

US ROCKIES WATTENBERG PLANNING

**WELD-NAD83-UTMFT13N
2N-65W-25 Zelda 29-25HZ Pad
ZELDA 25-8HZ**

Plan A

Plan: Permit Rev-1

SHL Latitude/Longitude: 40.115728/-104.617225
Survey Program: MWD+IFR

Standard Planning Report

21 August, 2017

Project: WELD-NAD83-UTMFT13N
Site: 2N-65W-25 Zelda 29-25HZ Pad
Well: ZELDA 25-8HZ
Wellbore: Plan A
Design: Permit Rev-1

US ROCKIES WATTENBERG PLANNING

CASING DETAILS

TVD	MD	Size
1500.00	1521.75	9-5/8
7162.00	7660.86	5-1/2

WELL DETAILS: ZELDA 25-8HZ

GL = 4903'

RKB = 17' @ 4920.00usft (Drilling Rig)

SECTION DETAILS

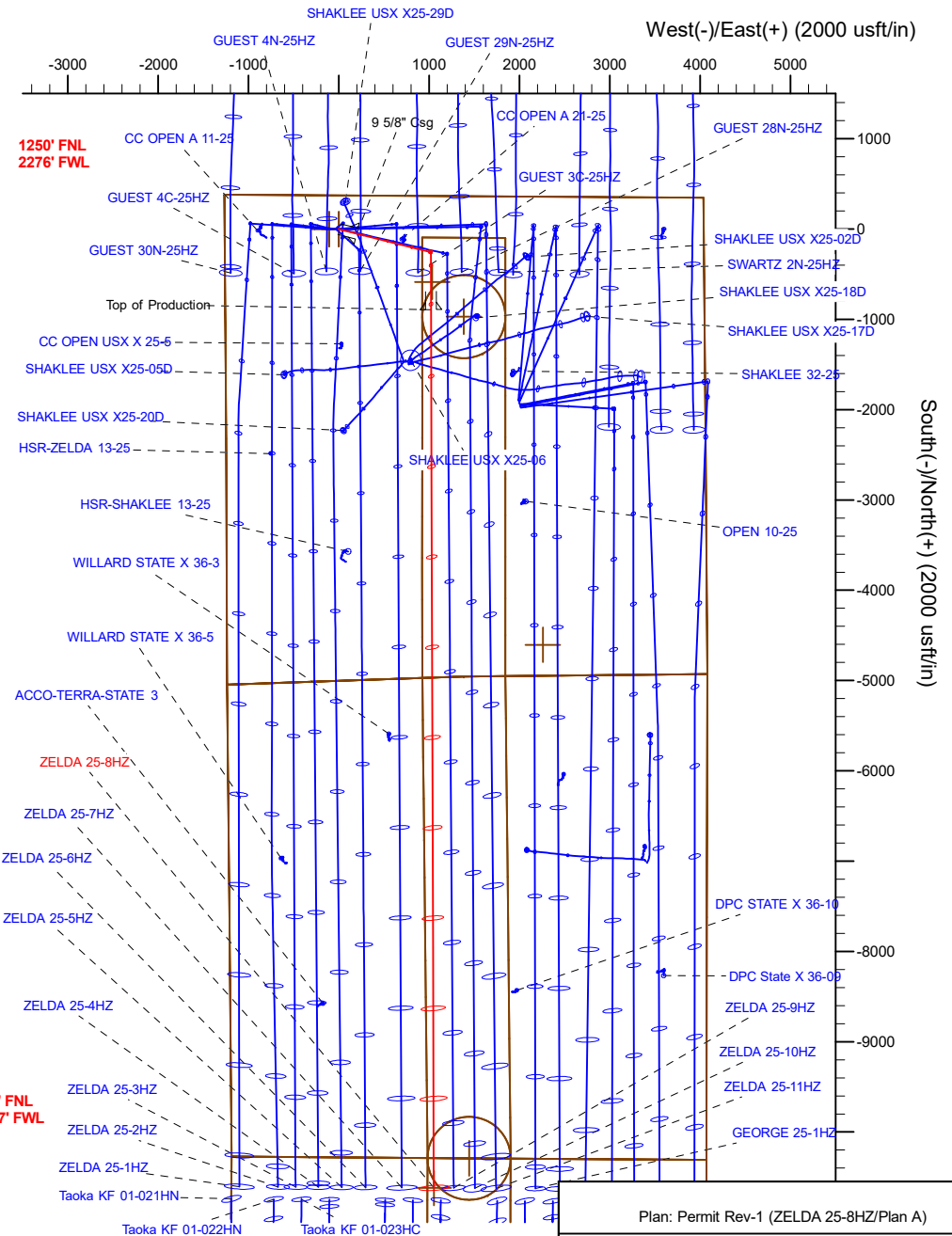
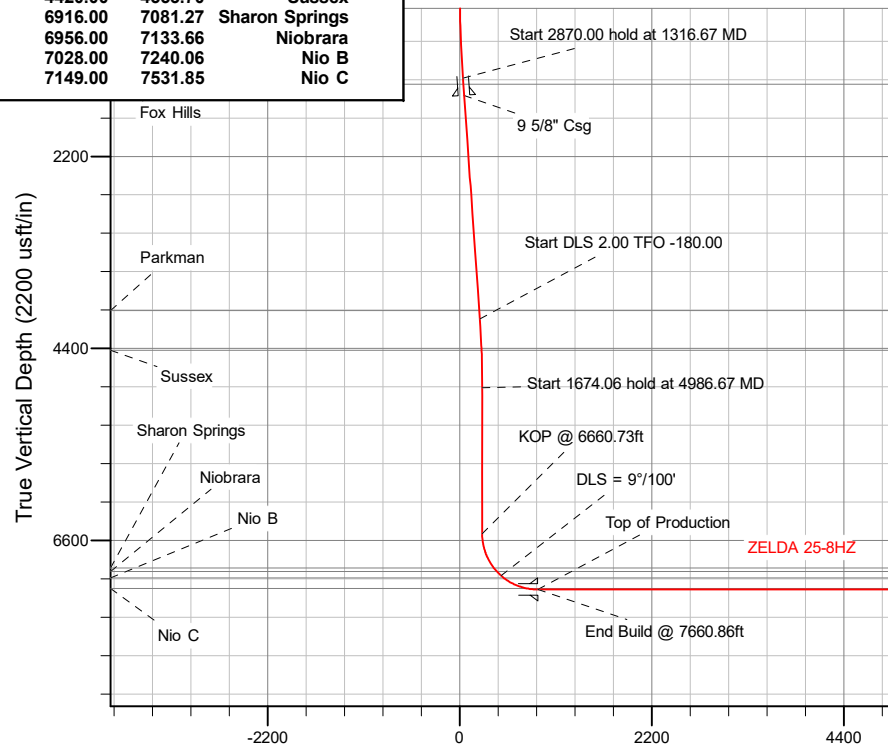
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	
3	1316.67	16.00	104.00	1302.86	-35.80	143.57	1.50	104.00	36.25	
4	4186.67	16.00	104.00	4061.68	-227.18	911.15	0.00	0.00	230.04	
5	4986.67	0.00	0.00	4851.32	-254.02	1018.84	2.00	-180.00	257.22	
6	6660.73	0.00	0.00	6525.38	-254.02	1018.84	0.00	0.00	257.22	
7	7660.86	90.01	179.82	7162.00	-890.77	1020.88	9.00	179.82	893.97	
8	17388.23	90.01	179.82	7160.00	-10618.10	1052.18	0.00	0.00	10621.35	ZELDA 25-8HZ_BHL

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
ZELDA 25-8HZ_SHL	0.00	0.00	0.00	40.115728	-104.617225
ZELDA 25-8HZ_BHL	7160.00	-10618.10	1052.18	40.086569	-104.613463

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1372.00	1388.60	Fox Hills
3967.00	4088.17	Parkman
4420.00	4553.70	Sussex
6916.00	7081.27	Sharon Springs
6956.00	7133.66	Niobrara
7028.00	7240.06	Nio B
7149.00	7531.85	Nio C



Plan: Permit Rev-1 (ZELDA 25-8HZ/Plan A)

Created By: _____ Date: 8/21/2017
Reviewed: _____ Date: _____

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well ZELDA 25-8HZ
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 25-8HZ	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 25-8HZ					
Well Position	+N/-S	-1.09 usft	Northing:	14,569,105.46 usft	Latitude:	40.115728
	+E/-W	104.84 usft	Easting:	1,747,432.12 usft	Longitude:	-104.617225
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	52,347.24909387

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	179.82	

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	17,388.23	Permit Rev-1 (Plan A)	APC_ISCWSA REV 2 MWD+II Fixed:v2:crustal field declinatio	

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 25-8HZ	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	
1,316.67	16.00	104.00	1,302.86	-35.80	143.57	1.50	1.50	0.00	104.00	
4,186.67	16.00	104.00	4,061.68	-227.18	911.15	0.00	0.00	0.00	0.00	
4,986.67	0.00	0.00	4,851.32	-254.02	1,018.84	2.00	-2.00	-13.00	-180.00	
6,660.73	0.00	0.00	6,525.38	-254.02	1,018.84	0.00	0.00	0.00	0.00	
7,660.86	90.01	179.82	7,162.00	-890.77	1,020.88	9.00	9.00	17.98	179.82	
17,388.23	90.01	179.82	7,160.00	-10,618.10	1,052.18	0.00	0.00	0.00	0.00	ZELDA 25-8HZ_BHL

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well ZELDA 25-8HZ
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 25-8HZ	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
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1.50									
300.00	0.75	104.00	300.00	-0.08	0.32	0.08	1.50	1.50	0.00
400.00	2.25	104.00	399.96	-0.71	2.86	0.72	1.50	1.50	0.00
500.00	3.75	104.00	499.82	-1.98	7.94	2.00	1.50	1.50	0.00
600.00	5.25	104.00	599.51	-3.88	15.55	3.93	1.50	1.50	0.00
700.00	6.75	104.00	698.96	-6.41	25.69	6.49	1.50	1.50	0.00
800.00	8.25	104.00	798.10	-9.56	38.35	9.68	1.50	1.50	0.00
900.00	9.75	104.00	896.87	-13.35	53.53	13.52	1.50	1.50	0.00
1,000.00	11.25	104.00	995.19	-17.76	71.21	17.98	1.50	1.50	0.00
1,100.00	12.75	104.00	1,093.00	-22.79	91.39	23.07	1.50	1.50	0.00
1,200.00	14.25	104.00	1,190.24	-28.43	114.04	28.79	1.50	1.50	0.00
1,300.00	15.75	104.00	1,286.83	-34.69	139.15	35.13	1.50	1.50	0.00
1,316.67	16.00	104.00	1,302.86	-35.80	143.57	36.25	1.50	1.50	0.00
Start 2870.00 hold at 1316.67 MD									
1,388.60	16.00	104.00	1,372.00	-40.59	162.81	41.10	0.00	0.00	0.00
Fox Hills									
1,400.00	16.00	104.00	1,382.96	-41.35	165.86	41.87	0.00	0.00	0.00
1,500.00	16.00	104.00	1,479.09	-48.02	192.61	48.63	0.00	0.00	0.00
1,521.75	16.00	104.00	1,500.00	-49.47	198.42	50.10	0.00	0.00	0.00
9 5/8" Csg									
1,600.00	16.00	104.00	1,575.21	-54.69	219.35	55.38	0.00	0.00	0.00
1,700.00	16.00	104.00	1,671.34	-61.36	246.10	62.13	0.00	0.00	0.00
1,800.00	16.00	104.00	1,767.47	-68.03	272.84	68.88	0.00	0.00	0.00
1,900.00	16.00	104.00	1,863.59	-74.70	299.59	75.64	0.00	0.00	0.00
2,000.00	16.00	104.00	1,959.72	-81.36	326.33	82.39	0.00	0.00	0.00
2,100.00	16.00	104.00	2,055.85	-88.03	353.08	89.14	0.00	0.00	0.00
2,200.00	16.00	104.00	2,151.97	-94.70	379.82	95.89	0.00	0.00	0.00
2,300.00	16.00	104.00	2,248.10	-101.37	406.57	102.65	0.00	0.00	0.00
2,400.00	16.00	104.00	2,344.22	-108.04	433.31	109.40	0.00	0.00	0.00
2,500.00	16.00	104.00	2,440.35	-114.70	460.06	116.15	0.00	0.00	0.00
2,600.00	16.00	104.00	2,536.48	-121.37	486.80	122.90	0.00	0.00	0.00
2,700.00	16.00	104.00	2,632.60	-128.04	513.55	129.65	0.00	0.00	0.00
2,800.00	16.00	104.00	2,728.73	-134.71	540.29	136.41	0.00	0.00	0.00
2,900.00	16.00	104.00	2,824.85	-141.38	567.04	143.16	0.00	0.00	0.00
3,000.00	16.00	104.00	2,920.98	-148.05	593.78	149.91	0.00	0.00	0.00
3,100.00	16.00	104.00	3,017.11	-154.71	620.53	156.66	0.00	0.00	0.00
3,200.00	16.00	104.00	3,113.23	-161.38	647.27	163.42	0.00	0.00	0.00
3,300.00	16.00	104.00	3,209.36	-168.05	674.02	170.17	0.00	0.00	0.00
3,400.00	16.00	104.00	3,305.49	-174.72	700.76	176.92	0.00	0.00	0.00
3,500.00	16.00	104.00	3,401.61	-181.39	727.51	183.67	0.00	0.00	0.00
3,600.00	16.00	104.00	3,497.74	-188.06	754.25	190.42	0.00	0.00	0.00
3,700.00	16.00	104.00	3,593.86	-194.72	781.00	197.18	0.00	0.00	0.00
3,800.00	16.00	104.00	3,689.99	-201.39	807.74	203.93	0.00	0.00	0.00
3,900.00	16.00	104.00	3,786.12	-208.06	834.49	210.68	0.00	0.00	0.00
4,000.00	16.00	104.00	3,882.24	-214.73	861.23	217.43	0.00	0.00	0.00
4,088.17	16.00	104.00	3,967.00	-220.61	884.81	223.39	0.00	0.00	0.00
Parkman									
4,100.00	16.00	104.00	3,978.37	-221.40	887.98	224.19	0.00	0.00	0.00
4,186.67	16.00	104.00	4,061.68	-227.18	911.15	230.04	0.00	0.00	0.00

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well ZELDA 25-8HZ
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 25-8HZ	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)
Start DLS 2.00 TFO -180.00									
4,200.00	15.73	104.00	4,074.50	-228.06	914.69	230.93	2.00	-2.00	0.00
4,300.00	13.73	104.00	4,171.21	-234.21	939.37	237.16	2.00	-2.00	0.00
4,400.00	11.73	104.00	4,268.75	-239.54	960.75	242.56	2.00	-2.00	0.00
4,500.00	9.73	104.00	4,366.99	-244.05	978.82	247.12	2.00	-2.00	0.00
4,553.70	8.66	104.00	4,420.00	-246.12	987.15	249.22	2.00	-2.00	0.00
Sussex									
4,600.00	7.73	104.00	4,465.83	-247.72	993.55	250.84	2.00	-2.00	0.00
4,700.00	5.73	104.00	4,565.13	-250.56	1,004.93	253.71	2.00	-2.00	0.00
4,800.00	3.73	104.00	4,664.79	-252.55	1,012.94	255.73	2.00	-2.00	0.00
4,900.00	1.73	104.00	4,764.67	-253.71	1,017.56	256.90	2.00	-2.00	0.00
4,986.67	0.00	0.00	4,851.32	-254.02	1,018.84	257.22	2.00	-2.00	-120.00
Start 1674.06 hold at 4986.67 MD									
5,000.00	0.00	0.00	4,864.65	-254.02	1,018.84	257.22	0.00	0.00	0.00
5,100.00	0.00	0.00	4,964.65	-254.02	1,018.84	257.22	0.00	0.00	0.00
5,200.00	0.00	0.00	5,064.65	-254.02	1,018.84	257.22	0.00	0.00	0.00
5,300.00	0.00	0.00	5,164.65	-254.02	1,018.84	257.22	0.00	0.00	0.00
5,400.00	0.00	0.00	5,264.65	-254.02	1,018.84	257.22	0.00	0.00	0.00
5,500.00	0.00	0.00	5,364.65	-254.02	1,018.84	257.22	0.00	0.00	0.00
5,600.00	0.00	0.00	5,464.65	-254.02	1,018.84	257.22	0.00	0.00	0.00
5,700.00	0.00	0.00	5,564.65	-254.02	1,018.84	257.22	0.00	0.00	0.00
5,800.00	0.00	0.00	5,664.65	-254.02	1,018.84	257.22	0.00	0.00	0.00
5,900.00	0.00	0.00	5,764.65	-254.02	1,018.84	257.22	0.00	0.00	0.00
6,000.00	0.00	0.00	5,864.65	-254.02	1,018.84	257.22	0.00	0.00	0.00
6,100.00	0.00	0.00	5,964.65	-254.02	1,018.84	257.22	0.00	0.00	0.00
6,200.00	0.00	0.00	6,064.65	-254.02	1,018.84	257.22	0.00	0.00	0.00
6,300.00	0.00	0.00	6,164.65	-254.02	1,018.84	257.22	0.00	0.00	0.00
6,400.00	0.00	0.00	6,264.65	-254.02	1,018.84	257.22	0.00	0.00	0.00
6,500.00	0.00	0.00	6,364.65	-254.02	1,018.84	257.22	0.00	0.00	0.00
6,600.00	0.00	0.00	6,464.65	-254.02	1,018.84	257.22	0.00	0.00	0.00
6,660.73	0.00	0.00	6,525.38	-254.02	1,018.84	257.22	0.00	0.00	0.00
KOP @ 6660.73ft									
6,700.00	3.53	179.82	6,564.63	-255.24	1,018.84	258.43	9.00	9.00	457.86
6,800.00	12.53	179.82	6,663.55	-269.20	1,018.88	272.40	9.00	9.00	0.00
6,900.00	21.53	179.82	6,759.06	-298.46	1,018.98	301.66	9.00	9.00	0.00
7,000.00	30.53	179.82	6,848.82	-342.31	1,019.12	345.51	9.00	9.00	0.00
7,081.27	37.85	179.82	6,916.00	-387.95	1,019.27	391.15	9.00	9.00	0.00
Sharon Springs									
7,100.00	39.53	179.82	6,930.62	-399.66	1,019.30	402.86	9.00	9.00	0.00
7,133.66	42.56	179.82	6,956.00	-421.76	1,019.38	424.96	9.00	9.00	0.00
Niobrara									
7,200.00	48.53	179.82	7,002.44	-469.09	1,019.53	472.29	9.00	9.00	0.00
DLS = 9°/100'									
7,240.06	52.14	179.82	7,028.00	-499.93	1,019.63	503.13	9.00	9.00	0.00
Nio B									
7,300.00	57.53	179.82	7,062.51	-548.91	1,019.78	552.11	9.00	9.00	0.00
7,400.00	66.53	179.82	7,109.35	-637.14	1,020.07	640.34	9.00	9.00	0.00
7,500.00	75.53	179.82	7,141.82	-731.62	1,020.37	734.82	9.00	9.00	0.00
7,531.85	78.40	179.82	7,149.00	-762.64	1,020.47	765.84	9.00	9.00	0.00
Nio C									
7,600.00	84.53	179.82	7,159.11	-830.01	1,020.69	833.21	9.00	9.00	0.00
7,660.86	90.01	179.82	7,162.00	-890.77	1,020.88	893.98	9.00	9.00	0.00

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well ZELDA 25-8HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB = 17' @ 4920.00usft (Drilling Rig)
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Site:	2N-65W-25 Zelda 29-25HZ Pad	North Reference:	True
Well:	ZELDA 25-8HZ	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 @ 7660.86ft - Top of Production									
7,700.00	90.01	179.82	7,161.99	-929.91	1,021.01	933.12	0.00	0.00	0.00
7,800.00	90.01	179.82	7,161.97	-1,029.91	1,021.33	1,033.12	0.00	0.00	0.00
7,900.00	90.01	179.82	7,161.95	-1,129.91	1,021.65	1,133.12	0.00	0.00	0.00
8,000.00	90.01	179.82	7,161.93	-1,229.91	1,021.98	1,233.12	0.00	0.00	0.00
8,100.00	90.01	179.82	7,161.91	-1,329.91	1,022.30	1,333.12	0.00	0.00	0.00
8,200.00	90.01	179.82	7,161.89	-1,429.91	1,022.62	1,433.12	0.00	0.00	0.00
8,300.00	90.01	179.82	7,161.87	-1,529.91	1,022.94	1,533.12	0.00	0.00	0.00
8,400.00	90.01	179.82	7,161.85	-1,629.91	1,023.26	1,633.12	0.00	0.00	0.00
8,500.00	90.01	179.82	7,161.83	-1,729.91	1,023.58	1,733.12	0.00	0.00	0.00
8,600.00	90.01	179.82	7,161.81	-1,829.91	1,023.91	1,833.12	0.00	0.00	0.00
8,700.00	90.01	179.82	7,161.79	-1,929.91	1,024.23	1,933.12	0.00	0.00	0.00
8,800.00	90.01	179.82	7,161.77	-2,029.91	1,024.55	2,033.12	0.00	0.00	0.00
8,900.00	90.01	179.82	7,161.75	-2,129.91	1,024.87	2,133.12	0.00	0.00	0.00
9,000.00	90.01	179.82	7,161.73	-2,229.91	1,025.19	2,233.12	0.00	0.00	0.00
9,100.00	90.01	179.82	7,161.70	-2,329.91	1,025.51	2,333.12	0.00	0.00	0.00
9,200.00	90.01	179.82	7,161.68	-2,429.91	1,025.84	2,433.12	0.00	0.00	0.00
9,300.00	90.01	179.82	7,161.66	-2,529.91	1,026.16	2,533.12	0.00	0.00	0.00
9,400.00	90.01	179.82	7,161.64	-2,629.90	1,026.48	2,633.12	0.00	0.00	0.00
9,500.00	90.01	179.82	7,161.62	-2,729.90	1,026.80	2,733.12	0.00	0.00	0.00
9,600.00	90.01	179.82	7,161.60	-2,829.90	1,027.12	2,833.12	0.00	0.00	0.00
9,700.00	90.01	179.82	7,161.58	-2,929.90	1,027.44	2,933.12	0.00	0.00	0.00
9,800.00	90.01	179.82	7,161.56	-3,029.90	1,027.77	3,033.12	0.00	0.00	0.00
9,900.00	90.01	179.82	7,161.54	-3,129.90	1,028.09	3,133.12	0.00	0.00	0.00
10,000.00	90.01	179.82	7,161.52	-3,229.90	1,028.41	3,233.12	0.00	0.00	0.00
10,100.00	90.01	179.82	7,161.50	-3,329.90	1,028.73	3,333.12	0.00	0.00	0.00
10,200.00	90.01	179.82	7,161.48	-3,429.90	1,029.05	3,433.12	0.00	0.00	0.00
10,300.00	90.01	179.82	7,161.46	-3,529.90	1,029.38	3,533.12	0.00	0.00	0.00
10,400.00	90.01	179.82	7,161.44	-3,629.90	1,029.70	3,633.12	0.00	0.00	0.00
10,500.00	90.01	179.82	7,161.42	-3,729.90	1,030.02	3,733.12	0.00	0.00	0.00
10,600.00	90.01	179.82	7,161.40	-3,829.90	1,030.34	3,833.12	0.00	0.00	0.00
10,700.00	90.01	179.82	7,161.38	-3,929.90	1,030.66	3,933.12	0.00	0.00	0.00
10,800.00	90.01	179.82	7,161.36	-4,029.90	1,030.98	4,033.12	0.00	0.00	0.00
10,900.00	90.01	179.82	7,161.33	-4,129.90	1,031.31	4,133.12	0.00	0.00	0.00
11,000.00	90.01	179.82	7,161.31	-4,229.90	1,031.63	4,233.12	0.00	0.00	0.00
11,100.00	90.01	179.82	7,161.29	-4,329.90	1,031.95	4,333.12	0.00	0.00	0.00
11,200.00	90.01	179.82	7,161.27	-4,429.90	1,032.27	4,433.12	0.00	0.00	0.00
11,300.00	90.01	179.82	7,161.25	-4,529.90	1,032.59	4,533.12	0.00	0.00	0.00
11,400.00	90.01	179.82	7,161.23	-4,629.89	1,032.91	4,633.12	0.00	0.00	0.00
11,500.00	90.01	179.82	7,161.21	-4,729.89	1,033.24	4,733.12	0.00	0.00	0.00
11,600.00	90.01	179.82	7,161.19	-4,829.89	1,033.56	4,833.12	0.00	0.00	0.00
11,700.00	90.01	179.82	7,161.17	-4,929.89	1,033.88	4,933.12	0.00	0.00	0.00
11,800.00	90.01	179.82	7,161.15	-5,029.89	1,034.20	5,033.12	0.00	0.00	0.00
11,900.00	90.01	179.82	7,161.13	-5,129.89	1,034.52	5,133.12	0.00	0.00	0.00
12,000.00	90.01	179.82	7,161.11	-5,229.89	1,034.84	5,233.12	0.00	0.00	0.00
12,100.00	90.01	179.82	7,161.09	-5,329.89	1,035.17	5,333.12	0.00	0.00	0.00
12,200.00	90.01	179.82	7,161.07	-5,429.89	1,035.49	5,433.12	0.00	0.00	0.00
12,300.00	90.01	179.82	7,161.05	-5,529.89	1,035.81	5,533.12	0.00	0.00	0.00
12,400.00	90.01	179.82	7,161.03	-5,629.89	1,036.13	5,633.12	0.00	0.00	0.00
12,500.00	90.01	179.82	7,161.01	-5,729.89	1,036.45	5,733.12	0.00	0.00	0.00
12,600.00	90.01	179.82	7,160.99	-5,829.89	1,036.78	5,833.12	0.00	0.00	0.00
12,700.00	90.01	179.82	7,160.96	-5,929.89	1,037.10	5,933.12	0.00	0.00	0.00
12,800.00	90.01	179.82	7,160.94	-6,029.89	1,037.42	6,033.12	0.00	0.00	0.00
12,900.00	90.01	179.82	7,160.92	-6,129.89	1,037.74	6,133.12	0.00	0.00	0.00

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well ZELDA 25-8HZ
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 25-8HZ	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	90.01	179.82	7,160.90	-6,229.89	1,038.06	6,233.12	0.00	0.00	0.00
13,100.00	90.01	179.82	7,160.88	-6,329.89	1,038.38	6,333.12	0.00	0.00	0.00
13,200.00	90.01	179.82	7,160.86	-6,429.89	1,038.71	6,433.12	0.00	0.00	0.00
13,300.00	90.01	179.82	7,160.84	-6,529.88	1,039.03	6,533.12	0.00	0.00	0.00
13,400.00	90.01	179.82	7,160.82	-6,629.88	1,039.35	6,633.12	0.00	0.00	0.00
13,500.00	90.01	179.82	7,160.80	-6,729.88	1,039.67	6,733.12	0.00	0.00	0.00
13,600.00	90.01	179.82	7,160.78	-6,829.88	1,039.99	6,833.12	0.00	0.00	0.00
13,700.00	90.01	179.82	7,160.76	-6,929.88	1,040.31	6,933.12	0.00	0.00	0.00
13,800.00	90.01	179.82	7,160.74	-7,029.88	1,040.64	7,033.12	0.00	0.00	0.00
13,900.00	90.01	179.82	7,160.72	-7,129.88	1,040.96	7,133.12	0.00	0.00	0.00
14,000.00	90.01	179.82	7,160.70	-7,229.88	1,041.28	7,233.12	0.00	0.00	0.00
14,100.00	90.01	179.82	7,160.68	-7,329.88	1,041.60	7,333.12	0.00	0.00	0.00
14,200.00	90.01	179.82	7,160.66	-7,429.88	1,041.92	7,433.12	0.00	0.00	0.00
14,300.00	90.01	179.82	7,160.64	-7,529.88	1,042.24	7,533.12	0.00	0.00	0.00
14,400.00	90.01	179.82	7,160.61	-7,629.88	1,042.57	7,633.12	0.00	0.00	0.00
14,500.00	90.01	179.82	7,160.59	-7,729.88	1,042.89	7,733.12	0.00	0.00	0.00
14,600.00	90.01	179.82	7,160.57	-7,829.88	1,043.21	7,833.12	0.00	0.00	0.00
14,700.00	90.01	179.82	7,160.55	-7,929.88	1,043.53	7,933.12	0.00	0.00	0.00
14,800.00	90.01	179.82	7,160.53	-8,029.88	1,043.85	8,033.12	0.00	0.00	0.00
14,900.00	90.01	179.82	7,160.51	-8,129.88	1,044.17	8,133.12	0.00	0.00	0.00
15,000.00	90.01	179.82	7,160.49	-8,229.88	1,044.50	8,233.12	0.00	0.00	0.00
15,100.00	90.01	179.82	7,160.47	-8,329.88	1,044.82	8,333.12	0.00	0.00	0.00
15,200.00	90.01	179.82	7,160.45	-8,429.87	1,045.14	8,433.12	0.00	0.00	0.00
15,300.00	90.01	179.82	7,160.43	-8,529.87	1,045.46	8,533.12	0.00	0.00	0.00
15,400.00	90.01	179.82	7,160.41	-8,629.87	1,045.78	8,633.12	0.00	0.00	0.00
15,500.00	90.01	179.82	7,160.39	-8,729.87	1,046.11	8,733.12	0.00	0.00	0.00
15,600.00	90.01	179.82	7,160.37	-8,829.87	1,046.43	8,833.12	0.00	0.00	0.00
15,700.00	90.01	179.82	7,160.35	-8,929.87	1,046.75	8,933.12	0.00	0.00	0.00
15,800.00	90.01	179.82	7,160.33	-9,029.87	1,047.07	9,033.12	0.00	0.00	0.00
15,900.00	90.01	179.82	7,160.31	-9,129.87	1,047.39	9,133.12	0.00	0.00	0.00
16,000.00	90.01	179.82	7,160.29	-9,229.87	1,047.71	9,233.12	0.00	0.00	0.00
16,100.00	90.01	179.82	7,160.27	-9,329.87	1,048.04	9,333.12	0.00	0.00	0.00
16,200.00	90.01	179.82	7,160.24	-9,429.87	1,048.36	9,433.12	0.00	0.00	0.00
16,300.00	90.01	179.82	7,160.22	-9,529.87	1,048.68	9,533.12	0.00	0.00	0.00
16,400.00	90.01	179.82	7,160.20	-9,629.87	1,049.00	9,633.12	0.00	0.00	0.00
16,500.00	90.01	179.82	7,160.18	-9,729.87	1,049.32	9,733.12	0.00	0.00	0.00
16,600.00	90.01	179.82	7,160.16	-9,829.87	1,049.64	9,833.12	0.00	0.00	0.00
16,700.00	90.01	179.82	7,160.14	-9,929.87	1,049.97	9,933.12	0.00	0.00	0.00
16,800.00	90.01	179.82	7,160.12	-10,029.87	1,050.29	10,033.12	0.00	0.00	0.00
16,900.00	90.01	179.82	7,160.10	-10,129.87	1,050.61	10,133.12	0.00	0.00	0.00
17,000.00	90.01	179.82	7,160.08	-10,229.87	1,050.93	10,233.12	0.00	0.00	0.00
17,100.00	90.01	179.82	7,160.06	-10,329.87	1,051.25	10,333.12	0.00	0.00	0.00
17,200.00	90.01	179.82	7,160.04	-10,429.86	1,051.57	10,433.12	0.00	0.00	0.00
17,300.00	90.01	179.82	7,160.02	-10,529.86	1,051.90	10,533.12	0.00	0.00	0.00
17,388.23	90.01	179.82	7,160.00	-10,618.09	1,052.18	10,621.35	0.00	0.00	0.00
TD Well @ 17388.23ft									

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well ZELDA 25-8HZ
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 25-8HZ	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 (")	
1,521.75	1,500.00	9 5/8" Csg	9-5/8	13-1/2	
7,660.86	7,162.00	Top of Production	5-1/2	7-7/8	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,388.60	1,372.00	Fox Hills				
4,088.17	3,967.00	Parkman				
4,553.70	4,420.00	Sussex				
7,081.27	6,916.00	Sharon Springs				
7,133.66	6,956.00	Niobrara				
7,240.06	7,028.00	Nio B				
7,531.85	7,149.00	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	
1,316.67	1,302.86	-35.80	143.57	Start 2870.00 hold at 1316.67 MD	
4,186.67	4,061.68	-227.18	911.15	Start DLS 2.00 TFO -180.00	
4,986.67	4,851.32	-254.02	1,018.84	Start 1674.06 hold at 4986.67 MD	
6,660.73	6,525.38	-254.02	1,018.84	KOP @ 6660.73ft	
7,200.00	7,002.44	-469.09	1,019.53	DLS = 9°/100'	
7,660.86	7,162.00	-890.77	1,020.88	End Build @ 7660.86ft	
17,388.23	7,160.00	-10,618.09	1,052.18	TD Well @ 17388.23ft	