

US ROCKIES WATTENBERG PLANNING

**WELD-NAD83-UTMFT13N
2N-65W-25 Zelda 29-25HZ Pad
ZELDA 25-2HZ**

Plan A

Plan: Permit Rev-1

SHL Latitude/Longitude: 40.115731/-104.617547
Survey Program: MWD+IFR+MSA

Standard Planning Report

21 August, 2017

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well ZELDA 25-2HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB = 17' @ 4920.00usft (Drilling Rig)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB = 17' @ 4920.00usft (Drilling Rig)
Site:	2N-65W-25 Zelda 29-25HZ Pad	North Reference:	True
Well:	ZELDA 25-2HZ	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-25 Zelda 29-25HZ Pad				
Site Position:		Northing:	14,569,106.11 usft	Latitude:	40.115731
From:	Lat/Long	Easting:	1,747,327.27 usft	Longitude:	-104.617600
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.25 °

Well	ZELDA 25-2HZ					
Well Position	+N/-S	0.00 usft	Northing:	14,569,106.17 usft	Latitude:	40.115731
	+E/-W	14.82 usft	Easting:	1,747,342.09 usft	Longitude:	-104.617547
Position Uncertainty		3.28 usft	Wellhead Elevation:		Ground Level:	4,903.00 usft

Wellbore	Plan A				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/16/2017	7.93	66.63	52,347.21825589

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	179.65	

Plan Survey Tool Program		Date	8/21/2017		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	1,500.00	Permit Rev-1 (Plan A)	APC_ISCWSA REV 2 MWD+II Fixed:v2:crustal field declinatio	
2	1,500.00	17,627.38	Permit Rev-1 (Plan A)	APC_ISCWSA REV 2 MWD+II Fixed:v2:Rockies, crustal dec +	

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Well:	ZELDA 25-2HZ	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	
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00	
983.33	11.00	275.00	978.84	6.12	-69.91	1.50	1.50	0.00	275.00	
3,743.33	11.00	275.00	3,688.13	52.02	-594.54	0.00	0.00	0.00	0.00	
4,293.33	0.00	0.00	4,234.76	56.60	-646.97	2.00	-2.00	15.45	180.00	
6,598.96	0.00	0.00	6,540.39	56.60	-646.97	0.00	0.00	0.00	0.00	
7,601.76	90.25	180.05	7,177.00	-582.81	-647.48	9.00	9.00	-17.95	180.05	
13,999.95	90.25	180.05	7,148.92	-6,980.94	-652.57	0.00	0.00	0.00	0.00	ZELDA 25-2HZ_tgt
14,057.86	90.25	178.89	7,148.67	-7,038.84	-652.03	2.00	0.00	-2.00	-90.00	
17,627.38	90.25	178.89	7,133.00	-10,607.66	-582.72	0.00	0.00	0.00	0.00	ZELDA 25-2HZ_BHL

Corporate Planning Report

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Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB = 17' @ 4920.00usft (Drilling Rig)
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Well:	ZELDA 25-2HZ	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	0.00
100.00	0.00	0.00	100.00	0.00	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	0.00
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1.50										
300.00	0.75	275.00	300.00	0.03	-0.33	-0.03	1.50	1.50		0.00
400.00	2.25	275.00	399.96	0.26	-2.93	-0.27	1.50	1.50		0.00
500.00	3.75	275.00	499.82	0.71	-8.15	-0.76	1.50	1.50		0.00
600.00	5.25	275.00	599.51	1.40	-15.96	-1.49	1.50	1.50		0.00
700.00	6.75	275.00	698.96	2.31	-26.38	-2.47	1.50	1.50		0.00
800.00	8.25	275.00	798.10	3.45	-39.38	-3.69	1.50	1.50		0.00
900.00	9.75	275.00	896.87	4.81	-54.96	-5.14	1.50	1.50		0.00
983.33	11.00	275.00	978.84	6.12	-69.91	-6.54	1.50	1.50		0.00
Start 2760.00 hold at 983.33 MD										
1,000.00	11.00	275.00	995.20	6.39	-73.08	-6.84	0.00	0.00		0.00
1,100.00	11.00	275.00	1,093.36	8.06	-92.09	-8.62	0.00	0.00		0.00
1,200.00	11.00	275.00	1,191.52	9.72	-111.10	-10.40	0.00	0.00		0.00
1,300.00	11.00	275.00	1,289.69	11.38	-130.10	-12.18	0.00	0.00		0.00
1,383.86	11.00	275.00	1,372.00	12.78	-146.04	-13.67	0.00	0.00		0.00
Fox Hills										
1,400.00	11.00	275.00	1,387.85	13.05	-149.11	-13.96	0.00	0.00		0.00
1,500.00	11.00	275.00	1,486.01	14.71	-168.12	-15.74	0.00	0.00		0.00
1,514.25	11.00	275.00	1,500.00	14.95	-170.83	-15.99	0.00	0.00		0.00
9 5/8" Csg										
1,600.00	11.00	275.00	1,584.17	16.37	-187.13	-17.51	0.00	0.00		0.00
1,700.00	11.00	275.00	1,682.34	18.03	-206.14	-19.29	0.00	0.00		0.00
1,800.00	11.00	275.00	1,780.50	19.70	-225.15	-21.07	0.00	0.00		0.00
1,900.00	11.00	275.00	1,878.66	21.36	-244.15	-22.85	0.00	0.00		0.00
2,000.00	11.00	275.00	1,976.82	23.02	-263.16	-24.63	0.00	0.00		0.00
2,100.00	11.00	275.00	2,074.99	24.69	-282.17	-26.41	0.00	0.00		0.00
2,200.00	11.00	275.00	2,173.15	26.35	-301.18	-28.19	0.00	0.00		0.00
2,300.00	11.00	275.00	2,271.31	28.01	-320.19	-29.97	0.00	0.00		0.00
2,400.00	11.00	275.00	2,369.48	29.68	-339.20	-31.75	0.00	0.00		0.00
2,500.00	11.00	275.00	2,467.64	31.34	-358.20	-33.53	0.00	0.00		0.00
2,600.00	11.00	275.00	2,565.80	33.00	-377.21	-35.31	0.00	0.00		0.00
2,700.00	11.00	275.00	2,663.96	34.66	-396.22	-37.08	0.00	0.00		0.00
2,800.00	11.00	275.00	2,762.13	36.33	-415.23	-38.86	0.00	0.00		0.00
2,900.00	11.00	275.00	2,860.29	37.99	-434.24	-40.64	0.00	0.00		0.00
3,000.00	11.00	275.00	2,958.45	39.65	-453.25	-42.42	0.00	0.00		0.00
3,100.00	11.00	275.00	3,056.61	41.32	-472.25	-44.20	0.00	0.00		0.00
3,200.00	11.00	275.00	3,154.78	42.98	-491.26	-45.98	0.00	0.00		0.00
3,300.00	11.00	275.00	3,252.94	44.64	-510.27	-47.76	0.00	0.00		0.00
3,400.00	11.00	275.00	3,351.10	46.31	-529.28	-49.54	0.00	0.00		0.00
3,500.00	11.00	275.00	3,449.27	47.97	-548.29	-51.32	0.00	0.00		0.00
3,600.00	11.00	275.00	3,547.43	49.63	-567.30	-53.10	0.00	0.00		0.00
3,700.00	11.00	275.00	3,645.59	51.29	-586.30	-54.88	0.00	0.00		0.00
3,743.33	11.00	275.00	3,688.13	52.02	-594.54	-55.65	0.00	0.00		0.00
Start DLS 2.00 TFO 180.00										
3,800.00	9.87	275.00	3,743.86	52.91	-604.76	-56.60	2.00	-2.00		0.00
3,900.00	7.87	275.00	3,842.66	54.25	-620.12	-58.04	2.00	-2.00		0.00
4,000.00	5.87	275.00	3,941.93	55.30	-632.03	-59.16	2.00	-2.00		0.00
4,025.19	5.36	275.00	3,967.00	55.51	-634.48	-59.38	2.00	-2.00		0.00
Parkman										

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Planned Survey									
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4,100.00	3.87	275.00	4,041.57	56.03	-640.48	-59.95	2.00	-2.00	0.00
4,200.00	1.87	275.00	4,141.44	56.47	-645.46	-60.41	2.00	-2.00	0.00
4,293.33	0.00	0.00	4,234.76	56.60	-646.97	-60.55	2.00	-2.00	91.07
Start 2305.63 hold at 4293.33 MD									
4,300.00	0.00	0.00	4,241.42	56.60	-646.97	-60.55	0.00	0.00	0.00
4,400.00	0.00	0.00	4,341.42	56.60	-646.97	-60.55	0.00	0.00	0.00
4,478.58	0.00	0.00	4,420.00	56.60	-646.97	-60.55	0.00	0.00	0.00
Sussex									
4,500.00	0.00	0.00	4,441.42	56.60	-646.97	-60.55	0.00	0.00	0.00
4,600.00	0.00	0.00	4,541.42	56.60	-646.97	-60.55	0.00	0.00	0.00
4,700.00	0.00	0.00	4,641.42	56.60	-646.97	-60.55	0.00	0.00	0.00
4,800.00	0.00	0.00	4,741.42	56.60	-646.97	-60.55	0.00	0.00	0.00
4,900.00	0.00	0.00	4,841.42	56.60	-646.97	-60.55	0.00	0.00	0.00
5,000.00	0.00	0.00	4,941.42	56.60	-646.97	-60.55	0.00	0.00	0.00
5,100.00	0.00	0.00	5,041.42	56.60	-646.97	-60.55	0.00	0.00	0.00
5,200.00	0.00	0.00	5,141.42	56.60	-646.97	-60.55	0.00	0.00	0.00
5,300.00	0.00	0.00	5,241.42	56.60	-646.97	-60.55	0.00	0.00	0.00
5,400.00	0.00	0.00	5,341.42	56.60	-646.97	-60.55	0.00	0.00	0.00
5,500.00	0.00	0.00	5,441.42	56.60	-646.97	-60.55	0.00	0.00	0.00
5,600.00	0.00	0.00	5,541.42	56.60	-646.97	-60.55	0.00	0.00	0.00
5,700.00	0.00	0.00	5,641.42	56.60	-646.97	-60.55	0.00	0.00	0.00
5,800.00	0.00	0.00	5,741.42	56.60	-646.97	-60.55	0.00	0.00	0.00
5,900.00	0.00	0.00	5,841.42	56.60	-646.97	-60.55	0.00	0.00	0.00
6,000.00	0.00	0.00	5,941.42	56.60	-646.97	-60.55	0.00	0.00	0.00
6,100.00	0.00	0.00	6,041.42	56.60	-646.97	-60.55	0.00	0.00	0.00
6,200.00	0.00	0.00	6,141.42	56.60	-646.97	-60.55	0.00	0.00	0.00
6,300.00	0.00	0.00	6,241.42	56.60	-646.97	-60.55	0.00	0.00	0.00
6,400.00	0.00	0.00	6,341.42	56.60	-646.97	-60.55	0.00	0.00	0.00
6,500.00	0.00	0.00	6,441.42	56.60	-646.97	-60.55	0.00	0.00	0.00
6,598.96	0.00	0.00	6,540.39	56.60	-646.97	-60.55	0.00	0.00	0.00
KOP @ 6598.96ft									
6,600.00	0.09	180.05	6,541.42	56.60	-646.97	-60.55	9.00	9.00	-17,358.89
6,700.00	9.09	180.05	6,641.00	48.60	-646.98	-52.55	9.00	9.00	0.00
6,800.00	18.09	180.05	6,738.10	25.12	-647.00	-29.08	9.00	9.00	0.00
6,900.00	27.09	180.05	6,830.33	-13.26	-647.03	9.30	9.00	9.00	0.00
7,000.00	36.09	180.05	6,915.42	-65.59	-647.07	61.64	9.00	9.00	0.00
7,009.43	36.94	180.05	6,923.00	-71.20	-647.08	67.25	9.00	9.00	0.00
Sharon Springs									
7,061.11	41.59	180.05	6,963.00	-103.91	-647.10	99.95	9.00	9.00	0.00
Niobrara									
7,100.00	45.09	180.05	6,991.28	-130.59	-647.12	126.64	9.00	9.00	0.00
7,150.00	49.59	180.05	7,025.15	-167.35	-647.15	163.40	9.00	9.00	0.00
DLS = 9°/100'									
7,155.98	50.13	180.05	7,029.00	-171.92	-647.16	167.97	9.00	9.00	0.00
Nio B									
7,200.00	54.09	180.05	7,056.03	-206.66	-647.18	202.70	9.00	9.00	0.00
7,300.00	63.09	180.05	7,108.09	-291.92	-647.25	287.96	9.00	9.00	0.00
7,400.00	72.09	180.05	7,146.17	-384.28	-647.33	380.32	9.00	9.00	0.00
7,480.42	79.33	180.05	7,166.00	-462.16	-647.39	458.19	9.00	9.00	0.00
Nio C									
7,500.00	81.09	180.05	7,169.33	-481.45	-647.40	477.49	9.00	9.00	0.00
7,600.00	90.09	180.05	7,177.00	-581.05	-647.48	577.09	9.00	9.00	0.00
7,601.76	90.25	180.05	7,177.00	-582.81	-647.48	578.85	8.99	8.99	0.00

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Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB = 17' @ 4920.00usft (Drilling Rig)
Site:	2N-65W-25 Zelda 29-25HZ Pad	North Reference:	True
Well:	ZELDA 25-2HZ	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)
End Build @ 7601.76ft - Top of Production									
7,700.00	90.25	180.05	7,176.57	-681.05	-647.56	677.08	0.00	0.00	0.00
7,800.00	90.25	180.05	7,176.13	-781.05	-647.64	777.08	0.00	0.00	0.00
7,900.00	90.25	180.05	7,175.69	-881.05	-647.72	877.08	0.00	0.00	0.00
8,000.00	90.25	180.05	7,175.25	-981.05	-647.80	977.07	0.00	0.00	0.00
8,100.00	90.25	180.05	7,174.81	-1,081.05	-647.88	1,077.07	0.00	0.00	0.00
8,200.00	90.25	180.05	7,174.37	-1,181.05	-647.96	1,177.07	0.00	0.00	0.00
8,300.00	90.25	180.05	7,173.93	-1,281.05	-648.04	1,277.06	0.00	0.00	0.00
8,400.00	90.25	180.05	7,173.50	-1,381.05	-648.12	1,377.06	0.00	0.00	0.00
8,500.00	90.25	180.05	7,173.06	-1,481.04	-648.20	1,477.06	0.00	0.00	0.00
8,600.00	90.25	180.05	7,172.62	-1,581.04	-648.28	1,577.05	0.00	0.00	0.00
8,700.00	90.25	180.05	7,172.18	-1,681.04	-648.36	1,677.05	0.00	0.00	0.00
8,800.00	90.25	180.05	7,171.74	-1,781.04	-648.44	1,777.05	0.00	0.00	0.00
8,900.00	90.25	180.05	7,171.30	-1,881.04	-648.52	1,877.04	0.00	0.00	0.00
9,000.00	90.25	180.05	7,170.86	-1,981.04	-648.59	1,977.04	0.00	0.00	0.00
9,100.00	90.25	180.05	7,170.42	-2,081.04	-648.67	2,077.04	0.00	0.00	0.00
9,200.00	90.25	180.05	7,169.99	-2,181.04	-648.75	2,177.03	0.00	0.00	0.00
9,300.00	90.25	180.05	7,169.55	-2,281.04	-648.83	2,277.03	0.00	0.00	0.00
9,400.00	90.25	180.05	7,169.11	-2,381.04	-648.91	2,377.03	0.00	0.00	0.00
9,500.00	90.25	180.05	7,168.67	-2,481.03	-648.99	2,477.02	0.00	0.00	0.00
9,600.00	90.25	180.05	7,168.23	-2,581.03	-649.07	2,577.02	0.00	0.00	0.00
9,700.00	90.25	180.05	7,167.79	-2,681.03	-649.15	2,677.02	0.00	0.00	0.00
9,800.00	90.25	180.05	7,167.35	-2,781.03	-649.23	2,777.01	0.00	0.00	0.00
9,900.00	90.25	180.05	7,166.91	-2,881.03	-649.31	2,877.01	0.00	0.00	0.00
10,000.00	90.25	180.05	7,166.47	-2,981.03	-649.39	2,977.01	0.00	0.00	0.00
10,100.00	90.25	180.05	7,166.04	-3,081.03	-649.47	3,077.00	0.00	0.00	0.00
10,200.00	90.25	180.05	7,165.60	-3,181.03	-649.55	3,177.00	0.00	0.00	0.00
10,300.00	90.25	180.05	7,165.16	-3,281.03	-649.63	3,277.00	0.00	0.00	0.00
10,400.00	90.25	180.05	7,164.72	-3,381.03	-649.71	3,376.99	0.00	0.00	0.00
10,500.00	90.25	180.05	7,164.28	-3,481.02	-649.79	3,476.99	0.00	0.00	0.00
10,600.00	90.25	180.05	7,163.84	-3,581.02	-649.87	3,576.99	0.00	0.00	0.00
10,700.00	90.25	180.05	7,163.40	-3,681.02	-649.95	3,676.98	0.00	0.00	0.00
10,800.00	90.25	180.05	7,162.96	-3,781.02	-650.03	3,776.98	0.00	0.00	0.00
10,900.00	90.25	180.05	7,162.52	-3,881.02	-650.11	3,876.98	0.00	0.00	0.00
11,000.00	90.25	180.05	7,162.09	-3,981.02	-650.18	3,976.97	0.00	0.00	0.00
11,100.00	90.25	180.05	7,161.65	-4,081.02	-650.26	4,076.97	0.00	0.00	0.00
11,200.00	90.25	180.05	7,161.21	-4,181.02	-650.34	4,176.97	0.00	0.00	0.00
11,300.00	90.25	180.05	7,160.77	-4,281.02	-650.42	4,276.96	0.00	0.00	0.00
11,400.00	90.25	180.05	7,160.33	-4,381.02	-650.50	4,376.96	0.00	0.00	0.00
11,500.00	90.25	180.05	7,159.89	-4,481.01	-650.58	4,476.96	0.00	0.00	0.00
11,600.00	90.25	180.05	7,159.45	-4,581.01	-650.66	4,576.95	0.00	0.00	0.00
11,700.00	90.25	180.05	7,159.01	-4,681.01	-650.74	4,676.95	0.00	0.00	0.00
11,800.00	90.25	180.05	7,158.57	-4,781.01	-650.82	4,776.95	0.00	0.00	0.00
11,900.00	90.25	180.05	7,158.14	-4,881.01	-650.90	4,876.94	0.00	0.00	0.00
12,000.00	90.25	180.05	7,157.70	-4,981.01	-650.98	4,976.94	0.00	0.00	0.00
12,100.00	90.25	180.05	7,157.26	-5,081.01	-651.06	5,076.94	0.00	0.00	0.00
12,200.00	90.25	180.05	7,156.82	-5,181.01	-651.14	5,176.93	0.00	0.00	0.00
12,300.00	90.25	180.05	7,156.38	-5,281.01	-651.22	5,276.93	0.00	0.00	0.00
12,400.00	90.25	180.05	7,155.94	-5,381.01	-651.30	5,376.93	0.00	0.00	0.00
12,500.00	90.25	180.05	7,155.50	-5,481.00	-651.38	5,476.92	0.00	0.00	0.00
12,600.00	90.25	180.05	7,155.06	-5,581.00	-651.46	5,576.92	0.00	0.00	0.00
12,700.00	90.25	180.05	7,154.63	-5,681.00	-651.54	5,676.92	0.00	0.00	0.00
12,800.00	90.25	180.05	7,154.19	-5,781.00	-651.62	5,776.91	0.00	0.00	0.00
12,900.00	90.25	180.05	7,153.75	-5,881.00	-651.70	5,876.91	0.00	0.00	0.00

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well ZELDA 25-2HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB = 17' @ 4920.00usft (Drilling Rig)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB = 17' @ 4920.00usft (Drilling Rig)
Site:	2N-65W-25 Zelda 29-25HZ Pad	North Reference:	True
Well:	ZELDA 25-2HZ	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)
13,000.00	90.25	180.05	7,153.31	-5,981.00	-651.78	5,976.91	0.00	0.00	0.00
13,100.00	90.25	180.05	7,152.87	-6,081.00	-651.85	6,076.90	0.00	0.00	0.00
13,200.00	90.25	180.05	7,152.43	-6,181.00	-651.93	6,176.90	0.00	0.00	0.00
13,300.00	90.25	180.05	7,151.99	-6,281.00	-652.01	6,276.90	0.00	0.00	0.00
13,400.00	90.25	180.05	7,151.55	-6,381.00	-652.09	6,376.89	0.00	0.00	0.00
13,500.00	90.25	180.05	7,151.11	-6,480.99	-652.17	6,476.89	0.00	0.00	0.00
13,600.00	90.25	180.05	7,150.68	-6,580.99	-652.25	6,576.89	0.00	0.00	0.00
13,700.00	90.25	180.05	7,150.24	-6,680.99	-652.33	6,676.88	0.00	0.00	0.00
13,800.00	90.25	180.05	7,149.80	-6,780.99	-652.41	6,776.88	0.00	0.00	0.00
13,900.00	90.25	180.05	7,149.36	-6,880.99	-652.49	6,876.88	0.00	0.00	0.00
13,999.95	90.25	180.05	7,148.92	-6,980.94	-652.57	6,976.82	0.00	0.00	0.00
Begin Turn to BHL @ 13999.95ft									
14,000.00	90.25	180.05	7,148.92	-6,980.99	-652.57	6,976.87	0.00	0.00	0.00
14,057.86	90.25	178.89	7,148.67	-7,038.85	-652.03	7,034.73	2.00	0.00	-2.00
End Turn @ 14057.86ft									
14,100.00	90.25	178.89	7,148.48	-7,080.98	-651.21	7,076.87	0.00	0.00	0.00
14,200.00	90.25	178.89	7,148.04	-7,180.96	-649.27	7,176.86	0.00	0.00	0.00
14,300.00	90.25	178.89	7,147.60	-7,280.94	-647.33	7,276.85	0.00	0.00	0.00
14,400.00	90.25	178.89	7,147.16	-7,380.92	-645.39	7,376.84	0.00	0.00	0.00
14,500.00	90.25	178.89	7,146.73	-7,480.90	-643.45	7,476.83	0.00	0.00	0.00
14,600.00	90.25	178.89	7,146.29	-7,580.88	-641.50	7,576.82	0.00	0.00	0.00
14,700.00	90.25	178.89	7,145.85	-7,680.86	-639.56	7,676.81	0.00	0.00	0.00
14,800.00	90.25	178.89	7,145.41	-7,780.84	-637.62	7,776.80	0.00	0.00	0.00
14,900.00	90.25	178.89	7,144.97	-7,880.82	-635.68	7,876.79	0.00	0.00	0.00
15,000.00	90.25	178.89	7,144.53	-7,980.80	-633.74	7,976.78	0.00	0.00	0.00
15,100.00	90.25	178.89	7,144.09	-8,080.78	-631.80	8,076.77	0.00	0.00	0.00
15,200.00	90.25	178.89	7,143.65	-8,180.76	-629.85	8,176.76	0.00	0.00	0.00
15,300.00	90.25	178.89	7,143.21	-8,280.74	-627.91	8,276.75	0.00	0.00	0.00
15,400.00	90.25	178.89	7,142.78	-8,380.72	-625.97	8,376.74	0.00	0.00	0.00
15,500.00	90.25	178.89	7,142.34	-8,480.70	-624.03	8,476.73	0.00	0.00	0.00
15,600.00	90.25	178.89	7,141.90	-8,580.68	-622.09	8,576.72	0.00	0.00	0.00
15,700.00	90.25	178.89	7,141.46	-8,680.66	-620.14	8,676.71	0.00	0.00	0.00
15,800.00	90.25	178.89	7,141.02	-8,780.64	-618.20	8,776.70	0.00	0.00	0.00
15,900.00	90.25	178.89	7,140.58	-8,880.62	-616.26	8,876.69	0.00	0.00	0.00
16,000.00	90.25	178.89	7,140.14	-8,980.60	-614.32	8,976.68	0.00	0.00	0.00
16,100.00	90.25	178.89	7,139.70	-9,080.58	-612.38	9,076.67	0.00	0.00	0.00
16,200.00	90.25	178.89	7,139.26	-9,180.56	-610.44	9,176.66	0.00	0.00	0.00
16,300.00	90.25	178.89	7,138.83	-9,280.54	-608.49	9,276.65	0.00	0.00	0.00
16,400.00	90.25	178.89	7,138.39	-9,380.52	-606.55	9,376.64	0.00	0.00	0.00
16,500.00	90.25	178.89	7,137.95	-9,480.50	-604.61	9,476.63	0.00	0.00	0.00
16,600.00	90.25	178.89	7,137.51	-9,580.48	-602.67	9,576.62	0.00	0.00	0.00
16,700.00	90.25	178.89	7,137.07	-9,680.46	-600.73	9,676.61	0.00	0.00	0.00
16,800.00	90.25	178.89	7,136.63	-9,780.44	-598.79	9,776.60	0.00	0.00	0.00
16,900.00	90.25	178.89	7,136.19	-9,880.42	-596.84	9,876.59	0.00	0.00	0.00
17,000.00	90.25	178.89	7,135.75	-9,980.40	-594.90	9,976.58	0.00	0.00	0.00
17,100.00	90.25	178.89	7,135.31	-10,080.38	-592.96	10,076.57	0.00	0.00	0.00
17,200.00	90.25	178.89	7,134.88	-10,180.36	-591.02	10,176.56	0.00	0.00	0.00
17,300.00	90.25	178.89	7,134.44	-10,280.34	-589.08	10,276.55	0.00	0.00	0.00
17,400.00	90.25	178.89	7,134.00	-10,380.32	-587.14	10,376.54	0.00	0.00	0.00
17,500.00	90.25	178.89	7,133.56	-10,480.30	-585.19	10,476.53	0.00	0.00	0.00
17,600.00	90.25	178.89	7,133.12	-10,580.28	-583.25	10,576.52	0.00	0.00	0.00
17,627.38	90.25	178.89	7,133.00	-10,607.66	-582.72	10,603.90	0.00	0.00	0.00
TD Well @ 17627.38ft									

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well ZELDA 25-2HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB = 17' @ 4920.00usft (Drilling Rig)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB = 17' @ 4920.00usft (Drilling Rig)
Site:	2N-65W-25 Zelda 29-25HZ Pad	North Reference:	True
Well:	ZELDA 25-2HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Permit Rev-1		

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,514.25	1,500.00	9 5/8" Csg	9-5/8	13-1/2	
7,601.76	7,177.00	Top of Production	5-1/2	7-7/8	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,383.86	1,372.00	Fox Hills				
4,025.19	3,967.00	Parkman				
4,478.58	4,420.00	Sussex				
7,009.43	6,923.00	Sharon Springs				
7,061.11	6,963.00	Niobrara				
7,155.98	7,029.00	Nio B				
7,480.42	7,166.00	Nio C				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			Comment
		+N/-S (usft)	+E/-W (usft)		
250.00	250.00	0.00	0.00		Start Build 1.50
983.33	978.84	6.12	-69.91		Start 2760.00 hold at 983.33 MD
3,743.33	3,688.13	52.02	-594.54		Start DLS 2.00 TFO 180.00
4,293.33	4,234.76	56.60	-646.97		Start 2305.63 hold at 4293.33 MD
6,598.96	6,540.39	56.60	-646.97		KOP @ 6598.96ft
7,150.00	7,025.15	-167.35	-647.15		DLS = 9°/100'
7,601.76	7,177.00	-582.81	-647.48		End Build @ 7601.76ft
13,999.95	7,148.92	-6,980.94	-652.57		Begin Turn to BHL @ 13999.95ft
14,057.86	7,148.67	-7,038.85	-652.03		End Turn @ 14057.86ft
17,627.38	7,133.00	-10,607.66	-582.72		TD Well @ 17627.38ft