

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_COLFER PAD (Sec 34, Township 2N, Range 65W)

COLFER 35N-34HZ

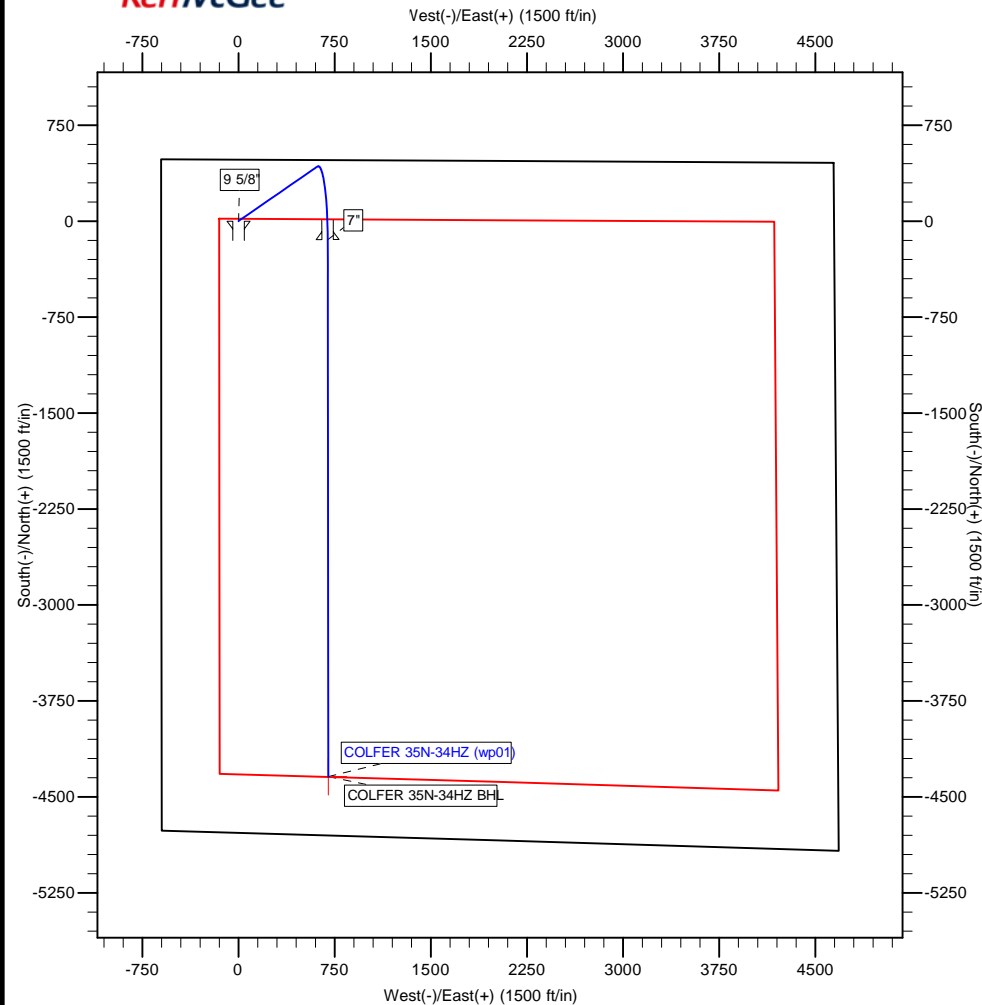
COLFER 35N-34HZ

Plan: COLFER 35N-34HZ (wp01)

Standard Planning Report

06 June, 2011





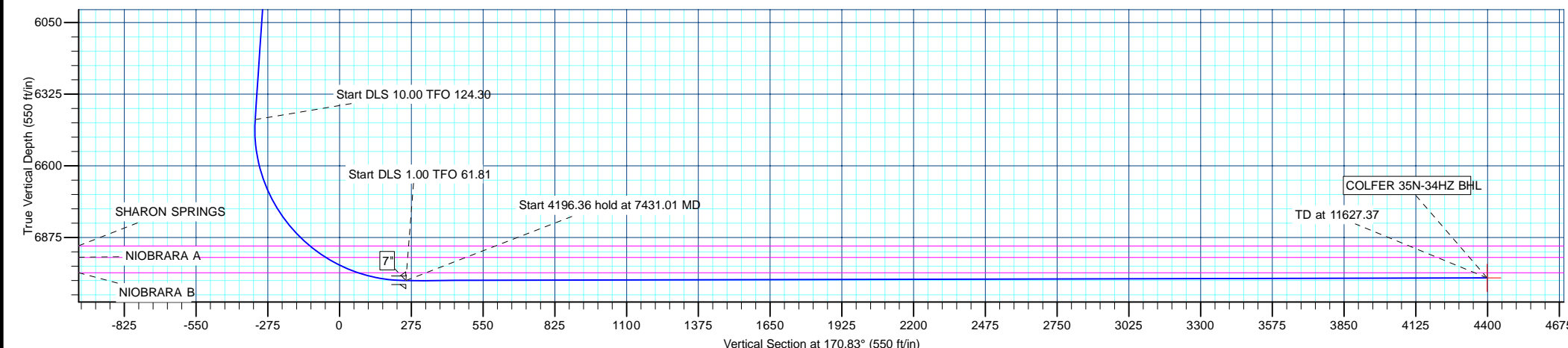
WELL DETAILS: COLFER 35N-34HZ						
+N/-S	+E/-W	Northing	Ground Level: Easting	4943.00 Latitude	40.100997 Longitude	Slot
0.00	0.00	1280758.26	3235789.87	40.100997	-104.657094	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
COLFER 35N-34HZ BHL	7030.00	-4342.18	700.59	40.089077	-104.654590	Point

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1350.00	0.00	0.00	1350.00	0.00	0.00	0.00	0.00	0.00	
1789.33	8.79	55.29	1787.61	19.14	27.64	2.00	55.29	-14.50	
6479.06	8.79	55.29	6422.30	427.01	616.56	0.00	0.00	-323.35	
7430.18	90.13	179.93	7040.00	-145.00	696.00	10.00	124.30	254.01	
7431.01	90.14	179.94	7040.00	-145.84	696.00	1.00	61.81	254.84	
11627.37	90.14	179.94	7030.00	-4342.18	700.59	0.00	0.00	4398.33	COLFER 35N-34HZ BHL

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
1079.00	1079.00	FOX HILLS
2900.00	2914.93	PARKMAN
4396.00	4428.69	SUSSEX
6907.00	7028.80	SHARON SPRINGS
6951.00	7103.86	NIOBRARA A
7010.00	7241.85	NIOBRARA B

CASING DETAILS			
TVD	MD	Name	Size
1200.00	1200.00	9 5/8"	9-5/8
7040.00	7430.18	7"	7



Database:	edm5000p	Local Co-ordinate Reference:	Well COLFER 35N-34HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	17' RKB + 4943' GL @ 4960.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	17' RKB + 4943' GL @ 4960.00ft
Site:	WELD_COLFER PAD (Sec 34, Township 2N, Range 65W)	North Reference:	True
Well:	COLFER 35N-34HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	COLFER 35N-34HZ		
Design:	COLFER 35N-34HZ (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_COLFER PAD (Sec 34, Township 2N, Range 65W)							
Site Position: From:			Lat/Long			Northing:		1,280,758.26 ft		Latitude:		40.100997	
						Easting:		3,235,789.88 ft		Longitude:		-104.657094	
Position Uncertainty:			0.00 ft			Slot Radius:		0 "		Grid Convergence:		0.54	

Well	COLFER 35N-34HZ					
Well Position	+N-S	0.00 ft	Northing:	1,280,758.26 ft	Latitude:	40.100997
	+E-W	0.00 ft	Easting:	3,235,789.88 ft	Longitude:	-104.657094
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,943.00 ft

Wellbore	COLFER 35N-34HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/6/2011	8.78	66.83	52,987

Design	COLFER 35N-34HZ (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	170.83

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	
1,350.00	0.00	0.00	1,350.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,789.33	8.79	55.29	1,787.61	19.14	27.64	2.00	2.00	0.00	55.29	
6,479.06	8.79	55.29	6,422.30	427.01	616.56	0.00	0.00	0.00	0.00	
7,430.18	90.13	179.93	7,040.00	-145.00	696.00	10.00	8.55	13.10	124.30	
7,431.01	90.14	179.94	7,040.00	-145.84	696.00	1.00	0.47	0.88	61.81	
11,627.37	90.14	179.94	7,030.00	-4,342.18	700.59	0.00	0.00	0.00	0.00	COLFER 35N-34HZ

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Site:	WELD_COLFER PAD (Sec 34, Township 2N, Range 65W)	North Reference:	True
Well:	COLFER 35N-34HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	COLFER 35N-34HZ		
Design:	COLFER 35N-34HZ (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	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
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,079.00	0.00	0.00	1,079.00	0.00	0.00	0.00	0.00	0.00	0.00
FOX HILLS									
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
9 5/8"									
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,350.00	0.00	0.00	1,350.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
1,400.00	1.00	55.29	1,400.00	0.25	0.36	-0.19	2.00	2.00	0.00
1,500.00	3.00	55.29	1,499.93	2.24	3.23	-1.69	2.00	2.00	0.00
1,600.00	5.00	55.29	1,599.68	6.21	8.96	-4.70	2.00	2.00	0.00
1,700.00	7.00	55.29	1,699.13	12.16	17.55	-9.21	2.00	2.00	0.00
1,789.33	8.79	55.29	1,787.61	19.14	27.64	-14.50	2.00	2.00	0.00
Start 4689.73 hold at 1789.33 MD									
1,800.00	8.79	55.29	1,798.15	20.07	28.98	-15.20	0.00	0.00	0.00
1,900.00	8.79	55.29	1,896.98	28.77	41.54	-21.78	0.00	0.00	0.00
2,000.00	8.79	55.29	1,995.81	37.46	54.09	-28.37	0.00	0.00	0.00
2,100.00	8.79	55.29	2,094.63	46.16	66.65	-34.96	0.00	0.00	0.00
2,200.00	8.79	55.29	2,193.46	54.86	79.21	-41.54	0.00	0.00	0.00
2,300.00	8.79	55.29	2,292.29	63.56	91.77	-48.13	0.00	0.00	0.00
2,400.00	8.79	55.29	2,391.11	72.25	104.33	-54.71	0.00	0.00	0.00
2,500.00	8.79	55.29	2,489.94	80.95	116.88	-61.30	0.00	0.00	0.00
2,600.00	8.79	55.29	2,588.77	89.65	129.44	-67.88	0.00	0.00	0.00
2,700.00	8.79	55.29	2,687.59	98.34	142.00	-74.47	0.00	0.00	0.00
2,800.00	8.79	55.29	2,786.42	107.04	154.56	-81.06	0.00	0.00	0.00
2,900.00	8.79	55.29	2,885.25	115.74	167.11	-87.64	0.00	0.00	0.00
2,914.93	8.79	55.29	2,900.00	117.04	168.99	-88.63	0.00	0.00	0.00
PARKMAN									
3,000.00	8.79	55.29	2,984.07	124.44	179.67	-94.23	0.00	0.00	0.00
3,100.00	8.79	55.29	3,082.90	133.13	192.23	-100.81	0.00	0.00	0.00
3,200.00	8.79	55.29	3,181.72	141.83	204.79	-107.40	0.00	0.00	0.00
3,300.00	8.79	55.29	3,280.55	150.53	217.34	-113.99	0.00	0.00	0.00
3,400.00	8.79	55.29	3,379.38	159.22	229.90	-120.57	0.00	0.00	0.00
3,500.00	8.79	55.29	3,478.20	167.92	242.46	-127.16	0.00	0.00	0.00
3,600.00	8.79	55.29	3,577.03	176.62	255.02	-133.74	0.00	0.00	0.00
3,700.00	8.79	55.29	3,675.86	185.32	267.58	-140.33	0.00	0.00	0.00
3,800.00	8.79	55.29	3,774.68	194.01	280.13	-146.91	0.00	0.00	0.00
3,900.00	8.79	55.29	3,873.51	202.71	292.69	-153.50	0.00	0.00	0.00
4,000.00	8.79	55.29	3,972.34	211.41	305.25	-160.09	0.00	0.00	0.00
4,100.00	8.79	55.29	4,071.16	220.10	317.81	-166.67	0.00	0.00	0.00
4,200.00	8.79	55.29	4,169.99	228.80	330.36	-173.26	0.00	0.00	0.00
4,300.00	8.79	55.29	4,268.82	237.50	342.92	-179.84	0.00	0.00	0.00

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Wellbore:	COLFER 35N-34HZ		
Design:	COLFER 35N-34HZ (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)
4,400.00	8.79	55.29	4,367.64	246.20	355.48	-186.43	0.00	0.00	0.00
4,428.69	8.79	55.29	4,396.00	248.69	359.08	-188.32	0.00	0.00	0.00
SUSSEX									
4,500.00	8.79	55.29	4,466.47	254.89	368.04	-193.02	0.00	0.00	0.00
4,600.00	8.79	55.29	4,565.30	263.59	380.59	-199.60	0.00	0.00	0.00
4,700.00	8.79	55.29	4,664.12	272.29	393.15	-206.19	0.00	0.00	0.00
4,800.00	8.79	55.29	4,762.95	280.98	405.71	-212.77	0.00	0.00	0.00
4,900.00	8.79	55.29	4,861.77	289.68	418.27	-219.36	0.00	0.00	0.00
5,000.00	8.79	55.29	4,960.60	298.38	430.83	-225.94	0.00	0.00	0.00
5,100.00	8.79	55.29	5,059.43	307.07	443.38	-232.53	0.00	0.00	0.00
5,200.00	8.79	55.29	5,158.25	315.77	455.94	-239.12	0.00	0.00	0.00
5,300.00	8.79	55.29	5,257.08	324.47	468.50	-245.70	0.00	0.00	0.00
5,400.00	8.79	55.29	5,355.91	333.17	481.06	-252.29	0.00	0.00	0.00
5,500.00	8.79	55.29	5,454.73	341.86	493.61	-258.87	0.00	0.00	0.00
5,600.00	8.79	55.29	5,553.56	350.56	506.17	-265.46	0.00	0.00	0.00
5,700.00	8.79	55.29	5,652.39	359.26	518.73	-272.04	0.00	0.00	0.00
5,800.00	8.79	55.29	5,751.21	367.95	531.29	-278.63	0.00	0.00	0.00
5,900.00	8.79	55.29	5,850.04	376.65	543.84	-285.22	0.00	0.00	0.00
6,000.00	8.79	55.29	5,948.87	385.35	556.40	-291.80	0.00	0.00	0.00
6,100.00	8.79	55.29	6,047.69	394.05	568.96	-298.39	0.00	0.00	0.00
6,200.00	8.79	55.29	6,146.52	402.74	581.52	-304.97	0.00	0.00	0.00
6,300.00	8.79	55.29	6,245.34	411.44	594.08	-311.56	0.00	0.00	0.00
6,400.00	8.79	55.29	6,344.17	420.14	606.63	-318.15	0.00	0.00	0.00
6,479.06	8.79	55.29	6,422.30	427.01	616.56	-323.35	0.00	0.00	0.00
Start DLS 10.00 TFO 124.30									
6,500.00	7.80	68.15	6,443.03	428.45	619.19	-324.35	10.00	-4.72	61.38
6,600.00	10.14	134.61	6,542.03	424.78	631.79	-318.73	10.00	2.35	66.46
6,700.00	18.55	157.63	6,638.90	403.84	644.15	-296.08	10.00	8.40	23.03
6,800.00	28.00	166.07	6,730.69	366.26	655.88	-257.11	10.00	9.45	8.44
6,900.00	37.72	170.45	6,814.60	313.18	666.63	-202.99	10.00	9.72	4.38
7,000.00	47.54	173.23	6,888.09	246.21	676.08	-135.38	10.00	9.82	2.78
7,028.80	50.38	173.87	6,907.00	224.63	678.52	-113.69	10.00	9.86	2.22
SHARON SPRINGS									
7,100.00	57.41	175.25	6,948.93	167.40	683.94	-56.32	10.00	9.88	1.94
7,103.86	57.79	175.32	6,951.00	164.15	684.21	-53.07	10.00	9.89	1.77
NIOBRARA A									
7,200.00	67.31	176.86	6,995.27	79.13	689.97	31.78	10.00	9.90	1.61
7,241.85	71.46	177.47	7,010.00	40.02	691.90	70.70	10.00	9.91	1.44
NIOBRARA B									
7,300.00	77.22	178.26	7,025.69	-15.91	693.98	126.25	10.00	9.91	1.36
7,400.00	87.14	179.55	7,039.28	-114.84	695.86	224.21	10.00	9.92	1.29
7,430.18	90.13	179.93	7,040.00	-145.00	696.00	254.01	10.00	9.92	1.26
Start DLS 1.00 TFO 61.81 - 7"									
7,431.01	90.14	179.94	7,040.00	-145.84	696.00	254.84	1.00	0.47	0.88
Start 4196.36 hold at 7431.01 MD									
7,500.00	90.14	179.94	7,039.83	-214.82	696.08	322.95	0.00	0.00	0.00
7,600.00	90.14	179.94	7,039.60	-314.82	696.19	421.70	0.00	0.00	0.00
7,700.00	90.14	179.94	7,039.36	-414.82	696.30	520.44	0.00	0.00	0.00
7,800.00	90.14	179.94	7,039.12	-514.82	696.40	619.18	0.00	0.00	0.00
7,900.00	90.14	179.94	7,038.88	-614.82	696.51	717.92	0.00	0.00	0.00
8,000.00	90.14	179.94	7,038.64	-714.82	696.62	816.66	0.00	0.00	0.00
8,100.00	90.14	179.94	7,038.40	-814.82	696.73	915.40	0.00	0.00	0.00

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Well:	COLFER 35N-34HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	COLFER 35N-34HZ		
Design:	COLFER 35N-34HZ (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)
8,200.00	90.14	179.94	7,038.17	-914.82	696.84	1,014.14	0.00	0.00	0.00
8,300.00	90.14	179.94	7,037.93	-1,014.82	696.95	1,112.88	0.00	0.00	0.00
8,400.00	90.14	179.94	7,037.69	-1,114.82	697.06	1,211.62	0.00	0.00	0.00
8,500.00	90.14	179.94	7,037.45	-1,214.82	697.17	1,310.36	0.00	0.00	0.00
8,600.00	90.14	179.94	7,037.21	-1,314.82	697.28	1,409.10	0.00	0.00	0.00
8,700.00	90.14	179.94	7,036.97	-1,414.82	697.39	1,507.84	0.00	0.00	0.00
8,800.00	90.14	179.94	7,036.74	-1,514.82	697.50	1,606.58	0.00	0.00	0.00
8,900.00	90.14	179.94	7,036.50	-1,614.82	697.61	1,705.32	0.00	0.00	0.00
9,000.00	90.14	179.94	7,036.26	-1,714.82	697.72	1,804.06	0.00	0.00	0.00
9,100.00	90.14	179.94	7,036.02	-1,814.82	697.83	1,902.80	0.00	0.00	0.00
9,200.00	90.14	179.94	7,035.78	-1,914.82	697.93	2,001.54	0.00	0.00	0.00
9,300.00	90.14	179.94	7,035.55	-2,014.82	698.04	2,100.28	0.00	0.00	0.00
9,400.00	90.14	179.94	7,035.31	-2,114.82	698.15	2,199.02	0.00	0.00	0.00
9,500.00	90.14	179.94	7,035.07	-2,214.82	698.26	2,297.76	0.00	0.00	0.00
9,600.00	90.14	179.94	7,034.83	-2,314.82	698.37	2,396.50	0.00	0.00	0.00
9,700.00	90.14	179.94	7,034.59	-2,414.82	698.48	2,495.24	0.00	0.00	0.00
9,800.00	90.14	179.94	7,034.35	-2,514.82	698.59	2,593.98	0.00	0.00	0.00
9,900.00	90.14	179.94	7,034.12	-2,614.81	698.70	2,692.72	0.00	0.00	0.00
10,000.00	90.14	179.94	7,033.88	-2,714.81	698.81	2,791.46	0.00	0.00	0.00
10,100.00	90.14	179.94	7,033.64	-2,814.81	698.92	2,890.20	0.00	0.00	0.00
10,200.00	90.14	179.94	7,033.40	-2,914.81	699.03	2,988.94	0.00	0.00	0.00
10,300.00	90.14	179.94	7,033.16	-3,014.81	699.14	3,087.68	0.00	0.00	0.00
10,400.00	90.14	179.94	7,032.92	-3,114.81	699.25	3,186.42	0.00	0.00	0.00
10,500.00	90.14	179.94	7,032.69	-3,214.81	699.36	3,285.17	0.00	0.00	0.00
10,600.00	90.14	179.94	7,032.45	-3,314.81	699.47	3,383.91	0.00	0.00	0.00
10,700.00	90.14	179.94	7,032.21	-3,414.81	699.57	3,482.65	0.00	0.00	0.00
10,800.00	90.14	179.94	7,031.97	-3,514.81	699.68	3,581.39	0.00	0.00	0.00
10,900.00	90.14	179.94	7,031.73	-3,614.81	699.79	3,680.13	0.00	0.00	0.00
11,000.00	90.14	179.94	7,031.49	-3,714.81	699.90	3,778.87	0.00	0.00	0.00
11,100.00	90.14	179.94	7,031.26	-3,814.81	700.01	3,877.61	0.00	0.00	0.00
11,200.00	90.14	179.94	7,031.02	-3,914.81	700.12	3,976.35	0.00	0.00	0.00
11,300.00	90.14	179.94	7,030.78	-4,014.81	700.23	4,075.09	0.00	0.00	0.00
11,400.00	90.14	179.94	7,030.54	-4,114.81	700.34	4,173.83	0.00	0.00	0.00
11,500.00	90.14	179.94	7,030.30	-4,214.81	700.45	4,272.57	0.00	0.00	0.00
11,600.00	90.14	179.94	7,030.07	-4,314.81	700.56	4,371.31	0.00	0.00	0.00
11,627.37	90.14	179.94	7,030.00	-4,342.18	700.59	4,398.33	0.00	0.00	0.00
TD at 11627.37 - COLFER 35N-34HZ BHL									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
COLFER 35N-34HZ E	0.00	0.00	7,030.00	-4,342.18	700.59	1,276,422.94	3,236,531.71	40.089077	-104.654590
- hit/miss target									
- Shape									
- plan hits target center									
- Point									

Database:	edm5000p	Local Co-ordinate Reference:	Well COLFER 35N-34HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	17' RKB + 4943' GL @ 4960.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	17' RKB + 4943' GL @ 4960.00ft
Site:	WELD_COLFER PAD (Sec 34, Township 2N, Range 65W)	North Reference:	True
Well:	COLFER 35N-34HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	COLFER 35N-34HZ		
Design:	COLFER 35N-34HZ (wp01)		

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
1,200.00	1,200.00	9 5/8"	9-5/8	12-1/4
7,430.18	7,040.00	7"	7	8-3/4

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,079.00	1,079.00	FOX HILLS		0.00	
2,914.93	2,900.00	PARKMAN		0.00	
4,428.69	4,396.00	SUSSEX		0.00	
7,028.80	6,907.00	SHARON SPRINGS		0.00	
7,103.86	6,951.00	NIOBRARA A		0.00	
7,241.85	7,010.00	NIOBRARA B		0.00	

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,350.00	1,350.00	0.00	0.00	Start Build 2.00
1,789.33	1,787.61	19.14	27.64	Start 4689.73 hold at 1789.33 MD
6,479.06	6,422.30	427.01	616.56	Start DLS 10.00 TFO 124.30
7,430.18	7,040.00	-145.00	696.00	Start DLS 1.00 TFO 61.81
7,431.01	7,040.00	-145.84	696.00	Start 4196.36 hold at 7431.01 MD
11,627.37	7,030.00	-4,342.18	700.59	TD at 11627.37