

US ROCKIES WATTENBERG PLANNING

**WELD-NAD83-UTMFT13N
2N-65W-25 Zelda 29-25HZ Pad
ZELDA 25-3HZ**

Plan A

Plan: Permit Rev-1

SHL Latitude/Longitude: 40.115730/-104.617493
Survey Program: MWD+IFR+MSA

Standard Planning Report

21 August, 2017

Project: WELD-NAD83-UTMFT13N
 Site: 2N-65W-25 Zelda 29-25HZ Pad
 Well: ZELDA 25-3HZ
 Wellbore: Plan A
 Design: Permit Rev-1

US ROCKIES WATTENBERG PLANNING

CASING DETAILS

TVD	MD	Size
1500.00	1508.79	9-5/8
6973.00	7366.73	5-1/2

WELL DETAILS: ZELDA 25-3HZ
 GL = 4903'
 RKB = 17' @ 4920.00usft (Drilling Rig)

SECTION DETAILS

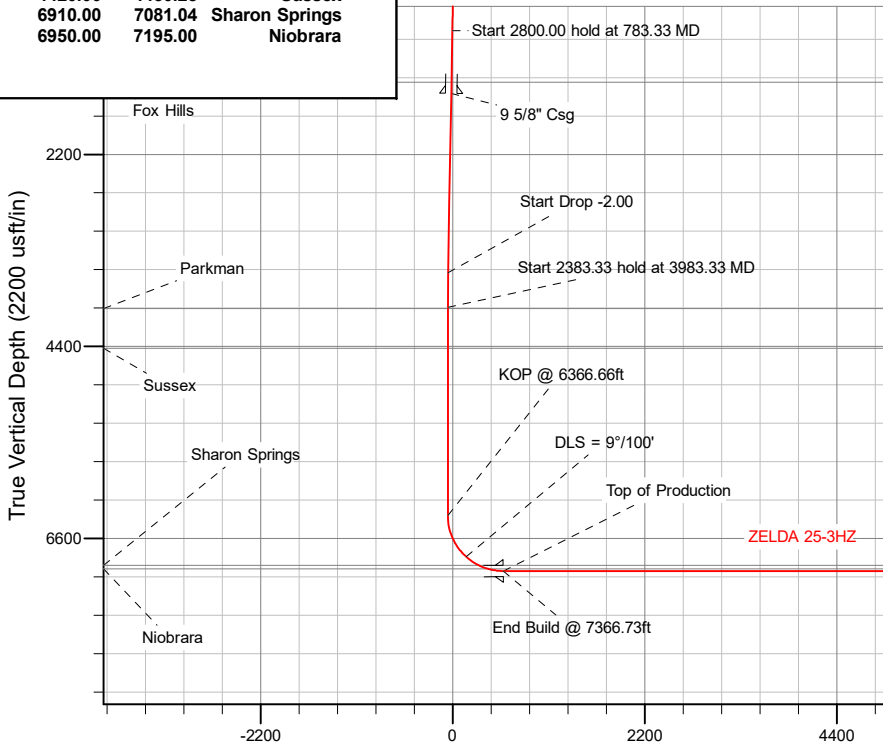
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	
3	783.33	8.00	277.00	781.60	4.53	-36.90	1.50	277.00	-4.70	
4	3583.33	8.00	277.00	3554.35	52.02	-423.68	0.00	0.00	-53.94	
5	3983.33	0.00	0.00	3953.05	55.42	-451.35	2.00	180.00	-57.47	
6	6366.66	0.00	0.00	6336.38	55.42	-451.35	0.00	0.00	-57.47	
7	7366.73	90.01	179.74	6973.00	-581.26	-448.45	9.00	179.74	579.22	ZELDA 25-3HZ_BHL
8	17394.81	90.01	179.74	6972.00	-10609.24	-402.83	0.00	0.00	10607.30	ZELDA 25-3HZ_BHL

WELLBORE TARGET DETAILS (LAT/LONG)

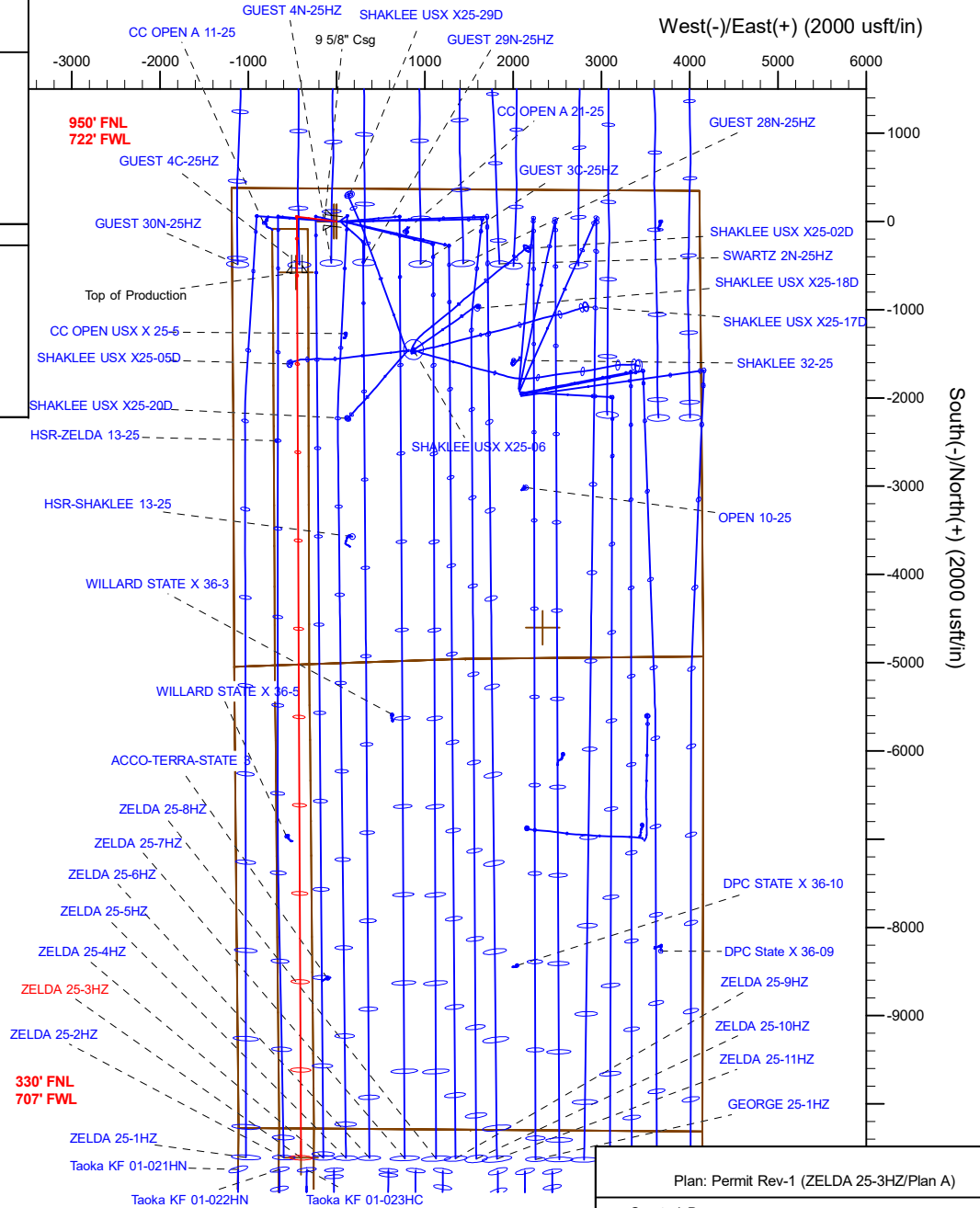
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
ZELDA 25-3HZ_SHL	0.00	0.00	0.00	40.115730	-104.617493
ZELDA 25-3HZ_BHL	6972.00	-10609.24	-402.83	40.086596	-104.618933

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1372.00	1379.53	Fox Hills
3967.00	3997.28	Parkman
4420.00	4450.28	Sussex
6910.00	7081.04	Sharon Springs
6950.00	7195.00	Niobrara



Vertical Section at 179.74° (2200 usft/in)



Plan: Permit Rev-1 (ZELDA 25-3HZ/Plan A)

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

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well ZELDA 25-3HZ
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 25-3HZ	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 25-3HZ					
Well Position	+N-S	-0.36 usft	Northing:	14,569,105.87 usft	Latitude:	40.115730
	+E-W	29.92 usft	Easting:	1,747,357.19 usft	Longitude:	-104.617493
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	52,347.22316679

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	179.74

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	17,394.81	Permit Rev-1 (Plan A)	APC_ISCWSA REV 2 MWD+II Fixed:v2:Rockies, crustal dec +	

Corporate Planning Report

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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 25-3HZ	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	
783.33	8.00	277.00	781.60	4.53	-36.90	1.50	1.50	0.00	277.00	
3,583.33	8.00	277.00	3,554.35	52.02	-423.68	0.00	0.00	0.00	0.00	
3,983.33	0.00	0.00	3,953.05	55.42	-451.35	2.00	-2.00	0.00	180.00	
6,366.66	0.00	0.00	6,336.38	55.42	-451.35	0.00	0.00	0.00	0.00	
7,366.73	90.01	179.74	6,973.00	-581.26	-448.45	9.00	9.00	17.97	179.74	
17,394.81	90.01	179.74	6,972.00	-10,609.24	-402.83	0.00	0.00	0.00	0.00	ZELDA 25-3HZ_BHL

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well ZELDA 25-3HZ
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 25-3HZ	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	277.00	300.00	0.04	-0.32	-0.04	1.50	1.50	0.00
400.00	2.25	277.00	399.96	0.36	-2.92	-0.37	1.50	1.50	0.00
500.00	3.75	277.00	499.82	1.00	-8.12	-1.03	1.50	1.50	0.00
600.00	5.25	277.00	599.51	1.95	-15.90	-2.02	1.50	1.50	0.00
700.00	6.75	277.00	698.96	3.23	-26.28	-3.35	1.50	1.50	0.00
783.33	8.00	277.00	781.60	4.53	-36.90	-4.70	1.50	1.50	0.00
Start 2800.00 hold at 783.33 MD									
800.00	8.00	277.00	798.11	4.81	-39.20	-4.99	0.00	0.00	0.00
900.00	8.00	277.00	897.13	6.51	-53.01	-6.75	0.00	0.00	0.00
1,000.00	8.00	277.00	996.16	8.21	-66.83	-8.51	0.00	0.00	0.00
1,100.00	8.00	277.00	1,095.19	9.90	-80.64	-10.27	0.00	0.00	0.00
1,200.00	8.00	277.00	1,194.21	11.60	-94.45	-12.03	0.00	0.00	0.00
1,300.00	8.00	277.00	1,293.24	13.29	-108.27	-13.78	0.00	0.00	0.00
1,379.53	8.00	277.00	1,372.00	14.64	-119.25	-15.18	0.00	0.00	0.00
Fox Hills									
1,400.00	8.00	277.00	1,392.27	14.99	-122.08	-15.54	0.00	0.00	0.00
1,500.00	8.00	277.00	1,491.29	16.69	-135.89	-17.30	0.00	0.00	0.00
1,508.79	8.00	277.00	1,500.00	16.83	-137.11	-17.46	0.00	0.00	0.00
9 5/8" Csg									
1,600.00	8.00	277.00	1,590.32	18.38	-149.71	-19.06	0.00	0.00	0.00
1,700.00	8.00	277.00	1,689.35	20.08	-163.52	-20.82	0.00	0.00	0.00
1,800.00	8.00	277.00	1,788.37	21.77	-177.33	-22.58	0.00	0.00	0.00
1,900.00	8.00	277.00	1,887.40	23.47	-191.15	-24.34	0.00	0.00	0.00
2,000.00	8.00	277.00	1,986.43	25.17	-204.96	-26.10	0.00	0.00	0.00
2,100.00	8.00	277.00	2,085.46	26.86	-218.77	-27.85	0.00	0.00	0.00
2,200.00	8.00	277.00	2,184.48	28.56	-232.59	-29.61	0.00	0.00	0.00
2,300.00	8.00	277.00	2,283.51	30.25	-246.40	-31.37	0.00	0.00	0.00
2,400.00	8.00	277.00	2,382.54	31.95	-260.22	-33.13	0.00	0.00	0.00
2,500.00	8.00	277.00	2,481.56	33.65	-274.03	-34.89	0.00	0.00	0.00
2,600.00	8.00	277.00	2,580.59	35.34	-287.84	-36.65	0.00	0.00	0.00
2,700.00	8.00	277.00	2,679.62	37.04	-301.66	-38.41	0.00	0.00	0.00
2,800.00	8.00	277.00	2,778.64	38.73	-315.47	-40.17	0.00	0.00	0.00
2,900.00	8.00	277.00	2,877.67	40.43	-329.28	-41.92	0.00	0.00	0.00
3,000.00	8.00	277.00	2,976.70	42.13	-343.10	-43.68	0.00	0.00	0.00
3,100.00	8.00	277.00	3,075.72	43.82	-356.91	-45.44	0.00	0.00	0.00
3,200.00	8.00	277.00	3,174.75	45.52	-370.72	-47.20	0.00	0.00	0.00
3,300.00	8.00	277.00	3,273.78	47.22	-384.54	-48.96	0.00	0.00	0.00
3,400.00	8.00	277.00	3,372.80	48.91	-398.35	-50.72	0.00	0.00	0.00
3,500.00	8.00	277.00	3,471.83	50.61	-412.16	-52.48	0.00	0.00	0.00
3,583.33	8.00	277.00	3,554.35	52.02	-423.68	-53.94	0.00	0.00	0.00
Start Drop -2.00									
3,600.00	7.67	277.00	3,570.86	52.30	-425.93	-54.23	2.00	-2.00	0.00
3,700.00	5.67	277.00	3,670.18	53.71	-437.45	-55.70	2.00	-2.00	0.00
3,800.00	3.67	277.00	3,769.85	54.70	-445.53	-56.73	2.00	-2.00	0.00
3,900.00	1.67	277.00	3,869.73	55.27	-450.15	-57.31	2.00	-2.00	0.00
3,983.33	0.00	0.00	3,953.05	55.42	-451.35	-57.47	2.00	-2.00	0.00
Start 2383.33 hold at 3983.33 MD									
3,997.28	0.00	0.00	3,967.00	55.42	-451.35	-57.47	0.00	0.00	0.00

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well ZELDA 25-3HZ
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 25-3HZ	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)
Parkman									
4,000.00	0.00	0.00	3,969.72	55.42	-451.35	-57.47	0.00	0.00	0.00
4,100.00	0.00	0.00	4,069.72	55.42	-451.35	-57.47	0.00	0.00	0.00
4,200.00	0.00	0.00	4,169.72	55.42	-451.35	-57.47	0.00	0.00	0.00
4,300.00	0.00	0.00	4,269.72	55.42	-451.35	-57.47	0.00	0.00	0.00
4,400.00	0.00	0.00	4,369.72	55.42	-451.35	-57.47	0.00	0.00	0.00
4,450.28	0.00	0.00	4,420.00	55.42	-451.35	-57.47	0.00	0.00	0.00
Sussex									
4,500.00	0.00	0.00	4,469.72	55.42	-451.35	-57.47	0.00	0.00	0.00
4,600.00	0.00	0.00	4,569.72	55.42	-451.35	-57.47	0.00	0.00	0.00
4,700.00	0.00	0.00	4,669.72	55.42	-451.35	-57.47	0.00	0.00	0.00
4,800.00	0.00	0.00	4,769.72	55.42	-451.35	-57.47	0.00	0.00	0.00
4,900.00	0.00	0.00	4,869.72	55.42	-451.35	-57.47	0.00	0.00	0.00
5,000.00	0.00	0.00	4,969.72	55.42	-451.35	-57.47	0.00	0.00	0.00
5,100.00	0.00	0.00	5,069.72	55.42	-451.35	-57.47	0.00	0.00	0.00
5,200.00	0.00	0.00	5,169.72	55.42	-451.35	-57.47	0.00	0.00	0.00
5,300.00	0.00	0.00	5,269.72	55.42	-451.35	-57.47	0.00	0.00	0.00
5,400.00	0.00	0.00	5,369.72	55.42	-451.35	-57.47	0.00	0.00	0.00
5,500.00	0.00	0.00	5,469.72	55.42	-451.35	-57.47	0.00	0.00	0.00
5,600.00	0.00	0.00	5,569.72	55.42	-451.35	-57.47	0.00	0.00	0.00
5,700.00	0.00	0.00	5,669.72	55.42	-451.35	-57.47	0.00	0.00	0.00
5,800.00	0.00	0.00	5,769.72	55.42	-451.35	-57.47	0.00	0.00	0.00
5,900.00	0.00	0.00	5,869.72	55.42	-451.35	-57.47	0.00	0.00	0.00
6,000.00	0.00	0.00	5,969.72	55.42	-451.35	-57.47	0.00	0.00	0.00
6,100.00	0.00	0.00	6,069.72	55.42	-451.35	-57.47	0.00	0.00	0.00
6,200.00	0.00	0.00	6,169.72	55.42	-451.35	-57.47	0.00	0.00	0.00
6,300.00	0.00	0.00	6,269.72	55.42	-451.35	-57.47	0.00	0.00	0.00
6,366.66	0.00	0.00	6,336.38	55.42	-451.35	-57.47	0.00	0.00	0.00
KOP @ 6366.66ft									
6,400.00	3.00	179.74	6,369.71	54.55	-451.34	-56.59	9.00	9.00	0.00
6,500.00	12.00	179.74	6,468.75	41.51	-451.29	-43.55	9.00	9.00	0.00
6,600.00	21.00	179.74	6,564.53	13.13	-451.16	-15.18	9.00	9.00	0.00
6,700.00	30.00	179.74	6,654.70	-29.87	-450.96	27.83	9.00	9.00	0.00
6,800.00	39.00	179.74	6,737.02	-86.46	-450.70	84.41	9.00	9.00	0.00
6,900.00	48.00	179.74	6,809.49	-155.22	-450.39	153.17	9.00	9.00	0.00
DLS = 9°/100'									
7,000.00	57.00	179.74	6,870.30	-234.47	-450.03	232.43	9.00	9.00	0.00
7,081.04	64.29	179.74	6,910.00	-305.06	-449.71	303.02	9.00	9.00	0.00
Sharon Springs									
7,100.00	66.00	179.74	6,917.97	-322.26	-449.63	320.22	9.00	9.00	0.00
7,195.00	74.55	179.74	6,950.00	-411.61	-449.22	409.56	9.00	9.00	0.00
Niobrara									
7,200.00	75.00	179.74	6,951.31	-416.43	-449.20	414.39	9.00	9.00	0.00
7,300.00	84.00	179.74	6,969.52	-514.65	-448.75	512.61	9.00	9.00	0.00
7,366.73	90.01	179.74	6,973.00	-581.26	-448.45	579.22	9.00	9.00	0.00
End Build @ 7366.73ft - Top of Production									
7,400.00	90.01	179.74	6,973.00	-614.53	-448.30	612.49	0.00	0.00	0.00
7,500.00	90.01	179.74	6,972.99	-714.53	-447.85	712.49	0.00	0.00	0.00
7,600.00	90.01	179.74	6,972.98	-814.53	-447.39	812.49	0.00	0.00	0.00
7,700.00	90.01	179.74	6,972.97	-914.53	-446.94	912.49	0.00	0.00	0.00
7,800.00	90.01	179.74	6,972.96	-1,014.53	-446.48	1,012.49	0.00	0.00	0.00
7,900.00	90.01	179.74	6,972.95	-1,114.53	-446.03	1,112.49	0.00	0.00	0.00
8,000.00	90.01	179.74	6,972.94	-1,214.52	-445.57	1,212.49	0.00	0.00	0.00

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well ZELDA 25-3HZ
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 25-3HZ	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)
8,100.00	90.01	179.74	6,972.93	-1,314.52	-445.12	1,312.49	0.00	0.00	0.00
8,200.00	90.01	179.74	6,972.92	-1,414.52	-444.66	1,412.49	0.00	0.00	0.00
8,300.00	90.01	179.74	6,972.91	-1,514.52	-444.21	1,512.49	0.00	0.00	0.00
8,400.00	90.01	179.74	6,972.90	-1,614.52	-443.75	1,612.49	0.00	0.00	0.00
8,500.00	90.01	179.74	6,972.89	-1,714.52	-443.30	1,712.49	0.00	0.00	0.00
8,600.00	90.01	179.74	6,972.88	-1,814.52	-442.84	1,812.49	0.00	0.00	0.00
8,700.00	90.01	179.74	6,972.87	-1,914.52	-442.39	1,912.49	0.00	0.00	0.00
8,800.00	90.01	179.74	6,972.86	-2,014.52	-441.93	2,012.49	0.00	0.00	0.00
8,900.00	90.01	179.74	6,972.85	-2,114.52	-441.48	2,112.49	0.00	0.00	0.00
9,000.00	90.01	179.74	6,972.84	-2,214.51	-441.02	2,212.49	0.00	0.00	0.00
9,100.00	90.01	179.74	6,972.83	-2,314.51	-440.57	2,312.49	0.00	0.00	0.00
9,200.00	90.01	179.74	6,972.82	-2,414.51	-440.11	2,412.49	0.00	0.00	0.00
9,300.00	90.01	179.74	6,972.81	-2,514.51	-439.66	2,512.49	0.00	0.00	0.00
9,400.00	90.01	179.74	6,972.80	-2,614.51	-439.20	2,612.49	0.00	0.00	0.00
9,500.00	90.01	179.74	6,972.79	-2,714.51	-438.75	2,712.49	0.00	0.00	0.00
9,600.00	90.01	179.74	6,972.78	-2,814.51	-438.29	2,812.49	0.00	0.00	0.00
9,700.00	90.01	179.74	6,972.77	-2,914.51	-437.84	2,912.49	0.00	0.00	0.00
9,800.00	90.01	179.74	6,972.76	-3,014.51	-437.38	3,012.49	0.00	0.00	0.00
9,900.00	90.01	179.74	6,972.75	-3,114.51	-436.93	3,112.49	0.00	0.00	0.00
10,000.00	90.01	179.74	6,972.74	-3,214.50	-436.47	3,212.49	0.00	0.00	0.00
10,100.00	90.01	179.74	6,972.73	-3,314.50	-436.02	3,312.49	0.00	0.00	0.00
10,200.00	90.01	179.74	6,972.72	-3,414.50	-435.56	3,412.49	0.00	0.00	0.00
10,300.00	90.01	179.74	6,972.71	-3,514.50	-435.11	3,512.49	0.00	0.00	0.00
10,400.00	90.01	179.74	6,972.70	-3,614.50	-434.65	3,612.49	0.00	0.00	0.00
10,500.00	90.01	179.74	6,972.69	-3,714.50	-434.20	3,712.49	0.00	0.00	0.00
10,600.00	90.01	179.74	6,972.68	-3,814.50	-433.74	3,812.49	0.00	0.00	0.00
10,700.00	90.01	179.74	6,972.67	-3,914.50	-433.29	3,912.49	0.00	0.00	0.00
10,800.00	90.01	179.74	6,972.66	-4,014.50	-432.83	4,012.49	0.00	0.00	0.00
10,900.00	90.01	179.74	6,972.65	-4,114.49	-432.38	4,112.49	0.00	0.00	0.00
11,000.00	90.01	179.74	6,972.64	-4,214.49	-431.92	4,212.49	0.00	0.00	0.00
11,100.00	90.01	179.74	6,972.63	-4,314.49	-431.47	4,312.49	0.00	0.00	0.00
11,200.00	90.01	179.74	6,972.62	-4,414.49	-431.01	4,412.49	0.00	0.00	0.00
11,300.00	90.01	179.74	6,972.61	-4,514.49	-430.56	4,512.49	0.00	0.00	0.00
11,400.00	90.01	179.74	6,972.60	-4,614.49	-430.10	4,612.49	0.00	0.00	0.00
11,500.00	90.01	179.74	6,972.59	-4,714.49	-429.65	4,712.49	0.00	0.00	0.00
11,600.00	90.01	179.74	6,972.58	-4,814.49	-429.19	4,812.49	0.00	0.00	0.00
11,700.00	90.01	179.74	6,972.57	-4,914.49	-428.74	4,912.49	0.00	0.00	0.00
11,800.00	90.01	179.74	6,972.56	-5,014.49	-428.28	5,012.49	0.00	0.00	0.00
11,900.00	90.01	179.74	6,972.55	-5,114.48	-427.83	5,112.49	0.00	0.00	0.00
12,000.00	90.01	179.74	6,972.54	-5,214.48	-427.37	5,212.49	0.00	0.00	0.00
12,100.00	90.01	179.74	6,972.53	-5,314.48	-426.92	5,312.49	0.00	0.00	0.00
12,200.00	90.01	179.74	6,972.52	-5,414.48	-426.46	5,412.49	0.00	0.00	0.00
12,300.00	90.01	179.74	6,972.51	-5,514.48	-426.01	5,512.49	0.00	0.00	0.00
12,400.00	90.01	179.74	6,972.50	-5,614.48	-425.55	5,612.49	0.00	0.00	0.00
12,500.00	90.01	179.74	6,972.49	-5,714.48	-425.10	5,712.49	0.00	0.00	0.00
12,600.00	90.01	179.74	6,972.48	-5,814.48	-424.65	5,812.49	0.00	0.00	0.00
12,700.00	90.01	179.74	6,972.47	-5,914.48	-424.19	5,912.49	0.00	0.00	0.00
12,800.00	90.01	179.74	6,972.46	-6,014.48	-423.74	6,012.49	0.00	0.00	0.00
12,900.00	90.01	179.74	6,972.45	-6,114.47	-423.28	6,112.49	0.00	0.00	0.00
13,000.00	90.01	179.74	6,972.44	-6,214.47	-422.83	6,212.49	0.00	0.00	0.00
13,100.00	90.01	179.74	6,972.43	-6,314.47	-422.37	6,312.49	0.00	0.00	0.00
13,200.00	90.01	179.74	6,972.42	-6,414.47	-421.92	6,412.49	0.00	0.00	0.00
13,300.00	90.01	179.74	6,972.41	-6,514.47	-421.46	6,512.49	0.00	0.00	0.00
13,400.00	90.01	179.74	6,972.40	-6,614.47	-421.01	6,612.49	0.00	0.00	0.00

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well ZELDA 25-3HZ
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 25-3HZ	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)
13,500.00	90.01	179.74	6,972.39	-6,714.47	-420.55	6,712.49	0.00	0.00	0.00
13,600.00	90.01	179.74	6,972.38	-6,814.47	-420.10	6,812.49	0.00	0.00	0.00
13,700.00	90.01	179.74	6,972.37	-6,914.47	-419.64	6,912.49	0.00	0.00	0.00
13,800.00	90.01	179.74	6,972.36	-7,014.46	-419.19	7,012.49	0.00	0.00	0.00
13,900.00	90.01	179.74	6,972.35	-7,114.46	-418.73	7,112.49	0.00	0.00	0.00
14,000.00	90.01	179.74	6,972.34	-7,214.46	-418.28	7,212.49	0.00	0.00	0.00
14,100.00	90.01	179.74	6,972.33	-7,314.46	-417.82	7,312.49	0.00	0.00	0.00
14,200.00	90.01	179.74	6,972.32	-7,414.46	-417.37	7,412.49	0.00	0.00	0.00
14,300.00	90.01	179.74	6,972.31	-7,514.46	-416.91	7,512.49	0.00	0.00	0.00
14,400.00	90.01	179.74	6,972.30	-7,614.46	-416.46	7,612.49	0.00	0.00	0.00
14,500.00	90.01	179.74	6,972.29	-7,714.46	-416.00	7,712.49	0.00	0.00	0.00
14,600.00	90.01	179.74	6,972.28	-7,814.46	-415.55	7,812.49	0.00	0.00	0.00
14,700.00	90.01	179.74	6,972.27	-7,914.46	-415.09	7,912.49	0.00	0.00	0.00
14,800.00	90.01	179.74	6,972.26	-8,014.45	-414.64	8,012.49	0.00	0.00	0.00
14,900.00	90.01	179.74	6,972.25	-8,114.45	-414.18	8,112.49	0.00	0.00	0.00
15,000.00	90.01	179.74	6,972.24	-8,214.45	-413.73	8,212.49	0.00	0.00	0.00
15,100.00	90.01	179.74	6,972.23	-8,314.45	-413.27	8,312.49	0.00	0.00	0.00
15,200.00	90.01	179.74	6,972.22	-8,414.45	-412.82	8,412.49	0.00	0.00	0.00
15,300.00	90.01	179.74	6,972.21	-8,514.45	-412.36	8,512.49	0.00	0.00	0.00
15,400.00	90.01	179.74	6,972.20	-8,614.45	-411.91	8,612.49	0.00	0.00	0.00
15,500.00	90.01	179.74	6,972.19	-8,714.45	-411.45	8,712.49	0.00	0.00	0.00
15,600.00	90.01	179.74	6,972.18	-8,814.45	-411.00	8,812.49	0.00	0.00	0.00
15,700.00	90.01	179.74	6,972.17	-8,914.45	-410.54	8,912.49	0.00	0.00	0.00
15,800.00	90.01	179.74	6,972.16	-9,014.44	-410.09	9,012.49	0.00	0.00	0.00
15,900.00	90.01	179.74	6,972.15	-9,114.44	-409.63	9,112.49	0.00	0.00	0.00
16,000.00	90.01	179.74	6,972.14	-9,214.44	-409.18	9,212.49	0.00	0.00	0.00
16,100.00	90.01	179.74	6,972.13	-9,314.44	-408.72	9,312.49	0.00	0.00	0.00
16,200.00	90.01	179.74	6,972.12	-9,414.44	-408.27	9,412.49	0.00	0.00	0.00
16,300.00	90.01	179.74	6,972.11	-9,514.44	-407.81	9,512.49	0.00	0.00	0.00
16,400.00	90.01	179.74	6,972.10	-9,614.44	-407.36	9,612.49	0.00	0.00	0.00
16,500.00	90.01	179.74	6,972.09	-9,714.44	-406.90	9,712.49	0.00	0.00	0.00
16,600.00	90.01	179.74	6,972.08	-9,814.44	-406.45	9,812.49	0.00	0.00	0.00
16,700.00	90.01	179.74	6,972.07	-9,914.43	-405.99	9,912.49	0.00	0.00	0.00
16,800.00	90.01	179.74	6,972.06	-10,014.43	-405.54	10,012.49	0.00	0.00	0.00
16,900.00	90.01	179.74	6,972.05	-10,114.43	-405.08	10,112.49	0.00	0.00	0.00
17,000.00	90.01	179.74	6,972.04	-10,214.43	-404.63	10,212.49	0.00	0.00	0.00
17,100.00	90.01	179.74	6,972.03	-10,314.43	-404.17	10,312.49	0.00	0.00	0.00
17,200.00	90.01	179.74	6,972.02	-10,414.43	-403.72	10,412.49	0.00	0.00	0.00
17,300.00	90.01	179.74	6,972.01	-10,514.43	-403.26	10,512.49	0.00	0.00	0.00
17,394.81	90.01	179.74	6,972.00	-10,609.24	-402.83	10,607.30	0.00	0.00	0.00
TD Well @ 17394.81ft									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,508.79	1,500.00	9 5/8" Csg	9-5/8	13-1/2	
7,366.73	6,973.00	Top of Production	5-1/2	7-7/8	

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well ZELDA 25-3HZ
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 25-3HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Permit Rev-1		

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,379.53	1,372.00	Fox Hills			
	3,997.28	3,967.00	Parkman			
	4,450.28	4,420.00	Sussex			
	7,081.04	6,910.00	Sharon Springs			
	7,195.00	6,950.00	Niobrara			

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
	783.33	781.60	4.53	-36.90	Start 2800.00 hold at 783.33 MD
	3,583.33	3,554.35	52.02	-423.68	Start Drop -2.00
	3,983.33	3,953.05	55.42	-451.35	Start 2383.33 hold at 3983.33 MD
	6,366.66	6,336.38	55.42	-451.35	KOP @ 6366.66ft
	6,900.00	6,809.49	-155.22	-450.39	DLS = 9°/100'
	7,366.73	6,973.00	-581.26	-448.45	End Build @ 7366.73ft
	17,394.81	6,972.00	-10,609.24	-402.83	TD Well @ 17394.81ft