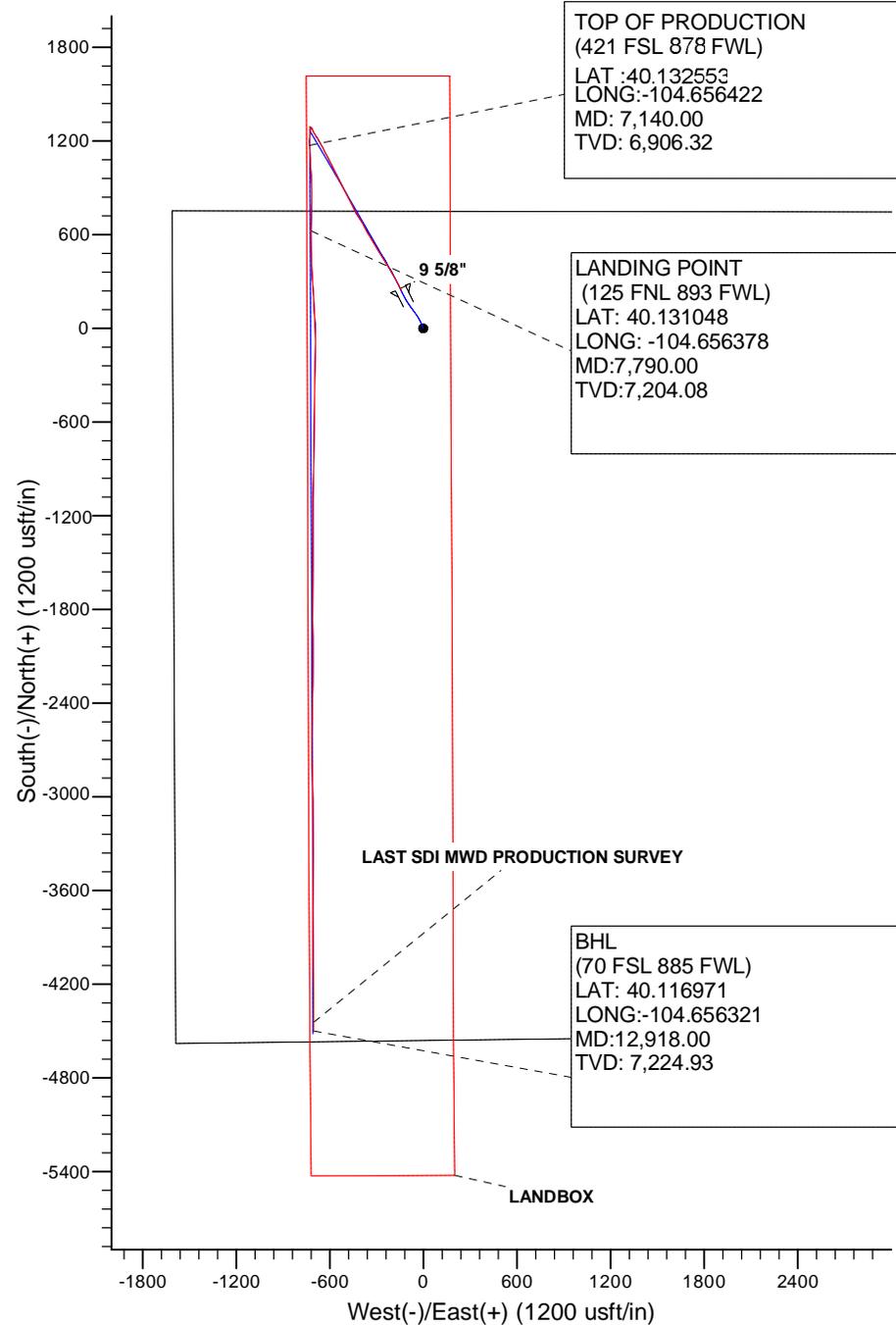
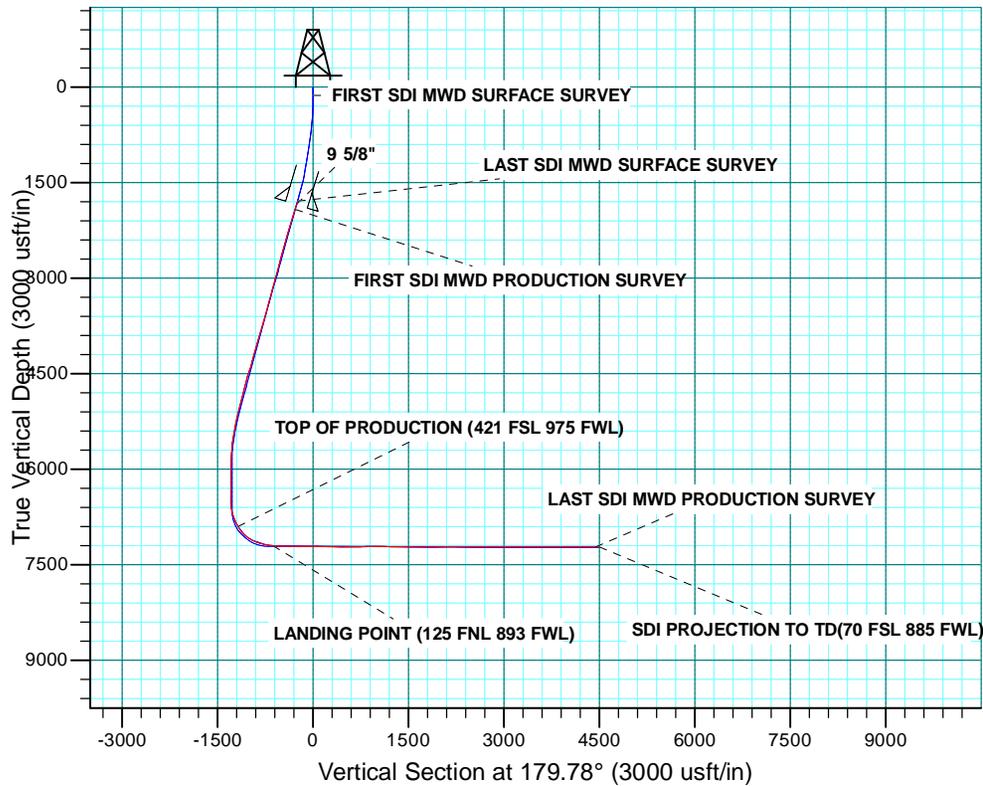


WELL DETAILS: POWERS 13C-22HZ					
GL 4883 & KB 20 @ 4903.00usft (PRECISION 461)					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14574017.80	1737186.12	40.129333	-104.653804

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



<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>Local Co-ordinate Reference:</b>	Well POWERS 13C-22HZ
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>TVD Reference:</b>	GL 4883 & KB 20 @ 4903.00usft (PRECISION 461)
<b>Site:</b>	2N-65W-22 Powers 3-22 Pad	<b>MD Reference:</b>	GL 4883 & KB 20 @ 4903.00usft (PRECISION 461)
<b>Well:</b>	POWERS 13C-22HZ	<b>North Reference:</b>	True
<b>Wellbore:</b>	Plan A	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	Denver Sales

<b>Project</b>	WELD-NAD83-UTMFT13N		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Feet)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Zone 13N (108 W to 102 W)		

<b>Site</b>	2N-65W-22 Powers 3-22 Pad				
<b>Site Position:</b>		<b>Northing:</b>	14,574,017.80 usft	<b>Latitude:</b>	40.129333
<b>From:</b>	Lat/Long	<b>Easting:</b>	1,737,186.12 usft	<b>Longitude:</b>	-104.653804
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13.200 in	<b>Grid Convergence:</b>	0.22 °

<b>Well</b>	POWERS 13C-22HZ					
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	14,574,017.80 usft	<b>Latitude:</b>	40.129333
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	1,737,186.12 usft	<b>Longitude:</b>	-104.653804
<b>Position Uncertainty</b>		3.28 usft	<b>Wellhead Elevation:</b>	0.00 usft	<b>Ground Level:</b>	4,883.00 usft

<b>Wellbore</b>	Plan A				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM	8/17/2015	8.40	66.67	52,502

<b>Design</b>	OH				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	179.79	

<b>Survey Program</b>	<b>Date</b>	10/19/2015			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
13.00	1,828.00	SDI MWD SURFACE SURVEYS (Plan A)	APC_ISCWSA REV 2 MWD	Fixed:v2:standard declination	
1,957.00	12,918.00	Survey #2 SDI MWD PRODUCTION (Plan	APC_ISCWSA REV 2 MWD+	Fixed:v2:crustal field declination	

<b>Survey</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Vertical Section (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13.00	0.00	0.00	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
128.00	0.52	354.52	128.00	0.52	-0.05	-0.52	0.45	0.45	0.00	
<b>FIRST SDI MWD SURFACE SURVEY</b>										
218.00	0.94	327.83	217.99	1.55	-0.48	-1.55	0.59	0.47	-29.66	
309.00	1.72	338.32	308.97	3.45	-1.38	-3.46	0.89	0.86	11.53	
386.00	2.62	336.89	385.91	6.14	-2.50	-6.15	1.17	1.17	-1.86	
476.00	3.43	340.39	475.78	10.57	-4.21	-10.59	0.92	0.90	3.89	

<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>Local Co-ordinate Reference:</b>	Well POWERS 13C-22HZ
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>TVD Reference:</b>	GL 4883 & KB 20 @ 4903.00usft (PRECISION 461)
<b>Site:</b>	2N-65W-22 Powers 3-22 Pad	<b>MD Reference:</b>	GL 4883 & KB 20 @ 4903.00usft (PRECISION 461)
<b>Well:</b>	POWERS 13C-22HZ	<b>North Reference:</b>	True
<b>Wellbore:</b>	Plan A	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	Denver Sales

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)
566.00	5.06	340.74	565.53	16.86	-6.43	-16.88	1.81	1.81	0.39
656.00	6.32	336.15	655.09	25.13	-9.74	-25.17	1.49	1.40	-5.10
791.00	8.60	336.41	788.94	41.18	-16.78	-41.24	1.69	1.69	0.19
881.00	9.15	326.86	877.86	53.34	-23.39	-53.43	1.74	0.61	-10.61
971.00	10.08	330.27	966.60	66.17	-31.21	-66.29	1.21	1.03	3.79
1,062.00	10.56	328.48	1,056.13	80.20	-39.51	-80.34	0.63	0.53	-1.97
1,152.00	11.15	321.45	1,144.52	94.03	-49.25	-94.22	1.61	0.66	-7.81
1,242.00	12.07	323.42	1,232.68	108.40	-60.28	-108.62	1.11	1.02	2.19
1,332.00	13.52	327.43	1,320.44	124.82	-71.55	-125.09	1.89	1.61	4.46
1,422.00	14.07	323.76	1,407.85	142.51	-83.68	-142.82	1.15	0.61	-4.08
1,512.00	15.39	327.79	1,494.89	161.44	-96.52	-161.80	1.86	1.47	4.48
1,602.00	16.94	330.49	1,581.33	182.95	-109.34	-183.36	1.91	1.72	3.00
1,692.00	17.12	332.00	1,667.39	206.06	-122.02	-206.52	0.53	0.20	1.68
1,828.00	17.65	334.03	1,797.17	242.27	-140.45	-242.80	0.59	0.39	1.49
<b>LAST SDI MWD SURFACE SURVEY</b>									
1,882.00	18.61	333.57	1,848.49	257.35	-147.87	-257.90	1.80	1.78	-0.85
<b>9 5/8"</b>									
1,957.00	19.95	333.00	1,919.28	279.47	-159.00	-280.06	1.80	1.78	-0.76
<b>FIRST SDI MWD PRODUCTION SURVEY</b>									
2,052.00	19.44	332.32	2,008.73	307.91	-173.71	-308.56	0.59	-0.54	-0.72
2,148.00	19.34	331.03	2,099.28	335.96	-188.83	-336.67	0.46	-0.10	-1.34
2,242.00	19.15	328.85	2,188.03	362.78	-204.34	-363.54	0.79	-0.20	-2.32
2,337.00	18.56	327.82	2,277.93	388.91	-220.45	-389.73	0.71	-0.62	-1.08
2,431.00	17.92	325.32	2,367.21	413.46	-236.65	-414.35	1.08	-0.68	-2.66
2,526.00	18.43	330.63	2,457.48	438.57	-252.33	-439.51	1.82	0.54	5.59
2,621.00	17.84	329.60	2,547.76	464.21	-267.06	-465.21	0.71	-0.62	-1.08
2,717.00	16.81	328.16	2,639.40	488.69	-281.83	-489.74	1.16	-1.07	-1.50
2,811.00	17.30	326.64	2,729.27	511.91	-296.68	-513.02	0.70	0.52	-1.62
2,906.00	18.14	328.92	2,819.76	536.37	-312.08	-537.54	1.15	0.88	2.40
3,002.00	17.88	328.36	2,911.06	561.72	-327.53	-562.94	0.33	-0.27	-0.58
3,097.00	17.54	327.45	3,001.55	586.20	-342.88	-587.48	0.46	-0.36	-0.96
3,192.00	18.28	333.49	3,091.96	611.60	-357.24	-612.94	2.10	0.78	6.36
3,287.00	17.85	333.52	3,182.27	637.97	-370.38	-639.35	0.45	-0.45	0.03
3,382.00	17.33	330.55	3,272.83	663.32	-383.83	-664.76	1.09	-0.55	-3.13
3,478.00	17.31	327.68	3,364.48	687.84	-398.49	-689.33	0.89	-0.02	-2.99
3,573.00	17.86	325.90	3,455.04	711.85	-414.22	-713.40	0.81	0.58	-1.87
3,668.00	17.19	327.83	3,545.63	735.79	-429.86	-737.40	0.93	-0.71	2.03
3,763.00	17.88	333.32	3,636.23	760.71	-443.88	-762.37	1.89	0.73	5.78
3,858.00	17.66	335.00	3,726.69	786.80	-456.52	-788.51	0.59	-0.23	1.77
3,953.00	18.28	335.39	3,817.06	813.41	-468.82	-815.16	0.66	0.65	0.41
4,048.00	19.04	331.86	3,907.07	840.62	-482.33	-842.42	1.43	0.80	-3.72
4,144.00	17.84	329.26	3,998.14	867.07	-497.23	-868.93	1.52	-1.25	-2.71

<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>Local Co-ordinate Reference:</b>	Well POWERS 13C-22HZ
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>TVD Reference:</b>	GL 4883 & KB 20 @ 4903.00usft (PRECISION 461)
<b>Site:</b>	2N-65W-22 Powers 3-22 Pad	<b>MD Reference:</b>	GL 4883 & KB 20 @ 4903.00usft (PRECISION 461)
<b>Well:</b>	POWERS 13C-22HZ	<b>North Reference:</b>	True
<b>Wellbore:</b>	Plan A	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	Denver Sales

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)	
4,239.00	18.93	333.48	4,088.29	893.36	-511.55	-895.28	1.81	1.15	4.44	
4,334.00	19.08	334.63	4,178.11	921.18	-525.09	-923.15	0.42	0.16	1.21	
4,429.00	16.94	331.61	4,268.46	947.39	-538.32	-949.40	2.46	-2.25	-3.18	
4,524.00	16.12	334.33	4,359.53	971.45	-550.61	-973.51	1.19	-0.86	2.86	
4,619.00	18.01	334.87	4,450.34	996.64	-562.57	-998.74	2.00	1.99	0.57	
4,714.00	17.84	332.63	4,540.73	1,022.86	-575.49	-1,025.01	0.75	-0.18	-2.36	
4,809.00	17.74	331.22	4,631.19	1,048.47	-589.15	-1,050.67	0.47	-0.11	-1.48	
4,904.00	17.33	330.02	4,721.78	1,073.41	-603.19	-1,075.66	0.58	-0.43	-1.26	
4,999.00	15.57	333.48	4,812.89	1,097.07	-615.95	-1,099.38	2.12	-1.85	3.64	
5,094.00	16.77	334.94	4,904.13	1,120.90	-627.45	-1,123.25	1.33	1.26	1.54	
5,190.00	16.50	332.73	4,996.11	1,145.56	-639.56	-1,147.95	0.72	-0.28	-2.30	
5,284.00	15.21	330.62	5,086.53	1,168.17	-651.73	-1,170.61	1.50	-1.37	-2.24	
5,379.00	14.70	330.13	5,178.32	1,189.49	-663.85	-1,191.97	0.55	-0.54	-0.52	
5,475.00	13.63	329.44	5,271.40	1,209.79	-675.67	-1,212.32	1.13	-1.11	-0.72	
5,569.00	12.21	328.35	5,363.01	1,227.79	-686.51	-1,230.36	1.53	-1.51	-1.16	
5,663.00	11.22	326.83	5,455.05	1,243.91	-696.73	-1,246.51	1.10	-1.05	-1.62	
5,759.00	7.20	336.24	5,549.80	1,257.24	-704.27	-1,259.87	4.46	-4.19	9.80	
5,853.00	5.84	336.14	5,643.19	1,267.00	-708.58	-1,269.65	1.45	-1.45	-0.11	
5,949.00	4.68	330.43	5,738.79	1,274.87	-712.49	-1,277.54	1.32	-1.21	-5.95	
6,044.00	4.22	315.79	5,833.50	1,280.75	-716.84	-1,283.43	1.29	-0.48	-15.41	
6,138.00	1.68	308.97	5,927.37	1,284.10	-720.32	-1,286.79	2.72	-2.70	-7.26	
6,232.00	2.15	295.58	6,021.32	1,285.72	-722.98	-1,288.43	0.69	0.50	-14.24	
6,325.00	1.21	305.32	6,114.28	1,287.05	-725.36	-1,289.76	1.05	-1.01	10.47	
6,420.00	1.53	315.38	6,209.25	1,288.53	-727.07	-1,291.25	0.42	0.34	10.59	
6,515.00	0.93	335.57	6,304.23	1,290.13	-728.28	-1,292.86	0.77	-0.63	21.25	
6,609.00	0.66	45.68	6,398.22	1,291.21	-728.20	-1,293.93	1.00	-0.29	74.59	
6,704.00	1.15	88.45	6,493.21	1,291.61	-726.86	-1,294.33	0.84	0.52	45.02	
6,799.00	6.00	175.38	6,588.03	1,286.69	-725.51	-1,289.40	6.37	5.11	91.51	
6,893.00	14.80	182.61	6,680.40	1,269.76	-725.66	-1,272.48	9.45	9.36	7.69	
6,988.00	21.98	188.72	6,770.50	1,240.03	-728.91	-1,242.75	7.82	7.56	6.43	
7,082.00	27.04	181.64	6,856.02	1,201.25	-732.19	-1,203.99	6.22	5.38	-7.53	
7,140.00	32.60	176.96	6,906.32	1,172.44	-731.74	-1,175.18	10.39	9.59	-8.07	
<b>TOP OF PRODUCTION (421 FSL 878 FWL)</b>										
7,177.00	36.22	174.66	6,936.84	1,151.59	-730.19	-1,154.33	10.39	9.78	-6.21	
7,271.00	41.64	175.44	7,009.94	1,092.77	-725.12	-1,095.48	5.79	5.77	0.83	
7,366.00	52.91	176.68	7,074.29	1,023.25	-720.40	-1,025.95	11.90	11.86	1.31	
7,461.00	65.36	179.13	7,122.94	941.93	-717.54	-944.61	13.29	13.11	2.58	
7,555.00	73.57	180.32	7,155.89	853.98	-717.14	-856.66	8.81	8.73	1.27	
7,650.00	76.13	180.89	7,180.71	762.29	-718.11	-764.98	2.76	2.69	0.60	
7,745.00	81.49	180.31	7,199.14	669.14	-719.08	-671.83	5.67	5.64	-0.61	
7,790.00	85.90	180.55	7,204.08	624.42	-719.42	-627.12	9.82	9.81	0.54	
<b>LANDING POINT (125 FNL 893 FWL)</b>										

<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>Local Co-ordinate Reference:</b>	Well POWERS 13C-22HZ
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>TVD Reference:</b>	GL 4883 & KB 20 @ 4903.00usft (PRECISION 461)
<b>Site:</b>	2N-65W-22 Powers 3-22 Pad	<b>MD Reference:</b>	GL 4883 & KB 20 @ 4903.00usft (PRECISION 461)
<b>Well:</b>	POWERS 13C-22HZ	<b>North Reference:</b>	True
<b>Wellbore:</b>	Plan A	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	Denver Sales

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)	
7,839.00	90.71	180.81	7,205.53	575.46	-720.00	-578.16	9.82	9.81	0.53	
7,933.00	89.98	178.61	7,204.96	481.47	-719.53	-484.17	2.47	-0.78	-2.34	
8,028.00	88.83	177.27	7,205.95	386.54	-716.11	-389.23	1.86	-1.21	-1.41	
8,122.00	88.41	175.66	7,208.21	292.75	-710.32	-295.42	1.77	-0.45	-1.71	
8,217.00	90.58	176.90	7,209.05	197.96	-704.16	-200.60	2.63	2.28	1.31	
8,312.00	88.93	176.50	7,209.46	103.13	-698.69	-105.75	1.79	-1.74	-0.42	
8,407.00	88.19	177.85	7,211.84	8.27	-694.01	-10.88	1.62	-0.78	1.42	
8,502.00	88.16	180.78	7,214.87	-86.66	-692.87	84.06	3.08	-0.03	3.08	
8,596.00	89.30	180.65	7,216.95	-180.63	-694.04	178.02	1.22	1.21	-0.14	
8,691.00	87.85	180.13	7,219.32	-275.59	-694.69	272.99	1.62	-1.53	-0.55	
8,786.00	88.39	181.51	7,222.43	-370.53	-696.05	367.92	1.56	0.57	1.45	
8,881.00	89.66	181.11	7,224.05	-465.49	-698.22	462.87	1.40	1.34	-0.42	
8,976.00	88.96	180.74	7,225.19	-560.47	-699.75	557.84	0.83	-0.74	-0.39	
9,071.00	91.67	180.46	7,224.67	-655.45	-700.75	652.82	2.87	2.85	-0.29	
9,166.00	92.91	180.28	7,220.88	-750.38	-701.36	747.74	1.32	1.31	-0.19	
9,261.00	90.74	181.21	7,217.85	-845.31	-702.60	842.67	2.48	-2.28	0.98	
9,356.00	90.43	179.80	7,216.88	-940.30	-703.43	937.65	1.52	-0.33	-1.48	
9,451.00	89.16	181.41	7,217.22	-1,035.29	-704.44	1,032.64	2.16	-1.34	1.69	
9,546.00	89.29	180.18	7,218.51	-1,130.27	-705.76	1,127.61	1.30	0.14	-1.29	
9,640.00	88.99	180.27	7,219.92	-1,224.26	-706.12	1,221.60	0.33	-0.32	0.10	
9,735.00	90.47	180.10	7,220.36	-1,319.25	-706.43	1,316.59	1.57	1.56	-0.18	
9,830.00	89.50	180.69	7,220.39	-1,414.25	-707.09	1,411.59	1.20	-1.02	0.62	
9,924.00	89.29	179.91	7,221.38	-1,508.24	-707.58	1,505.58	0.86	-0.22	-0.83	
10,019.00	89.73	179.96	7,222.19	-1,603.24	-707.47	1,600.57	0.47	0.46	0.05	
10,115.00	89.83	180.08	7,222.56	-1,699.24	-707.50	1,696.57	0.16	0.10	0.13	
10,209.00	90.10	180.22	7,222.62	-1,793.24	-707.75	1,790.57	0.32	0.29	0.15	
10,304.00	90.40	179.83	7,222.20	-1,888.24	-707.79	1,885.57	0.52	0.32	-0.41	
10,400.00	91.14	179.78	7,220.91	-1,984.23	-707.47	1,981.56	0.77	0.77	-0.05	
10,495.00	90.06	179.91	7,219.92	-2,079.22	-707.21	2,076.55	1.15	-1.14	0.14	
10,590.00	91.70	180.46	7,218.46	-2,174.21	-707.51	2,171.54	1.82	1.73	0.58	
10,685.00	88.18	180.64	7,218.56	-2,269.19	-708.43	2,266.51	3.71	-3.71	0.19	
10,779.00	87.67	181.02	7,221.96	-2,363.11	-709.79	2,360.43	0.68	-0.54	0.40	
10,874.00	89.15	181.16	7,224.60	-2,458.06	-711.59	2,455.37	1.56	1.56	0.15	
10,968.00	90.39	181.30	7,224.98	-2,552.03	-713.61	2,549.34	1.33	1.32	0.15	
11,063.00	89.72	180.03	7,224.89	-2,647.02	-714.71	2,644.32	1.51	-0.71	-1.34	
11,158.00	89.86	179.66	7,225.23	-2,742.02	-714.46	2,739.32	0.42	0.15	-0.39	
11,253.00	91.00	179.05	7,224.52	-2,837.01	-713.39	2,834.32	1.36	1.20	-0.64	
11,347.00	89.66	179.42	7,223.98	-2,931.00	-712.13	2,928.31	1.48	-1.43	0.39	
11,442.00	89.93	178.53	7,224.32	-3,025.98	-710.43	3,023.30	0.98	0.28	-0.94	
11,537.00	91.44	178.48	7,223.18	-3,120.94	-707.96	3,118.26	1.59	1.59	-0.05	
11,632.00	90.33	179.41	7,221.72	-3,215.91	-706.21	3,213.24	1.52	-1.17	0.98	
11,727.00	89.42	180.01	7,221.92	-3,310.91	-705.73	3,308.24	1.15	-0.96	0.63	

<b>Company:</b>	US ROCKIES WATTENBERG PLANNING	<b>Local Co-ordinate Reference:</b>	Well POWERS 13C-22HZ
<b>Project:</b>	WELD-NAD83-UTMFT13N	<b>TVD Reference:</b>	GL 4883 & KB 20 @ 4903.00usft (PRECISION 461)
<b>Site:</b>	2N-65W-22 Powers 3-22 Pad	<b>MD Reference:</b>	GL 4883 & KB 20 @ 4903.00usft (PRECISION 461)
<b>Well:</b>	POWERS 13C-22HZ	<b>North Reference:</b>	True
<b>Wellbore:</b>	Plan A	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	Denver Sales

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)	
11,822.00	89.86	180.02	7,222.52	-3,405.91	-705.75	3,403.23	0.46	0.46	0.01	
11,917.00	89.15	180.16	7,223.34	-3,500.90	-705.90	3,498.23	0.76	-0.75	0.15	
12,011.00	89.36	180.83	7,224.56	-3,594.89	-706.71	3,592.21	0.75	0.22	0.71	
12,106.00	91.17	180.57	7,224.12	-3,689.88	-707.87	3,687.20	1.92	1.91	-0.27	
12,201.00	88.82	180.04	7,224.13	-3,784.87	-708.38	3,782.18	2.54	-2.47	-0.56	
12,296.00	89.15	179.65	7,225.82	-3,879.85	-708.12	3,877.17	0.54	0.35	-0.41	
12,392.00	90.43	179.52	7,226.17	-3,975.85	-707.43	3,973.17	1.34	1.33	-0.14	
12,487.00	91.97	179.14	7,224.18	-4,070.82	-706.31	4,068.14	1.67	1.62	-0.40	
12,582.00	88.39	179.57	7,223.88	-4,165.80	-705.25	4,163.12	3.80	-3.77	0.45	
12,677.00	88.92	179.64	7,226.11	-4,260.77	-704.59	4,258.09	0.56	0.56	0.07	
12,770.00	90.20	180.03	7,226.82	-4,353.76	-704.32	4,351.09	1.44	1.38	0.42	
12,861.00	90.97	179.63	7,225.89	-4,444.76	-704.05	4,442.08	0.95	0.85	-0.44	
<b>LAST SDI MWD PRODUCTION SURVEY</b>										
12,918.00	90.97	179.63	7,224.93	-4,501.75	-703.69	4,499.07	0.00	0.00	0.00	
<b>SDI PROJECTION TO TD(70 FSL 885 FWL)</b>										

Casing Points						
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (in)	Hole Diameter (in)	
1,882.00	1,848.49	9 5/8"		9.625	13.500	

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
128.00	128.00	0.52	-0.05	FIRST SDI MWD SURFACE SURVEY	
1,828.00	1,797.17	242.27	-140.45	LAST SDI MWD SURFACE SURVEY	
1,957.00	1,919.28	279.47	-159.00	FIRST SDI MWD PRODUCTION SURVEY	
7,140.00	6,906.32	1,172.44	-731.74	TOP OF PRODUCTION (421 FSL 878 FWL)	
7,790.00	7,204.08	624.42	-719.42	LANDING POINT (125 FNL 893 FWL)	
12,861.00	7,225.89	-4,444.76	-704.05	LAST SDI MWD PRODUCTION SURVEY	
12,918.00	7,224.93	-4,501.75	-703.69	SDI PROJECTION TO TD(70 FSL 885 FWL)	

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_