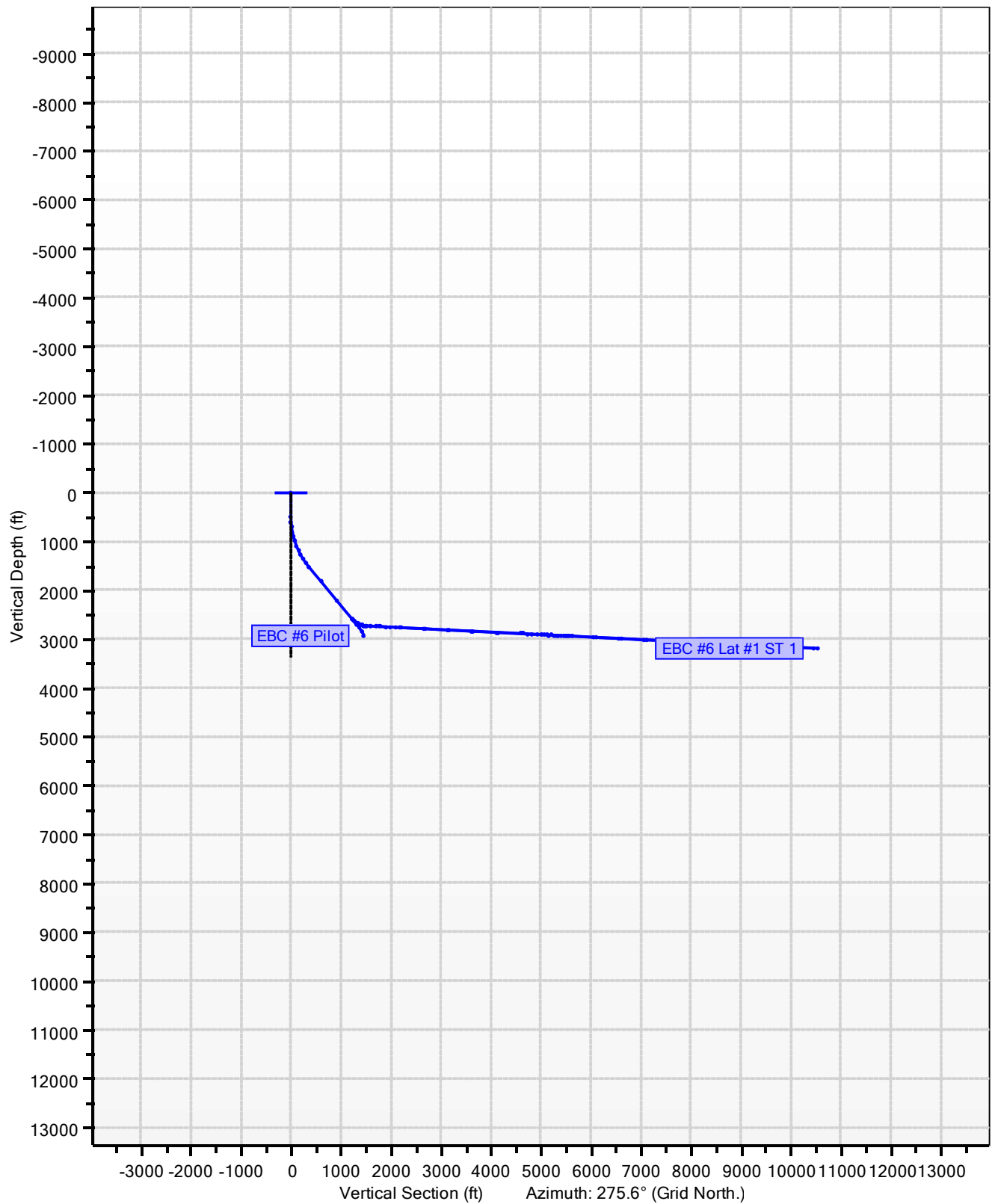


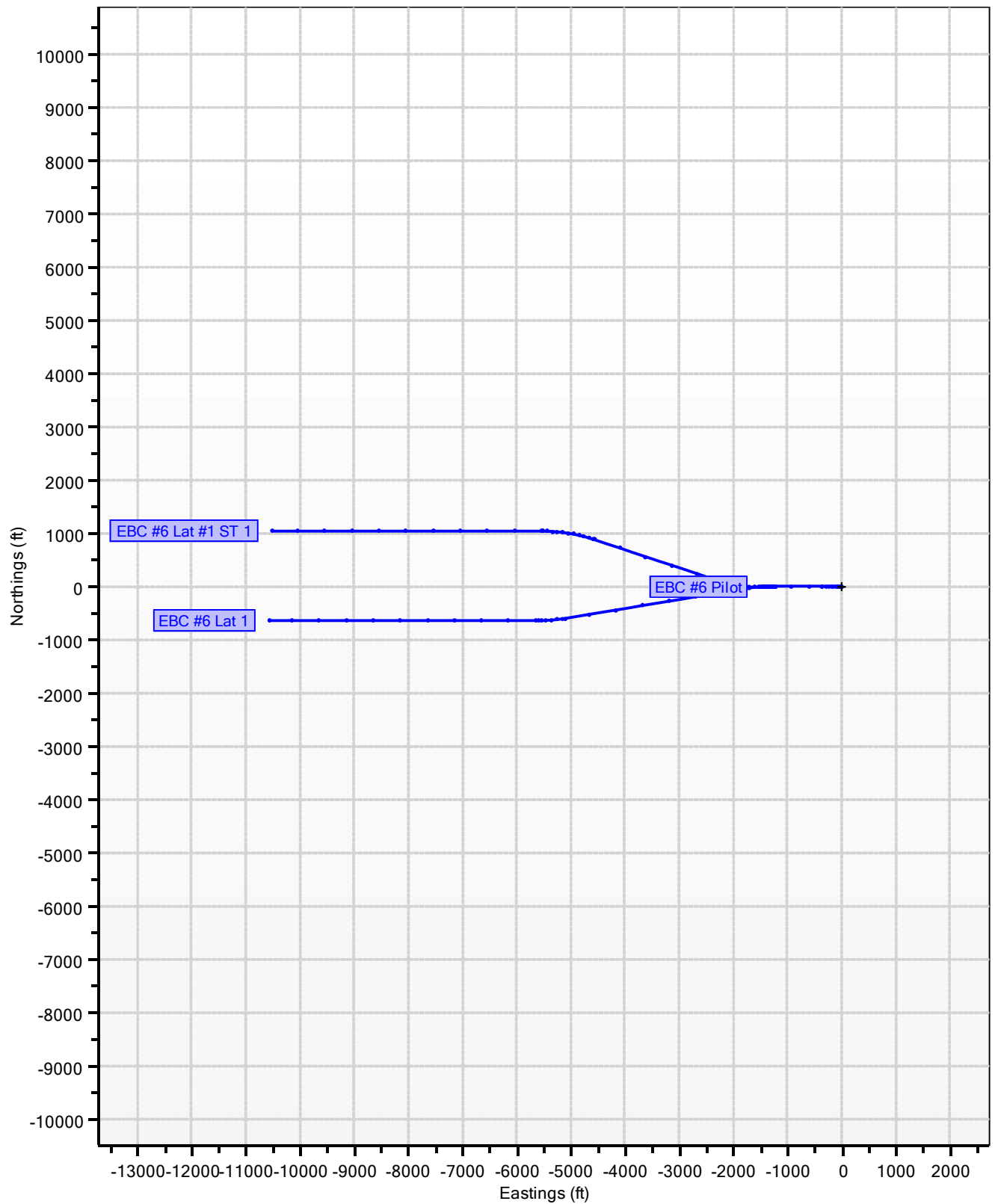
**East Bull Creek Well  
EBC Pad 4  
EBC #6  
EBC #6 Pilot**

**Catamount Energy Partners  
Proposal Report**

EBC Pad 4, EBC #6



EBC Pad 4, EBC #6



# Catamount Energy Partners

## Proposal Report



<b>Database:</b>	San Juan Basin	<b>Local Coordinate Reference:</b>	EBC #6
<b>Company:</b>		<b>TVD Reference:</b>	EBC #6
<b>Project:</b>	East Bull Creek Well	<b>MD Reference:</b>	EBC #6
<b>Site:</b>	EBC Pad 4	<b>North reference:</b>	Grid North
<b>Well:</b>	EBC #6	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>			
<b>Proposal:</b>	EBC #6 Pilot		

<b>Project</b>	East Bull Creek Well		
<b>Map System:</b>	HPGN Colorado State Planes	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	High Precision GPS Network (aka HARN, NAD83/9)		
<b>Map Zone:</b>	Southern Zone		

<b>Site</b>	EBC Pad 4		
<b>Site Position:</b>		<b>Northing:</b>	0
<b>From:</b>	Map	<b>Easting:</b>	0
<b>Position Uncertainty:</b>	0ft	<b>Slot Radius:</b>	0in
		<b>Latitude:</b>	33.48902771° N
		<b>Longitude:</b>	115.33027986° W
		<b>Grid Convergence:</b>	-6.0°

<b>Well</b>	EBC #6		
<b>Well Position:</b>	<b>+N/-S</b>	1184892ft	<b>Northing:</b>
	<b>+E/-W</b>	2448243ft	<b>Easting:</b>
<b>Position Uncertainty:</b>		1ft	<b>Wellhead Elevation:</b>
			6750ft
			<b>Latitude:</b>
			37.15908379° N
			<b>Longitude:</b>
			107.39342301° W
			<b>Ground Level:</b>
			6734ft

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	2/8/2018	0.0	0.0	0.0

<b>Proposal</b>	EBC #6 Pilot		
<b>Audit Notes:</b>			
<b>Version:</b>	<b>Phase:</b>	<b>Tie On Depth:</b>	0ft

Vertical Section:	Depth from TVD (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0	0	0	270.0

Survey Program		3/26/2018		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0	3396	EBC #6 Pilot	MWD	MWD

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0	0.0	0.0	0	0	0					
500	0.0	0.0	500	0	0	0.0	0.0	0.0	0.0	
1621	39.2	270.0	1535	0	-369	3.5	3.5	0.0	-90.0	
3125	39.2	270.0	2700	0	-1320	0.0	0.0	0.0	0.0	EBC 6 Top Coal
3396	28.5	270.0	2925	0	-1471	4.0	-4.0	0.0	180.0	

Planned 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	0.0	0.0	0	-6750	0	0	0	0	0.0	0.0	MWD
16	0.0	0.0	16	-6734	0	0	0	0	0.0	0.0	Animas
100	0.0	0.0	100	-6650	0	0	0	0	0.0	0.0	
200	0.0	0.0	200	-6550	0	0	0	0	0.0	0.0	
300	0.0	0.0	300	-6450	0	0	0	0	0.0	0.0	

# Catamount Energy Partners

## Proposal Report



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<b>Project:</b>	East Bull Creek Well	<b>MD Reference:</b>	EBC #6
<b>Site:</b>	EBC Pad 4	<b>North reference:</b>	Grid North
<b>Well:</b>	EBC #6	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>			
<b>Proposal:</b>	EBC #6 Pilot		

Planned 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
400	0.0	0.0	400	-6350	0	0	0	0	0.0	0.0	
500	0.0	0.0	500	-6250	0	0	0	0	0.0	0.0	
510	0.3	270.0	510	-6240	0	0	0	0	270.0	3.5	
540	1.4	270.0	540	-6210	0	0	0	0	270.0	3.5	
570	2.4	270.0	570	-6180	0	-1	1	1	270.0	3.5	
600	3.5	270.0	600	-6150	0	-3	3	3	270.0	3.5	
630	4.5	270.0	630	-6120	0	-5	5	5	270.0	3.5	
660	5.6	270.0	660	-6090	0	-8	8	8	270.0	3.5	
690	6.6	270.0	690	-6060	0	-11	11	11	270.0	3.5	
720	7.7	270.0	719	-6031	0	-15	15	15	270.0	3.5	
750	8.7	270.0	749	-6001	0	-19	19	19	270.0	3.5	
780	9.8	270.0	779	-5971	0	-24	24	24	270.0	3.5	
810	10.8	270.0	808	-5942	0	-29	29	29	270.0	3.5	
840	11.9	270.0	838	-5912	0	-35	35	35	270.0	3.5	
870	12.9	270.0	867	-5883	0	-42	42	42	270.0	3.5	
900	14.0	270.0	896	-5854	0	-49	49	49	270.0	3.5	
930	15.0	270.0	925	-5825	0	-56	56	56	270.0	3.5	
960	16.1	270.0	954	-5796	0	-64	64	64	270.0	3.5	
990	17.1	270.0	983	-5767	0	-73	73	73	270.0	3.5	
1020	18.2	270.0	1011	-5739	0	-82	82	82	270.0	3.5	
1050	19.2	270.0	1040	-5710	0	-92	92	92	270.0	3.5	
1080	20.3	270.0	1068	-5682	0	-102	102	102	270.0	3.5	
1110	21.3	270.0	1096	-5654	0	-112	112	112	270.0	3.5	
1140	22.4	270.0	1124	-5626	0	-124	124	124	270.0	3.5	
1170	23.4	270.0	1151	-5599	0	-135	135	135	270.0	3.5	
1200	24.5	270.0	1179	-5571	0	-147	147	147	270.0	3.5	
1230	25.5	270.0	1206	-5544	0	-160	160	160	270.0	3.5	
1260	26.6	270.0	1233	-5517	0	-173	173	173	270.0	3.5	
1290	27.6	270.0	1260	-5490	0	-187	187	187	270.0	3.5	
1320	28.7	270.0	1286	-5464	0	-201	201	201	270.0	3.5	
1350	29.7	270.0	1312	-5438	0	-216	216	216	270.0	3.5	
1380	30.8	270.0	1338	-5412	0	-231	231	231	270.0	3.5	
1410	31.8	270.0	1364	-5386	0	-246	246	246	270.0	3.5	
1440	32.9	270.0	1389	-5361	0	-263	263	263	270.0	3.5	
1470	33.9	270.0	1414	-5336	0	-279	279	279	270.0	3.5	
1500	35.0	270.0	1439	-5311	0	-296	296	296	270.0	3.5	
1530	36.0	270.0	1463	-5287	0	-313	313	313	270.0	3.5	
1560	37.1	270.0	1487	-5263	0	-331	331	331	270.0	3.5	
1590	38.1	270.0	1511	-5239	0	-350	350	350	270.0	3.5	
1620	39.2	270.0	1535	-5215	0	-368	368	368	270.0	3.5	
1621	39.2	270.0	1535	-5215	0	-369	369	369	270.0	3.5	
1700	39.2	270.0	1597	-5153	0	-419	419	419	270.0	0.0	
1800	39.2	270.0	1674	-5076	0	-482	482	482	270.0	0.0	
1900	39.2	270.0	1752	-4998	0	-546	546	546	270.0	0.0	
2000	39.2	270.0	1829	-4921	0	-609	609	609	270.0	0.0	
2100	39.2	270.0	1906	-4844	0	-672	672	672	270.0	0.0	
2200	39.2	270.0	1984	-4766	0	-735	735	735	270.0	0.0	
2285	39.2	270.0	2050	-4700	0	-789	789	789	270.0	0.0	Kirtland
2300	39.2	270.0	2061	-4689	0	-799	799	799	270.0	0.0	
2400	39.2	270.0	2139	-4611	0	-862	862	862	270.0	0.0	

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## Proposal Report



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<b>Project:</b>	East Bull Creek Well	<b>MD Reference:</b>	EBC #6
<b>Site:</b>	EBC Pad 4	<b>North reference:</b>	Grid North
<b>Well:</b>	EBC #6	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>			
<b>Proposal:</b>	EBC #6 Pilot		

Planned 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
2403	39.2	270.0	2141	-4609	0	-864	864	864	270.0	0.0	Farmington
2500	39.2	270.0	2216	-4534	0	-925	925	925	270.0	0.0	
2600	39.2	270.0	2294	-4456	0	-988	988	988	270.0	0.0	
2700	39.2	270.0	2371	-4379	0	-1052	1052	1052	270.0	0.0	
2767	39.2	270.0	2423	-4327	0	-1094	1094	1094	270.0	0.0	
											Lower Kirtland
2800	39.2	270.0	2449	-4301	0	-1115	1115	1115	270.0	0.0	
2900	39.2	270.0	2526	-4224	0	-1178	1178	1178	270.0	0.0	
3000	39.2	270.0	2604	-4146	0	-1241	1241	1241	270.0	0.0	
3100	39.2	270.0	2681	-4069	0	-1304	1304	1304	270.0	0.0	
3125	39.2	270.0	2700	-4050	0	-1320	1320	1320	270.0	0.0	Fruitland EBC 6 Top Coal
3150	38.2	270.0	2720	-4030	0	-1336	1336	1336	270.0	4.0	
3180	37.0	270.0	2744	-4006	0	-1354	1354	1354	270.0	4.0	
3210	35.9	270.0	2768	-3982	0	-1372	1372	1372	270.0	4.0	
3230	35.1	270.0	2784	-3966	0	-1384	1384	1384	270.0	4.0	Pictured Cliffs
3240	34.7	270.0	2792	-3958	0	-1389	1389	1389	270.0	4.0	
3270	33.5	270.0	2817	-3933	0	-1406	1406	1406	270.0	4.0	
3300	32.3	270.0	2842	-3908	0	-1422	1422	1422	270.0	4.0	
3330	31.1	270.0	2868	-3882	0	-1438	1438	1438	270.0	4.0	
3360	29.9	270.0	2894	-3856	0	-1453	1453	1453	270.0	4.0	
3390	28.7	270.0	2920	-3830	0	-1468	1468	1468	270.0	4.0	
3396	28.5	270.0	2925	-3825	0	-1471	1471	1471	270.0	4.0	

Targets										
Target Name -hit/miss target -Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
EBC 6 Top Coal - proposal hits the target center - Point			2700	0	-1320	+1184892	+2446923	37.15901022° N	107.39795151° W	

Formations							Dip Angle (°)	Dip Direction (°)
Measured Depth (ft)	Vertical Depth (ft)	Subsea Depth (ft)	Name					
16	16	-6734	Animas				0.0	0.0
2285	2050	-4700	Kirtland				0.0	0.0
2403	2141	-4609	Farmington				0.0	0.0
2767	2423	-4327	Lower Kirtland				0.0	0.0
3125	2700	-4050	Fruitland				0.0	0.0
3230	2784	-3966	Pictured Cliffs				0.0	0.0

Checked By:	Approved By:	Date:
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