

US ROCKIES WATTENBERG PLANNING

**WELD-NAD83-UTMFT13N
2N-65W-25 George 7-25HZ Pad
GEORGE 25-5HZ**

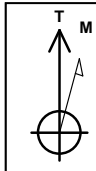
Plan A

Plan: Permit Rev-1

SHL Latitude/Longitude: 40.110377/-104.610050
Survey Program: MWD+IFR+MSA

Standard Planning Report

18 August, 2017



Azimuths to True North
Magnetic North: 7.93°

Magnetic Field
Strength: 52345.2snT
Dip Angle: 66.63°
Date: 8/16/2017
Model: IGRF2010

SITE: 2N-65W-25 George 7-25HZ Pad

Well: GEORGE 25-5HZ
Wellbore: Plan A
Design: Permit Rev-1

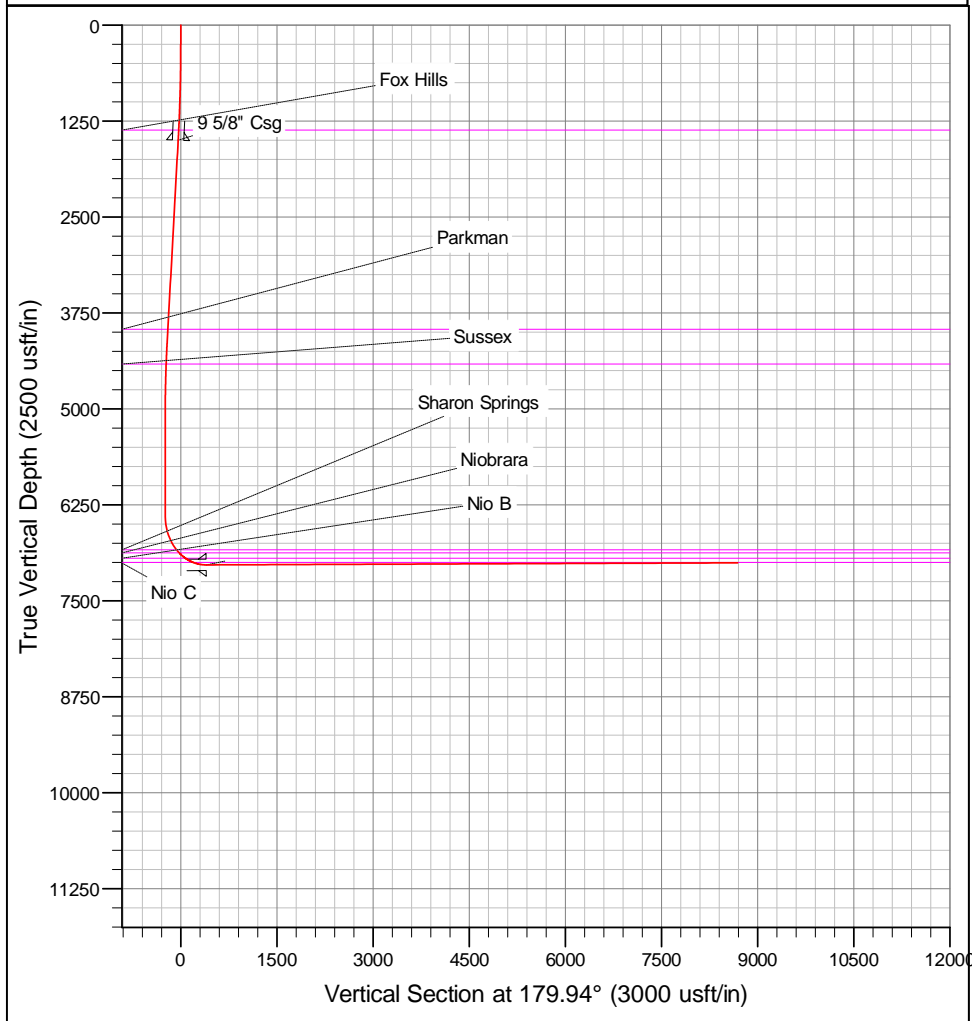
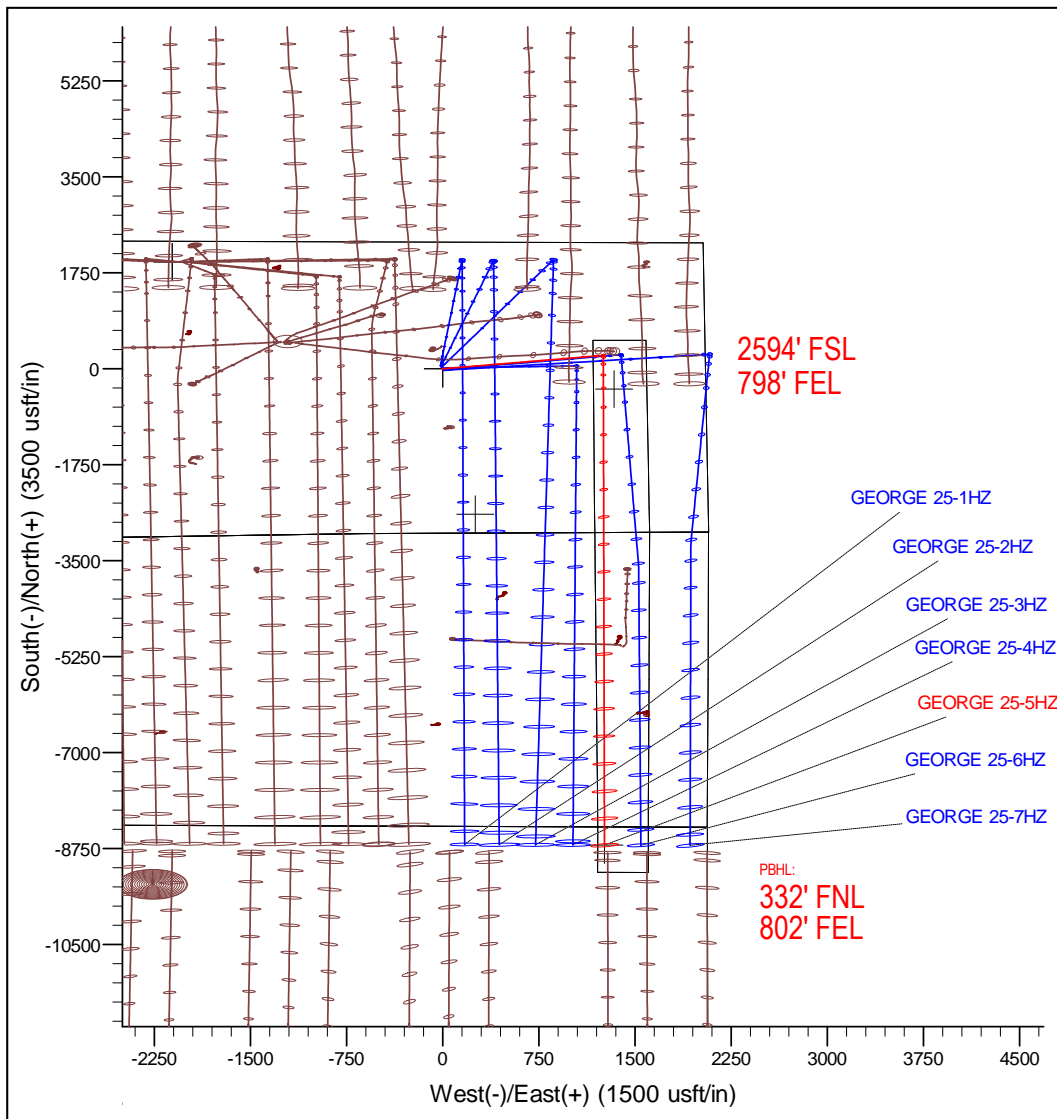
FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
1369.00	1385.66	Fox Hills
3964.00	4129.44	Parkman
4417.00	4604.06	Sussex
6837.00	7075.98	Sharon Springs
6877.00	7134.01	Niobrara
6945.00	7250.62	Nio B
7009.00	7413.96	Nio C

CASING DETAILS			
TVD	MD	Name	Size
1500.00	1523.46	9 5/8" Csg	9-5/8
7033.00	7591.41	Top of Production	5-1/2

WELL DETAILS: GEORGE 25-5HZ						
+N/-S	+E/-W	GL: 4900.00	RKB = 17' @ 4917.00usft (Drilling Rig)			Slot
		Northing	Easting	Latitude	Longitude	
0.00	0.00	14567165.62	1749446.64	40.110377	-104.610050	

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
GEORGE 25-5HZ_BHL7006.00		-8687.65	1261.28	14558483.58	1750746.01	40.086520	-104.605541

SECTION DETAILS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	Vsect	
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	
1516.67	19.00	79.00	1493.58	39.71	204.28	1.50	-39.49	
4316.67	19.00	79.00	4141.03	213.65	1099.12	0.00	-212.50	
5266.67	0.00	0.00	5073.71	243.43	1252.33	2.00	-242.12	
6589.34	0.00	0.00	6396.38	243.43	1252.33	0.00	-242.12	
7591.41	90.19	179.94	7033.00	-395.26	1252.97	9.00	396.58	
15883.85	90.19	179.94	7006.00	-8687.65	1261.28	0.00	8688.97	



Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well GEORGE 25-5HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB = 17' @ 4917.00usft (Drilling Rig)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB = 17' @ 4917.00usft (Drilling Rig)
Site:	2N-65W-25 George 7-25HZ Pad	North Reference:	True
Well:	GEORGE 25-5HZ	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 George 7-25HZ Pad				
Site Position:		Northing:	14,567,222.71 usft	Latitude:	40.110534
From:	Lat/Long	Easting:	1,749,428.22 usft	Longitude:	-104.610115
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.25 °

Well	GEORGE 25-5HZ					
Well Position	+N-S	-57.17 usft	Northing:	14,567,165.62 usft	Latitude:	40.110377
	+E-W	18.17 usft	Easting:	1,749,446.64 usft	Longitude:	-104.610050
Position Uncertainty		3.28 usft	Wellhead Elevation:		Ground Level:	4,900.00 usft

Wellbore	Plan A				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/16/2017	7.93	66.63	52,345.18750614

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	179.94	

Plan Survey Tool Program		Date	8/18/2017		
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	15,883.85	Permit Rev-1 (Plan A)	APC_ISCWSA REV 2 MWD+II Fixed:v2:Rockies, crustal dec +	

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Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB = 17' @ 4917.00usft (Drilling Rig)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB = 17' @ 4917.00usft (Drilling Rig)
Site:	2N-65W-25 George 7-25HZ Pad	North Reference:	True
Well:	GEORGE 25-5HZ	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	
1,516.67	19.00	79.00	1,493.58	39.71	204.28	1.50	1.50	0.00	79.00	
4,316.67	19.00	79.00	4,141.03	213.65	1,099.12	0.00	0.00	0.00	0.00	
5,266.67	0.00	0.00	5,073.71	243.43	1,252.33	2.00	-2.00	-8.32	-180.00	
6,589.34	0.00	0.00	6,396.38	243.43	1,252.33	0.00	0.00	0.00	0.00	
7,591.41	90.19	179.94	7,033.00	-395.26	1,252.97	9.00	9.00	17.96	179.94	
15,883.85	90.19	179.94	7,006.00	-8,687.65	1,261.28	0.00	0.00	0.00	0.00	GEORGE 25-5HZ_B+

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well GEORGE 25-5HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB = 17' @ 4917.00usft (Drilling Rig)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB = 17' @ 4917.00usft (Drilling Rig)
Site:	2N-65W-25 George 7-25HZ Pad	North Reference:	True
Well:	GEORGE 25-5HZ	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	79.00	300.00	0.06	0.32	-0.06	1.50	1.50	0.00	
400.00	2.25	79.00	399.96	0.56	2.89	-0.56	1.50	1.50	0.00	
500.00	3.75	79.00	499.82	1.56	8.03	-1.55	1.50	1.50	0.00	
600.00	5.25	79.00	599.51	3.06	15.73	-3.04	1.50	1.50	0.00	
700.00	6.75	79.00	698.96	5.05	25.99	-5.02	1.50	1.50	0.00	
800.00	8.25	79.00	798.10	7.54	38.80	-7.50	1.50	1.50	0.00	
900.00	9.75	79.00	896.87	10.53	54.16	-10.47	1.50	1.50	0.00	
1,000.00	11.25	79.00	995.19	14.00	72.05	-13.93	1.50	1.50	0.00	
1,100.00	12.75	79.00	1,093.00	17.97	92.45	-17.87	1.50	1.50	0.00	
1,200.00	14.25	79.00	1,190.24	22.43	115.37	-22.30	1.50	1.50	0.00	
1,300.00	15.75	79.00	1,286.83	27.36	140.78	-27.22	1.50	1.50	0.00	
1,385.66	17.03	79.00	1,369.00	31.98	164.50	-31.80	1.50	1.50	0.00	
Fox Hills										
1,400.00	17.25	79.00	1,382.71	32.78	168.65	-32.61	1.50	1.50	0.00	
1,500.00	18.75	79.00	1,477.81	38.68	198.99	-38.47	1.50	1.50	0.00	
1,516.67	19.00	79.00	1,493.58	39.71	204.28	-39.49	1.50	1.50	0.00	
Start 2800.00 hold at 1516.67 MD										
1,523.46	19.00	79.00	1,500.00	40.13	206.45	-39.91	0.00	0.00	0.00	
9 5/8" Csg										
1,600.00	19.00	79.00	1,572.37	44.88	230.91	-44.64	0.00	0.00	0.00	
1,700.00	19.00	79.00	1,666.92	51.10	262.87	-50.82	0.00	0.00	0.00	
1,800.00	19.00	79.00	1,761.48	57.31	294.83	-57.00	0.00	0.00	0.00	
1,900.00	19.00	79.00	1,856.03	63.52	326.79	-63.18	0.00	0.00	0.00	
2,000.00	19.00	79.00	1,950.58	69.73	358.75	-69.36	0.00	0.00	0.00	
2,100.00	19.00	79.00	2,045.13	75.95	390.71	-75.54	0.00	0.00	0.00	
2,200.00	19.00	79.00	2,139.68	82.16	422.66	-81.71	0.00	0.00	0.00	
2,300.00	19.00	79.00	2,234.24	88.37	454.62	-87.89	0.00	0.00	0.00	
2,400.00	19.00	79.00	2,328.79	94.58	486.58	-94.07	0.00	0.00	0.00	
2,500.00	19.00	79.00	2,423.34	100.79	518.54	-100.25	0.00	0.00	0.00	
2,600.00	19.00	79.00	2,517.89	107.01	550.50	-106.43	0.00	0.00	0.00	
2,700.00	19.00	79.00	2,612.44	113.22	582.46	-112.61	0.00	0.00	0.00	
2,800.00	19.00	79.00	2,706.99	119.43	614.42	-118.79	0.00	0.00	0.00	
2,900.00	19.00	79.00	2,801.55	125.64	646.38	-124.97	0.00	0.00	0.00	
3,000.00	19.00	79.00	2,896.10	131.85	678.33	-131.14	0.00	0.00	0.00	
3,100.00	19.00	79.00	2,990.65	138.07	710.29	-137.32	0.00	0.00	0.00	
3,200.00	19.00	79.00	3,085.20	144.28	742.25	-143.50	0.00	0.00	0.00	
3,300.00	19.00	79.00	3,179.75	150.49	774.21	-149.68	0.00	0.00	0.00	
3,400.00	19.00	79.00	3,274.31	156.70	806.17	-155.86	0.00	0.00	0.00	
3,500.00	19.00	79.00	3,368.86	162.92	838.13	-162.04	0.00	0.00	0.00	
3,600.00	19.00	79.00	3,463.41	169.13	870.09	-168.22	0.00	0.00	0.00	
3,700.00	19.00	79.00	3,557.96	175.34	902.04	-174.39	0.00	0.00	0.00	
3,800.00	19.00	79.00	3,652.51	181.55	934.00	-180.57	0.00	0.00	0.00	
3,900.00	19.00	79.00	3,747.06	187.76	965.96	-186.75	0.00	0.00	0.00	
4,000.00	19.00	79.00	3,841.62	193.98	997.92	-192.93	0.00	0.00	0.00	
4,100.00	19.00	79.00	3,936.17	200.19	1,029.88	-199.11	0.00	0.00	0.00	
4,129.44	19.00	79.00	3,964.00	202.02	1,039.29	-200.93	0.00	0.00	0.00	
Parkman										
4,200.00	19.00	79.00	4,030.72	206.40	1,061.84	-205.29	0.00	0.00	0.00	
4,300.00	19.00	79.00	4,125.27	212.61	1,093.80	-211.47	0.00	0.00	0.00	

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well GEORGE 25-5HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB = 17' @ 4917.00usft (Drilling Rig)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB = 17' @ 4917.00usft (Drilling Rig)
Site:	2N-65W-25 George 7-25HZ Pad	North Reference:	True
Well:	GEORGE 25-5HZ	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)
4,316.67	19.00	79.00	4,141.03	213.65	1,099.12	-212.50	0.00	0.00	0.00
Start DLS 2.00 TFO -180.00									
4,400.00	17.33	79.00	4,220.21	218.61	1,124.63	-217.43	2.00	-2.00	0.00
4,500.00	15.33	79.00	4,316.17	223.97	1,152.23	-222.76	2.00	-2.00	0.00
4,600.00	13.33	79.00	4,413.05	228.69	1,176.53	-227.46	2.00	-2.00	0.00
4,604.06	13.25	79.00	4,417.00	228.87	1,177.45	-227.64	2.00	-2.00	0.00
Sussex									
4,700.00	11.33	79.00	4,510.74	232.77	1,197.50	-231.52	2.00	-2.00	0.00
4,800.00	9.33	79.00	4,609.11	236.19	1,215.10	-234.92	2.00	-2.00	0.00
4,900.00	7.33	79.00	4,708.05	238.96	1,229.33	-237.67	2.00	-2.00	0.00
5,000.00	5.33	79.00	4,807.43	241.06	1,240.16	-239.76	2.00	-2.00	0.00
5,100.00	3.33	79.00	4,907.14	242.50	1,247.58	-241.20	2.00	-2.00	0.00
5,200.00	1.33	79.00	5,007.05	243.28	1,251.57	-241.97	2.00	-2.00	0.00
5,266.67	0.00	0.00	5,073.71	243.43	1,252.33	-242.12	2.00	-2.00	-118.50
Start 1322.67 hold at 5266.67 MD									
5,300.00	0.00	0.00	5,107.05	243.43	1,252.33	-242.12	0.00	0.00	0.00
5,400.00	0.00	0.00	5,207.05	243.43	1,252.33	-242.12	0.00	0.00	0.00
5,500.00	0.00	0.00	5,307.05	243.43	1,252.33	-242.12	0.00	0.00	0.00
5,600.00	0.00	0.00	5,407.05	243.43	1,252.33	-242.12	0.00	0.00	0.00
5,700.00	0.00	0.00	5,507.05	243.43	1,252.33	-242.12	0.00	0.00	0.00
5,800.00	0.00	0.00	5,607.05	243.43	1,252.33	-242.12	0.00	0.00	0.00
5,900.00	0.00	0.00	5,707.05	243.43	1,252.33	-242.12	0.00	0.00	0.00
6,000.00	0.00	0.00	5,807.05	243.43	1,252.33	-242.12	0.00	0.00	0.00
6,100.00	0.00	0.00	5,907.05	243.43	1,252.33	-242.12	0.00	0.00	0.00
6,200.00	0.00	0.00	6,007.05	243.43	1,252.33	-242.12	0.00	0.00	0.00
6,300.00	0.00	0.00	6,107.05	243.43	1,252.33	-242.12	0.00	0.00	0.00
6,400.00	0.00	0.00	6,207.05	243.43	1,252.33	-242.12	0.00	0.00	0.00
6,500.00	0.00	0.00	6,307.05	243.43	1,252.33	-242.12	0.00	0.00	0.00
6,589.34	0.00	0.00	6,396.38	243.43	1,252.33	-242.12	0.00	0.00	0.00
KOP @ 6589.34ft									
6,600.00	0.96	179.94	6,407.05	243.34	1,252.33	-242.03	9.00	9.00	1,687.49
6,700.00	9.96	179.94	6,506.49	233.83	1,252.34	-232.52	9.00	9.00	0.00
6,800.00	18.96	179.94	6,603.22	208.89	1,252.37	-207.58	9.00	9.00	0.00
6,900.00	27.96	179.94	6,694.86	169.12	1,252.41	-167.81	9.00	9.00	0.00
7,000.00	36.96	179.94	6,779.15	115.51	1,252.46	-114.19	9.00	9.00	0.00
7,100.00	45.96	179.94	6,854.02	49.36	1,252.53	-48.05	9.00	9.00	0.00
7,150.00	50.46	179.94	6,887.33	12.09	1,252.56	-10.78	9.00	9.00	0.00
DLS = 9°/100'									
7,180.20	53.18	179.94	6,906.00	-11.65	1,252.59	12.96	9.00	9.00	0.00
Sharon Springs									
7,200.00	54.96	179.94	6,917.62	-27.67	1,252.60	28.99	9.00	9.00	0.00
7,252.59	59.69	179.94	6,946.00	-71.93	1,252.65	73.24	9.00	9.00	0.00
Niobrara									
7,300.00	63.96	179.94	6,968.38	-113.71	1,252.69	115.02	9.00	9.00	0.00
7,400.00	72.96	179.94	7,005.06	-206.63	1,252.78	207.94	9.00	9.00	0.00
7,413.96	74.22	179.94	7,009.00	-220.02	1,252.80	221.33	9.00	9.00	0.00
Nio B									
7,500.00	81.96	179.94	7,026.75	-304.15	1,252.88	305.46	9.00	9.00	0.00
7,591.41	90.19	179.94	7,033.00	-395.26	1,252.97	396.58	9.00	9.00	0.00
End Build @ 7591.41ft - Top of Production									
7,600.00	90.19	179.94	7,032.97	-403.85	1,252.98	405.17	0.00	0.00	0.00
7,700.00	90.19	179.94	7,032.65	-503.85	1,253.08	505.17	0.00	0.00	0.00
7,800.00	90.19	179.94	7,032.32	-603.85	1,253.18	605.16	0.00	0.00	0.00

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well GEORGE 25-5HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB = 17' @ 4917.00usft (Drilling Rig)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB = 17' @ 4917.00usft (Drilling Rig)
Site:	2N-65W-25 George 7-25HZ Pad	North Reference:	True
Well:	GEORGE 25-5HZ	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)
7,900.00	90.19	179.94	7,032.00	-703.85	1,253.28	705.16	0.00	0.00	0.00
8,000.00	90.19	179.94	7,031.67	-803.85	1,253.38	805.16	0.00	0.00	0.00
8,100.00	90.19	179.94	7,031.35	-903.85	1,253.48	905.16	0.00	0.00	0.00
8,200.00	90.19	179.94	7,031.02	-1,003.85	1,253.58	1,005.16	0.00	0.00	0.00
8,300.00	90.19	179.94	7,030.69	-1,103.85	1,253.68	1,105.16	0.00	0.00	0.00
8,400.00	90.19	179.94	7,030.37	-1,203.85	1,253.78	1,205.16	0.00	0.00	0.00
8,500.00	90.19	179.94	7,030.04	-1,303.85	1,253.88	1,305.16	0.00	0.00	0.00
8,600.00	90.19	179.94	7,029.72	-1,403.85	1,253.98	1,405.16	0.00	0.00	0.00
8,700.00	90.19	179.94	7,029.39	-1,503.85	1,254.08	1,505.16	0.00	0.00	0.00
8,800.00	90.19	179.94	7,029.07	-1,603.85	1,254.18	1,605.16	0.00	0.00	0.00
8,900.00	90.19	179.94	7,028.74	-1,703.85	1,254.28	1,705.16	0.00	0.00	0.00
9,000.00	90.19	179.94	7,028.41	-1,803.85	1,254.38	1,805.16	0.00	0.00	0.00
9,100.00	90.19	179.94	7,028.09	-1,903.85	1,254.48	1,905.16	0.00	0.00	0.00
9,200.00	90.19	179.94	7,027.76	-2,003.84	1,254.58	2,005.16	0.00	0.00	0.00
9,300.00	90.19	179.94	7,027.44	-2,103.84	1,254.68	2,105.16	0.00	0.00	0.00
9,400.00	90.19	179.94	7,027.11	-2,203.84	1,254.78	2,205.16	0.00	0.00	0.00
9,500.00	90.19	179.94	7,026.79	-2,303.84	1,254.88	2,305.16	0.00	0.00	0.00
9,600.00	90.19	179.94	7,026.46	-2,403.84	1,254.98	2,405.16	0.00	0.00	0.00
9,700.00	90.19	179.94	7,026.14	-2,503.84	1,255.09	2,505.15	0.00	0.00	0.00
9,800.00	90.19	179.94	7,025.81	-2,603.84	1,255.19	2,605.15	0.00	0.00	0.00
9,900.00	90.19	179.94	7,025.48	-2,703.84	1,255.29	2,705.15	0.00	0.00	0.00
10,000.00	90.19	179.94	7,025.16	-2,803.84	1,255.39	2,805.15	0.00	0.00	0.00
10,100.00	90.19	179.94	7,024.83	-2,903.84	1,255.49	2,905.15	0.00	0.00	0.00
10,200.00	90.19	179.94	7,024.51	-3,003.84	1,255.59	3,005.15	0.00	0.00	0.00
10,300.00	90.19	179.94	7,024.18	-3,103.84	1,255.69	3,105.15	0.00	0.00	0.00
10,400.00	90.19	179.94	7,023.86	-3,203.84	1,255.79	3,205.15	0.00	0.00	0.00
10,500.00	90.19	179.94	7,023.53	-3,303.84	1,255.89	3,305.15	0.00	0.00	0.00
10,600.00	90.19	179.94	7,023.21	-3,403.84	1,255.99	3,405.15	0.00	0.00	0.00
10,700.00	90.19	179.94	7,022.88	-3,503.84	1,256.09	3,505.15	0.00	0.00	0.00
10,800.00	90.19	179.94	7,022.55	-3,603.84	1,256.19	3,605.15	0.00	0.00	0.00
10,900.00	90.19	179.94	7,022.23	-3,703.83	1,256.29	3,705.15	0.00	0.00	0.00
11,000.00	90.19	179.94	7,021.90	-3,803.83	1,256.39	3,805.15	0.00	0.00	0.00
11,100.00	90.19	179.94	7,021.58	-3,903.83	1,256.49	3,905.15	0.00	0.00	0.00
11,200.00	90.19	179.94	7,021.25	-4,003.83	1,256.59	4,005.15	0.00	0.00	0.00
11,300.00	90.19	179.94	7,020.93	-4,103.83	1,256.69	4,105.15	0.00	0.00	0.00
11,400.00	90.19	179.94	7,020.60	-4,203.83	1,256.79	4,205.15	0.00	0.00	0.00
11,500.00	90.19	179.94	7,020.27	-4,303.83	1,256.89	4,305.15	0.00	0.00	0.00
11,600.00	90.19	179.94	7,019.95	-4,403.83	1,256.99	4,405.14	0.00	0.00	0.00
11,700.00	90.19	179.94	7,019.62	-4,503.83	1,257.09	4,505.14	0.00	0.00	0.00
11,800.00	90.19	179.94	7,019.30	-4,603.83	1,257.19	4,605.14	0.00	0.00	0.00
11,900.00	90.19	179.94	7,018.97	-4,703.83	1,257.29	4,705.14	0.00	0.00	0.00
12,000.00	90.19	179.94	7,018.65	-4,803.83	1,257.39	4,805.14	0.00	0.00	0.00
12,100.00	90.19	179.94	7,018.32	-4,903.83	1,257.49	4,905.14	0.00	0.00	0.00
12,200.00	90.19	179.94	7,018.00	-5,003.83	1,257.59	5,005.14	0.00	0.00	0.00
12,300.00	90.19	179.94	7,017.67	-5,103.83	1,257.69	5,105.14	0.00	0.00	0.00
12,400.00	90.19	179.94	7,017.34	-5,203.83	1,257.79	5,205.14	0.00	0.00	0.00
12,500.00	90.19	179.94	7,017.02	-5,303.83	1,257.89	5,305.14	0.00	0.00	0.00
12,600.00	90.19	179.94	7,016.69	-5,403.82	1,257.99	5,405.14	0.00	0.00	0.00
12,700.00	90.19	179.94	7,016.37	-5,503.82	1,258.09	5,505.14	0.00	0.00	0.00
12,800.00	90.19	179.94	7,016.04	-5,603.82	1,258.19	5,605.14	0.00	0.00	0.00
12,900.00	90.19	179.94	7,015.72	-5,703.82	1,258.29	5,705.14	0.00	0.00	0.00
13,000.00	90.19	179.94	7,015.39	-5,803.82	1,258.39	5,805.14	0.00	0.00	0.00
13,100.00	90.19	179.94	7,015.06	-5,903.82	1,258.49	5,905.14	0.00	0.00	0.00
13,200.00	90.19	179.94	7,014.74	-6,003.82	1,258.59	6,005.14	0.00	0.00	0.00

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well GEORGE 25-5HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB = 17' @ 4917.00usft (Drilling Rig)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB = 17' @ 4917.00usft (Drilling Rig)
Site:	2N-65W-25 George 7-25HZ Pad	North Reference:	True
Well:	GEORGE 25-5HZ	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)
13,300.00	90.19	179.94	7,014.41	-6,103.82	1,258.69	6,105.14	0.00	0.00	0.00
13,400.00	90.19	179.94	7,014.09	-6,203.82	1,258.79	6,205.14	0.00	0.00	0.00
13,500.00	90.19	179.94	7,013.76	-6,303.82	1,258.89	6,305.13	0.00	0.00	0.00
13,600.00	90.19	179.94	7,013.44	-6,403.82	1,258.99	6,405.13	0.00	0.00	0.00
13,700.00	90.19	179.94	7,013.11	-6,503.82	1,259.09	6,505.13	0.00	0.00	0.00
13,800.00	90.19	179.94	7,012.79	-6,603.82	1,259.19	6,605.13	0.00	0.00	0.00
13,900.00	90.19	179.94	7,012.46	-6,703.82	1,259.29	6,705.13	0.00	0.00	0.00
14,000.00	90.19	179.94	7,012.13	-6,803.82	1,259.39	6,805.13	0.00	0.00	0.00
14,100.00	90.19	179.94	7,011.81	-6,903.82	1,259.49	6,905.13	0.00	0.00	0.00
14,200.00	90.19	179.94	7,011.48	-7,003.82	1,259.59	7,005.13	0.00	0.00	0.00
14,300.00	90.19	179.94	7,011.16	-7,103.82	1,259.69	7,105.13	0.00	0.00	0.00
14,400.00	90.19	179.94	7,010.83	-7,203.81	1,259.79	7,205.13	0.00	0.00	0.00
14,500.00	90.19	179.94	7,010.51	-7,303.81	1,259.89	7,305.13	0.00	0.00	0.00
14,600.00	90.19	179.94	7,010.18	-7,403.81	1,259.99	7,405.13	0.00	0.00	0.00
14,700.00	90.19	179.94	7,009.85	-7,503.81	1,260.09	7,505.13	0.00	0.00	0.00
14,800.00	90.19	179.94	7,009.53	-7,603.81	1,260.19	7,605.13	0.00	0.00	0.00
14,900.00	90.19	179.94	7,009.20	-7,703.81	1,260.29	7,705.13	0.00	0.00	0.00
15,000.00	90.19	179.94	7,008.88	-7,803.81	1,260.39	7,805.13	0.00	0.00	0.00
15,100.00	90.19	179.94	7,008.55	-7,903.81	1,260.49	7,905.13	0.00	0.00	0.00
15,200.00	90.19	179.94	7,008.23	-8,003.81	1,260.59	8,005.13	0.00	0.00	0.00
15,300.00	90.19	179.94	7,007.90	-8,103.81	1,260.70	8,105.13	0.00	0.00	0.00
15,400.00	90.19	179.94	7,007.58	-8,203.81	1,260.80	8,205.12	0.00	0.00	0.00
15,500.00	90.19	179.94	7,007.25	-8,303.81	1,260.90	8,305.12	0.00	0.00	0.00
15,600.00	90.19	179.94	7,006.92	-8,403.81	1,261.00	8,405.12	0.00	0.00	0.00
15,700.00	90.19	179.94	7,006.60	-8,503.81	1,261.10	8,505.12	0.00	0.00	0.00
15,800.00	90.19	179.94	7,006.27	-8,603.81	1,261.20	8,605.12	0.00	0.00	0.00
15,883.85	90.19	179.94	7,006.00	-8,687.65	1,261.28	8,688.97	0.00	0.00	0.00
TD Well @ 15883.85ft									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,523.46	1,500.00	9 5/8" Csg	9-5/8	13-1/2	
7,591.41	7,033.00	Top of Production	5-1/2	7-7/8	

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,385.66	1,369.00	Fox Hills			
4,129.44	3,964.00	Parkman			
4,604.06	4,417.00	Sussex			
7,180.20	6,906.00	Sharon Springs			
7,252.59	6,946.00	Niobrara			
7,413.96	7,009.00	Nio B			

Corporate Planning Report

Database:	PLANNING	Local Co-ordinate Reference:	Well GEORGE 25-5HZ
Company:	US ROCKIES WATTENBERG PLANNING	TVD Reference:	RKB = 17' @ 4917.00usft (Drilling Rig)
Project:	WELD-NAD83-UTMFT13N	MD Reference:	RKB = 17' @ 4917.00usft (Drilling Rig)
Site:	2N-65W-25 George 7-25HZ Pad	North Reference:	True
Well:	GEORGE 25-5HZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan A		
Design:	Permit Rev-1		

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
1,516.67	1,493.58	39.71	204.28	Start 2800.00 hold at 1516.67 MD
4,316.67	4,141.03	213.65	1,099.12	Start DLS 2.00 TFO -180.00
5,266.67	5,073.71	243.43	1,252.33	Start 1322.67 hold at 5266.67 MD
6,589.34	6,396.38	243.43	1,252.33	KOP @ 6589.34ft
7,150.00	6,887.33	12.09	1,252.56	DLS = 9"/100'
7,591.41	7,033.00	-395.26	1,252.97	End Build @ 7591.41ft
15,883.85	7,006.00	-8,687.65	1,261.28	TD Well @ 15883.85ft