

US ROCKIES WATTENBERG PLANNING

**WELD-NAD83-UTMFT13N
2N-65W-25 Zelda 29-25HZ Pad
ZELDA 25-1HZ**

Plan A

Plan: Permit Rev-1

SHL Latitude/Longitude: 40.115731/-104.617600
Survey Program: MWD+IFR

Standard Planning Report

21 August, 2017

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

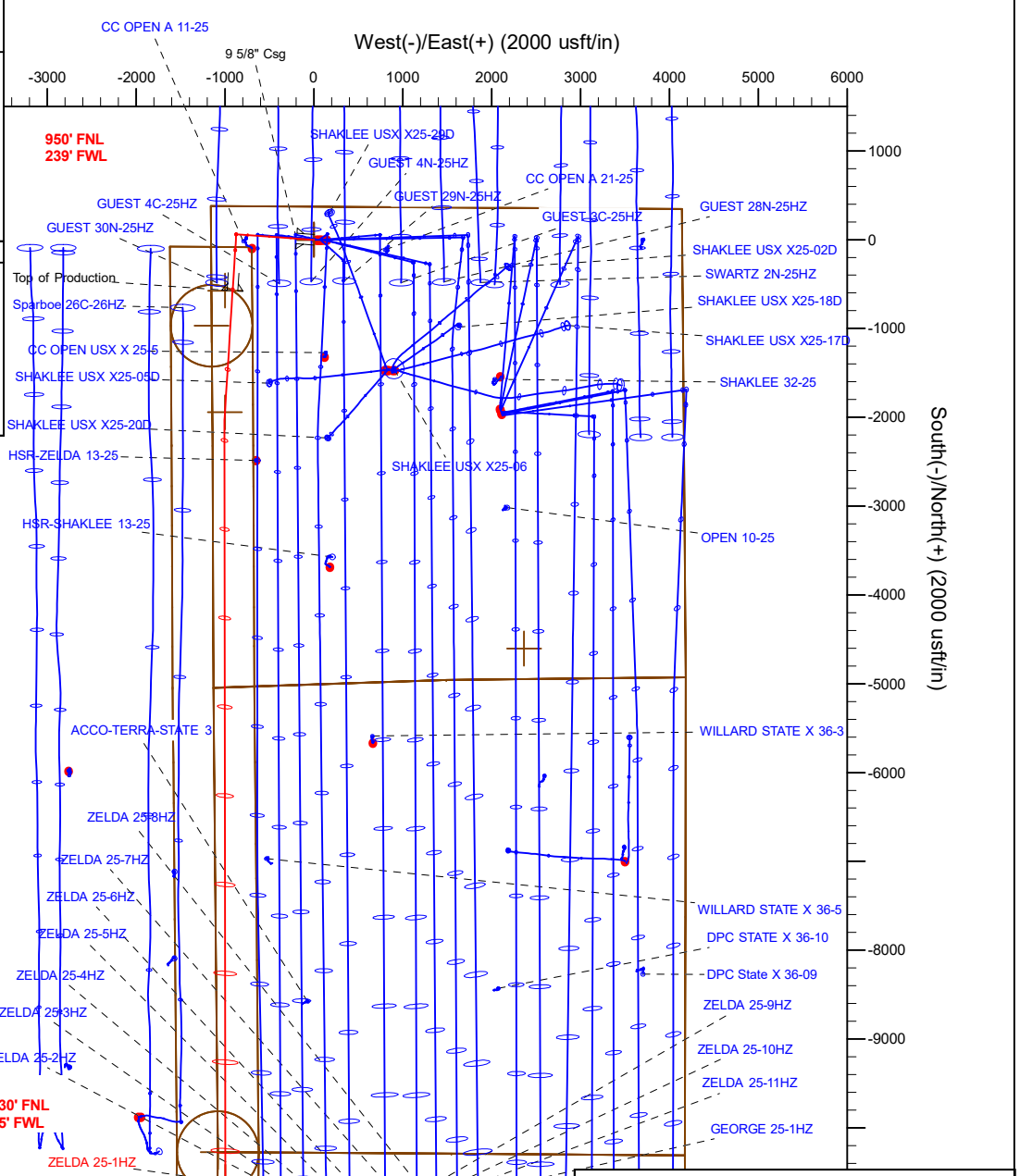
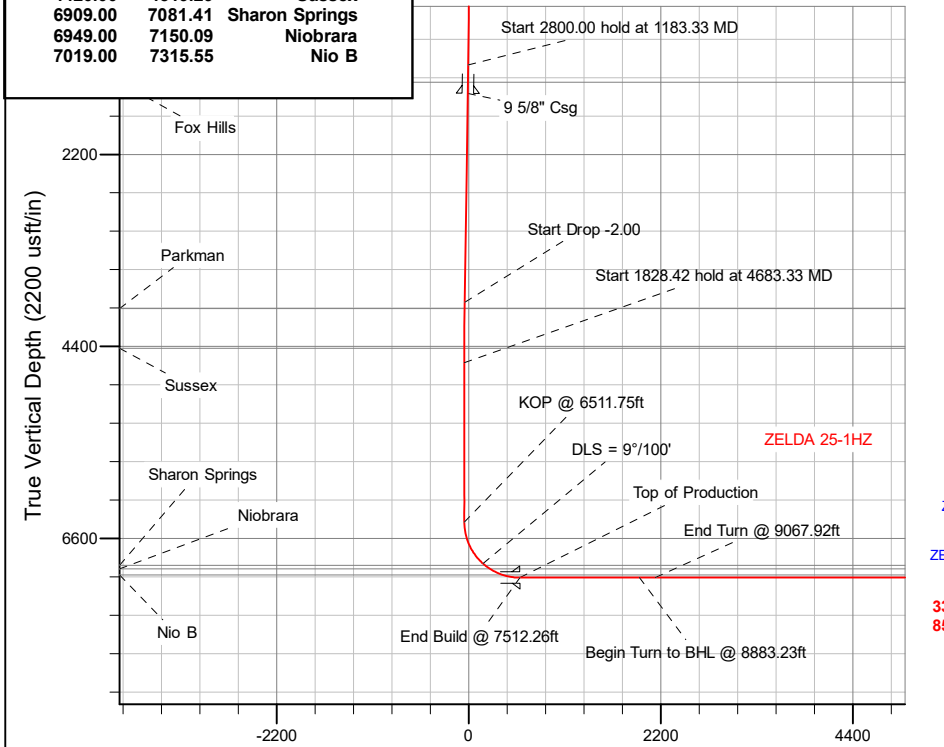
US ROCKIES WATTENBERG PLANNING

CASING DETAILS			WELL DETAILS: ZELDA 25-1HZ GL = 4903' RKB = 17' @ 4920.00usft (Drilling Rig)
TVD	MD	Size	
1500.00 7049.00	1519.24 7512.26	9-5/8 5-1/2	

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	1183.33	14.00	274.00	1174.07	7.91	-113.19	1.50	274.00	-6.61	
4	3983.33	14.00	274.00	3890.90	55.17	-788.92	0.00	0.00	-46.08	
5	4683.33	0.00	0.00	4583.96	61.10	-873.81	2.00	180.00	-51.03	
6	6511.75	0.00	0.00	6412.38	61.10	-873.81	0.00	0.00	-51.03	
7	7512.26	90.05	183.62	7049.00	-574.75	-914.06	9.00	183.62	585.24	
8	8883.23	90.05	183.62	7047.91	-1942.98	-1000.69	0.00	0.00	1954.38	ZELDA 25-1HZ_tgt
9	9067.92	90.05	179.93	7047.76	-2127.55	-1006.41	2.00	-89.99	2139.00	
10	17545.30	90.05	179.93	7041.00	-10604.93	-995.89	0.00	0.00	10615.69	ZELDA 25-1HZ_BHL

WELLBORE TARGET DETAILS (LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	
ZELDA 25-1HZ_SHL	0.00	0.00	0.00	40.115731	-104.617600	
ZELDA 25-1HZ_BHL	7041.00	-10604.93	-995.89	40.086609	-104.621161	

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
1372.00	1387.32	Fox Hills
3967.00	4061.51	Parkman
4420.00	4519.29	Sussex
6909.00	7081.41	Sharon Springs
6949.00	7150.09	Niobrara
7019.00	7315.55	Nio B



Plan: Permit Rev-1 (ZELDA 25-1HZ/Plan A)
 Created By: _____ Date: 8/21/2017
 Reviewed: _____ Date: _____

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well ZELDA 25-1HZ
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 25-1HZ	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 25-1HZ					
Well Position	+N-S	0.00 usft	Northing:	14,569,106.11 usft	Latitude:	40.115731
	+E-W	0.00 usft	Easting:	1,747,327.27 usft	Longitude:	-104.617600
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	52,347.21292090

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	180.66

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	17,545.30	Permit Rev-1 (Plan A)	APC_ISCWSA REV 2 MWD+II Fixed:v2:crustal field declinatio	

Corporate Planning Report

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Site:	2N-65W-25 Zelda 29-25HZ Pad	North Reference:	True
Well:	ZELDA 25-1HZ	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	
1,183.33	14.00	274.00	1,174.07	7.91	-113.19	1.50	1.50	0.00	274.00	
3,983.33	14.00	274.00	3,890.90	55.17	-788.92	0.00	0.00	0.00	0.00	
4,683.33	0.00	0.00	4,583.96	61.10	-873.81	2.00	-2.00	0.00	180.00	
6,511.75	0.00	0.00	6,412.38	61.10	-873.81	0.00	0.00	0.00	0.00	
7,512.26	90.05	183.62	7,049.00	-574.75	-914.06	9.00	9.00	-17.63	183.62	
8,883.23	90.05	183.62	7,047.91	-1,942.98	-1,000.69	0.00	0.00	0.00	0.00	ZELDA 25-1HZ_tgt
9,067.92	90.05	179.93	7,047.76	-2,127.55	-1,006.41	2.00	0.00	-2.00	-89.99	
17,545.30	90.05	179.93	7,041.00	-10,604.93	-995.89	0.00	0.00	0.00	0.00	ZELDA 25-1HZ_BHL

Corporate Planning Report

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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 25-1HZ	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	274.00	300.00	0.02	-0.33	-0.02	1.50	1.50		0.00
400.00	2.25	274.00	399.96	0.21	-2.94	-0.17	1.50	1.50		0.00
500.00	3.75	274.00	499.82	0.57	-8.16	-0.48	1.50	1.50		0.00
600.00	5.25	274.00	599.51	1.12	-15.98	-0.93	1.50	1.50		0.00
700.00	6.75	274.00	698.96	1.85	-26.41	-1.54	1.50	1.50		0.00
800.00	8.25	274.00	798.10	2.76	-39.43	-2.30	1.50	1.50		0.00
900.00	9.75	274.00	896.87	3.85	-55.04	-3.21	1.50	1.50		0.00
1,000.00	11.25	274.00	995.19	5.12	-73.22	-4.28	1.50	1.50		0.00
1,100.00	12.75	274.00	1,093.00	6.57	-93.96	-5.49	1.50	1.50		0.00
1,183.33	14.00	274.00	1,174.07	7.91	-113.19	-6.61	1.50	1.50		0.00
Start 2800.00 hold at 1183.33 MD										
1,200.00	14.00	274.00	1,190.25	8.20	-117.21	-6.85	0.00	0.00		0.00
1,300.00	14.00	274.00	1,287.27	9.88	-141.34	-8.25	0.00	0.00		0.00
1,387.32	14.00	274.00	1,372.00	11.36	-162.41	-9.49	0.00	0.00		0.00
Fox Hills										
1,400.00	14.00	274.00	1,384.30	11.57	-165.47	-9.66	0.00	0.00		0.00
1,500.00	14.00	274.00	1,481.33	13.26	-189.61	-11.07	0.00	0.00		0.00
1,519.24	14.00	274.00	1,500.00	13.58	-194.25	-11.34	0.00	0.00		0.00
9 5/8" Csg										
1,600.00	14.00	274.00	1,578.36	14.95	-213.74	-12.48	0.00	0.00		0.00
1,700.00	14.00	274.00	1,675.39	16.63	-237.87	-13.89	0.00	0.00		0.00
1,800.00	14.00	274.00	1,772.42	18.32	-262.01	-15.30	0.00	0.00		0.00
1,900.00	14.00	274.00	1,869.45	20.01	-286.14	-16.71	0.00	0.00		0.00
2,000.00	14.00	274.00	1,966.48	21.70	-310.27	-18.12	0.00	0.00		0.00
2,100.00	14.00	274.00	2,063.51	23.38	-334.41	-19.53	0.00	0.00		0.00
2,200.00	14.00	274.00	2,160.54	25.07	-358.54	-20.94	0.00	0.00		0.00
2,300.00	14.00	274.00	2,257.57	26.76	-382.67	-22.35	0.00	0.00		0.00
2,400.00	14.00	274.00	2,354.60	28.45	-406.81	-23.76	0.00	0.00		0.00
2,500.00	14.00	274.00	2,451.63	30.13	-430.94	-25.17	0.00	0.00		0.00
2,600.00	14.00	274.00	2,548.66	31.82	-455.07	-26.58	0.00	0.00		0.00
2,700.00	14.00	274.00	2,645.69	33.51	-479.21	-27.99	0.00	0.00		0.00
2,800.00	14.00	274.00	2,742.72	35.20	-503.34	-29.40	0.00	0.00		0.00
2,900.00	14.00	274.00	2,839.75	36.88	-527.47	-30.81	0.00	0.00		0.00
3,000.00	14.00	274.00	2,936.78	38.57	-551.61	-32.22	0.00	0.00		0.00
3,100.00	14.00	274.00	3,033.81	40.26	-575.74	-33.63	0.00	0.00		0.00
3,200.00	14.00	274.00	3,130.84	41.95	-599.87	-35.03	0.00	0.00		0.00
3,300.00	14.00	274.00	3,227.87	43.63	-624.01	-36.44	0.00	0.00		0.00
3,400.00	14.00	274.00	3,324.90	45.32	-648.14	-37.85	0.00	0.00		0.00
3,500.00	14.00	274.00	3,421.93	47.01	-672.27	-39.26	0.00	0.00		0.00
3,600.00	14.00	274.00	3,518.95	48.70	-696.41	-40.67	0.00	0.00		0.00
3,700.00	14.00	274.00	3,615.98	50.39	-720.54	-42.08	0.00	0.00		0.00
3,800.00	14.00	274.00	3,713.01	52.07	-744.67	-43.49	0.00	0.00		0.00
3,900.00	14.00	274.00	3,810.04	53.76	-768.81	-44.90	0.00	0.00		0.00
3,983.33	14.00	274.00	3,890.90	55.17	-788.92	-46.08	0.00	0.00		0.00
Start Drop -2.00										
4,000.00	13.67	274.00	3,907.08	55.44	-792.89	-46.31	2.00	-2.00		0.00
4,061.51	12.44	274.00	3,967.00	56.41	-806.75	-47.12	2.00	-2.00		0.00
Parkman										

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well ZELDA 25-1HZ
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 25-1HZ	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)	
4,100.00	11.67	274.00	4,004.65	56.97	-814.77	-47.58	2.00	-2.00	0.00	
4,200.00	9.67	274.00	4,102.91	58.27	-833.23	-48.66	2.00	-2.00	0.00	
4,300.00	7.67	274.00	4,201.77	59.32	-848.26	-49.54	2.00	-2.00	0.00	
4,400.00	5.67	274.00	4,301.09	60.13	-859.84	-50.22	2.00	-2.00	0.00	
4,500.00	3.67	274.00	4,400.75	60.69	-867.96	-50.69	2.00	-2.00	0.00	
4,519.29	3.28	274.00	4,420.00	60.77	-869.12	-50.76	2.00	-2.00	0.00	
Sussex										
4,600.00	1.67	274.00	4,500.64	61.02	-872.60	-50.96	2.00	-2.00	0.00	
4,683.33	0.00	0.00	4,583.96	61.10	-873.81	-51.03	2.00	-2.00	0.00	
Start 1828.42 hold at 4683.33 MD										
4,700.00	0.00	0.00	4,600.62	61.10	-873.81	-51.03	0.00	0.00	0.00	
4,800.00	0.00	0.00	4,700.62	61.10	-873.81	-51.03	0.00	0.00	0.00	
4,900.00	0.00	0.00	4,800.62	61.10	-873.81	-51.03	0.00	0.00	0.00	
5,000.00	0.00	0.00	4,900.62	61.10	-873.81	-51.03	0.00	0.00	0.00	
5,100.00	0.00	0.00	5,000.62	61.10	-873.81	-51.03	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,100.62	61.10	-873.81	-51.03	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,200.62	61.10	-873.81	-51.03	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,300.62	61.10	-873.81	-51.03	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,400.62	61.10	-873.81	-51.03	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,500.62	61.10	-873.81	-51.03	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,600.62	61.10	-873.81	-51.03	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,700.62	61.10	-873.81	-51.03	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,800.62	61.10	-873.81	-51.03	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,900.62	61.10	-873.81	-51.03	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,000.62	61.10	-873.81	-51.03	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,100.62	61.10	-873.81	-51.03	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,200.62	61.10	-873.81	-51.03	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,300.62	61.10	-873.81	-51.03	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,400.62	61.10	-873.81	-51.03	0.00	0.00	0.00	
6,511.75	0.00	0.00	6,412.38	61.10	-873.81	-51.03	0.00	0.00	0.00	
KOP @ 6511.75ft										
6,600.00	7.94	183.62	6,500.34	55.01	-874.19	-44.93	9.00	9.00	0.00	
6,700.00	16.94	183.62	6,597.89	33.53	-875.55	-23.44	9.00	9.00	0.00	
6,800.00	25.94	183.62	6,690.88	-2.92	-877.86	13.03	9.00	9.00	0.00	
6,900.00	34.94	183.62	6,777.00	-53.43	-881.06	63.58	9.00	9.00	0.00	
7,000.00	43.94	183.62	6,854.15	-116.77	-885.07	126.96	9.00	9.00	0.00	
7,050.00	48.44	183.62	6,888.75	-152.77	-887.35	162.98	9.00	9.00	0.00	
DLS = 9°/100'										
7,081.41	51.27	183.62	6,909.00	-176.73	-888.86	186.96	9.00	9.00	0.00	
Sharon Springs										
7,100.00	52.94	183.62	6,920.42	-191.37	-889.79	201.61	9.00	9.00	0.00	
7,150.09	57.44	183.62	6,949.00	-232.41	-892.39	242.67	8.98	8.98	0.00	
Niobrara										
7,200.00	61.94	183.62	6,974.18	-275.40	-895.11	285.69	9.02	9.02	0.00	
7,300.00	70.94	183.62	7,014.10	-366.79	-900.90	377.14	9.00	9.00	0.00	
7,315.55	72.34	183.62	7,019.00	-381.52	-901.83	391.88	9.00	9.00	0.00	
Nio B										
7,400.00	79.94	183.62	7,039.21	-463.29	-907.01	473.70	9.00	9.00	0.00	
7,500.00	88.94	183.62	7,048.89	-562.52	-913.29	573.00	9.00	9.00	0.00	
7,512.26	90.05	183.62	7,049.00	-574.75	-914.06	585.24	9.00	9.00	0.00	
End Build @ 7512.26ft - Top of Production										
7,600.00	90.05	183.62	7,048.93	-662.32	-919.61	672.86	0.00	0.00	0.00	
7,700.00	90.05	183.62	7,048.85	-762.12	-925.93	772.73	0.00	0.00	0.00	

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well ZELDA 25-1HZ
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 25-1HZ	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)	
7,800.00	90.05	183.62	7,048.77	-861.92	-932.24	872.60	0.00	0.00	0.00	
7,900.00	90.05	183.62	7,048.69	-961.72	-938.56	972.46	0.00	0.00	0.00	
8,000.00	90.05	183.62	7,048.61	-1,061.52	-944.88	1,072.33	0.00	0.00	0.00	
8,100.00	90.05	183.62	7,048.53	-1,161.32	-951.20	1,172.20	0.00	0.00	0.00	
8,200.00	90.05	183.62	7,048.45	-1,261.12	-957.52	1,272.06	0.00	0.00	0.00	
8,300.00	90.05	183.62	7,048.37	-1,360.92	-963.84	1,371.93	0.00	0.00	0.00	
8,400.00	90.05	183.62	7,048.29	-1,460.72	-970.16	1,471.79	0.00	0.00	0.00	
8,500.00	90.05	183.62	7,048.21	-1,560.52	-976.48	1,571.66	0.00	0.00	0.00	
8,600.00	90.05	183.62	7,048.13	-1,660.32	-982.79	1,671.53	0.00	0.00	0.00	
8,700.00	90.05	183.62	7,048.06	-1,760.12	-989.11	1,771.39	0.00	0.00	0.00	
8,800.00	90.05	183.62	7,047.98	-1,859.92	-995.43	1,871.26	0.00	0.00	0.00	
8,883.23	90.05	183.62	7,047.91	-1,942.98	-1,000.69	1,954.38	0.00	0.00	0.00	
Begin Turn to BHL @ 8883.23ft										
8,900.00	90.05	183.29	7,047.90	-1,959.72	-1,001.70	1,971.13	2.00	0.00	-2.00	
9,000.00	90.05	181.29	7,047.82	-2,059.64	-1,005.69	2,071.08	2.00	0.00	-2.00	
9,067.92	90.05	179.93	7,047.76	-2,127.55	-1,006.41	2,139.00	2.00	0.00	-2.00	
End Turn @ 9067.92ft										
9,100.00	90.05	179.93	7,047.74	-2,159.63	-1,006.37	2,171.08	0.00	0.00	0.00	
9,200.00	90.05	179.93	7,047.66	-2,259.63	-1,006.25	2,271.07	0.00	0.00	0.00	
9,300.00	90.05	179.93	7,047.58	-2,359.63	-1,006.12	2,371.06	0.00	0.00	0.00	
9,400.00	90.05	179.93	7,047.50	-2,459.63	-1,006.00	2,471.05	0.00	0.00	0.00	
9,500.00	90.05	179.93	7,047.42	-2,559.63	-1,005.88	2,571.05	0.00	0.00	0.00	
9,600.00	90.05	179.93	7,047.34	-2,659.63	-1,005.75	2,671.04	0.00	0.00	0.00	
9,700.00	90.05	179.93	7,047.26	-2,759.63	-1,005.63	2,771.03	0.00	0.00	0.00	
9,800.00	90.05	179.93	7,047.18	-2,859.63	-1,005.50	2,871.02	0.00	0.00	0.00	
9,900.00	90.05	179.93	7,047.10	-2,959.63	-1,005.38	2,971.01	0.00	0.00	0.00	
10,000.00	90.05	179.93	7,047.02	-3,059.63	-1,005.26	3,071.01	0.00	0.00	0.00	
10,100.00	90.05	179.93	7,046.94	-3,159.63	-1,005.13	3,171.00	0.00	0.00	0.00	
10,200.00	90.05	179.93	7,046.86	-3,259.63	-1,005.01	3,270.99	0.00	0.00	0.00	
10,300.00	90.05	179.93	7,046.78	-3,359.63	-1,004.88	3,370.98	0.00	0.00	0.00	
10,400.00	90.05	179.93	7,046.70	-3,459.63	-1,004.76	3,470.97	0.00	0.00	0.00	
10,500.00	90.05	179.93	7,046.62	-3,559.63	-1,004.63	3,570.96	0.00	0.00	0.00	
10,600.00	90.05	179.93	7,046.54	-3,659.63	-1,004.51	3,670.96	0.00	0.00	0.00	
10,700.00	90.05	179.93	7,046.46	-3,759.63	-1,004.39	3,770.95	0.00	0.00	0.00	
10,800.00	90.05	179.93	7,046.38	-3,859.63	-1,004.26	3,870.94	0.00	0.00	0.00	
10,900.00	90.05	179.93	7,046.30	-3,959.63	-1,004.14	3,970.93	0.00	0.00	0.00	
11,000.00	90.05	179.93	7,046.22	-4,059.63	-1,004.01	4,070.92	0.00	0.00	0.00	
11,100.00	90.05	179.93	7,046.14	-4,159.63	-1,003.89	4,170.92	0.00	0.00	0.00	
11,200.00	90.05	179.93	7,046.06	-4,259.63	-1,003.77	4,270.91	0.00	0.00	0.00	
11,300.00	90.05	179.93	7,045.98	-4,359.63	-1,003.64	4,370.90	0.00	0.00	0.00	
11,400.00	90.05	179.93	7,045.90	-4,459.63	-1,003.52	4,470.89	0.00	0.00	0.00	
11,500.00	90.05	179.93	7,045.82	-4,559.63	-1,003.39	4,570.88	0.00	0.00	0.00	
11,600.00	90.05	179.93	7,045.74	-4,659.63	-1,003.27	4,670.87	0.00	0.00	0.00	
11,700.00	90.05	179.93	7,045.66	-4,759.63	-1,003.15	4,770.87	0.00	0.00	0.00	
11,800.00	90.05	179.93	7,045.58	-4,859.63	-1,003.02	4,870.86	0.00	0.00	0.00	
11,900.00	90.05	179.93	7,045.50	-4,959.63	-1,002.90	4,970.85	0.00	0.00	0.00	
12,000.00	90.05	179.93	7,045.42	-5,059.63	-1,002.77	5,070.84	0.00	0.00	0.00	
12,100.00	90.05	179.93	7,045.34	-5,159.63	-1,002.65	5,170.83	0.00	0.00	0.00	
12,200.00	90.05	179.93	7,045.26	-5,259.63	-1,002.52	5,270.83	0.00	0.00	0.00	
12,300.00	90.05	179.93	7,045.18	-5,359.63	-1,002.40	5,370.82	0.00	0.00	0.00	
12,400.00	90.05	179.93	7,045.10	-5,459.63	-1,002.28	5,470.81	0.00	0.00	0.00	
12,500.00	90.05	179.93	7,045.03	-5,559.63	-1,002.15	5,570.80	0.00	0.00	0.00	
12,600.00	90.05	179.93	7,044.95	-5,659.63	-1,002.03	5,670.79	0.00	0.00	0.00	
12,700.00	90.05	179.93	7,044.87	-5,759.63	-1,001.90	5,770.79	0.00	0.00	0.00	

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well ZELDA 25-1HZ
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 25-1HZ	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)
12,800.00	90.05	179.93	7,044.79	-5,859.63	-1,001.78	5,870.78	0.00	0.00	0.00
12,900.00	90.05	179.93	7,044.71	-5,959.63	-1,001.66	5,970.77	0.00	0.00	0.00
13,000.00	90.05	179.93	7,044.63	-6,059.63	-1,001.53	6,070.76	0.00	0.00	0.00
13,100.00	90.05	179.93	7,044.55	-6,159.63	-1,001.41	6,170.75	0.00	0.00	0.00
13,200.00	90.05	179.93	7,044.47	-6,259.63	-1,001.28	6,270.74	0.00	0.00	0.00
13,300.00	90.05	179.93	7,044.39	-6,359.63	-1,001.16	6,370.74	0.00	0.00	0.00
13,400.00	90.05	179.93	7,044.31	-6,459.63	-1,001.04	6,470.73	0.00	0.00	0.00
13,500.00	90.05	179.93	7,044.23	-6,559.63	-1,000.91	6,570.72	0.00	0.00	0.00
13,600.00	90.05	179.93	7,044.15	-6,659.63	-1,000.79	6,670.71	0.00	0.00	0.00
13,700.00	90.05	179.93	7,044.07	-6,759.63	-1,000.66	6,770.70	0.00	0.00	0.00
13,800.00	90.05	179.93	7,043.99	-6,859.63	-1,000.54	6,870.70	0.00	0.00	0.00
13,900.00	90.05	179.93	7,043.91	-6,959.63	-1,000.41	6,970.69	0.00	0.00	0.00
14,000.00	90.05	179.93	7,043.83	-7,059.62	-1,000.29	7,070.68	0.00	0.00	0.00
14,100.00	90.05	179.93	7,043.75	-7,159.62	-1,000.17	7,170.67	0.00	0.00	0.00
14,200.00	90.05	179.93	7,043.67	-7,259.62	-1,000.04	7,270.66	0.00	0.00	0.00
14,300.00	90.05	179.93	7,043.59	-7,359.62	-999.92	7,370.65	0.00	0.00	0.00
14,400.00	90.05	179.93	7,043.51	-7,459.62	-999.79	7,470.65	0.00	0.00	0.00
14,500.00	90.05	179.93	7,043.43	-7,559.62	-999.67	7,570.64	0.00	0.00	0.00
14,600.00	90.05	179.93	7,043.35	-7,659.62	-999.55	7,670.63	0.00	0.00	0.00
14,700.00	90.05	179.93	7,043.27	-7,759.62	-999.42	7,770.62	0.00	0.00	0.00
14,800.00	90.05	179.93	7,043.19	-7,859.62	-999.30	7,870.61	0.00	0.00	0.00
14,900.00	90.05	179.93	7,043.11	-7,959.62	-999.17	7,970.61	0.00	0.00	0.00
15,000.00	90.05	179.93	7,043.03	-8,059.62	-999.05	8,070.60	0.00	0.00	0.00
15,100.00	90.05	179.93	7,042.95	-8,159.62	-998.93	8,170.59	0.00	0.00	0.00
15,200.00	90.05	179.93	7,042.87	-8,259.62	-998.80	8,270.58	0.00	0.00	0.00
15,300.00	90.05	179.93	7,042.79	-8,359.62	-998.68	8,370.57	0.00	0.00	0.00
15,400.00	90.05	179.93	7,042.71	-8,459.62	-998.55	8,470.56	0.00	0.00	0.00
15,500.00	90.05	179.93	7,042.63	-8,559.62	-998.43	8,570.56	0.00	0.00	0.00
15,600.00	90.05	179.93	7,042.55	-8,659.62	-998.30	8,670.55	0.00	0.00	0.00
15,700.00	90.05	179.93	7,042.47	-8,759.62	-998.18	8,770.54	0.00	0.00	0.00
15,800.00	90.05	179.93	7,042.39	-8,859.62	-998.06	8,870.53	0.00	0.00	0.00
15,900.00	90.05	179.93	7,042.31	-8,959.62	-997.93	8,970.52	0.00	0.00	0.00
16,000.00	90.05	179.93	7,042.23	-9,059.62	-997.81	9,070.52	0.00	0.00	0.00
16,100.00	90.05	179.93	7,042.15	-9,159.62	-997.68	9,170.51	0.00	0.00	0.00
16,200.00	90.05	179.93	7,042.07	-9,259.62	-997.56	9,270.50	0.00	0.00	0.00
16,300.00	90.05	179.93	7,041.99	-9,359.62	-997.44	9,370.49	0.00	0.00	0.00
16,400.00	90.05	179.93	7,041.91	-9,459.62	-997.31	9,470.48	0.00	0.00	0.00
16,500.00	90.05	179.93	7,041.83	-9,559.62	-997.19	9,570.47	0.00	0.00	0.00
16,600.00	90.05	179.93	7,041.75	-9,659.62	-997.06	9,670.47	0.00	0.00	0.00
16,700.00	90.05	179.93	7,041.67	-9,759.62	-996.94	9,770.46	0.00	0.00	0.00
16,800.00	90.05	179.93	7,041.59	-9,859.62	-996.82	9,870.45	0.00	0.00	0.00
16,900.00	90.05	179.93	7,041.51	-9,959.62	-996.69	9,970.44	0.00	0.00	0.00
17,000.00	90.05	179.93	7,041.44	-10,059.62	-996.57	10,070.43	0.00	0.00	0.00
17,100.00	90.05	179.93	7,041.36	-10,159.62	-996.44	10,170.43	0.00	0.00	0.00
17,200.00	90.05	179.93	7,041.28	-10,259.62	-996.32	10,270.42	0.00	0.00	0.00
17,300.00	90.05	179.93	7,041.20	-10,359.62	-996.19	10,370.41	0.00	0.00	0.00
17,400.00	90.05	179.93	7,041.12	-10,459.62	-996.07	10,470.40	0.00	0.00	0.00
17,500.00	90.05	179.93	7,041.04	-10,559.62	-995.95	10,570.39	0.00	0.00	0.00
17,545.30	90.05	179.93	7,041.00	-10,604.92	-995.89	10,615.69	0.00	0.00	0.00
TD Well @ 17545.30ft									

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well ZELDA 25-1HZ
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 25-1HZ	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 (")
	1,519.24	1,500.00	9 5/8" Csg	9-5/8	13-1/2
	7,512.26	7,049.00	Top of Production	5-1/2	7-7/8

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,387.32	1,372.00	Fox Hills			
	4,061.51	3,967.00	Parkman			
	4,519.29	4,420.00	Sussex			
	7,081.41	6,909.00	Sharon Springs			
	7,150.09	6,949.00	Niobrara			
	7,315.55	7,019.00	Nio B			

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
	1,183.33	1,174.07	7.91	-113.19	Start 2800.00 hold at 1183.33 MD
	3,983.33	3,890.90	55.17	-788.92	Start Drop -2.00
	4,683.33	4,583.96	61.10	-873.81	Start 1828.42 hold at 4683.33 MD
	6,511.75	6,412.38	61.10	-873.81	KOP @ 6511.75ft
	7,050.00	6,888.75	-152.77	-887.35	DLS = 9°/100'
	7,512.26	7,049.00	-574.75	-914.06	End Build @ 7512.26ft
	8,883.23	7,047.91	-1,942.98	-1,000.69	Begin Turn to BHL @ 8883.23ft
	9,067.92	7,047.76	-2,127.55	-1,006.41	End Turn @ 9067.92ft
	17,545.30	7,041.00	-10,604.92	-995.89	TD Well @ 17545.30ft