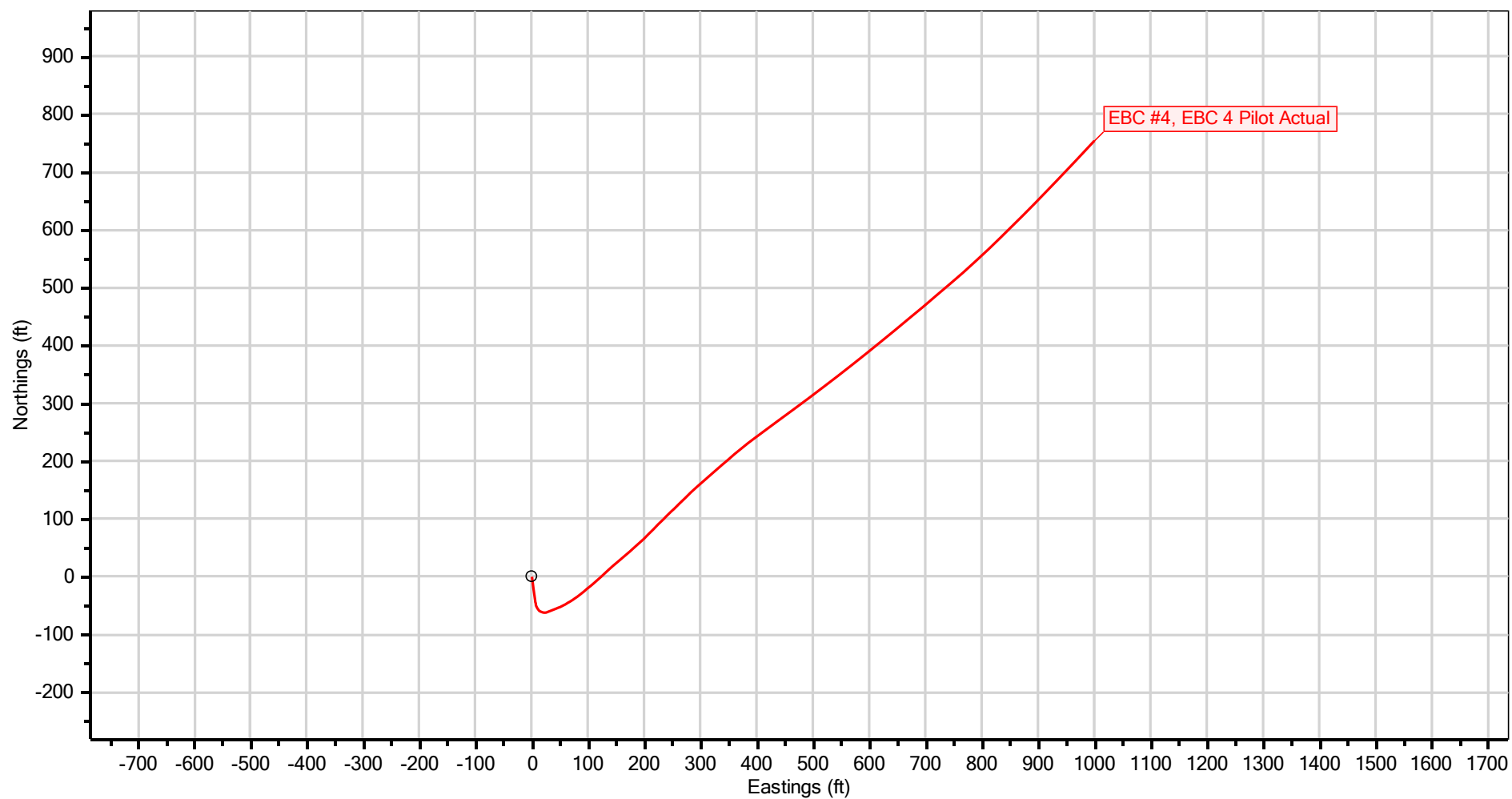


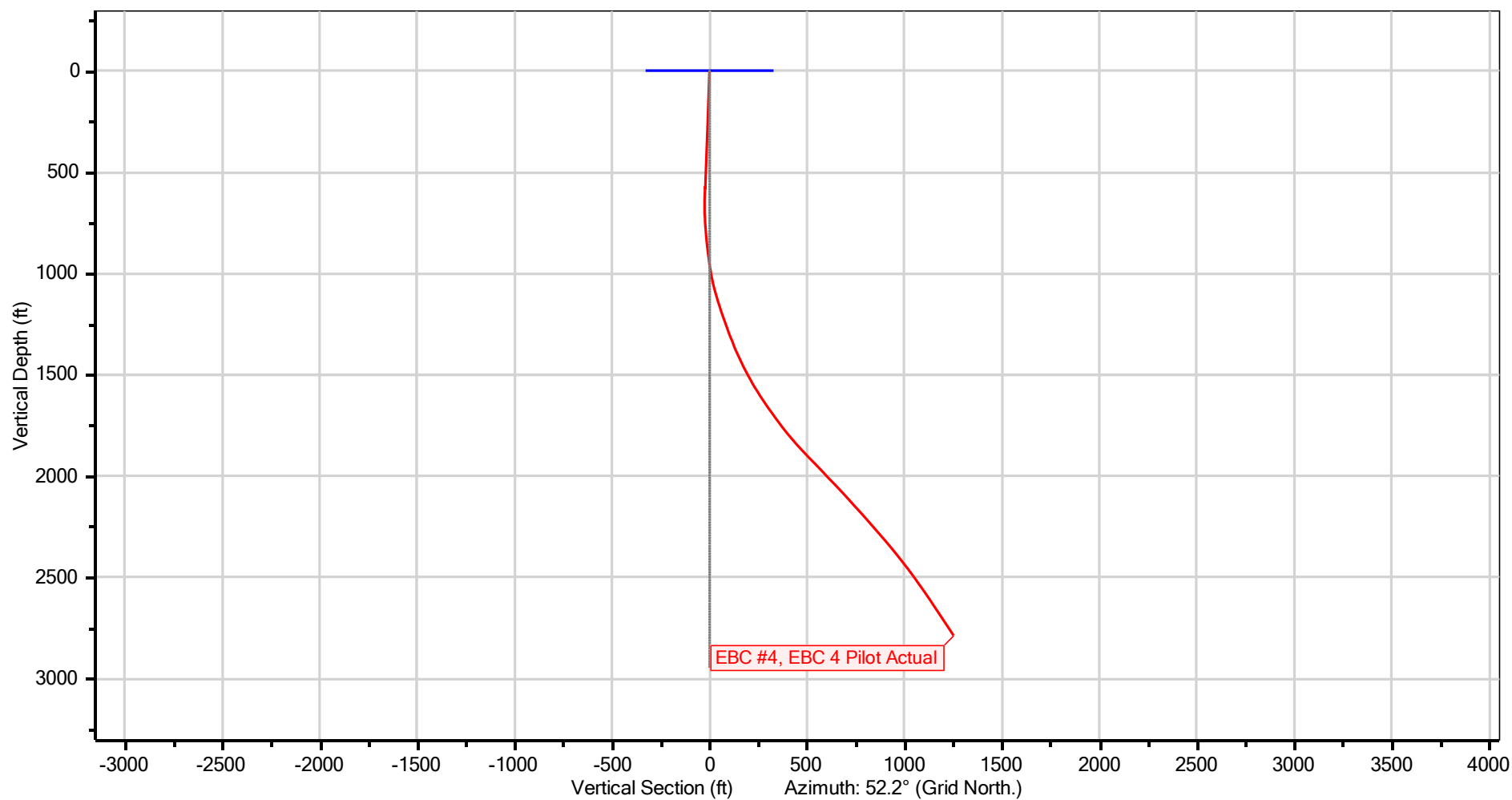
**East Bull Creek Well, EBC Pad 3, EBC #4  
EBC 4 Pilot Actual**

**Catamount Energy Partners  
Survey Report**

East Bull Creek Well



East Bull Creek Well



# Catamount Energy Partners

## Survey Report



<b>Database:</b>	San Juan Basin	<b>Local Coordinate Reference:</b>	EBC #4
<b>Company:</b>		<b>TVD Reference:</b>	EBC #4
<b>Project:</b>	East Bull Creek Well	<b>MD Reference:</b>	EBC #4
<b>Site:</b>	EBC Pad 3	<b>North reference:</b>	Grid North
<b>Well:</b>	EBC #4	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>			
<b>Survey:</b>	EBC 4 Pilot Actual		

<b>Project</b>	East Bull Creek Well		
<b>Map System:</b>	NAD83 Colorado State Planes	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1983		
<b>Map Zone:</b>	Southern Zone		

<b>Site</b>	EBC Pad 3			
<b>Site Position:</b>		<b>Northing:</b>	1187928.06 N	<b>Latitude:</b> 37.16728700° N
<b>From:</b>	Map	<b>Easting:</b>	2445854.00 E	<b>Longitude:</b> 107.40183100° W
<b>Position Uncertainty:</b>	6943.00ft	<b>Slot Radius:</b>	0in	<b>Grid Convergence:</b> -1.2°

<b>Well</b>	EBC #4			
<b>Well Position:</b>	<b>+N/-S</b>	1.42ft	<b>Northing:</b>	1187929.48 N
	<b>+E/-W</b>	75.37ft	<b>Easting:</b>	2445929.37 E
<b>Position Uncertainty:</b>		0.82ft	<b>Wellhead Elevation:</b>	6943.00ft
			<b>Ground Level:</b>	6930.00ft

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	WMM 2015	6/26/2019	9.0	63.7	50120.7

<b>Survey</b>	EBC 4 Pilot Actual			
<b>Audit Notes:</b>				
<b>Version:</b>		<b>Phase:</b>		<b>Tie On Depth:</b> 0.00ft

Vertical Section:	Depth from TVD (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	52.2

Survey Program		7/1/2019			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.00	3214.00	EBC 4 Pilot Actual	MWD	MWD	

Survey Measured Depth (ft)	Incl. (°)	Az. (°)	Vertical Depth (ft)	Sub Sea Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Closure Distance (ft)	Closure Azimuth (°)	Dogleg Rate (°/100ft)	Comments/ Formations
0.00	0.0	0.0	0.00	6943.00	0.00	0.00	0.00	0.00	0.0	0.0	MWD
534.00	8.6	172.0	531.99	6411.01	-39.66	5.57	-19.91	40.05	172.0	1.6	
578.00	9.1	168.2	575.47	6367.53	-46.33	6.73	-23.07	46.81	171.7	1.7	
611.00	8.3	161.9	608.09	6334.91	-51.15	8.01	-25.02	51.77	171.1	3.8	
673.00	6.4	134.5	669.59	6273.41	-57.84	11.87	-26.07	59.04	168.4	6.3	
704.00	6.4	120.8	700.40	6242.60	-59.94	14.60	-25.20	61.69	166.3	4.9	
750.00	6.3	103.4	746.12	6196.88	-61.84	19.26	-22.68	64.77	162.7	4.2	
797.00	5.5	85.0	792.88	6150.12	-62.23	24.00	-19.18	66.70	158.9	4.3	
843.00	5.7	63.2	838.66	6104.34	-61.01	28.23	-15.08	67.23	155.2	4.6	
936.00	8.4	72.2	930.96	6012.04	-56.84	38.82	-4.16	68.84	145.7	3.1	
987.00	10.5	67.5	981.26	5961.74	-53.93	46.66	3.82	71.31	139.1	4.4	
1030.00	12.8	64.4	1023.37	5919.63	-50.37	54.58	12.25	74.27	132.7	5.5	
1077.00	15.0	60.0	1069.00	5874.00	-45.09	64.54	23.36	78.73	124.9	5.2	
1123.00	16.9	56.1	1113.23	5829.77	-38.39	75.23	35.92	84.46	117.0	4.7	
1171.00	18.3	52.5	1158.99	5784.01	-29.92	86.99	50.40	91.99	109.0	3.7	

# Catamount Energy Partners

## Survey Report



<b>Database:</b>	San Juan Basin	<b>Local Coordinate Reference:</b>	EBC #4
<b>Company:</b>		<b>TVD Reference:</b>	EBC #4
<b>Project:</b>	East Bull Creek Well	<b>MD Reference:</b>	EBC #4
<b>Site:</b>	EBC Pad 3	<b>North reference:</b>	Grid North
<b>Well:</b>	EBC #4	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>			
<b>Survey:</b>	EBC 4 Pilot Actual		

Survey Measured Depth (ft)	Incl. (°)	Az. (°)	Vertical Depth (ft)	Sub Sea Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Closure Distance (ft)	Closure Azimuth (°)	Dogleg Rate (°/100ft)	Comments/ Formations
1217.00	19.6	51.5	1202.50	5740.50	-20.72	98.75	65.33	100.90	101.9	2.9	
1265.00	20.3	49.9	1247.62	5695.38	-10.35	111.42	81.70	111.90	95.3	1.8	
1311.00	21.3	47.7	1290.62	5652.38	0.41	123.71	98.00	123.71	89.8	2.8	
1358.00	23.1	47.8	1334.13	5608.87	12.35	136.87	115.72	137.43	84.8	3.9	
1369.83	23.3	48.6	1345.00	5598.00	15.46	140.35	120.37	141.20	83.7	3.0	Animas
1404.00	23.9	50.7	1376.31	5566.69	24.32	150.78	134.04	152.73	80.8	3.0	
1452.00	25.4	50.8	1419.93	5523.07	36.98	166.29	154.06	170.35	77.5	3.1	
1498.00	27.6	48.6	1461.10	5481.90	50.26	181.93	174.56	188.75	74.6	5.2	
1546.00	29.7	47.1	1503.22	5439.78	65.71	198.99	197.51	209.56	71.7	4.6	
1592.00	31.2	45.1	1542.87	5400.13	81.88	215.78	220.69	230.80	69.2	3.9	
1640.00	33.2	46.2	1583.49	5359.51	99.75	234.08	246.09	254.44	66.9	4.3	
1686.00	34.8	46.5	1621.63	5321.37	117.49	252.69	271.67	278.67	65.1	3.5	
1734.00	35.6	46.8	1660.85	5282.15	136.49	272.80	299.21	305.04	63.4	1.7	
1780.00	37.3	48.5	1697.85	5245.15	154.90	293.00	326.46	331.43	62.1	4.4	
1809.31	37.8	49.3	1721.09	5221.91	166.64	306.47	344.29	348.84	61.5	2.4	Kirtland Shale
1828.00	38.1	49.8	1735.83	5207.17	174.08	315.22	355.77	360.10	61.1	2.4	
1874.00	39.6	49.7	1771.65	5171.35	192.73	337.24	384.60	388.43	60.3	3.3	
1921.00	40.9	50.6	1807.53	5135.47	212.18	360.55	414.94	418.35	59.5	3.0	
1967.00	42.5	53.0	1841.88	5101.12	231.08	384.60	445.52	448.68	59.0	4.9	
2015.00	44.8	54.4	1876.62	5066.38	250.68	411.30	478.63	481.67	58.6	5.2	
2042.98	44.8	54.4	1896.47	5046.53	262.16	427.32	498.33	501.33	58.5	0.2	Farmington SS
2109.00	44.9	54.2	1943.29	4999.71	289.33	465.12	544.85	547.77	58.1	0.2	
2201.00	45.1	53.5	2008.37	4934.63	327.66	517.65	609.85	612.64	57.7	0.6	
2295.00	43.9	52.2	2075.42	4867.58	367.42	570.18	675.72	678.31	57.2	1.6	
2389.00	43.3	51.7	2143.50	4799.50	407.37	621.22	740.54	742.88	56.7	0.8	
2482.00	42.7	51.2	2211.53	4731.47	446.91	670.78	803.94	806.03	56.3	0.8	
2503.00	42.5	50.9	2227.00	4716.00	455.84	681.83	818.14	820.17	56.2	1.2	Lower Kirtland
2576.00	41.7	50.2	2281.19	4661.81	486.91	719.61	867.04	868.86	55.9	1.2	
2669.00	41.5	49.6	2350.74	4592.26	526.68	766.82	928.72	930.28	55.5	0.5	
2762.00	39.3	47.0	2421.58	4521.42	566.73	811.83	988.82	990.07	55.1	2.9	
2856.00	36.9	45.8	2495.57	4447.43	606.68	853.83	1046.50	1047.42	54.6	2.7	
2885.24	36.6	45.8	2519.00	4424.00	618.88	866.37	1063.88	1064.71	54.5	0.9	Ignacio Seam
2904.00	36.5	45.8	2534.07	4408.93	626.68	874.37	1074.98	1075.75	54.4	0.9	Top of Production
2949.00	36.1	45.7	2570.35	4372.65	645.26	893.43	1101.43	1102.08	54.2	0.9	
2959.69	35.9	45.5	2579.00	4364.00	649.65	897.92	1107.68	1108.29	54.1	1.8	Basal Coal Seam
3043.00	34.7	44.2	2647.00	4296.00	683.75	931.89	1155.42	1155.83	53.7	1.8	
3069.78	34.8	44.1	2669.00	4274.00	694.70	942.52	1170.52	1170.88	53.6	0.5	Pictured Cliffs SS
3132.00	35.1	43.9	2720.00	4223.00	720.35	967.28	1205.81	1206.04	53.3	0.5	
3214.00	35.1	43.9	2787.08	4155.92	754.36	999.95	1252.47	1252.58	53.0	0.0	

Formations Measured Depth (ft)	Vertical Depth (ft)	Subsea Depth (ft)	Name	Dip Angle (°)	Dip Direction (°)
1369.83	1345.00	5598.00	Animas	0.0	0.0
1809.31	1721.09	5221.91	Kirtland Shale	0.0	0.0
2042.98	1896.47	5046.53	Farmington SS	0.0	0.0
2503.00	2227.00	4716.00	Lower Kirtland	0.0	0.0
2885.24	2519.00	4424.00	Ignacio Seam	0.0	0.0
2959.69	2579.00	4364.00	Basal Coal Seam	0.0	0.0
3069.78	2669.00	4274.00	Pictured Cliffs SS	0.0	0.0

# Catamount Energy Partners

## Survey Report



<b>Database:</b>	San Juan Basin	<b>Local Coordinate Reference:</b>	EBC #4
<b>Company:</b>		<b>TVD Reference:</b>	EBC #4
<b>Project:</b>	East Bull Creek Well	<b>MD Reference:</b>	EBC #4
<b>Site:</b>	EBC Pad 3	<b>North reference:</b>	Grid North
<b>Well:</b>	EBC #4	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>			
<b>Survey:</b>	EBC 4 Pilot Actual		

Survey Annotations				
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
2904.00	2534.07	626.68	874.37	Top of Production

Checked By:	Approved By:	Date:
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