

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_WARDELL 5 PAD

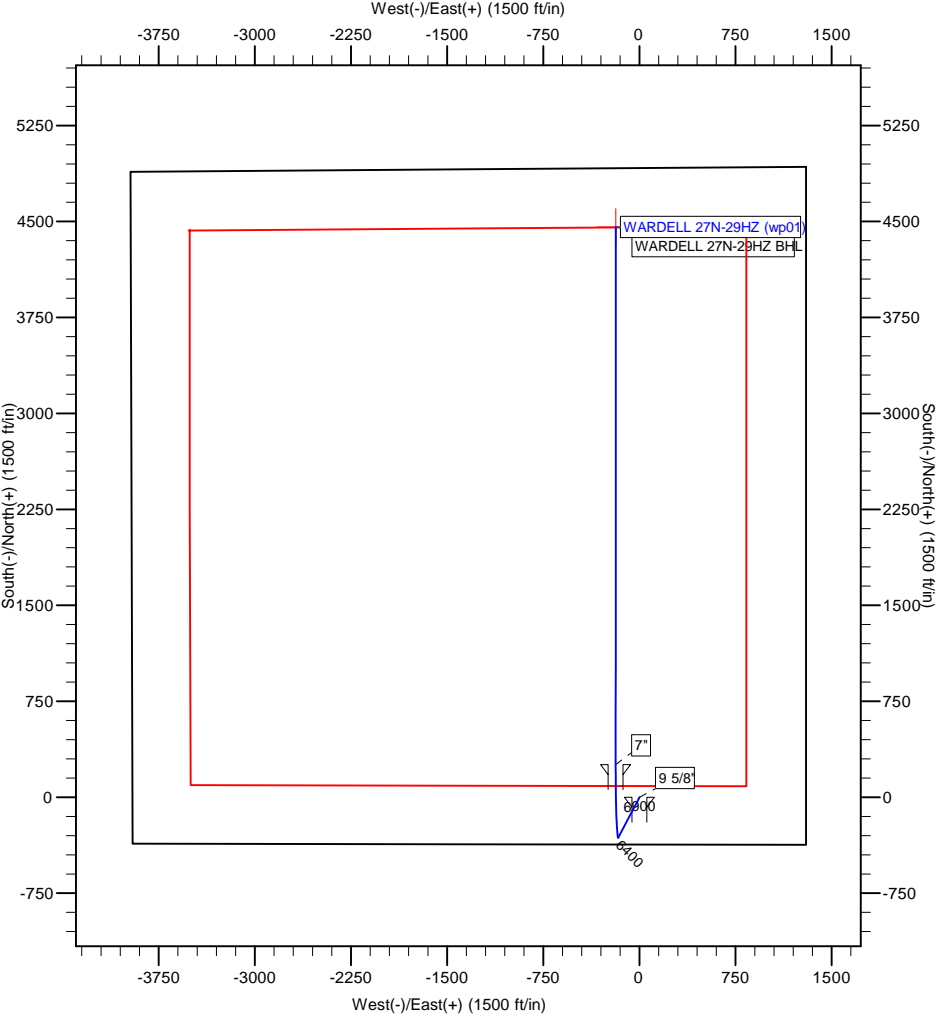
WARDELL 27N-29HZ

WARDELL 27N-29HZ

Plan: WARDELL 27N-29HZ (wp01)

Standard Planning Report

30 November, 2011



Azimuths to True North
Magnetic North: 8.74°

Magnetic Field
Strength: 52981.1nT
Dip Angle: 66.88°
Date: 11/30/2011
Model: IGRF2010

Project: COLORADO NORTHERN ZONE - 83
Site: WELD WARDELL 5 PAD
Well: WARDELL 27N-29HZ
Wellbore: WARDELL 27N-29HZ
Section:
SHL:
Design: WARDELL 27N-29HZ (wp01)
Latitude: 40.190185
Longitude: -104.682564
GL: 4870.00
KB: GL + RKB @ 4887.00ft

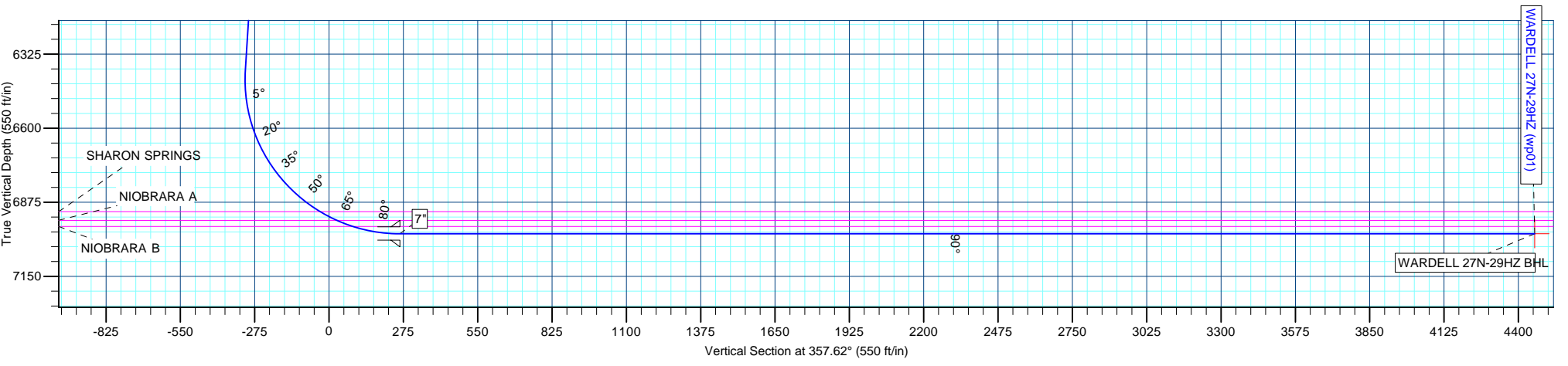
WELL DETAILS: WARDELL 27N-29HZ						
+N/-S	+E/-W	Northing	Ground Level: Easting	4870.00 Latitude	Longitude	Slot
0.00	0.00	1313179.58	3228365.75	40.190185	-104.682564	

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
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00
1609.49	4.19	207.56	1609.30	-6.79	-3.54	2.00	207.56	-6.63
6395.26	4.19	207.56	6382.28	-316.76	-165.33	0.00	0.00	-309.62
7332.40	90.00	0.00	6992.00	255.00	-186.00	10.00	152.37	262.50
7333.50	90.00	0.01	6992.00	256.10	-186.00	1.00	90.00	263.60
11534.07	90.00	0.01	6992.00	4456.67	-185.19	0.00	0.00	4460.52

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)							
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape	Point
WARDELL 27N-29HZ BHL	6992.00	4456.67	-185.19	40.202419	-104.683227		

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
3999.00	4005.59	PARKMAN
4582.00	4590.15	SUSSEX
6910.00	7021.99	SHARON SPRINGS
6942.00	7091.18	NIOBRARA A
6965.00	7155.75	NIOBRARA B

CASING DETAILS			
TVD	MD	Name	Size
900.00	900.00	9 5/8"	9-5/8
6992.00	7332.40	7"	7



Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well WARDELL 27N-29HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + RKB @ 4887.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + RKB @ 4887.00ft
Site:	WELD_WARDELL 5 PAD	North Reference:	True
Well:	WARDELL 27N-29HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	WARDELL 27N-29HZ		
Design:	WARDELL 27N-29HZ (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_WARDELL 5 PAD			
Site Position:		Northing:	1,313,179.46 usft	Latitude: 40.190185
From:	Lat/Long	Easting:	3,228,349.55 usft	Longitude: -104.682622
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence: 0.53 °

Well	WARDELL 27N-29HZ			
Well Position	+N/-S	-0.02 ft	Northing:	1,313,179.58 usft
	+E/-W	16.20 ft	Easting:	3,228,365.75 usft
Position Uncertainty		0.00 ft	Wellhead Elevation:	Latitude: 40.190185
				Longitude: -104.682564
				Ground Level: 4,870.00 ft

Wellbore	WARDELL 27N-29HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/30/2011	8.74	66.88	52,981

Design	WARDELL 27N-29HZ (wp01)			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	357.62

Plan Sections										
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	
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,609.49	4.19	207.56	1,609.30	-6.79	-3.54	2.00	2.00	0.00	207.56	
6,395.26	4.19	207.56	6,382.28	-316.76	-165.33	0.00	0.00	0.00	0.00	
7,332.40	90.00	0.00	6,992.00	255.00	-186.00	10.00	9.16	16.27	152.37	
7,333.50	90.00	0.01	6,992.00	256.10	-186.00	1.00	0.00	1.00	90.00	
11,534.07	90.00	0.01	6,992.00	4,456.67	-185.19	0.00	0.00	0.00	0.00	WARDELL 27N-29HZ

Anadarko Petroleum Corp

Planning Report

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + RKB @ 4887.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + RKB @ 4887.00ft
Site:	WELD_WARDELL 5 PAD	North Reference:	True
Well:	WARDELL 27N-29HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	WARDELL 27N-29HZ		
Design:	WARDELL 27N-29HZ (wp01)		

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	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	2.00	207.56	1,499.98	-1.55	-0.81	-1.51	2.00	2.00	0.00
1,600.00	4.00	207.56	1,599.84	-6.19	-3.23	-6.05	2.00	2.00	0.00
1,609.49	4.19	207.56	1,609.30	-6.79	-3.54	-6.63	2.00	2.00	0.00
1,700.00	4.19	207.56	1,699.57	-12.65	-6.60	-12.36	0.00	0.00	0.00
1,800.00	4.19	207.56	1,799.30	-19.13	-9.98	-18.70	0.00	0.00	0.00
1,900.00	4.19	207.56	1,899.04	-25.60	-13.36	-25.03	0.00	0.00	0.00
2,000.00	4.19	207.56	1,998.77	-32.08	-16.74	-31.36	0.00	0.00	0.00
2,100.00	4.19	207.56	2,098.50	-38.56	-20.13	-37.69	0.00	0.00	0.00
2,200.00	4.19	207.56	2,198.24	-45.03	-23.51	-44.02	0.00	0.00	0.00
2,300.00	4.19	207.56	2,297.97	-51.51	-26.89	-50.35	0.00	0.00	0.00
2,400.00	4.19	207.56	2,397.70	-57.99	-30.27	-56.68	0.00	0.00	0.00
2,500.00	4.19	207.56	2,497.43	-64.46	-33.65	-63.01	0.00	0.00	0.00
2,600.00	4.19	207.56	2,597.17	-70.94	-37.03	-69.34	0.00	0.00	0.00
2,700.00	4.19	207.56	2,696.90	-77.42	-40.41	-75.67	0.00	0.00	0.00
2,800.00	4.19	207.56	2,796.63	-83.90	-43.79	-82.00	0.00	0.00	0.00
2,900.00	4.19	207.56	2,896.36	-90.37	-47.17	-88.34	0.00	0.00	0.00
3,000.00	4.19	207.56	2,996.10	-96.85	-50.55	-94.67	0.00	0.00	0.00
3,100.00	4.19	207.56	3,095.83	-103.33	-53.93	-101.00	0.00	0.00	0.00
3,200.00	4.19	207.56	3,195.56	-109.80	-57.31	-107.33	0.00	0.00	0.00
3,300.00	4.19	207.56	3,295.30	-116.28	-60.69	-113.66	0.00	0.00	0.00
3,400.00	4.19	207.56	3,395.03	-122.76	-64.07	-119.99	0.00	0.00	0.00
3,500.00	4.19	207.56	3,494.76	-129.23	-67.45	-126.32	0.00	0.00	0.00
3,600.00	4.19	207.56	3,594.49	-135.71	-70.83	-132.65	0.00	0.00	0.00
3,700.00	4.19	207.56	3,694.23	-142.19	-74.22	-138.98	0.00	0.00	0.00
3,800.00	4.19	207.56	3,793.96	-148.66	-77.60	-145.31	0.00	0.00	0.00
3,900.00	4.19	207.56	3,893.69	-155.14	-80.98	-151.65	0.00	0.00	0.00
4,000.00	4.19	207.56	3,993.42	-161.62	-84.36	-157.98	0.00	0.00	0.00
4,005.59	4.19	207.56	3,999.00	-161.98	-84.55	-158.33	0.00	0.00	0.00
PARKMAN									
4,100.00	4.19	207.56	4,093.16	-168.09	-87.74	-164.31	0.00	0.00	0.00
4,200.00	4.19	207.56	4,192.89	-174.57	-91.12	-170.64	0.00	0.00	0.00
4,300.00	4.19	207.56	4,292.62	-181.05	-94.50	-176.97	0.00	0.00	0.00
4,400.00	4.19	207.56	4,392.36	-187.53	-97.88	-183.30	0.00	0.00	0.00
4,500.00	4.19	207.56	4,492.09	-194.00	-101.26	-189.63	0.00	0.00	0.00
4,590.15	4.19	207.56	4,582.00	-199.84	-104.31	-195.34	0.00	0.00	0.00
SUSSEX									
4,600.00	4.19	207.56	4,591.82	-200.48	-104.64	-195.96	0.00	0.00	0.00

Anadarko Petroleum Corp

Planning Report

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + RKB @ 4887.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + RKB @ 4887.00ft
Site:	WELD_WARDELL 5 PAD	North Reference:	True
Well:	WARDELL 27N-29HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	WARDELL 27N-29HZ		
Design:	WARDELL 27N-29HZ (wp01)		

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)
4,700.00	4.19	207.56	4,691.55	-206.96	-108.02	-202.29	0.00	0.00	0.00
4,800.00	4.19	207.56	4,791.29	-213.43	-111.40	-208.62	0.00	0.00	0.00
4,900.00	4.19	207.56	4,891.02	-219.91	-114.78	-214.95	0.00	0.00	0.00
5,000.00	4.19	207.56	4,990.75	-226.39	-118.16	-221.29	0.00	0.00	0.00
5,100.00	4.19	207.56	5,090.49	-232.86	-121.54	-227.62	0.00	0.00	0.00
5,200.00	4.19	207.56	5,190.22	-239.34	-124.92	-233.95	0.00	0.00	0.00
5,300.00	4.19	207.56	5,289.95	-245.82	-128.31	-240.28	0.00	0.00	0.00
5,400.00	4.19	207.56	5,389.68	-252.29	-131.69	-246.61	0.00	0.00	0.00
5,500.00	4.19	207.56	5,489.42	-258.77	-135.07	-252.94	0.00	0.00	0.00
5,600.00	4.19	207.56	5,589.15	-265.25	-138.45	-259.27	0.00	0.00	0.00
5,700.00	4.19	207.56	5,688.88	-271.72	-141.83	-265.60	0.00	0.00	0.00
5,800.00	4.19	207.56	5,788.61	-278.20	-145.21	-271.93	0.00	0.00	0.00
5,900.00	4.19	207.56	5,888.35	-284.68	-148.59	-278.26	0.00	0.00	0.00
6,000.00	4.19	207.56	5,988.08	-291.16	-151.97	-284.59	0.00	0.00	0.00
6,100.00	4.19	207.56	6,087.81	-297.63	-155.35	-290.93	0.00	0.00	0.00
6,200.00	4.19	207.56	6,187.55	-304.11	-158.73	-297.26	0.00	0.00	0.00
6,300.00	4.19	207.56	6,287.28	-310.59	-162.11	-303.59	0.00	0.00	0.00
6,395.26	4.19	207.56	6,382.28	-316.76	-165.33	-309.62	0.00	0.00	0.00
6,400.00	3.78	210.90	6,387.01	-317.04	-165.49	-309.90	10.00	-8.73	70.45
6,500.00	7.03	344.05	6,486.78	-313.97	-168.87	-306.69	10.00	3.26	133.15
6,600.00	16.87	353.58	6,584.50	-293.62	-172.19	-286.22	10.00	9.84	9.53
6,700.00	26.83	356.16	6,677.20	-256.59	-175.33	-249.09	10.00	9.96	2.57
6,800.00	36.80	357.40	6,762.07	-204.02	-178.21	-196.45	10.00	9.98	1.25
6,900.00	46.79	358.18	6,836.53	-137.51	-180.73	-129.88	10.00	9.99	0.77
7,000.00	56.78	358.73	6,898.31	-59.06	-182.82	-51.42	10.00	9.99	0.55
7,021.99	58.98	358.83	6,910.00	-40.44	-183.22	-32.80	10.00	9.99	0.47
SHARON SPRINGS									
7,091.18	65.89	359.13	6,942.00	20.85	-184.31	28.48	10.00	9.99	0.43
NIOBRARA A									
7,100.00	66.77	359.17	6,945.54	28.92	-184.43	36.56	10.00	9.99	0.40
7,155.75	72.35	359.38	6,965.00	81.14	-185.08	88.75	10.00	9.99	0.39
NIOBRARA B									
7,200.00	76.77	359.54	6,976.78	123.78	-185.48	131.37	10.00	9.99	0.36
7,300.00	86.76	359.89	6,991.09	222.62	-185.97	230.15	10.00	9.99	0.35
7,332.40	90.00	0.00	6,992.00	255.00	-186.00	262.51	10.00	9.99	0.34
7"									
7,333.50	90.00	0.01	6,992.00	256.10	-186.00	263.60	1.00	0.00	1.00
7,400.00	90.00	0.01	6,992.00	322.60	-185.99	330.05	0.00	0.00	0.00
7,500.00	90.00	0.01	6,992.00	422.60	-185.97	429.96	0.00	0.00	0.00
7,600.00	90.00	0.01	6,992.00	522.60	-185.95	529.87	0.00	0.00	0.00
7,700.00	90.00	0.01	6,992.00	622.60	-185.93	629.79	0.00	0.00	0.00
7,800.00	90.00	0.01	6,992.00	722.60	-185.91	729.70	0.00	0.00	0.00
7,900.00	90.00	0.01	6,992.00	822.60	-185.89	829.61	0.00	0.00	0.00
8,000.00	90.00	0.01	6,992.00	922.60	-185.87	929.53	0.00	0.00	0.00
8,100.00	90.00	0.01	6,992.00	1,022.60	-185.85	1,029.44	0.00	0.00	0.00
8,200.00	90.00	0.01	6,992.00	1,122.60	-185.83	1,129.35	0.00	0.00	0.00
8,300.00	90.00	0.01	6,992.00	1,222.60	-185.81	1,229.26	0.00	0.00	0.00
8,400.00	90.00	0.01	6,992.00	1,322.60	-185.79	1,329.18	0.00	0.00	0.00
8,500.00	90.00	0.01	6,992.00	1,422.60	-185.78	1,429.09	0.00	0.00	0.00
8,600.00	90.00	0.01	6,992.00	1,522.60	-185.76	1,529.00	0.00	0.00	0.00
8,700.00	90.00	0.01	6,992.00	1,622.60	-185.74	1,628.92	0.00	0.00	0.00
8,800.00	90.00	0.01	6,992.00	1,722.60	-185.72	1,728.83	0.00	0.00	0.00
8,900.00	90.00	0.01	6,992.00	1,822.60	-185.70	1,828.74	0.00	0.00	0.00
9,000.00	90.00	0.01	6,992.00	1,922.60	-185.68	1,928.66	0.00	0.00	0.00

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + RKB @ 4887.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + RKB @ 4887.00ft
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Well:	WARDELL 27N-29HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	WARDELL 27N-29HZ		
Design:	WARDELL 27N-29HZ (wp01)		

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)
9,100.00	90.00	0.01	6,992.00	2,022.60	-185.66	2,028.57	0.00	0.00	0.00
9,200.00	90.00	0.01	6,992.00	2,122.60	-185.64	2,128.48	0.00	0.00	0.00
9,300.00	90.00	0.01	6,992.00	2,222.60	-185.62	2,228.39	0.00	0.00	0.00
9,400.00	90.00	0.01	6,992.00	2,322.60	-185.60	2,328.31	0.00	0.00	0.00
9,500.00	90.00	0.01	6,992.00	2,422.60	-185.58	2,428.22	0.00	0.00	0.00
9,600.00	90.00	0.01	6,992.00	2,522.60	-185.56	2,528.13	0.00	0.00	0.00
9,700.00	90.00	0.01	6,992.00	2,622.60	-185.54	2,628.05	0.00	0.00	0.00
9,800.00	90.00	0.01	6,992.00	2,722.60	-185.52	2,727.96	0.00	0.00	0.00
9,900.00	90.00	0.01	6,992.00	2,822.60	-185.51	2,827.87	0.00	0.00	0.00
10,000.00	90.00	0.01	6,992.00	2,922.60	-185.49	2,927.79	0.00	0.00	0.00
10,100.00	90.00	0.01	6,992.00	3,022.60	-185.47	3,027.70	0.00	0.00	0.00
10,200.00	90.00	0.01	6,992.00	3,122.60	-185.45	3,127.61	0.00	0.00	0.00
10,300.00	90.00	0.01	6,992.00	3,222.60	-185.43	3,227.52	0.00	0.00	0.00
10,400.00	90.00	0.01	6,992.00	3,322.60	-185.41	3,327.44	0.00	0.00	0.00
10,500.00	90.00	0.01	6,992.00	3,422.60	-185.39	3,427.35	0.00	0.00	0.00
10,600.00	90.00	0.01	6,992.00	3,522.60	-185.37	3,527.26	0.00	0.00	0.00
10,700.00	90.00	0.01	6,992.00	3,622.60	-185.35	3,627.18	0.00	0.00	0.00
10,800.00	90.00	0.01	6,992.00	3,722.60	-185.33	3,727.09	0.00	0.00	0.00
10,900.00	90.00	0.01	6,992.00	3,822.60	-185.31	3,827.00	0.00	0.00	0.00
11,000.00	90.00	0.01	6,992.00	3,922.60	-185.29	3,926.92	0.00	0.00	0.00
11,100.00	90.00	0.01	6,992.00	4,022.60	-185.27	4,026.83	0.00	0.00	0.00
11,200.00	90.00	0.01	6,992.00	4,122.60	-185.26	4,126.74	0.00	0.00	0.00
11,300.00	90.00	0.01	6,992.00	4,222.60	-185.24	4,226.65	0.00	0.00	0.00
11,400.00	90.00	0.01	6,992.00	4,322.60	-185.22	4,326.57	0.00	0.00	0.00
11,500.00	90.00	0.01	6,992.00	4,422.60	-185.20	4,426.48	0.00	0.00	0.00
11,534.07	90.00	0.01	6,992.00	4,456.67	-185.19	4,460.52	0.00	0.00	0.00
WARDELL 27N-29HZ BHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
WARDELL 27N-29HZ B	0.00	0.00	6,992.00	4,456.67	-185.19	1,317,634.35	3,228,139.48	40.202419	-104.683227
- hit/miss target									
- Shape									
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
900.00	900.00	9 5/8"	9-5/8	12-1/4	
7,332.40	6,992.00	7"	7	8-3/4	

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well WARDELL 27N-29HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL + RKB @ 4887.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	GL + RKB @ 4887.00ft
Site:	WELD_ WARDELL 5 PAD	North Reference:	True
Well:	WARDELL 27N-29HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	WARDELL 27N-29HZ		
Design:	WARDELL 27N-29HZ (wp01)		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,005.59	3,999.00	PARKMAN		0.00		
4,590.15	4,582.00	SUSSEX		0.00		
7,021.99	6,910.00	SHARON SPRINGS		0.00		
7,091.18	6,942.00	NIOBRARA A		0.00		
7,155.75	6,965.00	NIOBRARA B		0.00		