

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_WEICHEL 36-14HZ PAD

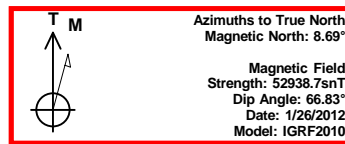
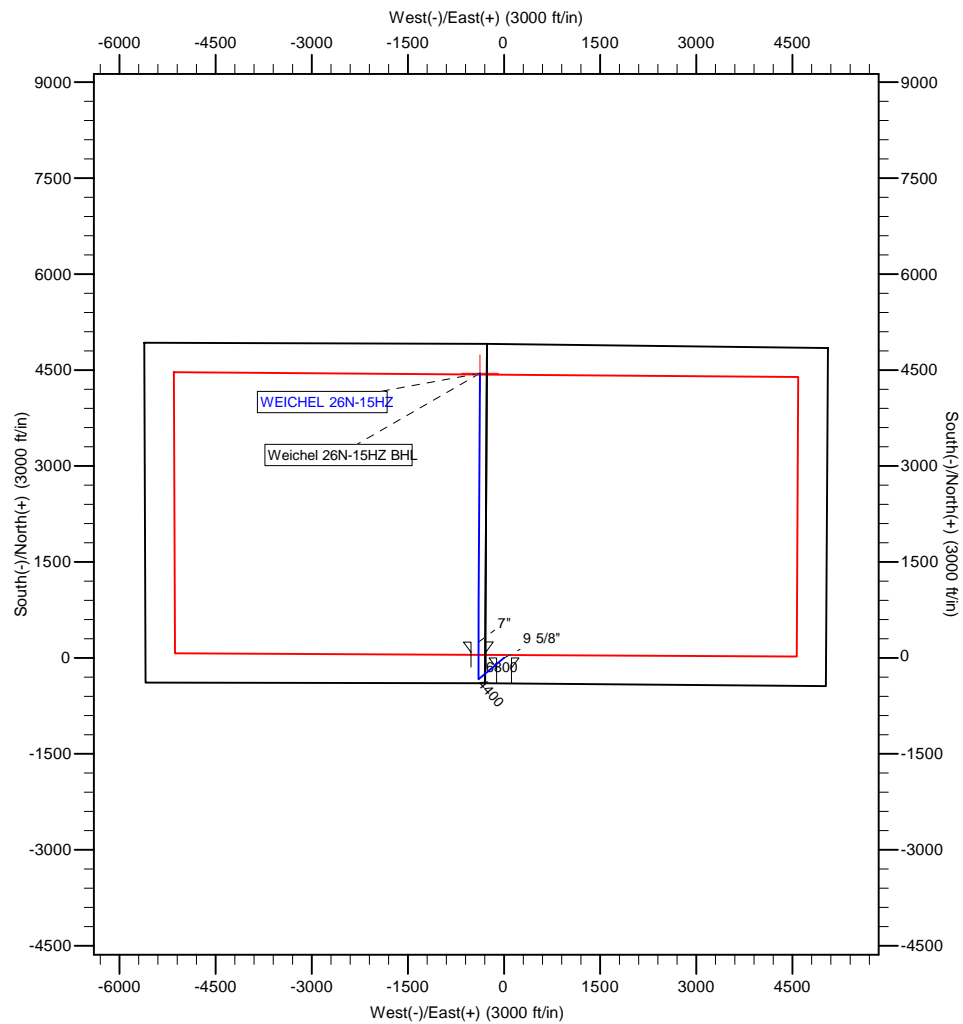
WEICHEL 26N-15HZ

WEICHEL 26N-15HZ

Plan: WEICHEL 26N-15HZ

Standard Planning Report

26 January, 2012



Project: COLORADO NORTHERN ZONE - 83
 Site: WELD WEICHEL 36-14HZ PAD
 Well: WEICHEL 26N-15HZ
 Wellbore: WEICHEL 26N-15HZ
 Section:
 SHL:
 Design: WEICHEL 26N-15HZ
 Latitude: 40.132463
 Longitude: -104.639575
 GL: 4892.00
 KB: RKB + GL @ 4909.00ft

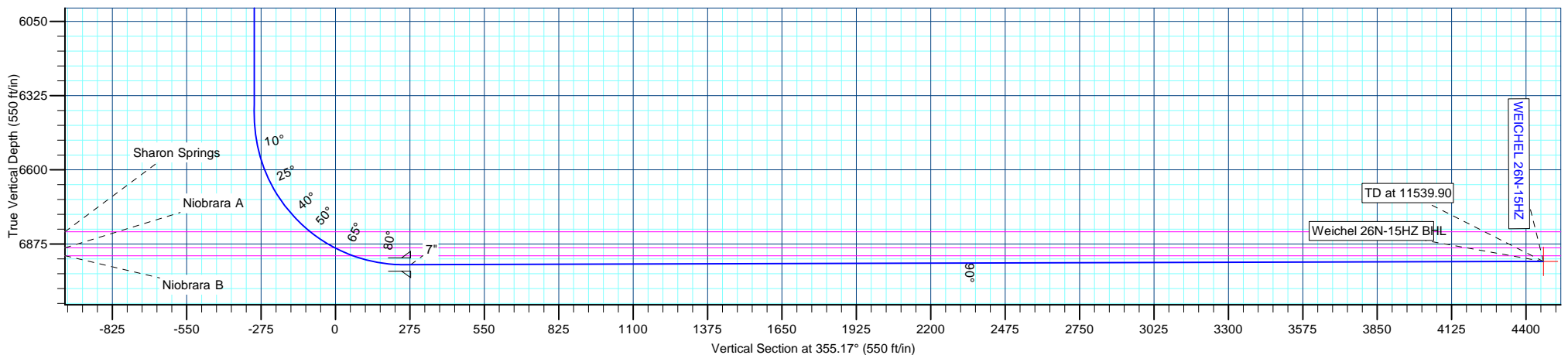
WELL DETAILS: WEICHEL 26N-15HZ						
+N/-S	+E/-W	Northing	Ground Level: Easting	4892.00 Latitude	Longitude	Slot
0.00	0.00	1292267.18	3240579.17	40.132463	-104.639575	

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
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00
1800.00	10.00	230.00	1797.47	-27.98	-33.34	2.00	230.00	-25.07
4300.00	10.00	230.00	4259.49	-307.02	-365.90	0.00	0.00	-275.09
4800.00	0.00	230.00	4756.95	-335.00	-399.24	2.00	180.00	-300.16
6439.80	0.00	230.00	6396.75	-335.00	-399.24	0.00	230.00	-300.16
7312.16	90.17	359.92	6951.07	220.95	-399.97	10.34	359.92	253.88
7336.21	90.17	359.92	6951.00	245.00	-400.00	0.00	0.00	277.84
7376.27	90.16	0.33	6950.88	285.06	-399.91	1.00	90.72	317.75
1539.90	90.16	0.33	6939.00	4448.61	-376.29	0.00	0.00	4464.49

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Weichel 26N-15HZ BHL	6939.00	4448.61	-376.29	40.144675	-104.640921	Point

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4920.00	4963.05	SUSSEX
6829.00	6935.54	Sharon Springs
6889.00	7045.69	Niobrara A
6918.00	7118.08	Niobrara B

CASING DETAILS			
TVD	MD	Name	Size
900.00	900.00	9 5/8"	9-5/8
6951.00	7336.21	7"	7



Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well WEICHEL 26N-15HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	RKB + GL @ 4909.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	RKB + GL @ 4909.00ft
Site:	WELD_WEICHEL 36-14HZ PAD	North Reference:	True
Well:	WEICHEL 26N-15HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	WEICHEL 26N-15HZ		
Design:	WEICHEL 26N-15HZ		

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_WEICHEL 36-14HZ PAD			
Site Position:		Northing:	1,292,084.09 usft	Latitude: 40.131907
From:	Lat/Long	Easting:	3,242,575.23 usft	Longitude: -104.632443
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence: 0.56 °

Well	WEICHEL 26N-15HZ			
Well Position	+N/-S	202.61 ft	Northing:	1,292,267.18 usft
	+E/-W	-1,994.18 ft	Easting:	3,240,579.17 usft
Position Uncertainty		0.00 ft	Wellhead Elevation:	Ground Level: 4,892.00 ft

Wellbore	WEICHEL 26N-15HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/26/2012	8.69	66.83	52,939

Design	WEICHEL 26N-15HZ			
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	355.17

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	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,800.00	10.00	230.00	1,797.47	-27.98	-33.34	2.00	2.00	0.00	230.00	
4,300.00	10.00	230.00	4,259.49	-307.02	-365.90	0.00	0.00	0.00	0.00	
4,800.00	0.00	230.00	4,756.95	-335.00	-399.24	2.00	-2.00	0.00	180.00	
6,439.80	0.00	230.00	6,396.75	-335.00	-399.24	0.00	0.00	0.00	230.00	
7,312.16	90.17	359.92	6,951.07	220.95	-399.97	10.34	10.34	14.89	359.92	
7,336.21	90.17	359.92	6,951.00	245.00	-400.00	0.00	0.00	0.00	0.00	
7,376.27	90.16	0.33	6,950.88	285.06	-399.91	1.00	-0.01	1.00	90.72	
11,539.90	90.16	0.33	6,939.00	4,448.61	-376.29	0.00	0.00	0.00	0.00	Weichel 26N-15HZ BI

Anadarko Petroleum Corp

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Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	RKB + GL @ 4909.00ft
Site:	WELD_WEICHEL 36-14HZ PAD	North Reference:	True
Well:	WEICHEL 26N-15HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	WEICHEL 26N-15HZ		
Design:	WEICHEL 26N-15HZ		

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
Start Build 2.00									
1,400.00	2.00	230.00	1,399.98	-1.12	-1.34	-1.01	2.00	2.00	0.00
1,500.00	4.00	230.00	1,499.84	-4.49	-5.35	-4.02	2.00	2.00	0.00
1,600.00	6.00	230.00	1,599.45	-10.09	-12.02	-9.04	2.00	2.00	0.00
1,700.00	8.00	230.00	1,698.70	-17.92	-21.36	-16.06	2.00	2.00	0.00
1,800.00	10.00	230.00	1,797.47	-27.98	-33.34	-25.07	2.00	2.00	0.00
Start 2500.00 hold at 1800.00 MD									
1,900.00	10.00	230.00	1,895.95	-39.14	-46.64	-35.07	0.00	0.00	0.00
2,000.00	10.00	230.00	1,994.43	-50.30	-59.94	-45.07	0.00	0.00	0.00
2,100.00	10.00	230.00	2,092.91	-61.46	-73.25	-55.07	0.00	0.00	0.00
2,200.00	10.00	230.00	2,191.39	-72.62	-86.55	-65.07	0.00	0.00	0.00
2,300.00	10.00	230.00	2,289.87	-83.79	-99.85	-75.07	0.00	0.00	0.00
2,400.00	10.00	230.00	2,388.35	-94.95	-113.15	-85.07	0.00	0.00	0.00
2,500.00	10.00	230.00	2,486.83	-106.11	-126.46	-95.07	0.00	0.00	0.00
2,600.00	10.00	230.00	2,585.31	-117.27	-139.76	-105.07	0.00	0.00	0.00
2,700.00	10.00	230.00	2,683.79	-128.43	-153.06	-115.08	0.00	0.00	0.00
2,800.00	10.00	230.00	2,782.27	-139.59	-166.36	-125.08	0.00	0.00	0.00
2,900.00	10.00	230.00	2,880.75	-150.76	-179.66	-135.08	0.00	0.00	0.00
3,000.00	10.00	230.00	2,979.23	-161.92	-192.97	-145.08	0.00	0.00	0.00
3,100.00	10.00	230.00	3,077.72	-173.08	-206.27	-155.08	0.00	0.00	0.00
3,200.00	10.00	230.00	3,176.20	-184.24	-219.57	-165.08	0.00	0.00	0.00
3,300.00	10.00	230.00	3,274.68	-195.40	-232.87	-175.08	0.00	0.00	0.00
3,400.00	10.00	230.00	3,373.16	-206.57	-246.18	-185.08	0.00	0.00	0.00
3,500.00	10.00	230.00	3,471.64	-217.73	-259.48	-195.08	0.00	0.00	0.00
3,600.00	10.00	230.00	3,570.12	-228.89	-272.78	-205.08	0.00	0.00	0.00
3,700.00	10.00	230.00	3,668.60	-240.05	-286.08	-215.09	0.00	0.00	0.00
3,800.00	10.00	230.00	3,767.08	-251.21	-299.38	-225.09	0.00	0.00	0.00
3,900.00	10.00	230.00	3,865.56	-262.38	-312.69	-235.09	0.00	0.00	0.00
4,000.00	10.00	230.00	3,964.04	-273.54	-325.99	-245.09	0.00	0.00	0.00
4,100.00	10.00	230.00	4,062.52	-284.70	-339.29	-255.09	0.00	0.00	0.00
4,200.00	10.00	230.00	4,161.00	-295.86	-352.59	-265.09	0.00	0.00	0.00
4,300.00	10.00	230.00	4,259.49	-307.02	-365.90	-275.09	0.00	0.00	0.00
Start Drop -2.00									
4,400.00	8.00	230.00	4,358.25	-317.08	-377.88	-284.10	2.00	-2.00	0.00
4,500.00	6.00	230.00	4,457.50	-324.91	-387.21	-291.12	2.00	-2.00	0.00
4,600.00	4.00	230.00	4,557.11	-330.51	-393.89	-296.14	2.00	-2.00	0.00
4,700.00	2.00	230.00	4,656.97	-333.88	-397.90	-299.15	2.00	-2.00	0.00
4,800.00	0.00	230.00	4,756.95	-335.00	-399.24	-300.16	2.00	-2.00	0.00
Start 1639.80 hold at 4800.00 MD									

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well WEICHEL 26N-15HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	RKB + GL @ 4909.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	RKB + GL @ 4909.00ft
Site:	WELD_WEICHEL 36-14HZ PAD	North Reference:	True
Well:	WEICHEL 26N-15HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	WEICHEL 26N-15HZ		
Design:	WEICHEL 26N-15HZ		

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)
4,900.00	0.00	230.00	4,856.95	-335.00	-399.24	-300.16	0.00	0.00	0.00
4,963.05	0.00	230.00	4,920.00	-335.00	-399.24	-300.16	0.00	0.00	0.00
SUSSEX									
5,000.00	0.00	230.00	4,956.95	-335.00	-399.24	-300.16	0.00	0.00	0.00
5,100.00	0.00	230.00	5,056.95	-335.00	-399.24	-300.16	0.00	0.00	0.00
5,200.00	0.00	230.00	5,156.95	-335.00	-399.24	-300.16	0.00	0.00	0.00
5,300.00	0.00	230.00	5,256.95	-335.00	-399.24	-300.16	0.00	0.00	0.00
5,400.00	0.00	230.00	5,356.95	-335.00	-399.24	-300.16	0.00	0.00	0.00
5,500.00	0.00	230.00	5,456.95	-335.00	-399.24	-300.16	0.00	0.00	0.00
5,600.00	0.00	230.00	5,556.95	-335.00	-399.24	-300.16	0.00	0.00	0.00
5,700.00	0.00	230.00	5,656.95	-335.00	-399.24	-300.16	0.00	0.00	0.00
5,800.00	0.00	230.00	5,756.95	-335.00	-399.24	-300.16	0.00	0.00	0.00
5,900.00	0.00	230.00	5,856.95	-335.00	-399.24	-300.16	0.00	0.00	0.00
6,000.00	0.00	230.00	5,956.95	-335.00	-399.24	-300.16	0.00	0.00	0.00
6,100.00	0.00	230.00	6,056.95	-335.00	-399.24	-300.16	0.00	0.00	0.00
6,200.00	0.00	230.00	6,156.95	-335.00	-399.24	-300.16	0.00	0.00	0.00
6,300.00	0.00	230.00	6,256.95	-335.00	-399.24	-300.16	0.00	0.00	0.00
6,400.00	0.00	230.00	6,356.95	-335.00	-399.24	-300.16	0.00	0.00	0.00
6,439.80	0.00	230.00	6,396.75	-335.00	-399.24	-300.16	0.00	0.00	0.00
Start DLS 10.34 TFO 359.92									
6,500.00	6.22	359.92	6,456.83	-331.73	-399.24	-296.90	10.34	10.34	215.83
6,600.00	16.56	359.92	6,554.73	-312.01	-399.27	-277.25	10.34	10.34	0.00
6,700.00	26.89	359.92	6,647.50	-275.04	-399.32	-240.41	10.34	10.34	0.00
6,800.00	37.23	359.92	6,732.13	-222.03	-399.38	-187.58	10.34	10.34	0.00
6,900.00	47.57	359.92	6,805.88	-154.69	-399.47	-120.47	10.34	10.34	0.00
6,935.54	51.24	359.92	6,829.00	-127.71	-399.51	-93.59	10.34	10.34	0.00
Sharon Springs									
7,000.00	57.90	359.92	6,866.35	-75.22	-399.58	-41.27	10.34	10.34	0.00
7,045.69	62.63	359.92	6,889.00	-35.56	-399.63	-1.75	10.34	10.34	0.00
Niobrara A									
7,100.00	68.24	359.92	6,911.57	13.82	-399.70	47.46	10.34	10.34	0.00
7,118.08	70.11	359.92	6,918.00	30.72	-399.72	64.30	10.34	10.34	0.00
Niobrara B									
7,200.00	78.58	359.92	6,940.09	109.53	-399.82	142.83	10.34	10.34	0.00
7,300.00	88.91	359.92	6,950.97	208.79	-399.95	241.76	10.34	10.34	0.00
7,312.16	90.17	359.92	6,951.07	220.95	-399.97	253.88	10.34	10.34	0.00
Start 24.05 hold at 7312.16 MD									
7,321.21	90.17	359.92	6,951.04	230.00	-399.98	262.89	0.00	0.00	0.00
Weichel 26N-15HZ heel									
7,336.21	90.17	359.92	6,951.00	245.00	-400.00	277.85	0.00	0.00	0.00
Start DLS 1.00 TFO 90.72 - 7"									
7,376.27	90.16	0.33	6,950.88	285.06	-399.91	317.75	1.00	-0.01	1.00
Start 4163.63 hold at 7376.27 MD									
7,400.00	90.16	0.33	6,950.82	308.79	-399.78	341.39	0.00	0.00	0.00
7,500.00	90.16	0.33	6,950.53	408.79	-399.21	440.98	0.00	0.00	0.00
7,600.00	90.16	0.33	6,950.25	508.79	-398.64	540.58	0.00	0.00	0.00
7,700.00	90.16	0.33	6,949.96	608.79	-398.08	640.17	0.00	0.00	0.00
7,800.00	90.16	0.33	6,949.67	708.79	-397.51	739.77	0.00	0.00	0.00
7,900.00	90.16	0.33	6,949.39	808.78	-396.94	839.36	0.00	0.00	0.00
8,000.00	90.16	0.33	6,949.10	908.78	-396.37	938.96	0.00	0.00	0.00
8,100.00	90.16	0.33	6,948.82	1,008.78	-395.81	1,038.55	0.00	0.00	0.00
8,200.00	90.16	0.33	6,948.53	1,108.78	-395.24	1,138.14	0.00	0.00	0.00
8,300.00	90.16	0.33	6,948.25	1,208.78	-394.67	1,237.74	0.00	0.00	0.00

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Database:	edmp	Local Co-ordinate Reference:	Well WEICHEL 26N-15HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	RKB + GL @ 4909.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	RKB + GL @ 4909.00ft
Site:	WELD_WEICHEL 36-14HZ PAD	North Reference:	True
Well:	WEICHEL 26N-15HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	WEICHEL 26N-15HZ		
Design:	WEICHEL 26N-15HZ		

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)
8,400.00	90.16	0.33	6,947.96	1,308.77	-394.10	1,337.33	0.00	0.00	0.00
8,500.00	90.16	0.33	6,947.68	1,408.77	-393.54	1,436.93	0.00	0.00	0.00
8,600.00	90.16	0.33	6,947.39	1,508.77	-392.97	1,536.52	0.00	0.00	0.00
8,700.00	90.16	0.33	6,947.11	1,608.77	-392.40	1,636.12	0.00	0.00	0.00
8,800.00	90.16	0.33	6,946.82	1,708.77	-391.83	1,735.71	0.00	0.00	0.00
8,900.00	90.16	0.33	6,946.53	1,808.76	-391.27	1,835.30	0.00	0.00	0.00
9,000.00	90.16	0.33	6,946.25	1,908.76	-390.70	1,934.90	0.00	0.00	0.00
9,100.00	90.16	0.33	6,945.96	2,008.76	-390.13	2,034.49	0.00	0.00	0.00
9,200.00	90.16	0.33	6,945.68	2,108.76	-389.56	2,134.09	0.00	0.00	0.00
9,300.00	90.16	0.33	6,945.39	2,208.75	-389.00	2,233.68	0.00	0.00	0.00
9,400.00	90.16	0.33	6,945.11	2,308.75	-388.43	2,333.28	0.00	0.00	0.00
9,500.00	90.16	0.33	6,944.82	2,408.75	-387.86	2,432.87	0.00	0.00	0.00
9,600.00	90.16	0.33	6,944.54	2,508.75	-387.29	2,532.47	0.00	0.00	0.00
9,700.00	90.16	0.33	6,944.25	2,608.75	-386.73	2,632.06	0.00	0.00	0.00
9,800.00	90.16	0.33	6,943.97	2,708.74	-386.16	2,731.65	0.00	0.00	0.00
9,900.00	90.16	0.33	6,943.68	2,808.74	-385.59	2,831.25	0.00	0.00	0.00
10,000.00	90.16	0.33	6,943.40	2,908.74	-385.03	2,930.84	0.00	0.00	0.00
10,100.00	90.16	0.33	6,943.11	3,008.74	-384.46	3,030.44	0.00	0.00	0.00
10,200.00	90.16	0.33	6,942.82	3,108.74	-383.89	3,130.03	0.00	0.00	0.00
10,300.00	90.16	0.33	6,942.54	3,208.73	-383.32	3,229.63	0.00	0.00	0.00
10,400.00	90.16	0.33	6,942.25	3,308.73	-382.76	3,329.22	0.00	0.00	0.00
10,500.00	90.16	0.33	6,941.97	3,408.73	-382.19	3,428.81	0.00	0.00	0.00
10,600.00	90.16	0.33	6,941.68	3,508.73	-381.62	3,528.41	0.00	0.00	0.00
10,700.00	90.16	0.33	6,941.40	3,608.73	-381.05	3,628.00	0.00	0.00	0.00
10,800.00	90.16	0.33	6,941.11	3,708.72	-380.49	3,727.60	0.00	0.00	0.00
10,900.00	90.16	0.33	6,940.83	3,808.72	-379.92	3,827.19	0.00	0.00	0.00
11,000.00	90.16	0.33	6,940.54	3,908.72	-379.35	3,926.79	0.00	0.00	0.00
11,100.00	90.16	0.33	6,940.26	4,008.72	-378.78	4,026.38	0.00	0.00	0.00
11,200.00	90.16	0.33	6,939.97	4,108.72	-378.22	4,125.97	0.00	0.00	0.00
11,300.00	90.16	0.33	6,939.68	4,208.71	-377.65	4,225.57	0.00	0.00	0.00
11,400.00	90.16	0.33	6,939.40	4,308.71	-377.08	4,325.16	0.00	0.00	0.00
11,500.00	90.16	0.33	6,939.11	4,408.71	-376.51	4,424.76	0.00	0.00	0.00
11,539.90	90.16	0.33	6,939.00	4,448.61	-376.29	4,464.49	0.00	0.00	0.00
TD at 11539.90 - Weichel 26N-15HZ BHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Weichel 26N-15HZ BHL	0.00	0.00	6,939.00	4,448.61	-376.29	1,296,711.92	3,240,159.74	40.144675	-104.640921
- 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	
7,336.21	6,951.00	7"	7	8-3/4	

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well WEICHEL 26N-15HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	RKB + GL @ 4909.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	RKB + GL @ 4909.00ft
Site:	WELD_WEICHEL 36-14HZ PAD	North Reference:	True
Well:	WEICHEL 26N-15HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	WEICHEL 26N-15HZ		
Design:	WEICHEL 26N-15HZ		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,963.05	4,920.00	SUSSEX		0.00	
6,935.54	6,829.00	Sharon Springs		0.00	
7,045.69	6,889.00	Niobrara A		0.00	
7,118.08	6,918.00	Niobrara B		0.00	

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,300.00	1,300.00	0.00	0.00	Start Build 2.00
1,800.00	1,797.47	-27.98	-33.34	Start 2500.00 hold at 1800.00 MD
4,300.00	4,259.49	-307.02	-365.90	Start Drop -2.00
4,800.00	4,756.95	-335.00	-399.24	Start 1639.80 hold at 4800.00 MD
6,439.80	6,396.75	-335.00	-399.24	Start DLS 10.34 TFO 359.92
7,312.16	6,951.07	220.95	-399.97	Start 24.05 hold at 7312.16 MD
7,336.21	6,951.00	245.00	-400.00	Start DLS 1.00 TFO 90.72
7,376.27	6,950.88	285.06	-399.91	Start 4163.63 hold at 7376.27 MD
11,539.90	6,939.00	4,448.61	-376.29	TD at 11539.90