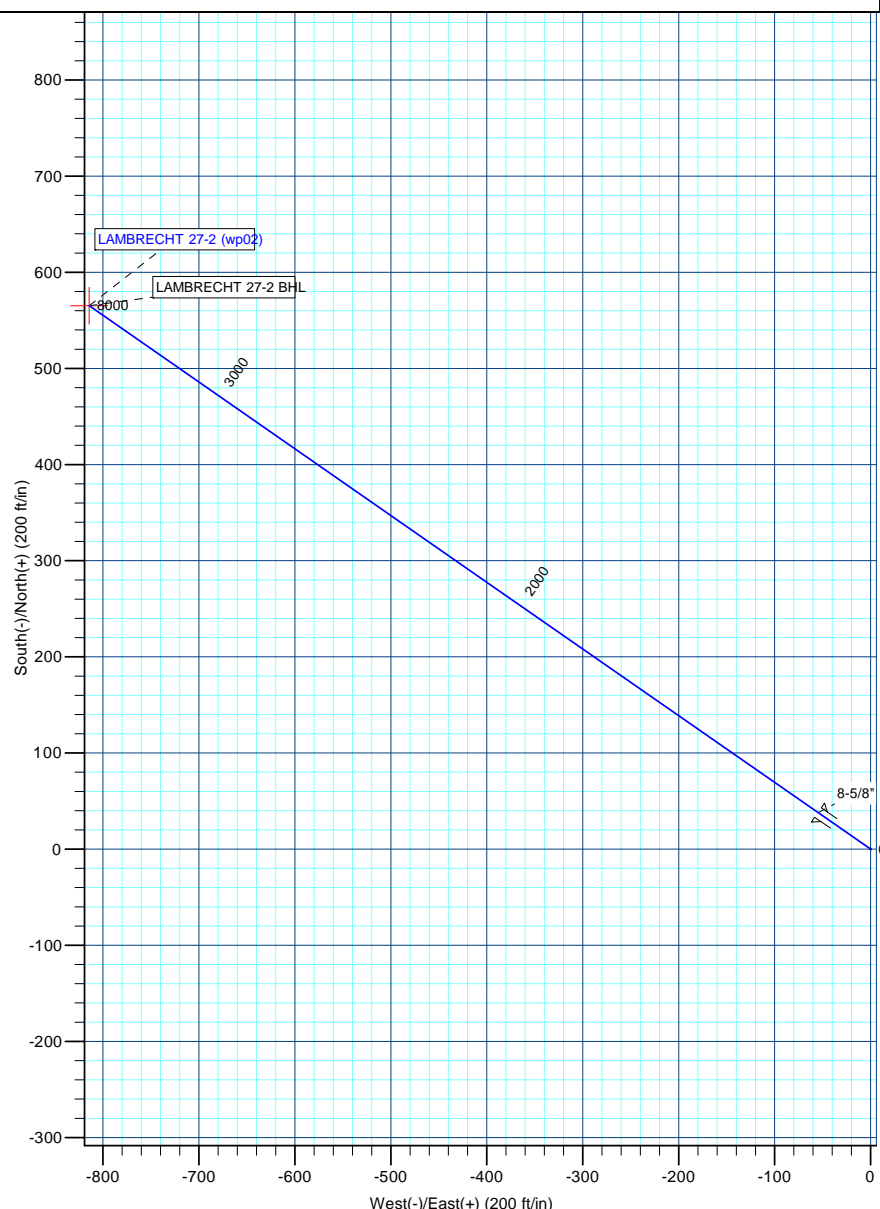
FORMATION TOP DETAILS			
	TVDPPath	MDPath	Formation
	4039.00	4198.01	PK Depth
	4499.00	4658.01	SX Depth
	7219.00	7378.01	NIO Depth
	7529.00	7688.01	CD Depth
	7617.00	7776.01	GH Depth
	7969.00	8128.01	J Depth

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



Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
LAMBRECHT 27-2 BHL	8109.00	565.38	-814.48	1275341.97	3180920.57	40.087394	-104.853375	Point

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
1357.44	21.15	304.77	1333.59	110.03	-158.51	2.00	304.77	192.95
2959.51	21.15	304.77	2827.75	439.63	-633.33	0.00	0.00	770.96
4168.01	0.00	0.00	4009.00	565.38	-814.48	1.75	180.00	991.48
8268.01	0.00	0.00	8109.00	565.38	-814.48	0.00	0.00	991.48



# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well LAMBRECHT 27-2
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	rkb + gl @ 4954.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	rkb + gl @ 4954.00ft
<b>Site:</b>	WELD_LAMBRECHT 1-2 PAD	<b>North Reference:</b>	True
<b>Well:</b>	LAMBRECHT 27-2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	LAMBRECHT 27-2		
<b>Design:</b>	LAMBRECHT 27-2 (wp02)		

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

<b>Site</b>	WELD_LAMBRECHT 1-2 PAD			
<b>Site Position:</b>		<b>Northing:</b>	1,274,749.10 usft	<b>Latitude:</b> 40.085753
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,181,594.19 usft	<b>Longitude:</b> -104.850983
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	0 "	<b>Grid Convergence:</b> 0.42 °

<b>Well</b>	LAMBRECHT 27-2			
<b>Well Position</b>	<b>+N/-S</b>	32.41 ft	<b>Northing:</b>	1,274,782.58 usft
	<b>+E/-W</b>	145.22 ft	<b>Easting:</b>	3,181,739.17 usft
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	
			<b>Ground Level:</b>	4,939.00 ft

<b>Wellbore</b>	LAMBRECHT 27-2				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	12/6/2010	8.95	66.80	53,011

<b>Design</b>	LAMBRECHT 27-2 (wp02)			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	304.77

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	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	
1,357.44	21.15	304.77	1,333.59	110.03	-158.51	2.00	2.00	0.00	304.77	
2,959.51	21.15	304.77	2,827.75	439.63	-633.33	0.00	0.00	0.00	0.00	
4,168.01	0.00	0.00	4,009.00	565.38	-814.48	1.75	-1.75	0.00	180.00	
8,268.01	0.00	0.00	8,109.00	565.38	-814.48	0.00	0.00	0.00	0.00	LAMBRECHT 27-2 BI

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## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well LAMBRECHT 27-2
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	rkb + gl @ 4954.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	rkb + gl @ 4954.00ft
<b>Site:</b>	WELD_LAMBRECHT 1-2 PAD	<b>North Reference:</b>	True
<b>Well:</b>	LAMBRECHT 27-2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	LAMBRECHT 27-2		
<b>Design:</b>	LAMBRECHT 27-2 (wp02)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
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	304.77	399.98	1.00	-1.43	1.75	2.00	2.00	0.00
500.00	4.00	304.77	499.84	3.98	-5.73	6.98	2.00	2.00	0.00
600.00	6.00	304.77	599.45	8.95	-12.89	15.69	2.00	2.00	0.00
700.00	8.00	304.77	698.70	15.90	-22.90	27.88	2.00	2.00	0.00
800.00	10.00	304.77	797.47	24.82	-35.75	43.52	2.00	2.00	0.00
900.00	12.00	304.77	895.62	35.70	-51.43	62.60	2.00	2.00	0.00
919.82	12.40	304.77	915.00	38.09	-54.87	66.79	2.00	2.00	0.00
8-5/8"									
1,000.00	14.00	304.77	993.06	48.52	-69.91	85.10	2.00	2.00	0.00
1,100.00	16.00	304.77	1,089.64	63.28	-91.17	110.98	2.00	2.00	0.00
1,200.00	18.00	304.77	1,185.27	79.95	-115.18	140.21	2.00	2.00	0.00
1,300.00	20.00	304.77	1,279.82	98.52	-141.93	172.77	2.00	2.00	0.00
1,357.44	21.15	304.77	1,333.59	110.03	-158.51	192.95	2.00	2.00	0.00
1,400.00	21.15	304.77	1,373.28	118.78	-171.12	208.31	0.00	0.00	0.00
1,500.00	21.15	304.77	1,466.55	139.36	-200.76	244.39	0.00	0.00	0.00
1,600.00	21.15	304.77	1,559.81	159.93	-230.40	280.47	0.00	0.00	0.00
1,700.00	21.15	304.77	1,653.08	180.51	-260.04	316.55	0.00	0.00	0.00
1,800.00	21.15	304.77	1,746.34	201.08	-289.67	352.62	0.00	0.00	0.00
1,900.00	21.15	304.77	1,839.61	221.65	-319.31	388.70	0.00	0.00	0.00
2,000.00	21.15	304.77	1,932.87	242.23	-348.95	424.78	0.00	0.00	0.00
2,100.00	21.15	304.77	2,026.14	262.80	-378.59	460.86	0.00	0.00	0.00
2,200.00	21.15	304.77	2,119.40	283.37	-408.23	496.94	0.00	0.00	0.00
2,300.00	21.15	304.77	2,212.67	303.95	-437.87	533.02	0.00	0.00	0.00
2,400.00	21.15	304.77	2,305.93	324.52	-467.50	569.10	0.00	0.00	0.00
2,500.00	21.15	304.77	2,399.20	345.09	-497.14	605.18	0.00	0.00	0.00
2,600.00	21.15	304.77	2,492.46	365.67	-526.78	641.26	0.00	0.00	0.00
2,700.00	21.15	304.77	2,585.73	386.24	-556.42	677.34	0.00	0.00	0.00
2,800.00	21.15	304.77	2,678.99	406.81	-586.06	713.42	0.00	0.00	0.00
2,900.00	21.15	304.77	2,772.25	427.39	-615.70	749.49	0.00	0.00	0.00
2,959.51	21.15	304.77	2,827.75	439.63	-633.33	770.96	0.00	0.00	0.00
3,000.00	20.44	304.77	2,865.61	447.83	-645.14	785.34	1.75	-1.75	0.00
3,100.00	18.69	304.77	2,959.83	466.92	-672.65	818.83	1.75	-1.75	0.00
3,200.00	16.94	304.77	3,055.03	484.37	-697.78	849.42	1.75	-1.75	0.00
3,300.00	15.19	304.77	3,151.12	500.15	-720.51	877.09	1.75	-1.75	0.00
3,400.00	13.44	304.77	3,248.01	514.25	-740.83	901.82	1.75	-1.75	0.00
3,500.00	11.69	304.77	3,345.62	526.65	-758.70	923.57	1.75	-1.75	0.00
3,600.00	9.94	304.77	3,443.84	537.35	-774.11	942.33	1.75	-1.75	0.00
3,700.00	8.19	304.77	3,542.58	546.34	-787.05	958.09	1.75	-1.75	0.00
3,800.00	6.44	304.77	3,641.77	553.60	-797.51	970.82	1.75	-1.75	0.00
3,900.00	4.69	304.77	3,741.29	559.13	-805.48	980.52	1.75	-1.75	0.00
4,000.00	2.94	304.77	3,841.06	562.92	-810.94	987.17	1.75	-1.75	0.00
4,100.00	1.19	304.77	3,941.00	564.97	-813.90	990.77	1.75	-1.75	0.00
4,168.01	0.00	0.00	4,009.00	565.38	-814.48	991.48	1.75	-1.75	0.00
4,198.01	0.00	0.00	4,039.00	565.38	-814.48	991.48	0.00	0.00	0.00
PK Depth									
4,200.00	0.00	0.00	4,040.99	565.38	-814.48	991.48	0.00	0.00	0.00
4,300.00	0.00	0.00	4,140.99	565.38	-814.48	991.48	0.00	0.00	0.00
4,400.00	0.00	0.00	4,240.99	565.38	-814.48	991.48	0.00	0.00	0.00
4,500.00	0.00	0.00	4,340.99	565.38	-814.48	991.48	0.00	0.00	0.00
4,600.00	0.00	0.00	4,440.99	565.38	-814.48	991.48	0.00	0.00	0.00

# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well LAMBRECHT 27-2
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	rkb + gl @ 4954.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	rkb + gl @ 4954.00ft
<b>Site:</b>	WELD_LAMBRECHT 1-2 PAD	<b>North Reference:</b>	True
<b>Well:</b>	LAMBRECHT 27-2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	LAMBRECHT 27-2		
<b>Design:</b>	LAMBRECHT 27-2 (wp02)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,658.01	0.00	0.00	4,499.00	565.38	-814.48	991.48	0.00	0.00	0.00
<b>SX Depth</b>									
4,700.00	0.00	0.00	4,540.99	565.38	-814.48	991.48	0.00	0.00	0.00
4,800.00	0.00	0.00	4,640.99	565.38	-814.48	991.48	0.00	0.00	0.00
4,900.00	0.00	0.00	4,740.99	565.38	-814.48	991.48	0.00	0.00	0.00
5,000.00	0.00	0.00	4,840.99	565.38	-814.48	991.48	0.00	0.00	0.00
5,100.00	0.00	0.00	4,940.99	565.38	-814.48	991.48	0.00	0.00	0.00
5,200.00	0.00	0.00	5,040.99	565.38	-814.48	991.48	0.00	0.00	0.00
5,300.00	0.00	0.00	5,140.99	565.38	-814.48	991.48	0.00	0.00	0.00
5,400.00	0.00	0.00	5,240.99	565.38	-814.48	991.48	0.00	0.00	0.00
5,500.00	0.00	0.00	5,340.99	565.38	-814.48	991.48	0.00	0.00	0.00
5,600.00	0.00	0.00	5,440.99	565.38	-814.48	991.48	0.00	0.00	0.00
5,700.00	0.00	0.00	5,540.99	565.38	-814.48	991.48	0.00	0.00	0.00
5,800.00	0.00	0.00	5,640.99	565.38	-814.48	991.48	0.00	0.00	0.00
5,900.00	0.00	0.00	5,740.99	565.38	-814.48	991.48	0.00	0.00	0.00
6,000.00	0.00	0.00	5,840.99	565.38	-814.48	991.48	0.00	0.00	0.00
6,100.00	0.00	0.00	5,940.99	565.38	-814.48	991.48	0.00	0.00	0.00
6,200.00	0.00	0.00	6,040.99	565.38	-814.48	991.48	0.00	0.00	0.00
6,300.00	0.00	0.00	6,140.99	565.38	-814.48	991.48	0.00	0.00	0.00
6,400.00	0.00	0.00	6,240.99	565.38	-814.48	991.48	0.00	0.00	0.00
6,500.00	0.00	0.00	6,340.99	565.38	-814.48	991.48	0.00	0.00	0.00
6,600.00	0.00	0.00	6,440.99	565.38	-814.48	991.48	0.00	0.00	0.00
6,700.00	0.00	0.00	6,540.99	565.38	-814.48	991.48	0.00	0.00	0.00
6,800.00	0.00	0.00	6,640.99	565.38	-814.48	991.48	0.00	0.00	0.00
6,900.00	0.00	0.00	6,740.99	565.38	-814.48	991.48	0.00	0.00	0.00
7,000.00	0.00	0.00	6,840.99	565.38	-814.48	991.48	0.00	0.00	0.00
7,100.00	0.00	0.00	6,940.99	565.38	-814.48	991.48	0.00	0.00	0.00
7,200.00	0.00	0.00	7,040.99	565.38	-814.48	991.48	0.00	0.00	0.00
7,300.00	0.00	0.00	7,140.99	565.38	-814.48	991.48	0.00	0.00	0.00
7,378.01	0.00	0.00	7,219.00	565.38	-814.48	991.48	0.00	0.00	0.00
<b>NIO Depth</b>									
7,400.00	0.00	0.00	7,240.99	565.38	-814.48	991.48	0.00	0.00	0.00
7,500.00	0.00	0.00	7,340.99	565.38	-814.48	991.48	0.00	0.00	0.00
7,600.00	0.00	0.00	7,440.99	565.38	-814.48	991.48	0.00	0.00	0.00
7,688.01	0.00	0.00	7,529.00	565.38	-814.48	991.48	0.00	0.00	0.00
<b>CD Depth</b>									
7,700.00	0.00	0.00	7,540.99	565.38	-814.48	991.48	0.00	0.00	0.00
7,776.01	0.00	0.00	7,617.00	565.38	-814.48	991.48	0.00	0.00	0.00
<b>GH Depth</b>									
7,800.00	0.00	0.00	7,640.99	565.38	-814.48	991.48	0.00	0.00	0.00
7,900.00	0.00	0.00	7,740.99	565.38	-814.48	991.48	0.00	0.00	0.00
8,000.00	0.00	0.00	7,840.99	565.38	-814.48	991.48	0.00	0.00	0.00
8,100.00	0.00	0.00	7,940.99	565.38	-814.48	991.48	0.00	0.00	0.00
8,128.01	0.00	0.00	7,969.00	565.38	-814.48	991.48	0.00	0.00	0.00
<b>J Depth</b>									
8,200.00	0.00	0.00	8,040.99	565.38	-814.48	991.48	0.00	0.00	0.00
8,268.01	0.00	0.00	8,109.00	565.38	-814.48	991.48	0.00	0.00	0.00
<b>LAMBRECHT 27-2 BHL</b>									

# Anadarko Petroleum Corp

## Planning Report

<b>Database:</b>	edmp	<b>Local Co-ordinate Reference:</b>	Well LAMBRECHT 27-2
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	rkb + gl @ 4954.00ft
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	rkb + gl @ 4954.00ft
<b>Site:</b>	WELD_LAMBRECHT 1-2 PAD	<b>North Reference:</b>	True
<b>Well:</b>	LAMBRECHT 27-2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	LAMBRECHT 27-2		
<b>Design:</b>	LAMBRECHT 27-2 (wp02)		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
- Shape									
LAMBRECHT 27-2 BHL	0.00	0.00	8,109.00	565.38	-814.48	1,275,341.97	3,180,920.57	40.087394	-104.853375
- plan hits target center									
- Point									

Casing Points					
Measured Depth	Vertical Depth	Name		Casing Diameter	Hole Diameter
(ft)	(ft)			(")	(")
919.82	915.00	8-5/8"		8-5/8	11

Formations						
Measured Depth	Vertical Depth	Name		Lithology	Dip	Dip Direction
(ft)	(ft)				(°)	(°)
4,198.01	4,039.00	PK Depth				
4,658.01	4,499.00	SX Depth				
7,378.01	7,219.00	NIO Depth				
7,688.01	7,529.00	CD Depth				
7,776.01	7,617.00	GH Depth				
8,128.01	7,969.00	J Depth				