

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_CAMP PAD

CAMP 2N-25HZ

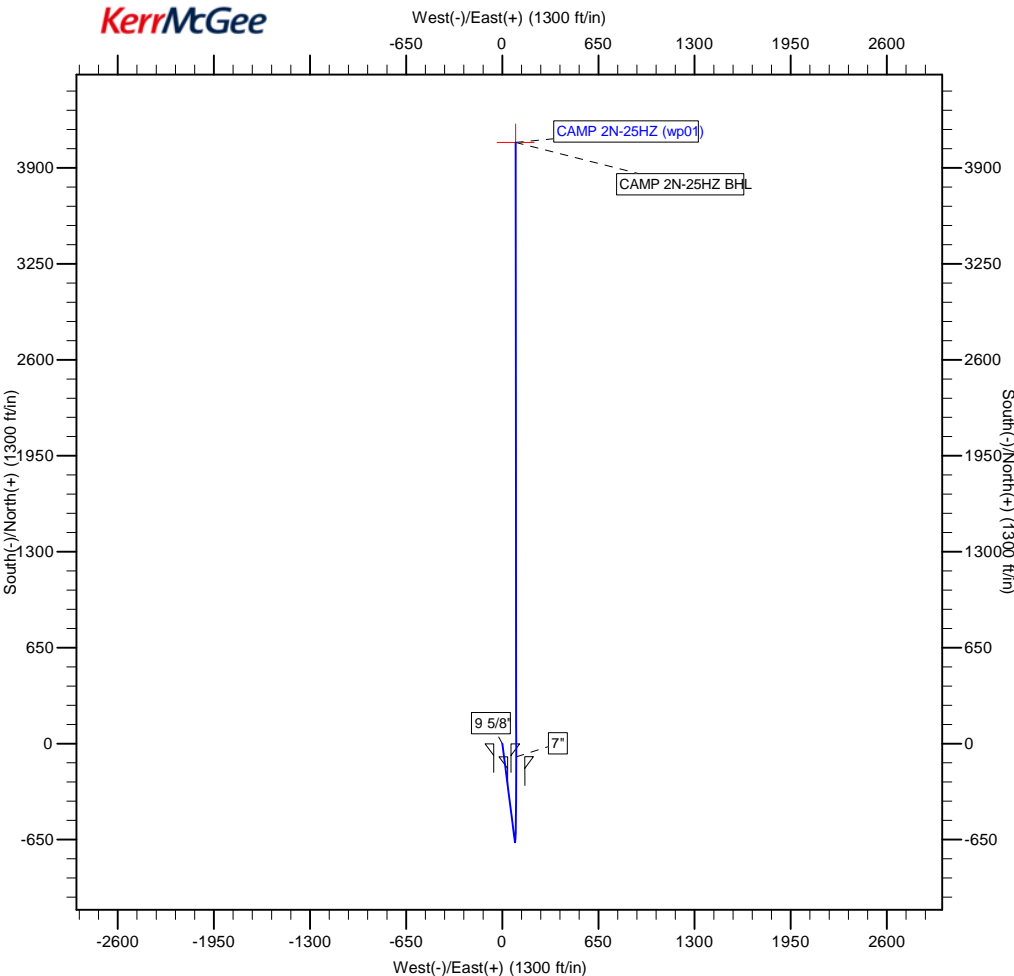
CAMP 2N-25HZ

Plan: CAMP 2N-25HZ (wp01)

Standard Planning Report

16 August, 2011





Azimuths to True North
 Magnetic North: 8.81°
Magnetic Field
 Strength: 53015.3nT
 Dip Angle: 66.89°
 Date: 7/18/2011
 Model: IGRF2010

Project: COLORADO NORTHERN ZONE - 83
Site: WELD_CAMP PAD
Well: CAMP 2N-25HZ
Wellbore: CAMP 2N-25HZ
Section:
SHL:
Design: CAMP 2N-25HZ (wp01)
Latitude: 40.191114
Longitude: -104.722830
GL: 4979.00
KB: 17' rkb + 4979' gl @ 4996.00ft

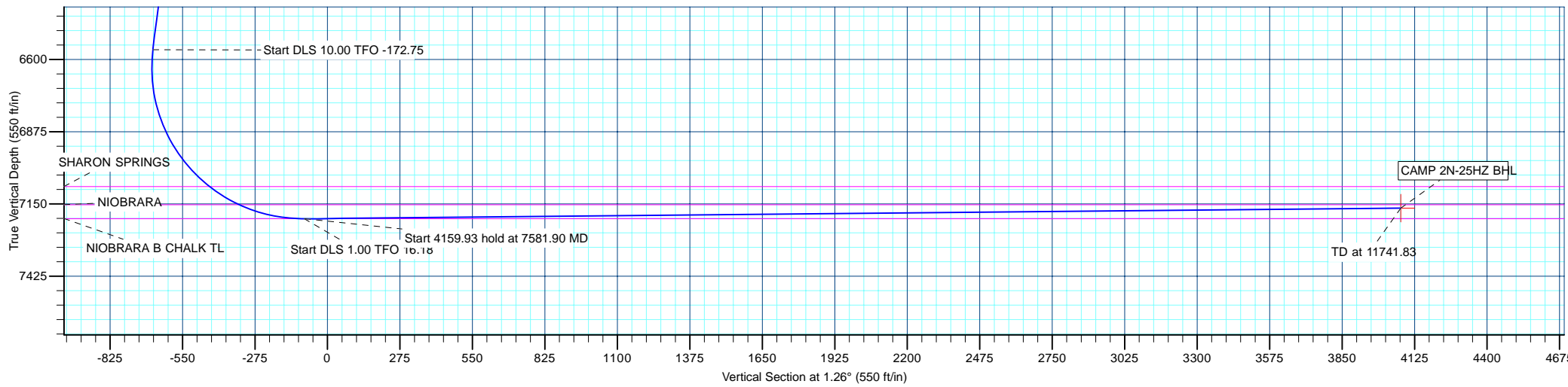
WELL DETAILS: CAMP 2N-25HZ						
+N/-S	+E/-W	Northing	Ground Level: Easting	4979.00 Latitude	40.191114 Longitude	Slot
0.00	0.00	1313416.85	3217114.03		-104.722830	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
CAMP 2N-25HZ BHL	7166.00	4072.06	89.38	40.202292	-104.722510	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	
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	
1354.21	7.08	172.74	1353.31	-21.69	2.76	2.00	172.74	-21.63	
6604.02	7.08	172.74	6563.04	-663.94	84.60	0.00	0.00	-661.93	
7579.58	90.53	359.93	7206.00	-90.00	94.00	10.00	-172.75	-87.91	
7581.90	90.55	359.94	7205.98	-87.68	94.00	1.00	16.18	-85.60	
11741.83	90.55	359.94	7166.00	4072.06	89.38	0.00	0.00	4073.04	CAMP 2N-25HZ BHL

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
3214.00	3229.22	PARKMAN
4439.00	4463.64	SUSSEX
5237.00	5267.78	SHANNON
7084.00	7193.36	SHARON SPRINGS
7153.00	7325.84	NIOBRARA
7206.00	7579.58	NIOBRARA B CHALK TL

CASING DETAILS			
TVD	MD	Name	Size
850.00	850.00	9 5/8"	9-5/8
7206.00	7579.58	7"	7



Database:	edm5000p	Local Co-ordinate Reference:	Well CAMP 2N-25HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	17' rkb + 4979' gl @ 4996.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	17' rkb + 4979' gl @ 4996.00ft
Site:	WELD_CAMP PAD	North Reference:	True
Well:	CAMP 2N-25HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	CAMP 2N-25HZ		
Design:	CAMP 2N-25HZ (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_CAMP PAD			
Site Position:		Northing:	1,313,189.35 ft	Latitude: 40.190458
From:	Lat/Long	Easting:	3,218,417.67 ft	Longitude: -104.718171
Position Uncertainty:	0.00 ft	Slot Radius:	0 "	Grid Convergence: 0.51 °

Well	CAMP 2N-25HZ			
Well Position	+N/-S	238.99 ft	Northing:	1,313,416.85 ft
	+E/-W	-1,301.58 ft	Easting:	3,217,114.03 ft
Position Uncertainty		0.00 ft	Wellhead Elevation:	Ground Level: 4,979.00 ft

Wellbore	CAMP 2N-25HZ				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/18/2011	8.81	66.89	53,015

Design	CAMP 2N-25HZ (wp01)			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	1.26

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	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,354.21	7.08	172.74	1,353.31	-21.69	2.76	2.00	2.00	0.00	172.74	
6,604.02	7.08	172.74	6,563.04	-663.94	84.60	0.00	0.00	0.00	0.00	
7,579.58	90.53	359.93	7,206.00	-90.00	94.00	10.00	8.55	-17.71	-172.75	
7,581.90	90.55	359.94	7,205.98	-87.68	94.00	1.00	0.96	0.28	16.18	
11,741.83	90.55	359.94	7,166.00	4,072.06	89.38	0.00	0.00	0.00	0.00	CAMP 2N-25HZ BHL

Database:	edm5000p	Local Co-ordinate Reference:	Well CAMP 2N-25HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	17' rkb + 4979' gl @ 4996.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	17' rkb + 4979' gl @ 4996.00ft
Site:	WELD_CAMP PAD	North Reference:	True
Well:	CAMP 2N-25HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	CAMP 2N-25HZ		
Design:	CAMP 2N-25HZ (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
850.00	0.00	0.00	850.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
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
Start Build 2.00									
1,100.00	2.00	172.74	1,099.98	-1.73	0.22	-1.73	2.00	2.00	0.00
1,200.00	4.00	172.74	1,199.84	-6.92	0.88	-6.90	2.00	2.00	0.00
1,300.00	6.00	172.74	1,299.45	-15.57	1.98	-15.52	2.00	2.00	0.00
1,354.21	7.08	172.74	1,353.31	-21.69	2.76	-21.63	2.00	2.00	0.00
Start 5249.81 hold at 1354.21 MD									
1,400.00	7.08	172.74	1,398.75	-27.30	3.48	-27.21	0.00	0.00	0.00
1,500.00	7.08	172.74	1,497.99	-39.53	5.04	-39.41	0.00	0.00	0.00
1,600.00	7.08	172.74	1,597.22	-51.76	6.60	-51.61	0.00	0.00	0.00
1,700.00	7.08	172.74	1,696.46	-64.00	8.15	-63.80	0.00	0.00	0.00
1,800.00	7.08	172.74	1,795.70	-76.23	9.71	-76.00	0.00	0.00	0.00
1,900.00	7.08	172.74	1,894.93	-88.47	11.27	-88.20	0.00	0.00	0.00
2,000.00	7.08	172.74	1,994.17	-100.70	12.83	-100.39	0.00	0.00	0.00
2,100.00	7.08	172.74	2,093.40	-112.93	14.39	-112.59	0.00	0.00	0.00
2,200.00	7.08	172.74	2,192.64	-125.17	15.95	-124.79	0.00	0.00	0.00
2,300.00	7.08	172.74	2,291.88	-137.40	17.51	-136.98	0.00	0.00	0.00
2,400.00	7.08	172.74	2,391.11	-149.63	19.07	-149.18	0.00	0.00	0.00
2,500.00	7.08	172.74	2,490.35	-161.87	20.63	-161.38	0.00	0.00	0.00
2,600.00	7.08	172.74	2,589.59	-174.10	22.19	-173.57	0.00	0.00	0.00
2,700.00	7.08	172.74	2,688.82	-186.34	23.74	-185.77	0.00	0.00	0.00
2,800.00	7.08	172.74	2,788.06	-198.57	25.30	-197.97	0.00	0.00	0.00
2,900.00	7.08	172.74	2,887.30	-210.80	26.86	-210.16	0.00	0.00	0.00
3,000.00	7.08	172.74	2,986.53	-223.04	28.42	-222.36	0.00	0.00	0.00
3,100.00	7.08	172.74	3,085.77	-235.27	29.98	-234.56	0.00	0.00	0.00
3,200.00	7.08	172.74	3,185.01	-247.50	31.54	-246.75	0.00	0.00	0.00
3,229.22	7.08	172.74	3,214.00	-251.08	31.99	-250.32	0.00	0.00	0.00
PARKMAN									
3,300.00	7.08	172.74	3,284.24	-259.74	33.10	-258.95	0.00	0.00	0.00
3,400.00	7.08	172.74	3,383.48	-271.97	34.66	-271.15	0.00	0.00	0.00
3,500.00	7.08	172.74	3,482.72	-284.21	36.22	-283.34	0.00	0.00	0.00
3,600.00	7.08	172.74	3,581.95	-296.44	37.77	-295.54	0.00	0.00	0.00
3,700.00	7.08	172.74	3,681.19	-308.67	39.33	-307.74	0.00	0.00	0.00
3,800.00	7.08	172.74	3,780.43	-320.91	40.89	-319.93	0.00	0.00	0.00
3,900.00	7.08	172.74	3,879.66	-333.14	42.45	-332.13	0.00	0.00	0.00
4,000.00	7.08	172.74	3,978.90	-345.37	44.01	-344.33	0.00	0.00	0.00
4,100.00	7.08	172.74	4,078.14	-357.61	45.57	-356.52	0.00	0.00	0.00
4,200.00	7.08	172.74	4,177.37	-369.84	47.13	-368.72	0.00	0.00	0.00
4,300.00	7.08	172.74	4,276.61	-382.08	48.69	-380.92	0.00	0.00	0.00
4,400.00	7.08	172.74	4,375.85	-394.31	50.25	-393.11	0.00	0.00	0.00
4,463.64	7.08	172.74	4,439.00	-402.09	51.24	-400.87	0.00	0.00	0.00
SUSSEX									

Database:	edm5000p	Local Co-ordinate Reference:	Well CAMP 2N-25HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	17' rkb + 4979' gl @ 4996.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	17' rkb + 4979' gl @ 4996.00ft
Site:	WELD_CAMP PAD	North Reference:	True
Well:	CAMP 2N-25HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	CAMP 2N-25HZ		
Design:	CAMP 2N-25HZ (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)
4,500.00	7.08	172.74	4,475.08	-406.54	51.80	-405.31	0.00	0.00	0.00
4,600.00	7.08	172.74	4,574.32	-418.78	53.36	-417.50	0.00	0.00	0.00
4,700.00	7.08	172.74	4,673.56	-431.01	54.92	-429.70	0.00	0.00	0.00
4,800.00	7.08	172.74	4,772.79	-443.24	56.48	-441.90	0.00	0.00	0.00
4,900.00	7.08	172.74	4,872.03	-455.48	58.04	-454.09	0.00	0.00	0.00
5,000.00	7.08	172.74	4,971.27	-467.71	59.60	-466.29	0.00	0.00	0.00
5,100.00	7.08	172.74	5,070.50	-479.95	61.16	-478.49	0.00	0.00	0.00
5,200.00	7.08	172.74	5,169.74	-492.18	62.72	-490.68	0.00	0.00	0.00
5,267.78	7.08	172.74	5,237.00	-500.47	63.77	-498.95	0.00	0.00	0.00
SHANNON									
5,300.00	7.08	172.74	5,268.98	-504.41	64.28	-502.88	0.00	0.00	0.00
5,400.00	7.08	172.74	5,368.21	-516.65	65.83	-515.08	0.00	0.00	0.00
5,500.00	7.08	172.74	5,467.45	-528.88	67.39	-527.27	0.00	0.00	0.00
5,600.00	7.08	172.74	5,566.69	-541.11	68.95	-539.47	0.00	0.00	0.00
5,700.00	7.08	172.74	5,665.92	-553.35	70.51	-551.67	0.00	0.00	0.00
5,800.00	7.08	172.74	5,765.16	-565.58	72.07	-563.86	0.00	0.00	0.00
5,900.00	7.08	172.74	5,864.40	-577.82	73.63	-576.06	0.00	0.00	0.00
6,000.00	7.08	172.74	5,963.63	-590.05	75.19	-588.26	0.00	0.00	0.00
6,100.00	7.08	172.74	6,062.87	-602.28	76.75	-600.45	0.00	0.00	0.00
6,200.00	7.08	172.74	6,162.11	-614.52	78.31	-612.65	0.00	0.00	0.00
6,300.00	7.08	172.74	6,261.34	-626.75	79.86	-624.85	0.00	0.00	0.00
6,400.00	7.08	172.74	6,360.58	-638.98	81.42	-637.04	0.00	0.00	0.00
6,500.00	7.08	172.74	6,459.82	-651.22	82.98	-649.24	0.00	0.00	0.00
6,600.00	7.08	172.74	6,559.05	-663.45	84.54	-661.44	0.00	0.00	0.00
6,604.02	7.08	172.74	6,563.04	-663.94	84.60	-661.93	0.00	0.00	0.00
Start DLS 10.00 TFO -172.75									
6,700.00	2.72	19.07	6,658.83	-667.67	86.10	-665.62	10.00	-4.55	-160.10
6,800.00	12.60	3.93	6,757.82	-654.51	87.63	-652.43	10.00	9.88	-15.14
6,900.00	22.59	2.08	6,853.02	-624.36	89.08	-622.26	10.00	9.99	-1.85
7,000.00	32.58	1.33	6,941.54	-578.14	90.41	-576.01	10.00	9.99	-0.75
7,100.00	42.58	0.91	7,020.69	-517.24	91.57	-515.10	10.00	10.00	-0.43
7,193.36	51.91	0.64	7,084.00	-448.77	92.49	-446.63	10.00	10.00	-0.29
SHARON SPRINGS									
7,200.00	52.58	0.62	7,088.07	-443.52	92.54	-441.38	10.00	10.00	-0.25
7,300.00	62.57	0.40	7,141.62	-359.22	93.29	-357.09	10.00	10.00	-0.22
7,325.84	65.16	0.35	7,153.00	-336.02	93.44	-333.89	10.00	10.00	-0.19
NIOBRARA									
7,400.00	72.57	0.22	7,179.72	-266.90	93.78	-264.78	10.00	10.00	-0.18
7,500.00	82.57	0.05	7,201.21	-169.37	94.01	-167.27	10.00	10.00	-0.16
7,579.58	90.53	359.93	7,206.00	-90.00	94.00	-87.92	10.00	10.00	-0.16
Start DLS 1.00 TFO 16.18 - NIOBRARA B CHALK TL - 7"									
7,581.90	90.55	359.94	7,205.98	-87.68	94.00	-85.60	1.01	0.98	0.28
Start 4159.93 hold at 7581.90 MD									
7,600.00	90.55	359.94	7,205.80	-69.58	93.98	-67.50	0.00	0.00	0.00
7,700.00	90.55	359.94	7,204.84	30.41	93.87	32.47	0.00	0.00	0.00
7,800.00	90.55	359.94	7,203.88	130.41	93.76	132.44	0.00	0.00	0.00
7,900.00	90.55	359.94	7,202.92	230.41	93.64	232.40	0.00	0.00	0.00
8,000.00	90.55	359.94	7,201.96	330.40	93.53	332.37	0.00	0.00	0.00
8,100.00	90.55	359.94	7,201.00	430.40	93.42	432.34	0.00	0.00	0.00
8,200.00	90.55	359.94	7,200.04	530.39	93.31	532.31	0.00	0.00	0.00
8,300.00	90.55	359.94	7,199.08	630.39	93.20	632.28	0.00	0.00	0.00
8,400.00	90.55	359.94	7,198.12	730.38	93.09	732.25	0.00	0.00	0.00
8,500.00	90.55	359.94	7,197.16	830.38	92.98	832.22	0.00	0.00	0.00

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Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	17' rkb + 4979' gl @ 4996.00ft
Site:	WELD_CAMP PAD	North Reference:	True
Well:	CAMP 2N-25HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	CAMP 2N-25HZ		
Design:	CAMP 2N-25HZ (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)
8,600.00	90.55	359.94	7,196.19	930.37	92.87	932.19	0.00	0.00	0.00
8,700.00	90.55	359.94	7,195.23	1,030.37	92.76	1,032.16	0.00	0.00	0.00
8,800.00	90.55	359.94	7,194.27	1,130.36	92.65	1,132.12	0.00	0.00	0.00
8,900.00	90.55	359.94	7,193.31	1,230.36	92.54	1,232.09	0.00	0.00	0.00
9,000.00	90.55	359.94	7,192.35	1,330.35	92.42	1,332.06	0.00	0.00	0.00
9,100.00	90.55	359.94	7,191.39	1,430.35	92.31	1,432.03	0.00	0.00	0.00
9,200.00	90.55	359.94	7,190.43	1,530.34	92.20	1,532.00	0.00	0.00	0.00
9,300.00	90.55	359.94	7,189.47	1,630.34	92.09	1,631.97	0.00	0.00	0.00
9,400.00	90.55	359.94	7,188.51	1,730.34	91.98	1,731.94	0.00	0.00	0.00
9,500.00	90.55	359.94	7,187.54	1,830.33	91.87	1,831.91	0.00	0.00	0.00
9,600.00	90.55	359.94	7,186.58	1,930.33	91.76	1,931.87	0.00	0.00	0.00
9,700.00	90.55	359.94	7,185.62	2,030.32	91.65	2,031.84	0.00	0.00	0.00
9,800.00	90.55	359.94	7,184.66	2,130.32	91.54	2,131.81	0.00	0.00	0.00
9,900.00	90.55	359.94	7,183.70	2,230.31	91.43	2,231.78	0.00	0.00	0.00
10,000.00	90.55	359.94	7,182.74	2,330.31	91.32	2,331.75	0.00	0.00	0.00
10,100.00	90.55	359.94	7,181.78	2,430.30	91.20	2,431.72	0.00	0.00	0.00
10,200.00	90.55	359.94	7,180.82	2,530.30	91.09	2,531.69	0.00	0.00	0.00
10,300.00	90.55	359.94	7,179.86	2,630.29	90.98	2,631.66	0.00	0.00	0.00
10,400.00	90.55	359.94	7,178.90	2,730.29	90.87	2,731.63	0.00	0.00	0.00
10,500.00	90.55	359.94	7,177.93	2,830.28	90.76	2,831.59	0.00	0.00	0.00
10,600.00	90.55	359.94	7,176.97	2,930.28	90.65	2,931.56	0.00	0.00	0.00
10,700.00	90.55	359.94	7,176.01	3,030.27	90.54	3,031.53	0.00	0.00	0.00
10,800.00	90.55	359.94	7,175.05	3,130.27	90.43	3,131.50	0.00	0.00	0.00
10,900.00	90.55	359.94	7,174.09	3,230.26	90.32	3,231.47	0.00	0.00	0.00
11,000.00	90.55	359.94	7,173.13	3,330.26	90.21	3,331.44	0.00	0.00	0.00
11,100.00	90.55	359.94	7,172.17	3,430.26	90.10	3,431.41	0.00	0.00	0.00
11,200.00	90.55	359.94	7,171.21	3,530.25	89.98	3,531.38	0.00	0.00	0.00
11,300.00	90.55	359.94	7,170.25	3,630.25	89.87	3,631.34	0.00	0.00	0.00
11,400.00	90.55	359.94	7,169.29	3,730.24	89.76	3,731.31	0.00	0.00	0.00
11,500.00	90.55	359.94	7,168.32	3,830.24	89.65	3,831.28	0.00	0.00	0.00
11,600.00	90.55	359.94	7,167.36	3,930.23	89.54	3,931.25	0.00	0.00	0.00
11,700.00	90.55	359.94	7,166.40	4,030.23	89.43	4,031.22	0.00	0.00	0.00
11,741.83	90.55	359.94	7,166.00	4,072.06	89.38	4,073.04	0.00	0.00	0.00
CAMP 2N-25HZ BHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
CAMP 2N-25HZ BHL	0.00	0.00	7,166.00	4,072.06	89.38	1,317,489.54	3,217,167.72	40.202292	-104.722510
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name		Casing Diameter (")	Hole Diameter (")
850.00	850.00	9 5/8"		9-5/8	12-1/4
7,579.58	7,206.00	7"		7	8-3/4

Database:	edm5000p	Local Co-ordinate Reference:	Well CAMP 2N-25HZ
Company:	US ROCKIES REGION PLANNING	TVD Reference:	17' rkb + 4979' gl @ 4996.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	17' rkb + 4979' gl @ 4996.00ft
Site:	WELD_CAMP PAD	North Reference:	True
Well:	CAMP 2N-25HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	CAMP 2N-25HZ		
Design:	CAMP 2N-25HZ (wp01)		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,229.22	3,214.00	PARKMAN		0.00	
4,463.64	4,439.00	SUSSEX		0.00	
5,267.78	5,237.00	SHANNON		0.00	
7,193.36	7,084.00	SHARON SPRINGS		0.00	
7,325.84	7,153.00	NIOBRARA		0.00	
7,579.58	7,206.00	NIOBRARA B CHALK TL		0.00	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,000.00	1,000.00	0.00	0.00	Start Build 2.00	
1,354.21	1,353.31	-21.69	2.76	Start 5249.81 hold at 1354.21 MD	
6,604.02	6,563.04	-663.94	84.60	Start DLS 10.00 TFO -172.75	
7,579.58	7,206.00	-90.00	94.00	Start DLS 1.00 TFO 16.18	
7,581.90	7,205.98	-87.68	94.00	Start 4159.93 hold at 7581.90 MD	
11,741.83	7,166.00	4,072.06	89.38	TD at 11741.83	