



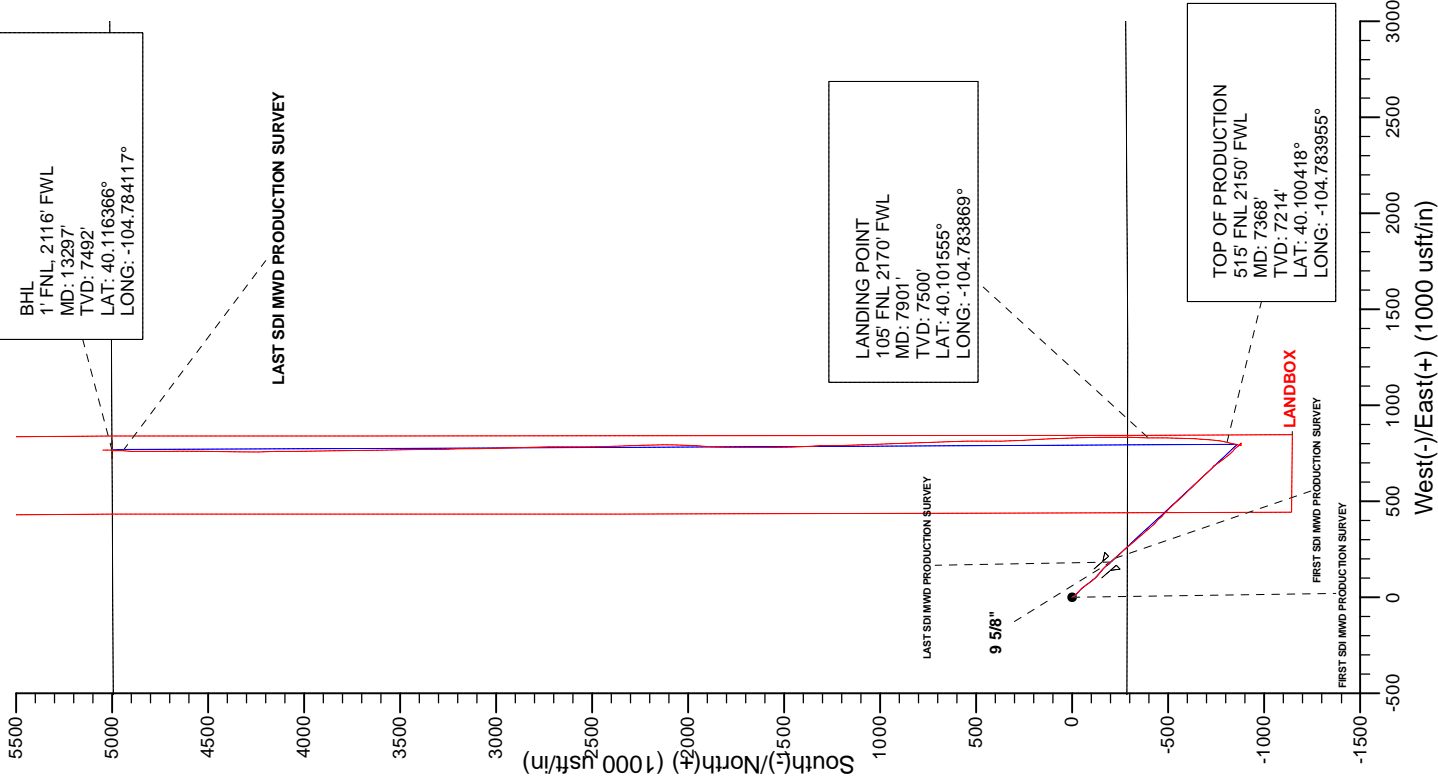
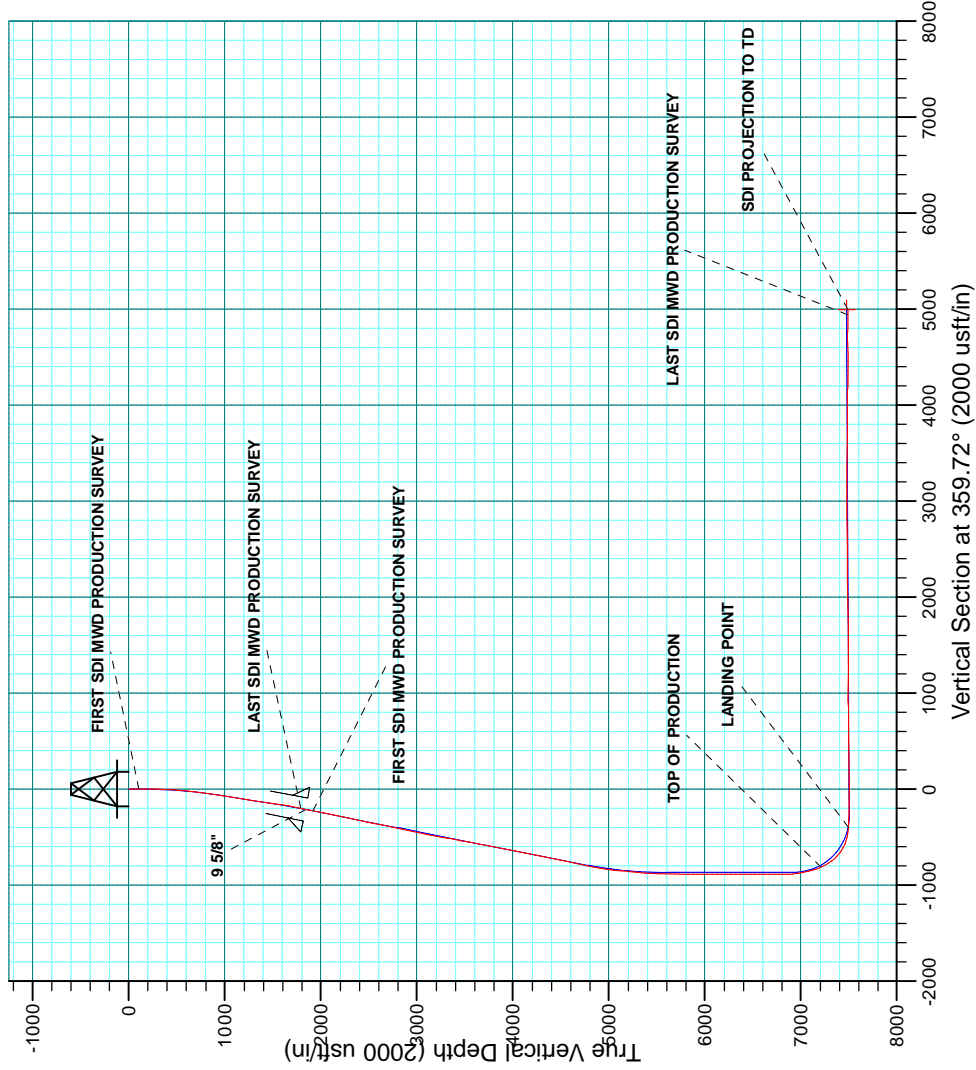
Project: WELD-NAD83-UTMFT13N
Site: 2N-66W-28 Tedford Pad
Well: TEDFORD 3C-28HZ
Wellbore: Plan A
Design: OH



WELL DETAILS: TEDFORD 3C-28HZ					
GL 4965 & KB 25 @ 4990.00usft (HP 307)					
+N/-S 0.00	+E/-W 0.00	Northing 14564176.59	Easting 1700021.49	Latitude 40.102629	Longitude -104.786845

PROJECT DETAILS: WELD-NAD83-UTMFT13N			
Geodetic System: Universal Transverse Mercator (US Survey Feet)			
Datum: North American Datum 1983			
Ellipsoid: GRS 1980			
Zone: Zone 13N (108 W to 102 W)			
Location:			
System Datum: Mean Sea Level			

CASING DETAILS			
TVD	MD	Name	Size
1842.32	1871.10	9 5/8"	9.625



Company:	US ROCKIES WATTENBERG PLANNING	Local Co-ordinate Reference:	Well TEDFORD 3C-28HZ
Project:	WELD-NAD83-UTMFT13N	TVD Reference:	GL 4965 & KB 25 @ 4990.00usft (HP 307)
Site:	2N-66W-28 Tedford Pad	MD Reference:	GL 4965 & KB 25 @ 4990.00usft (HP 307)
Well:	TEDFORD 3C-28HZ	North Reference:	True
Wellbore:	Plan A	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales Office

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-66W-28 Tedford Pad			
Site Position:		Northing:	14,564,177.61 usft	Latitude:	40.102633
From:	Lat/Long	Easting:	1,699,841.68 usft	Longitude:	-104.787488
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.14 °

Well	TEDFORD 3C-28HZ					
Well Position	+N/-S	0.00 usft	Northing:	14,564,176.59 usft	Latitude:	40.102629
	+E/-W	0.00 usft	Easting:	1,700,021.48 usft	Longitude:	-104.786845
Position Uncertainty		2.68 usft	Wellhead Elevation:	0.00 usft	Ground Level:	4,965.00 usft

Wellbore	Plan A				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	7/7/2015	8.50	66.62	52,506

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	359.72	

Survey Program	Date	9/1/2015			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
18.00	1,822.00	Survey #1 SDI MWD SURFACE (Plan A)	APC_ISCWSA REV 2 MWD	Fixed:v2:standard declination	
1,950.00	13,297.00	Survey #2 SDI MWD PRODUCTION (Plan A)	APC_ISCWSA REV 2 MWD+	Fixed:v2:crustal field declination	

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	
18.00	0.00	0.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	
105.00	0.54	340.45	105.00	0.39	-0.14	0.39	0.62	0.62	0.00	
FIRST SDI MWD PRODUCTION SURVEY										
196.00	0.56	22.31	195.99	1.20	-0.11	1.20	0.43	0.02	46.00	
351.00	2.65	147.97	350.94	-1.14	2.08	-1.15	1.94	1.35	81.07	
446.00	4.46	142.04	445.76	-5.91	5.51	-5.94	1.94	1.91	-6.24	
572.00	6.57	140.14	571.17	-15.31	13.15	-15.37	1.68	1.67	-1.51	
668.00	7.83	135.21	666.41	-24.16	21.28	-24.27	1.46	1.31	-5.14	
763.00	9.58	132.08	760.31	-34.06	31.70	-34.21	1.91	1.84	-3.29	

Company:	US ROCKIES WATTENBERG PLANNING	Local Co-ordinate Reference:	Well TEDFORD 3C-28HZ
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Site:	2N-66W-28 Tedford Pad	MD Reference:	GL 4965 & KB 25 @ 4990.00usft (HP 307)
Well:	TEDFORD 3C-28HZ	North Reference:	True
Wellbore:	Plan A	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales Office

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)	
921.00	11.99	142.38	915.52	-55.87	51.48	-56.12	1.95	1.53	6.52	
1,016.00	11.83	142.39	1,008.48	-71.40	63.45	-71.71	0.17	-0.17	0.01	
1,111.00	11.65	141.62	1,101.49	-86.63	75.35	-87.00	0.25	-0.19	-0.81	
1,206.00	10.66	142.33	1,194.70	-101.11	86.67	-101.53	1.05	-1.04	0.75	
1,301.00	10.87	137.04	1,288.03	-114.62	98.15	-115.10	1.06	0.22	-5.57	
1,396.00	11.57	131.98	1,381.21	-127.55	111.33	-128.09	1.27	0.74	-5.33	
1,491.00	12.64	131.48	1,474.10	-140.80	126.20	-141.42	1.13	1.13	-0.53	
1,587.00	14.24	131.79	1,567.47	-155.63	142.88	-156.33	1.67	1.67	0.32	
1,682.00	14.57	138.65	1,659.49	-172.39	159.48	-173.17	1.83	0.35	7.22	
1,777.00	14.77	136.86	1,751.39	-190.20	175.66	-191.05	0.52	0.21	-1.88	
1,822.00	15.02	138.86	1,794.88	-198.77	183.42	-199.67	1.27	0.56	4.44	
LAST SDI MWD PRODUCTION SURVEY										
1,871.10	14.88	138.04	1,842.32	-208.25	191.82	-209.19	0.52	-0.29	-1.68	
9 5/8"										
1,950.00	14.66	136.68	1,918.61	-223.05	205.44	-224.05	0.52	-0.28	-1.72	
FIRST SDI MWD PRODUCTION SURVEY										
2,044.00	13.83	135.61	2,009.72	-239.73	221.46	-240.81	0.93	-0.88	-1.14	
2,139.00	14.99	139.19	2,101.73	-257.14	237.44	-258.30	1.54	1.22	3.77	
2,233.00	15.43	140.15	2,192.44	-275.95	253.39	-277.18	0.54	0.47	1.02	
2,328.00	14.76	139.46	2,284.16	-294.85	269.36	-296.16	0.73	-0.71	-0.73	
2,422.00	15.26	139.80	2,374.95	-313.39	285.13	-314.78	0.54	0.53	0.36	
2,517.00	15.72	139.84	2,466.50	-332.78	301.50	-334.25	0.48	0.48	0.04	
2,611.00	16.41	138.84	2,556.83	-352.51	318.45	-354.06	0.79	0.73	-1.06	
2,706.00	14.71	138.17	2,648.34	-371.60	335.32	-373.23	1.80	-1.79	-0.71	
2,800.00	15.06	137.91	2,739.19	-389.55	351.47	-391.27	0.38	0.37	-0.28	
2,895.00	15.54	139.66	2,830.82	-408.41	367.98	-410.21	0.70	0.51	1.84	
2,989.00	16.01	135.84	2,921.28	-427.31	385.16	-429.19	1.21	0.50	-4.06	
3,084.00	16.21	135.99	3,012.55	-446.25	403.50	-448.21	0.22	0.21	0.16	
3,178.00	15.40	134.87	3,103.00	-464.49	421.46	-466.54	0.92	-0.86	-1.19	
3,273.00	15.80	133.64	3,194.50	-482.31	439.76	-484.46	0.55	0.42	-1.29	
3,367.00	14.52	131.60	3,285.23	-498.97	457.84	-501.20	1.48	-1.36	-2.17	
3,462.00	14.26	136.94	3,377.25	-515.43	474.73	-517.74	1.42	-0.27	5.62	
3,556.00	14.39	138.18	3,468.33	-532.59	490.43	-534.98	0.35	0.14	1.32	
3,651.00	14.44	136.08	3,560.34	-549.92	506.51	-552.39	0.55	0.05	-2.21	
3,745.00	13.93	140.08	3,651.47	-567.04	521.90	-569.58	1.18	-0.54	4.26	
3,839.00	14.29	137.54	3,742.64	-584.28	537.00	-586.89	0.76	0.38	-2.70	
3,934.00	15.28	136.39	3,834.49	-601.99	553.55	-604.69	1.09	1.04	-1.21	
4,028.00	15.38	134.43	3,925.15	-619.68	570.99	-622.47	0.56	0.11	-2.09	
4,123.00	15.28	133.80	4,016.77	-637.17	589.02	-640.04	0.20	-0.11	-0.66	
4,217.00	15.19	137.20	4,107.47	-654.78	606.33	-657.73	0.96	-0.10	3.62	
4,311.00	16.17	137.47	4,197.97	-673.46	623.55	-676.50	1.05	1.04	0.29	
4,406.00	15.83	136.84	4,289.29	-692.66	641.35	-695.78	0.40	-0.36	-0.66	
4,501.00	14.68	135.25	4,380.94	-710.66	658.69	-713.87	1.29	-1.21	-1.67	
4,595.00	13.99	137.78	4,472.01	-727.53	674.71	-730.82	0.99	-0.73	2.69	

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Well:	TEDFORD 3C-28HZ	North Reference:	True
Wellbore:	Plan A	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales Office

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)
4,689.00	14.39	143.30	4,563.15	-745.31	689.33	-748.67	1.50	0.43	5.87
4,784.00	15.05	142.16	4,655.03	-764.52	703.95	-767.95	0.76	0.69	-1.20
4,878.00	14.38	141.97	4,745.95	-783.35	718.63	-786.85	0.71	-0.71	-0.20
4,973.00	13.95	142.97	4,838.06	-801.79	732.79	-805.36	0.52	-0.45	1.05
5,067.00	12.17	136.42	4,929.63	-818.01	746.45	-821.65	2.46	-1.89	-6.97
5,162.00	10.04	137.10	5,022.84	-831.33	758.99	-835.03	2.25	-2.24	0.72
5,256.00	9.07	131.84	5,115.54	-842.28	770.09	-846.03	1.39	-1.03	-5.60
5,351.00	6.74	138.97	5,209.63	-851.48	779.33	-855.28	2.66	-2.45	7.51
5,445.00	6.27	140.28	5,303.03	-859.59	786.23	-863.42	0.52	-0.50	1.39
5,539.00	4.57	138.42	5,396.60	-866.34	791.99	-870.20	1.82	-1.81	-1.98
5,634.00	2.21	132.62	5,491.43	-870.41	795.85	-874.29	2.51	-2.48	-6.11
5,728.00	1.80	131.09	5,585.37	-872.61	798.30	-876.50	0.44	-0.44	-1.63
5,823.00	1.61	138.76	5,680.33	-874.59	800.30	-878.49	0.31	-0.20	8.07
5,917.00	1.26	148.01	5,774.30	-876.46	801.72	-880.37	0.45	-0.37	9.84
6,012.00	0.76	160.05	5,869.29	-877.94	802.49	-881.85	0.57	-0.53	12.67
6,106.00	0.57	169.77	5,963.28	-878.99	802.79	-882.90	0.23	-0.20	10.34
6,200.00	0.36	232.46	6,057.28	-879.63	802.63	-883.54	0.55	-0.22	66.69
6,295.00	0.59	264.85	6,152.28	-879.85	801.91	-883.76	0.36	0.24	34.09
6,389.00	0.93	288.99	6,246.27	-879.65	800.71	-883.55	0.49	0.36	25.68
6,484.00	0.72	317.80	6,341.26	-878.95	799.58	-882.85	0.48	-0.22	30.33
6,578.00	0.65	292.90	6,435.25	-878.31	798.69	-882.20	0.32	-0.07	-26.49
6,673.00	0.82	297.21	6,530.24	-877.79	797.59	-881.68	0.19	0.18	4.54
6,767.00	0.97	267.72	6,624.23	-877.51	796.20	-881.39	0.51	0.16	-31.37
6,862.00	1.06	273.06	6,719.22	-877.50	794.51	-881.37	0.14	0.09	5.62
6,956.00	0.90	273.27	6,813.20	-877.41	792.91	-881.27	0.17	-0.17	0.22
7,051.00	1.14	271.75	6,908.19	-877.34	791.22	-881.19	0.25	0.25	-1.60
7,145.00	10.36	14.01	7,001.68	-869.08	792.33	-872.95	11.34	9.81	108.79
7,240.00	16.28	14.26	7,094.09	-847.87	797.69	-851.76	6.23	6.23	0.26
7,334.00	21.82	14.19	7,182.90	-818.14	805.22	-822.07	5.89	5.89	-0.07
7,368.00	24.74	12.74	7,214.13	-805.07	808.34	-809.01	8.76	8.59	-4.25
TOP OF PRODUCTION (515'FNL, 2150'FWL)									
7,429.00	30.01	10.82	7,268.28	-777.62	814.02	-781.59	8.76	8.64	-3.16
7,523.00	40.48	2.99	7,344.98	-723.88	820.05	-727.88	12.11	11.14	-8.33
7,618.00	52.64	6.13	7,410.19	-655.28	825.71	-659.31	13.02	12.80	3.31
7,712.00	66.34	1.12	7,457.82	-574.68	830.57	-578.73	15.27	14.57	-5.33
7,806.00	78.81	0.04	7,485.92	-485.17	831.44	-489.23	13.31	13.27	-1.15
7,901.00	83.81	0.94	7,500.27	-391.30	832.25	-395.36	5.35	5.26	0.95
LANDING POINT (105'FNL, 2170'FWL)									
7,995.00	89.16	1.63	7,506.03	-297.53	834.36	-301.61	5.74	5.69	0.73
8,090.00	90.07	359.15	7,506.67	-202.55	835.00	-206.62	2.78	0.96	-2.61
8,184.00	91.28	359.78	7,505.56	-108.56	834.13	-112.63	1.45	1.29	0.67
8,279.00	91.24	357.87	7,503.47	-13.61	832.18	-17.67	2.01	-0.04	-2.01
8,374.00	89.97	357.59	7,502.47	81.31	828.42	77.26	1.37	-1.34	-0.29

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Well:	TEDFORD 3C-28HZ	North Reference:	True
Wellbore:	Plan A	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales Office

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)
8,468.00	90.50	357.08	7,502.08	175.21	824.04	171.18	0.78	0.56	-0.54
8,563.00	90.81	356.79	7,501.00	270.07	818.97	266.06	0.45	0.33	-0.31
8,657.00	89.73	358.78	7,500.55	363.99	815.33	360.00	2.41	-1.15	2.12
8,752.00	90.50	359.17	7,500.36	458.97	813.63	454.99	0.91	0.81	0.41
8,846.00	91.75	359.11	7,498.52	552.94	812.22	548.97	1.33	1.33	-0.06
8,941.00	90.60	358.73	7,496.57	647.90	810.43	643.94	1.27	-1.21	-0.40
9,035.00	89.53	358.14	7,496.46	741.87	807.87	737.91	1.30	-1.14	-0.63
9,130.00	90.64	358.24	7,496.32	836.82	804.86	832.87	1.17	1.17	0.11
9,225.00	90.13	357.22	7,495.68	931.74	801.10	927.81	1.20	-0.54	-1.07
9,319.00	89.23	358.03	7,496.21	1,025.66	797.21	1,021.75	1.29	-0.96	0.86
9,414.00	89.80	357.64	7,497.01	1,120.58	793.62	1,116.69	0.73	0.60	-0.41
9,508.00	89.13	358.82	7,497.89	1,214.53	790.71	1,210.65	1.44	-0.71	1.26
9,603.00	89.83	359.17	7,498.75	1,309.51	789.05	1,305.64	0.82	0.74	0.37
9,697.00	90.10	357.03	7,498.81	1,403.46	785.93	1,399.60	2.29	0.29	-2.28
9,792.00	91.04	358.28	7,497.86	1,498.37	782.05	1,494.53	1.65	0.99	1.32
9,886.00	90.40	0.10	7,496.68	1,592.35	780.72	1,588.51	2.05	-0.68	1.94
9,981.00	91.04	359.22	7,495.49	1,687.34	780.15	1,683.50	1.15	0.67	-0.93
10,075.00	90.27	2.32	7,494.41	1,781.31	781.42	1,777.47	3.40	-0.82	3.30
10,170.00	91.17	2.76	7,493.22	1,876.21	785.63	1,872.35	1.05	0.95	0.46
10,264.00	90.17	2.14	7,492.12	1,970.11	789.64	1,966.23	1.25	-1.06	-0.66
10,359.00	90.94	1.27	7,491.20	2,065.07	792.47	2,061.17	1.22	0.81	-0.92
10,454.00	92.12	0.36	7,488.66	2,160.02	793.82	2,156.11	1.57	1.24	-0.96
10,548.00	91.34	357.50	7,485.83	2,253.95	792.07	2,250.05	3.15	-0.83	-3.04
10,643.00	88.99	358.06	7,485.55	2,348.87	788.39	2,344.99	2.54	-2.47	0.59
10,737.00	89.60	359.69	7,486.71	2,442.84	786.54	2,438.97	1.85	0.65	1.73
10,832.00	90.37	359.41	7,486.73	2,537.84	785.80	2,533.97	0.86	0.81	-0.29
10,926.00	91.11	359.42	7,485.52	2,631.83	784.84	2,627.96	0.79	0.79	0.01
11,021.00	90.13	358.09	7,484.49	2,726.79	782.77	2,722.94	1.74	-1.03	-1.40
11,116.00	91.04	358.69	7,483.52	2,821.75	780.10	2,817.90	1.15	0.96	0.63
11,210.00	90.23	358.83	7,482.48	2,915.72	778.07	2,911.88	0.87	-0.86	0.15
11,305.00	91.61	358.17	7,480.95	3,010.67	775.58	3,006.85	1.61	1.45	-0.69
11,399.00	90.97	359.40	7,478.84	3,104.63	773.59	3,100.81	1.47	-0.68	1.31
11,494.00	89.63	359.06	7,478.34	3,199.61	772.31	3,195.80	1.46	-1.41	-0.36
11,588.00	88.19	359.20	7,480.13	3,293.58	770.89	3,289.78	1.54	-1.53	0.15
11,683.00	88.99	359.07	7,482.47	3,388.54	769.45	3,384.74	0.85	0.84	-0.14
11,778.00	89.63	359.05	7,483.61	3,483.52	767.89	3,479.73	0.67	0.67	-0.02
11,872.00	89.53	359.67	7,484.30	3,577.51	766.84	3,573.72	0.67	-0.11	0.66
11,967.00	90.60	358.69	7,484.19	3,672.50	765.48	3,668.72	1.53	1.13	-1.03
12,062.00	90.03	359.36	7,483.67	3,767.49	763.87	3,763.71	0.93	-0.60	0.71
12,156.00	88.83	359.57	7,484.60	3,861.48	762.99	3,857.70	1.30	-1.28	0.22
12,251.00	89.77	359.70	7,485.76	3,956.47	762.39	3,952.69	1.00	0.99	0.14
12,345.00	88.42	359.47	7,487.25	4,050.45	761.70	4,046.68	1.46	-1.44	-0.24
12,440.00	88.56	359.13	7,489.75	4,145.41	760.54	4,141.64	0.39	0.15	-0.36
12,534.00	89.66	358.87	7,491.21	4,239.38	758.90	4,235.62	1.20	1.17	-0.28

Company:	US ROCKIES WATTENBERG PLANNING	Local Co-ordinate Reference:	Well TEDFORD 3C-28HZ
Project:	WELD-NAD83-UTMFT13N	TVD Reference:	GL 4965 & KB 25 @ 4990.00usft (HP 307)
Site:	2N-66W-28 Tedford Pad	MD Reference:	GL 4965 & KB 25 @ 4990.00usft (HP 307)
Well:	TEDFORD 3C-28HZ	North Reference:	True
Wellbore:	Plan A	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales Office

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)
12,628.00	90.64	0.38	7,490.97	4,333.38	758.29	4,329.62	1.92	1.04	1.61
12,723.00	89.80	1.24	7,490.60	4,428.36	759.63	4,424.60	1.27	-0.88	0.91
12,817.00	89.80	0.36	7,490.93	4,522.35	760.94	4,518.58	0.94	0.00	-0.94
12,912.00	91.07	359.94	7,490.21	4,617.35	761.19	4,613.57	1.41	1.34	-0.44
13,007.00	89.60	359.56	7,489.65	4,712.34	760.78	4,708.57	1.60	-1.55	-0.40
13,101.00	88.83	0.38	7,490.94	4,806.33	760.73	4,802.56	1.20	-0.82	0.87
13,196.00	89.66	0.83	7,492.19	4,901.32	761.73	4,897.54	0.99	0.87	0.47
13,239.00	90.10	0.56	7,492.28	4,944.31	762.25	4,940.53	1.20	1.02	-0.63
LAST SDI MWD PRODUCTION SURVEY									
13,297.00	90.10	0.56	7,492.18	5,002.31	762.82	4,998.52	0.00	0.00	0.00
SDI PROJECTION TO TD (1'FNL, 2116'FWL)									

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)
1,871.10	1,842.32	9 5/8"	9.625	13.500

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
105.00	105.00	0.39	-0.14	FIRST SDI MWD PRODUCTION SURVEY
1,822.00	1,794.88	-198.77	183.42	LAST SDI MWD PRODUCTION SURVEY
1,950.00	1,918.61	-223.05	205.44	FIRST SDI MWD PRODUCTION SURVEY
7,368.00	7,214.13	-805.07	808.34	TOP OF PRODUCTION (515'FNL, 2150'FWL)
7,901.00	7,500.27	-391.30	832.25	LANDING POINT (105'FNL, 2170'FWL)
13,239.00	7,492.28	4,944.31	762.25	LAST SDI MWD PRODUCTION SURVEY
13,297.00	7,492.18	5,002.31	762.82	SDI PROJECTION TO TD (1'FNL, 2116'FWL)

Checked By: _____	Approved By: _____	Date: _____
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