

US ROCKIES WATTENBERG PLANNING

WELD-NAD83-UTMFT13N

2N-65W-35 LABRISA 11-35HZ PAD

LABRISA 35-9HZ

Plan A

Plan: Permit Rev-1

Standard Planning Report

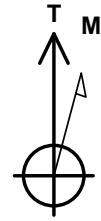
07 September, 2023

Project: WELD-NAD83-UTMFT13N
Site: 2N-65W-35 LABRISA 11-35HZ PAD
Well: LABRISA 35-9HZ
Wellbore: Plan A
Design: Permit Rev-1

US ROCKIES WATTENBERG PLANNING

CASING DETAILS

TVD	MD	Name	Size
2017.00	2083.63	9 5/8"	9-5/8
7099.00	18301.71	5.5" CSG	5-1/2



Azimuths to True North
Magnetic North: 7.63°

Magnetic Field
Strength: 51680.6nT
Dip Angle: 66.38°
Date: 8/18/2022
Model: IGRF2020

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	219.00	0.00	0.00	219.00	0.00	0.00	0.00	0.00	0.00	
3	1736.33	22.76	108.96	1696.74	-96.64	281.29	1.50	108.96	95.65	
4	6957.29	22.76	108.96	6511.16	-752.90	2191.55	0.00	0.00	745.24	
5	7992.64	89.97	180.20	7094.00	-1464.03	2420.44	8.00	72.62	1455.57	
6	18301.71	89.97	180.20	7099.00	-11773.03	2383.86	0.00	0.00	11764.64	LABRISA 35-9HZ_BHL

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	Northing	Easting	Latitude	Longitude
LABRISA 35-9HZ_SHL	0.00	14560192.10	1743053.59	40.091302	-104.633017
LABRISA 35-9HZ_LP	7094.00	14558738.07	1745480.05	40.087281	-104.624364
LABRISA 35-9HZ_BHL	7099.00	14548429.00	1745486.00	40.058971	-104.624498

WELL DETAILS: LABRISA 35-9HZ

GL = 4969'

RKB = 17' @ 4986.00usft (RIG)

FORMATION TOP DETAILS

Plan: Permit Rev-1 (LABRISA 35-9HZ/Plan A)

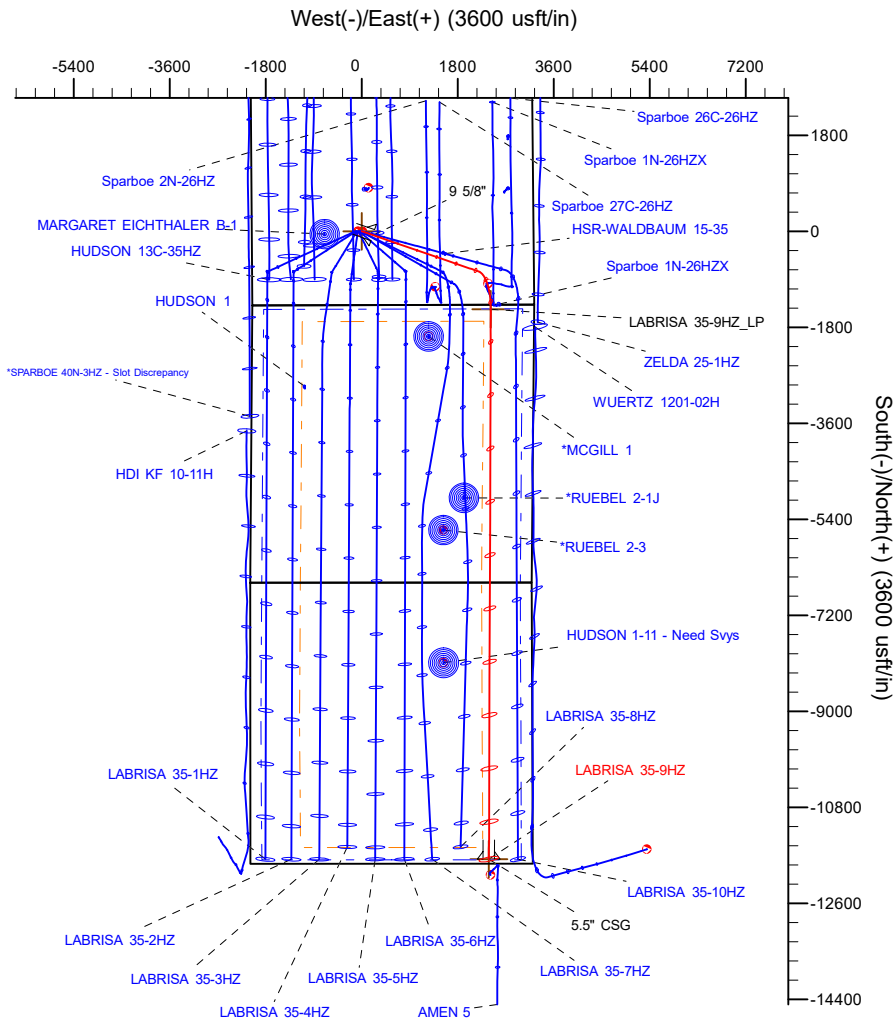
Date: 9/7/2023

TVDPath	MDPath	Formation
1479.00	1503.05	Fox Hills
4094.00	4336.02	Parkman
4444.00	4715.57	Sussex
6887.00	7412.40	Sharon Springs
6912.00	7450.50	Niobrara
7021.00	7654.43	Nio B
7091.00	7924.96	Nio C

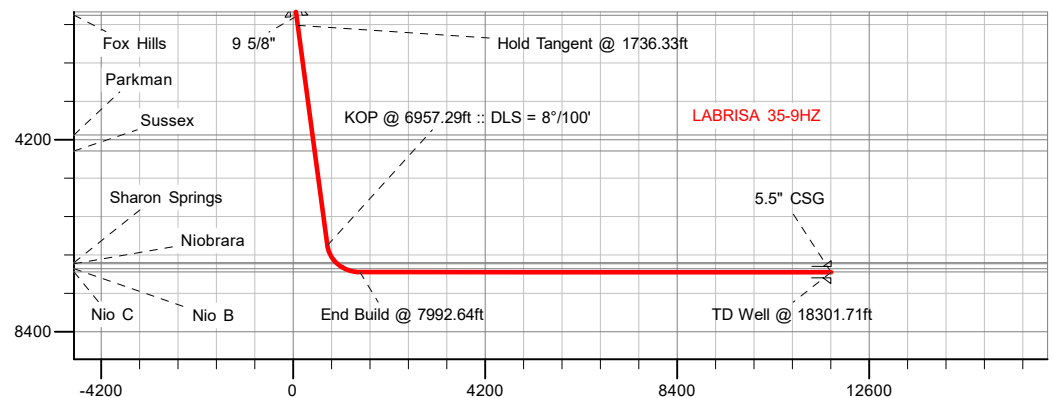
SHL
1386' FSL
2064' FWL

LP
85' FNL
811' FEL

BHL
85' FSL
824' FEL



True Vertical Depth (4200 usft/in)



Vertical Section at 180.20° (4200 usft/in)

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well LABRISA 35-9HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB = 17' @ 4986.00usft (RIG)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB = 17' @ 4986.00usft (RIG)
Site:	2N-65W-35 LABRISA 11-35HZ PAD	North Reference:	True
Well:	LABRISA 35-9HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Permit Rev-1		

Project	WELD-NAD83-UTMFT13N		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Zone 13N (108 W to 102 W)		

Site		2N-65W-35 LABRISA 11-35HZ PAD				
Site Position:		Northing:	14,560,192.78	usft	Latitude:	40.091305
From:	Map	Easting:	1,742,933.63	usft	Longitude:	-104.633447
Position Uncertainty:		0.00	usft	Slot Radius:	13-3/16	"

Well		LABRISA 35-9HZ				
Well Position	+N/-S	0.00 usft	Northing:	14,560,192.10 usft	Latitude:	40.091302
	+E/-W	0.00 usft	Easting:	1,743,053.59 usft	Longitude:	-104.633018
Position Uncertainty		3.28 usft	Wellhead Elevation:	usft	Ground Level:	4,969.00 usft
Grid Convergence:		0.24 °				

Wellbore	Plan A				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF202013	9/7/2023	7.52	66.33	51,569.33719821

Design	Permit Rev-1				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	180.20	

Plan Survey Tool Program	Date	9/7/2023			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	2,017.00	Permit Rev-1 (Plan A)	APC_ISCWSA REV 2 MWD+I	
				Fixed:v2:crustal field declinatio	
2	2,017.00	18,301.71	Permit Rev-1 (Plan A)	APC_ISCWSA REV 2 MWD+I	
				Fixed:v2:crustal field declinatio	

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Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB = 17' @ 4986.00usft (RIG)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB = 17' @ 4986.00usft (RIG)
Site:	2N-65W-35 LABRISA 11-35HZ PAD	North Reference:	True
Well:	LABRISA 35-9HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Permit Rev-1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	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	
219.00	0.00	0.00	219.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,736.33	22.76	108.96	1,696.74	-96.64	281.29	1.50	1.50	0.00	108.96	
6,957.29	22.76	108.96	6,511.16	-752.90	2,191.55	0.00	0.00	0.00	0.00	
7,992.64	89.97	180.20	7,094.00	-1,464.03	2,420.44	8.00	6.49	6.88	72.62	
18,301.71	89.97	180.20	7,099.00	-11,773.03	2,383.86	0.00	0.00	0.00	0.00	LABRISA 35-9HZ_BH

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well LABRISA 35-9HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB = 17' @ 4986.00usft (RIG)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB = 17' @ 4986.00usft (RIG)
Site:	2N-65W-35 LABRISA 11-35HZ PAD	North Reference:	True
Well:	LABRISA 35-9HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Permit Rev-1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	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
219.00	0.00	0.00	219.00	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 219.00ft									
300.00	1.22	108.96	299.99	-0.28	0.81	0.28	1.50	1.50	0.00
400.00	2.72	108.96	399.93	-1.39	4.05	1.38	1.50	1.50	0.00
500.00	4.22	108.96	499.75	-3.36	9.77	3.32	1.50	1.50	0.00
600.00	5.72	108.96	599.37	-6.17	17.96	6.11	1.50	1.50	0.00
700.00	7.22	108.96	698.73	-9.83	28.60	9.73	1.50	1.50	0.00
800.00	8.72	108.96	797.76	-14.33	41.71	14.18	1.50	1.50	0.00
900.00	10.22	108.96	896.40	-19.67	57.26	19.47	1.50	1.50	0.00
1,000.00	11.72	108.96	994.57	-25.85	75.25	25.59	1.50	1.50	0.00
1,100.00	13.22	108.96	1,092.21	-32.86	95.66	32.53	1.50	1.50	0.00
1,200.00	14.72	108.96	1,189.25	-40.71	118.48	40.29	1.50	1.50	0.00
1,300.00	16.22	108.96	1,285.63	-49.37	143.70	48.87	1.50	1.50	0.00
1,400.00	17.72	108.96	1,381.27	-58.85	171.30	58.25	1.50	1.50	0.00
1,500.00	19.22	108.96	1,476.12	-69.14	201.25	68.44	1.50	1.50	0.00
1,503.05	19.26	108.96	1,479.00	-69.47	202.20	68.76	1.50	1.50	0.00
Fox Hills									
1,600.00	20.72	108.96	1,570.11	-80.23	233.54	79.42	1.50	1.50	0.00
1,700.00	22.22	108.96	1,663.17	-92.12	268.15	91.19	1.50	1.50	0.00
1,736.33	22.76	108.96	1,696.74	-96.64	281.29	95.65	1.50	1.50	0.00
Hold Tangent @ 1736.33ft									
1,800.00	22.76	108.96	1,755.45	-104.64	304.59	103.58	0.00	0.00	0.00
1,900.00	22.76	108.96	1,847.66	-117.21	341.17	116.02	0.00	0.00	0.00
2,000.00	22.76	108.96	1,939.88	-129.78	377.76	128.46	0.00	0.00	0.00
2,083.63	22.76	108.96	2,017.00	-140.29	408.36	138.87	0.00	0.00	0.00
9 5/8"									
2,100.00	22.76	108.96	2,032.09	-142.35	414.35	140.90	0.00	0.00	0.00
2,200.00	22.76	108.96	2,124.30	-154.92	450.94	153.34	0.00	0.00	0.00
2,300.00	22.76	108.96	2,216.52	-167.49	487.53	165.79	0.00	0.00	0.00
2,400.00	22.76	108.96	2,308.73	-180.06	524.12	178.23	0.00	0.00	0.00
2,500.00	22.76	108.96	2,400.94	-192.63	560.70	190.67	0.00	0.00	0.00
2,600.00	22.76	108.96	2,493.16	-205.20	597.29	203.11	0.00	0.00	0.00
2,700.00	22.76	108.96	2,585.37	-217.77	633.88	215.55	0.00	0.00	0.00
2,800.00	22.76	108.96	2,677.58	-230.34	670.47	228.00	0.00	0.00	0.00
2,900.00	22.76	108.96	2,769.80	-242.91	707.06	240.44	0.00	0.00	0.00
3,000.00	22.76	108.96	2,862.01	-255.48	743.64	252.88	0.00	0.00	0.00
3,100.00	22.76	108.96	2,954.22	-268.05	780.23	265.32	0.00	0.00	0.00
3,200.00	22.76	108.96	3,046.44	-280.62	816.82	277.76	0.00	0.00	0.00
3,300.00	22.76	108.96	3,138.65	-293.19	853.41	290.21	0.00	0.00	0.00
3,400.00	22.76	108.96	3,230.86	-305.76	890.00	302.65	0.00	0.00	0.00
3,500.00	22.76	108.96	3,323.08	-318.33	926.59	315.09	0.00	0.00	0.00
3,600.00	22.76	108.96	3,415.29	-330.90	963.17	327.53	0.00	0.00	0.00
3,700.00	22.76	108.96	3,507.50	-343.47	999.76	339.97	0.00	0.00	0.00
3,800.00	22.76	108.96	3,599.72	-356.04	1,036.35	352.42	0.00	0.00	0.00
3,900.00	22.76	108.96	3,691.93	-368.60	1,072.94	364.86	0.00	0.00	0.00
4,000.00	22.76	108.96	3,784.14	-381.17	1,109.53	377.30	0.00	0.00	0.00
4,100.00	22.76	108.96	3,876.36	-393.74	1,146.12	389.74	0.00	0.00	0.00
4,200.00	22.76	108.96	3,968.57	-406.31	1,182.70	402.18	0.00	0.00	0.00
4,300.00	22.76	108.96	4,060.78	-418.88	1,219.29	414.63	0.00	0.00	0.00
4,336.02	22.76	108.96	4,094.00	-423.41	1,232.47	419.11	0.00	0.00	0.00
Parkman									

Planning Report

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Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB = 17' @ 4986.00usft (RIG)
Site:	2N-65W-35 LABRISA 11-35HZ PAD	North Reference:	True
Well:	LABRISA 35-9HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Permit Rev-1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,400.00	22.76	108.96	4,153.00	-431.45	1,255.88	427.07	0.00	0.00	0.00	
4,500.00	22.76	108.96	4,245.21	-444.02	1,292.47	439.51	0.00	0.00	0.00	
4,600.00	22.76	108.96	4,337.42	-456.59	1,329.06	451.95	0.00	0.00	0.00	
4,700.00	22.76	108.96	4,429.64	-469.16	1,365.65	464.39	0.00	0.00	0.00	
4,715.57	22.76	108.96	4,444.00	-471.12	1,371.34	466.33	0.00	0.00	0.00	
Sussex										
4,800.00	22.76	108.96	4,521.85	-481.73	1,402.23	476.84	0.00	0.00	0.00	
4,900.00	22.76	108.96	4,614.06	-494.30	1,438.82	489.28	0.00	0.00	0.00	
5,000.00	22.76	108.96	4,706.28	-506.87	1,475.41	501.72	0.00	0.00	0.00	
5,100.00	22.76	108.96	4,798.49	-519.44	1,512.00	514.16	0.00	0.00	0.00	
5,200.00	22.76	108.96	4,890.70	-532.01	1,548.59	526.60	0.00	0.00	0.00	
5,300.00	22.76	108.96	4,982.92	-544.58	1,585.17	539.05	0.00	0.00	0.00	
5,400.00	22.76	108.96	5,075.13	-557.15	1,621.76	551.49	0.00	0.00	0.00	
5,500.00	22.76	108.96	5,167.34	-569.72	1,658.35	563.93	0.00	0.00	0.00	
5,600.00	22.76	108.96	5,259.56	-582.29	1,694.94	576.37	0.00	0.00	0.00	
5,700.00	22.76	108.96	5,351.77	-594.86	1,731.53	588.81	0.00	0.00	0.00	
5,800.00	22.76	108.96	5,443.98	-607.43	1,768.12	601.26	0.00	0.00	0.00	
5,900.00	22.76	108.96	5,536.20	-620.00	1,804.70	613.70	0.00	0.00	0.00	
6,000.00	22.76	108.96	5,628.41	-632.57	1,841.29	626.14	0.00	0.00	0.00	
6,100.00	22.76	108.96	5,720.63	-645.14	1,877.88	638.58	0.00	0.00	0.00	
6,200.00	22.76	108.96	5,812.84	-657.71	1,914.47	651.02	0.00	0.00	0.00	
6,300.00	22.76	108.96	5,905.05	-670.28	1,951.06	663.47	0.00	0.00	0.00	
6,400.00	22.76	108.96	5,997.27	-682.85	1,987.65	675.91	0.00	0.00	0.00	
6,500.00	22.76	108.96	6,089.48	-695.42	2,024.23	688.35	0.00	0.00	0.00	
6,600.00	22.76	108.96	6,181.69	-707.99	2,060.82	700.79	0.00	0.00	0.00	
6,700.00	22.76	108.96	6,273.91	-720.56	2,097.41	713.23	0.00	0.00	0.00	
6,800.00	22.76	108.96	6,366.12	-733.13	2,134.00	725.67	0.00	0.00	0.00	
6,900.00	22.76	108.96	6,458.33	-745.70	2,170.59	738.12	0.00	0.00	0.00	
6,957.29	22.76	108.96	6,511.16	-752.90	2,191.55	745.24	0.00	0.00	0.00	
KOP @ 6957.29ft :: DLS = 8°/100'										
7,000.00	23.99	117.00	6,550.37	-759.53	2,207.10	751.82	8.00	2.88	18.83	
7,050.00	25.91	125.34	6,595.72	-770.46	2,225.08	762.69	8.00	3.83	16.67	
7,100.00	28.23	132.50	6,640.25	-784.78	2,242.71	776.94	8.00	4.66	14.32	
7,150.00	30.88	138.58	6,683.75	-802.40	2,259.93	794.50	8.00	5.29	12.18	
7,200.00	33.77	143.76	6,726.01	-823.24	2,276.64	815.29	8.00	5.78	10.36	
7,250.00	36.84	148.20	6,766.81	-847.20	2,292.76	839.19	8.00	6.15	8.86	
7,300.00	40.06	152.02	6,805.97	-874.16	2,308.22	866.09	8.00	6.43	7.65	
7,350.00	43.39	155.36	6,843.28	-903.99	2,322.93	895.87	8.00	6.65	6.68	
7,400.00	46.80	158.31	6,878.58	-936.55	2,336.83	928.38	8.00	6.83	5.90	
7,412.40	47.66	158.99	6,887.00	-945.02	2,340.15	936.85	8.00	6.91	5.48	
Sharon Springs										
7,450.00	50.28	160.94	6,911.68	-971.67	2,349.85	963.46	8.00	6.98	5.19	
7,450.50	50.32	160.97	6,912.00	-972.03	2,349.98	963.82	8.00	7.02	4.99	
Niobrara										
7,500.00	53.81	163.32	6,942.43	-1,009.19	2,361.93	1,000.94	8.00	7.07	4.75	
7,550.00	57.39	165.49	6,970.68	-1,048.92	2,373.00	1,040.63	8.00	7.15	4.34	
7,600.00	61.00	167.49	6,996.28	-1,090.67	2,383.02	1,082.35	8.00	7.22	4.01	
7,650.00	64.64	169.36	7,019.11	-1,134.24	2,391.92	1,125.88	8.00	7.28	3.73	
7,654.43	64.97	169.52	7,021.00	-1,138.18	2,392.66	1,129.83	8.00	7.30	3.61	
Nio B										
7,700.00	68.30	171.12	7,039.07	-1,179.41	2,399.68	1,171.03	8.00	7.32	3.51	
7,750.00	71.98	172.79	7,056.05	-1,225.97	2,406.26	1,217.56	8.00	7.36	3.34	
7,800.00	75.67	174.39	7,069.98	-1,273.68	2,411.61	1,265.25	8.00	7.38	3.20	

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well LABRISA 35-9HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB = 17' @ 4986.00usft (RIG)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB = 17' @ 4986.00usft (RIG)
Site:	2N-65W-35 LABRISA 11-35HZ PAD	North Reference:	True
Well:	LABRISA 35-9HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Permit Rev-1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,850.00	79.38	175.94	7,080.78	-1,322.32	2,415.72	1,313.87	8.00	7.41	3.10
7,900.00	83.09	177.45	7,088.40	-1,371.64	2,418.56	1,363.19	8.00	7.42	3.03
7,924.96	84.94	178.20	7,091.00	-1,396.45	2,419.50	1,387.99	8.00	7.43	2.99
Nio C									
7,950.00	86.80	178.94	7,092.80	-1,421.41	2,420.13	1,412.95	8.00	7.43	2.97
7,992.64	89.97	180.20	7,094.00	-1,464.03	2,420.44	1,455.57	8.00	7.43	2.96
End Build @ 7992.64ft									
8,000.00	89.97	180.20	7,094.01	-1,471.39	2,420.42	1,462.93	0.00	0.00	0.00
8,100.00	89.97	180.20	7,094.05	-1,571.38	2,420.06	1,562.93	0.00	0.00	0.00
8,200.00	89.97	180.20	7,094.10	-1,671.38	2,419.71	1,662.93	0.00	0.00	0.00
8,300.00	89.97	180.20	7,094.15	-1,771.38	2,419.35	1,762.93	0.00	0.00	0.00
8,400.00	89.97	180.20	7,094.20	-1,871.38	2,419.00	1,862.93	0.00	0.00	0.00
8,500.00	89.97	180.20	7,094.25	-1,971.38	2,418.64	1,962.93	0.00	0.00	0.00
8,600.00	89.97	180.20	7,094.30	-2,071.38	2,418.29	2,062.93	0.00	0.00	0.00
8,700.00	89.97	180.20	7,094.35	-2,171.38	2,417.93	2,162.93	0.00	0.00	0.00
8,800.00	89.97	180.20	7,094.39	-2,271.38	2,417.58	2,262.93	0.00	0.00	0.00
8,900.00	89.97	180.20	7,094.44	-2,371.38	2,417.22	2,362.93	0.00	0.00	0.00
9,000.00	89.97	180.20	7,094.49	-2,471.38	2,416.87	2,462.93	0.00	0.00	0.00
9,100.00	89.97	180.20	7,094.54	-2,571.38	2,416.51	2,562.93	0.00	0.00	0.00
9,200.00	89.97	180.20	7,094.59	-2,671.38	2,416.16	2,662.93	0.00	0.00	0.00
9,300.00	89.97	180.20	7,094.64	-2,771.38	2,415.80	2,762.93	0.00	0.00	0.00
9,400.00	89.97	180.20	7,094.68	-2,871.38	2,415.45	2,862.93	0.00	0.00	0.00
9,500.00	89.97	180.20	7,094.73	-2,971.38	2,415.10	2,962.93	0.00	0.00	0.00
9,600.00	89.97	180.20	7,094.78	-3,071.38	2,414.74	3,062.93	0.00	0.00	0.00
9,700.00	89.97	180.20	7,094.83	-3,171.37	2,414.39	3,162.93	0.00	0.00	0.00
9,800.00	89.97	180.20	7,094.88	-3,271.37	2,414.03	3,262.93	0.00	0.00	0.00
9,900.00	89.97	180.20	7,094.93	-3,371.37	2,413.68	3,362.93	0.00	0.00	0.00
10,000.00	89.97	180.20	7,094.98	-3,471.37	2,413.32	3,462.93	0.00	0.00	0.00
10,100.00	89.97	180.20	7,095.02	-3,571.37	2,412.97	3,562.93	0.00	0.00	0.00
10,200.00	89.97	180.20	7,095.07	-3,671.37	2,412.61	3,662.93	0.00	0.00	0.00
10,300.00	89.97	180.20	7,095.12	-3,771.37	2,412.26	3,762.93	0.00	0.00	0.00
10,400.00	89.97	180.20	7,095.17	-3,871.37	2,411.90	3,862.93	0.00	0.00	0.00
10,500.00	89.97	180.20	7,095.22	-3,971.37	2,411.55	3,962.93	0.00	0.00	0.00
10,600.00	89.97	180.20	7,095.27	-4,071.37	2,411.19	4,062.93	0.00	0.00	0.00
10,700.00	89.97	180.20	7,095.31	-4,171.37	2,410.84	4,162.93	0.00	0.00	0.00
10,800.00	89.97	180.20	7,095.36	-4,271.37	2,410.48	4,262.93	0.00	0.00	0.00
10,900.00	89.97	180.20	7,095.41	-4,371.37	2,410.13	4,362.93	0.00	0.00	0.00
11,000.00	89.97	180.20	7,095.46	-4,471.37	2,409.77	4,462.93	0.00	0.00	0.00
11,100.00	89.97	180.20	7,095.51	-4,571.37	2,409.42	4,562.93	0.00	0.00	0.00
11,200.00	89.97	180.20	7,095.56	-4,671.37	2,409.06	4,662.93	0.00	0.00	0.00
11,300.00	89.97	180.20	7,095.61	-4,771.36	2,408.71	4,762.93	0.00	0.00	0.00
11,400.00	89.97	180.20	7,095.65	-4,871.36	2,408.35	4,862.93	0.00	0.00	0.00
11,500.00	89.97	180.20	7,095.70	-4,971.36	2,408.00	4,962.93	0.00	0.00	0.00
11,600.00	89.97	180.20	7,095.75	-5,071.36	2,407.64	5,062.93	0.00	0.00	0.00
11,700.00	89.97	180.20	7,095.80	-5,171.36	2,407.29	5,162.93	0.00	0.00	0.00
11,800.00	89.97	180.20	7,095.85	-5,271.36	2,406.93	5,262.93	0.00	0.00	0.00
11,900.00	89.97	180.20	7,095.90	-5,371.36	2,406.58	5,362.93	0.00	0.00	0.00
12,000.00	89.97	180.20	7,095.95	-5,471.36	2,406.22	5,462.93	0.00	0.00	0.00
12,100.00	89.97	180.20	7,095.99	-5,571.36	2,405.87	5,562.93	0.00	0.00	0.00
12,200.00	89.97	180.20	7,096.04	-5,671.36	2,405.51	5,662.93	0.00	0.00	0.00
12,300.00	89.97	180.20	7,096.09	-5,771.36	2,405.16	5,762.93	0.00	0.00	0.00
12,400.00	89.97	180.20	7,096.14	-5,871.36	2,404.81	5,862.93	0.00	0.00	0.00
12,500.00	89.97	180.20	7,096.19	-5,971.36	2,404.45	5,962.93	0.00	0.00	0.00
12,600.00	89.97	180.20	7,096.24	-6,071.36	2,404.10	6,062.93	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well LABRISA 35-9HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB = 17' @ 4986.00usft (RIG)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB = 17' @ 4986.00usft (RIG)
Site:	2N-65W-35 LABRISA 11-35HZ PAD	North Reference:	True
Well:	LABRISA 35-9HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Permit Rev-1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,700.00	89.97	180.20	7,096.28	-6,171.36	2,403.74	6,162.93	0.00	0.00	0.00
12,800.00	89.97	180.20	7,096.33	-6,271.35	2,403.39	6,262.93	0.00	0.00	0.00
12,900.00	89.97	180.20	7,096.38	-6,371.35	2,403.03	6,362.93	0.00	0.00	0.00
13,000.00	89.97	180.20	7,096.43	-6,471.35	2,402.68	6,462.93	0.00	0.00	0.00
13,100.00	89.97	180.20	7,096.48	-6,571.35	2,402.32	6,562.93	0.00	0.00	0.00
13,200.00	89.97	180.20	7,096.53	-6,671.35	2,401.97	6,662.93	0.00	0.00	0.00
13,300.00	89.97	180.20	7,096.58	-6,771.35	2,401.61	6,762.93	0.00	0.00	0.00
13,400.00	89.97	180.20	7,096.62	-6,871.35	2,401.26	6,862.93	0.00	0.00	0.00
13,500.00	89.97	180.20	7,096.67	-6,971.35	2,400.90	6,962.93	0.00	0.00	0.00
13,600.00	89.97	180.20	7,096.72	-7,071.35	2,400.55	7,062.93	0.00	0.00	0.00
13,700.00	89.97	180.20	7,096.77	-7,171.35	2,400.19	7,162.93	0.00	0.00	0.00
13,800.00	89.97	180.20	7,096.82	-7,271.35	2,399.84	7,262.93	0.00	0.00	0.00
13,900.00	89.97	180.20	7,096.87	-7,371.35	2,399.48	7,362.93	0.00	0.00	0.00
14,000.00	89.97	180.20	7,096.91	-7,471.35	2,399.13	7,462.93	0.00	0.00	0.00
14,100.00	89.97	180.20	7,096.96	-7,571.35	2,398.77	7,562.93	0.00	0.00	0.00
14,200.00	89.97	180.20	7,097.01	-7,671.35	2,398.42	7,662.93	0.00	0.00	0.00
14,300.00	89.97	180.20	7,097.06	-7,771.35	2,398.06	7,762.93	0.00	0.00	0.00
14,400.00	89.97	180.20	7,097.11	-7,871.34	2,397.71	7,862.93	0.00	0.00	0.00
14,500.00	89.97	180.20	7,097.16	-7,971.34	2,397.35	7,962.93	0.00	0.00	0.00
14,600.00	89.97	180.20	7,097.21	-8,071.34	2,397.00	8,062.93	0.00	0.00	0.00
14,700.00	89.97	180.20	7,097.25	-8,171.34	2,396.64	8,162.93	0.00	0.00	0.00
14,800.00	89.97	180.20	7,097.30	-8,271.34	2,396.29	8,262.93	0.00	0.00	0.00
14,900.00	89.97	180.20	7,097.35	-8,371.34	2,395.93	8,362.93	0.00	0.00	0.00
15,000.00	89.97	180.20	7,097.40	-8,471.34	2,395.58	8,462.93	0.00	0.00	0.00
15,100.00	89.97	180.20	7,097.45	-8,571.34	2,395.23	8,562.93	0.00	0.00	0.00
15,200.00	89.97	180.20	7,097.50	-8,671.34	2,394.87	8,662.93	0.00	0.00	0.00
15,300.00	89.97	180.20	7,097.54	-8,771.34	2,394.52	8,762.93	0.00	0.00	0.00
15,400.00	89.97	180.20	7,097.59	-8,871.34	2,394.16	8,862.93	0.00	0.00	0.00
15,500.00	89.97	180.20	7,097.64	-8,971.34	2,393.81	8,962.93	0.00	0.00	0.00
15,600.00	89.97	180.20	7,097.69	-9,071.34	2,393.45	9,062.93	0.00	0.00	0.00
15,700.00	89.97	180.20	7,097.74	-9,171.34	2,393.10	9,162.93	0.00	0.00	0.00
15,800.00	89.97	180.20	7,097.79	-9,271.34	2,392.74	9,262.93	0.00	0.00	0.00
15,900.00	89.97	180.20	7,097.84	-9,371.34	2,392.39	9,362.93	0.00	0.00	0.00
16,000.00	89.97	180.20	7,097.88	-9,471.33	2,392.03	9,462.93	0.00	0.00	0.00
16,100.00	89.97	180.20	7,097.93	-9,571.33	2,391.68	9,562.93	0.00	0.00	0.00
16,200.00	89.97	180.20	7,097.98	-9,671.33	2,391.32	9,662.93	0.00	0.00	0.00
16,300.00	89.97	180.20	7,098.03	-9,771.33	2,390.97	9,762.93	0.00	0.00	0.00
16,400.00	89.97	180.20	7,098.08	-9,871.33	2,390.61	9,862.93	0.00	0.00	0.00
16,500.00	89.97	180.20	7,098.13	-9,971.33	2,390.26	9,962.93	0.00	0.00	0.00
16,600.00	89.97	180.20	7,098.18	-10,071.33	2,389.90	10,062.93	0.00	0.00	0.00
16,700.00	89.97	180.20	7,098.22	-10,171.33	2,389.55	10,162.93	0.00	0.00	0.00
16,800.00	89.97	180.20	7,098.27	-10,271.33	2,389.19	10,262.93	0.00	0.00	0.00
16,900.00	89.97	180.20	7,098.32	-10,371.33	2,388.84	10,362.93	0.00	0.00	0.00
17,000.00	89.97	180.20	7,098.37	-10,471.33	2,388.48	10,462.93	0.00	0.00	0.00
17,100.00	89.97	180.20	7,098.42	-10,571.33	2,388.13	10,562.93	0.00	0.00	0.00
17,200.00	89.97	180.20	7,098.47	-10,671.33	2,387.77	10,662.93	0.00	0.00	0.00
17,300.00	89.97	180.20	7,098.51	-10,771.33	2,387.42	10,762.93	0.00	0.00	0.00
17,400.00	89.97	180.20	7,098.56	-10,871.33	2,387.06	10,862.93	0.00	0.00	0.00
17,500.00	89.97	180.20	7,098.61	-10,971.32	2,386.71	10,962.93	0.00	0.00	0.00
17,600.00	89.97	180.20	7,098.66	-11,071.32	2,386.35	11,062.93	0.00	0.00	0.00
17,700.00	89.97	180.20	7,098.71	-11,171.32	2,386.00	11,162.93	0.00	0.00	0.00
17,800.00	89.97	180.20	7,098.76	-11,271.32	2,385.64	11,262.93	0.00	0.00	0.00
17,900.00	89.97	180.20	7,098.81	-11,371.32	2,385.29	11,362.93	0.00	0.00	0.00
18,000.00	89.97	180.20	7,098.85	-11,471.32	2,384.94	11,462.93	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well LABRISA 35-9HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB = 17' @ 4986.00usft (RIG)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB = 17' @ 4986.00usft (RIG)
Site:	2N-65W-35 LABRISA 11-35HZ PAD	North Reference:	True
Well:	LABRISA 35-9HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Permit Rev-1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
18,100.00	89.97	180.20	7,098.90	-11,571.32	2,384.58	11,562.93	0.00	0.00	0.00	
18,200.00	89.97	180.20	7,098.95	-11,671.32	2,384.23	11,662.93	0.00	0.00	0.00	
18,301.71	89.97	180.20	7,099.00	-11,773.03	2,383.86	11,764.64	0.00	0.00	0.00	
TD Well @ 18301.71ft - 5.5" CSG										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
2,083.63	2,017.00	9 5/8"	9-5/8	13-1/2	
18,301.71	7,099.00	5.5" CSG	5-1/2	7-7/8	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,503.05	1,479.00	Fox Hills				
4,336.02	4,094.00	Parkman				
4,715.57	4,444.00	Sussex				
7,412.40	6,887.00	Sharon Springs				
7,450.50	6,912.00	Niobrara				
7,654.43	7,021.00	Nio B				
7,924.96	7,091.00	Nio C				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
219.00	219.00	0.00	0.00	Begin Nudge @ 219.00ft	
1,736.33	1,696.74	-96.64	281.29	Hold Tangent @ 1736.33ft	
6,957.29	6,511.16	-752.90	2,191.55	KOP @ 6957.29ft :: DLS = 8"/100'	
7,992.64	7,094.00	-1,464.03	2,420.44	End Build @ 7992.64ft	
18,301.71	7,099.00	-11,773.03	2,383.86	TD Well @ 18301.71ft	