

Well Name: **Talon View 22-9**

Surface Location: Talon View 18-9 Pad Sec.9-T1S-R67W  
North American Datum 1983 US State Plane 1983 Colorado Northern Zone

Ground Elevation: 5155.0

+N/-S +E/-W  
0.0 0.0

Northing

1236908.75

Easting

3168530.03

Latitude

39° 58' 55.668 N

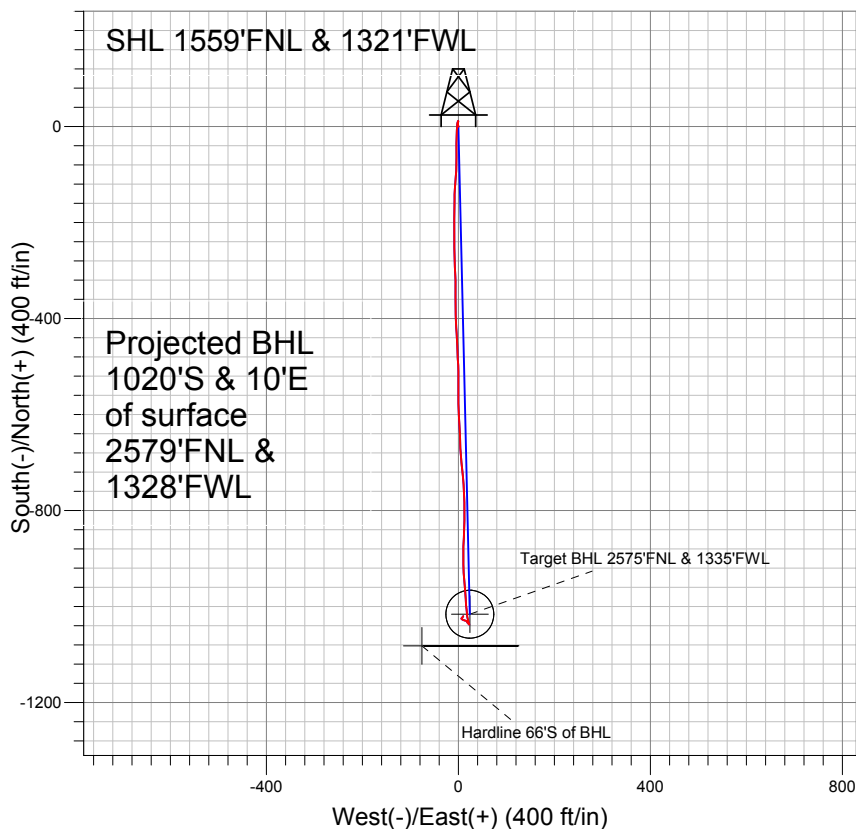
Longitude

104° 53' 54.924 W

Slot

Original Well Elev WELL @ 5168.0ft (Original Well Elev)

## Anadarko, Weld County CO

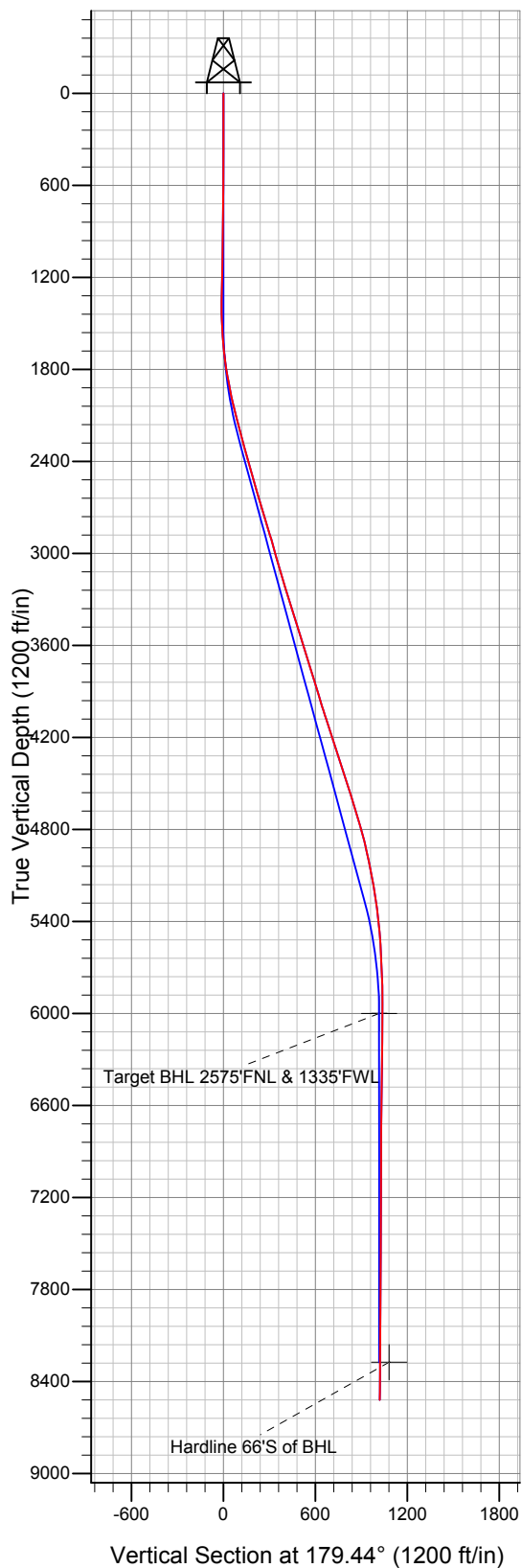


### LEGEND

- Talon View 22-9, Wellbore #1, Plan #1 (9-15-10) V0
- Wellbore #1
- Survey #1

## Final Survey Plot

Projected Final Survey -  
8661'MD & 8519'TVD @ 1020' VS  
0.8 deg Inc 37.3 deg AZ



Project: SEC.9-T1N-R67W  
Site: Talon View 18-9 Pad Sec.9-T1S-R67W  
Well: Talon View 22-9  
Plan: Wellbore #1



## **Directional**

### **Anadarko, Weld County CO**

**SEC.9-T1N-R67W**

**Talon View 18-9 Pad Sec.9-T1S-R67W**

**Talon View 22-9**

**Wellbore #1**

**Survey: Survey #1**

### **Standard Survey Report**

**29 October, 2010**

<b>Company:</b>	Anadarko, Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Talon View 22-9
<b>Project:</b>	SEC.9-T1N-R67W	<b>TVD Reference:</b>	WELL @ 5168.0ft (Original Well Elev)
<b>Site:</b>	Talon View 18-9 Pad Sec.9-T1S-R67W	<b>MD Reference:</b>	WELL @ 5168.0ft (Original Well Elev)
<b>Well:</b>	Talon View 22-9	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	Landmark

<b>Project</b>	SEC.9-T1N-R67W, Weld County, Colorado		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		Using Well Reference Point
<b>Map Zone:</b>	Colorado Northern Zone		Using geodetic scale factor

<b>Site</b>	Talon View 18-9 Pad Sec.9-T1S-R67W		
<b>Site Position:</b>		<b>Northing:</b>	1,236,908.77 ft
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,168,530.03 ft
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"
		<b>Latitude:</b>	39° 58' 55.668 N
		<b>Longitude:</b>	104° 53' 54.924 W
		<b>Grid Convergence:</b>	0.39 °

<b>Well</b>	Talon View 22-9		
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>
			<b>Latitude:</b>
			<b>Longitude:</b>
			<b>Ground Level:</b>

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	7/23/2010	9.02	66.72	52,988

<b>Design</b>	Wellbore #1				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	179.44	

<b>Survey Program</b>	<b>Date</b>	10/29/2010			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
115.0	8,661.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

<b>Survey</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Vertical Section (ft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Build Rate (°/100ft)</b>	<b>Turn Rate (°/100ft)</b>	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
115.0	0.10	83.90	115.0	0.0	0.1	0.0	0.09	0.09	0.00	
177.0	0.04	12.69	177.0	0.0	0.2	0.0	0.15	-0.10	-114.86	
270.0	0.20	339.20	270.0	0.2	0.1	-0.2	0.18	0.17	-36.01	
365.0	0.10	279.00	365.0	0.4	0.0	-0.4	0.18	-0.11	-63.37	
455.0	0.10	255.60	455.0	0.4	-0.2	-0.4	0.05	0.00	-26.00	
545.0	0.20	350.10	545.0	0.5	-0.3	-0.5	0.26	0.11	105.00	
634.0	0.30	313.70	634.0	0.8	-0.5	-0.8	0.21	0.11	-40.90	
721.0	0.40	327.40	721.0	1.2	-0.8	-1.3	0.15	0.11	15.75	
812.0	0.60	341.20	812.0	2.0	-1.1	-2.0	0.26	0.22	15.16	
902.0	0.90	355.70	902.0	3.1	-1.3	-3.1	0.39	0.33	16.11	
993.0	1.00	2.40	993.0	4.6	-1.4	-4.6	0.16	0.11	7.36	
1,081.0	0.90	1.81	1,081.0	6.1	-1.3	-6.1	0.11	-0.11	-0.67	

<b>Company:</b>	Anadarko, Weld County CO	<b>Local Co-ordinate Reference:</b>	Well Talon View 22-9
<b>Project:</b>	SEC.9-T1N-R67W	<b>TVD Reference:</b>	WELL @ 5168.0ft (Original Well Elev)
<b>Site:</b>	Talon View 18-9 Pad Sec.9-T1S-R67W	<b>MD Reference:</b>	WELL @ 5168.0ft (Original Well Elev)
<b>Well:</b>	Talon View 22-9	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	Landmark

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,152.0	1.10	11.40	1,151.9	7.3	-1.2	-7.3	0.37	0.28	13.51
1,218.0	1.00	11.70	1,217.9	8.5	-0.9	-8.5	0.15	-0.15	0.45
1,308.0	1.50	3.30	1,307.9	10.4	-0.7	-10.4	0.59	0.56	-9.33
1,398.0	0.20	253.20	1,397.9	11.6	-0.8	-11.6	1.76	-1.44	-122.33
1,487.0	2.50	192.00	1,486.9	9.6	-1.3	-9.6	2.71	2.58	-68.76
1,576.0	3.50	185.30	1,575.8	5.0	-2.0	-5.0	1.19	1.12	-7.53
1,667.0	5.70	186.80	1,666.5	-2.2	-2.8	2.2	2.42	2.42	1.65
1,755.0	8.10	182.90	1,753.8	-12.8	-3.6	12.7	2.78	2.73	-4.43
1,845.0	9.70	181.40	1,842.7	-26.7	-4.1	26.6	1.80	1.78	-1.67
1,934.0	11.30	180.10	1,930.2	-42.9	-4.3	42.9	1.82	1.80	-1.46
2,023.0	13.10	178.80	2,017.2	-61.7	-4.1	61.7	2.05	2.02	-1.46
2,113.0	14.90	182.80	2,104.5	-83.5	-4.5	83.4	2.27	2.00	4.44
2,204.0	14.90	184.20	2,192.5	-106.8	-5.9	106.8	0.40	0.00	1.54
2,295.0	14.50	183.70	2,280.5	-129.9	-7.5	129.8	0.46	-0.44	-0.55
2,384.0	15.40	180.10	2,366.5	-152.8	-8.2	152.7	1.45	1.01	-4.04
2,472.0	15.90	181.50	2,451.2	-176.5	-8.6	176.4	0.71	0.57	1.59
2,562.0	16.20	180.30	2,537.7	-201.4	-8.9	201.3	0.50	0.33	-1.33
2,651.0	16.80	179.20	2,623.1	-226.7	-8.8	226.6	0.76	0.67	-1.24
2,740.0	16.30	179.40	2,708.4	-252.0	-8.5	251.9	0.57	-0.56	0.22
2,829.0	17.30	179.00	2,793.6	-277.7	-8.2	277.7	1.13	1.12	-0.45
2,919.0	17.10	175.80	2,879.5	-304.3	-7.0	304.2	1.07	-0.22	-3.56
3,010.0	15.80	181.30	2,966.8	-330.1	-6.3	330.0	2.23	-1.43	6.04
3,098.0	15.10	178.00	3,051.6	-353.5	-6.1	353.4	1.28	-0.80	-3.75
3,189.0	16.30	180.90	3,139.3	-378.1	-5.9	378.0	1.58	1.32	3.19
3,277.0	17.60	176.40	3,223.4	-403.7	-5.3	403.7	2.10	1.48	-5.11
3,367.0	17.40	176.80	3,309.3	-430.7	-3.7	430.7	0.26	-0.22	0.44
3,455.0	17.70	178.60	3,393.2	-457.3	-2.6	457.2	0.70	0.34	2.05
3,544.0	17.30	175.60	3,478.1	-484.0	-1.3	483.9	1.11	-0.45	-3.37
3,634.0	17.30	179.00	3,564.0	-510.7	0.0	510.7	1.12	0.00	3.78
3,725.0	17.00	181.10	3,650.9	-537.5	0.0	537.5	0.76	-0.33	2.31
3,815.0	17.40	180.10	3,736.9	-564.1	-0.3	564.1	0.55	0.44	-1.11
3,906.0	17.50	177.00	3,823.7	-591.4	0.4	591.4	1.03	0.11	-3.41
3,996.0	16.90	176.10	3,909.7	-618.0	2.0	618.0	0.73	-0.67	-1.00
4,085.0	16.60	179.70	3,994.9	-643.6	2.9	643.6	1.21	-0.34	4.04
4,175.0	18.50	176.40	4,080.7	-670.7	3.9	670.7	2.38	2.11	-3.67
4,266.0	18.80	174.40	4,167.0	-699.7	6.2	699.7	0.78	0.33	-2.20
4,357.0	17.90	174.10	4,253.3	-728.2	9.1	728.3	0.99	-0.99	-0.33
4,444.0	17.10	177.20	4,336.3	-754.3	11.1	754.4	1.41	-0.92	3.56
4,533.0	17.80	177.90	4,421.2	-781.0	12.2	781.0	0.82	0.79	0.79
4,622.0	18.00	181.00	4,505.9	-808.3	12.5	808.4	1.09	0.22	3.48
4,711.0	17.50	180.80	4,590.7	-835.4	12.1	835.5	0.57	-0.56	-0.22
4,798.0	17.60	183.60	4,673.6	-861.6	11.1	861.7	0.98	0.11	3.22
4,889.0	16.90	180.30	4,760.5	-888.6	10.1	888.7	1.32	-0.77	-3.63
4,976.0	14.30	178.60	4,844.3	-912.0	10.3	912.0	3.03	-2.99	-1.95
5,067.0	12.10	176.80	4,932.9	-932.7	11.1	932.8	2.46	-2.42	-1.98
5,157.0	12.10	174.80	5,020.9	-951.6	12.5	951.6	0.47	0.00	-2.22
5,244.0	10.90	174.40	5,106.2	-968.8	14.2	968.9	1.38	-1.38	-0.46
5,334.0	9.40	178.30	5,194.8	-984.6	15.2	984.7	1.83	-1.67	4.33
5,425.0	7.60	174.60	5,284.7	-998.1	16.0	998.2	2.07	-1.98	-4.07
5,512.0	6.80	175.10	5,371.1	-1,008.9	17.0	1,009.0	0.92	-0.92	0.57
5,602.0	5.00	170.10	5,460.6	-1,018.1	18.1	1,018.2	2.08	-2.00	-5.56
5,691.0	3.60	171.80	5,549.3	-1,024.7	19.2	1,024.8	1.58	-1.57	1.91
5,782.0	2.60	163.90	5,640.2	-1,029.5	20.1	1,029.6	1.19	-1.10	-8.68
5,871.0	2.40	160.70	5,729.1	-1,033.2	21.3	1,033.3	0.27	-0.22	-3.60

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Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,960.0	1.80	167.70	5,818.1	-1,036.3	22.2	1,036.5	0.73	-0.67	7.87
6,050.0	0.20	116.00	5,908.0	-1,037.8	22.7	1,037.9	1.87	-1.78	-57.44
6,139.0	0.50	332.40	5,997.0	-1,037.5	22.6	1,037.7	0.75	0.34	-161.35
6,228.0	0.60	310.00	6,086.0	-1,036.8	22.1	1,037.0	0.26	0.11	-25.17
6,318.0	0.40	305.40	6,176.0	-1,036.4	21.5	1,036.5	0.23	-0.22	-5.11
6,407.0	1.00	319.50	6,265.0	-1,035.6	20.7	1,035.7	0.70	0.67	15.84
6,495.0	1.00	323.10	6,353.0	-1,034.4	19.8	1,034.5	0.07	0.00	4.09
6,585.0	1.00	320.90	6,443.0	-1,033.2	18.8	1,033.3	0.04	0.00	-2.44
6,673.0	0.40	313.70	6,531.0	-1,032.3	18.1	1,032.5	0.69	-0.68	-8.18
6,763.0	0.40	345.40	6,621.0	-1,031.8	17.8	1,031.9	0.24	0.00	35.22
6,853.0	0.80	337.80	6,711.0	-1,030.9	17.5	1,031.1	0.45	0.44	-8.44
6,942.0	1.00	287.00	6,800.0	-1,030.1	16.5	1,030.2	0.89	0.22	-57.08
7,032.0	0.90	289.04	6,890.0	-1,029.7	15.1	1,029.8	0.12	-0.11	2.27
7,123.0	0.70	290.30	6,980.9	-1,029.3	13.9	1,029.3	0.22	-0.22	1.38
7,213.0	0.66	292.90	7,070.9	-1,028.9	12.9	1,028.9	0.06	-0.04	2.89
7,303.0	0.70	287.90	7,160.9	-1,028.5	11.9	1,028.6	0.08	0.04	-5.56
7,393.0	0.62	266.80	7,250.9	-1,028.3	10.9	1,028.4	0.28	-0.09	-23.44
7,484.0	0.57	295.30	7,341.9	-1,028.2	10.0	1,028.2	0.33	-0.05	31.32
7,573.0	0.88	295.70	7,430.9	-1,027.7	9.0	1,027.7	0.35	0.35	0.45
7,662.0	0.92	318.20	7,519.9	-1,026.9	7.9	1,026.9	0.40	0.04	25.28
7,752.0	0.57	302.00	7,609.9	-1,026.1	7.0	1,026.1	0.45	-0.39	-18.00
7,842.0	0.30	309.50	7,699.9	-1,025.7	6.4	1,025.7	0.31	-0.30	8.33
7,932.0	0.18	22.56	7,789.9	-1,025.4	6.3	1,025.4	0.34	-0.13	81.18
8,022.0	0.31	30.70	7,879.9	-1,025.1	6.5	1,025.1	0.15	0.14	9.04
8,112.0	0.40	35.20	7,969.9	-1,024.6	6.8	1,024.6	0.10	0.10	5.00
8,203.0	0.57	42.50	8,060.9	-1,024.0	7.3	1,024.0	0.20	0.19	8.02
8,293.0	0.57	59.60	8,150.9	-1,023.5	8.0	1,023.5	0.19	0.00	19.00
8,383.0	0.48	20.90	8,240.9	-1,022.9	8.5	1,022.9	0.40	-0.10	-43.00
8,473.0	0.50	21.30	8,330.9	-1,022.2	8.8	1,022.2	0.02	0.02	0.44
8,612.0	0.80	37.30	8,469.9	-1,020.8	9.6	1,020.9	0.25	0.22	11.51
8,661.0	0.80	37.30	8,518.9	-1,020.3	10.0	1,020.3	0.00	0.00	0.00

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