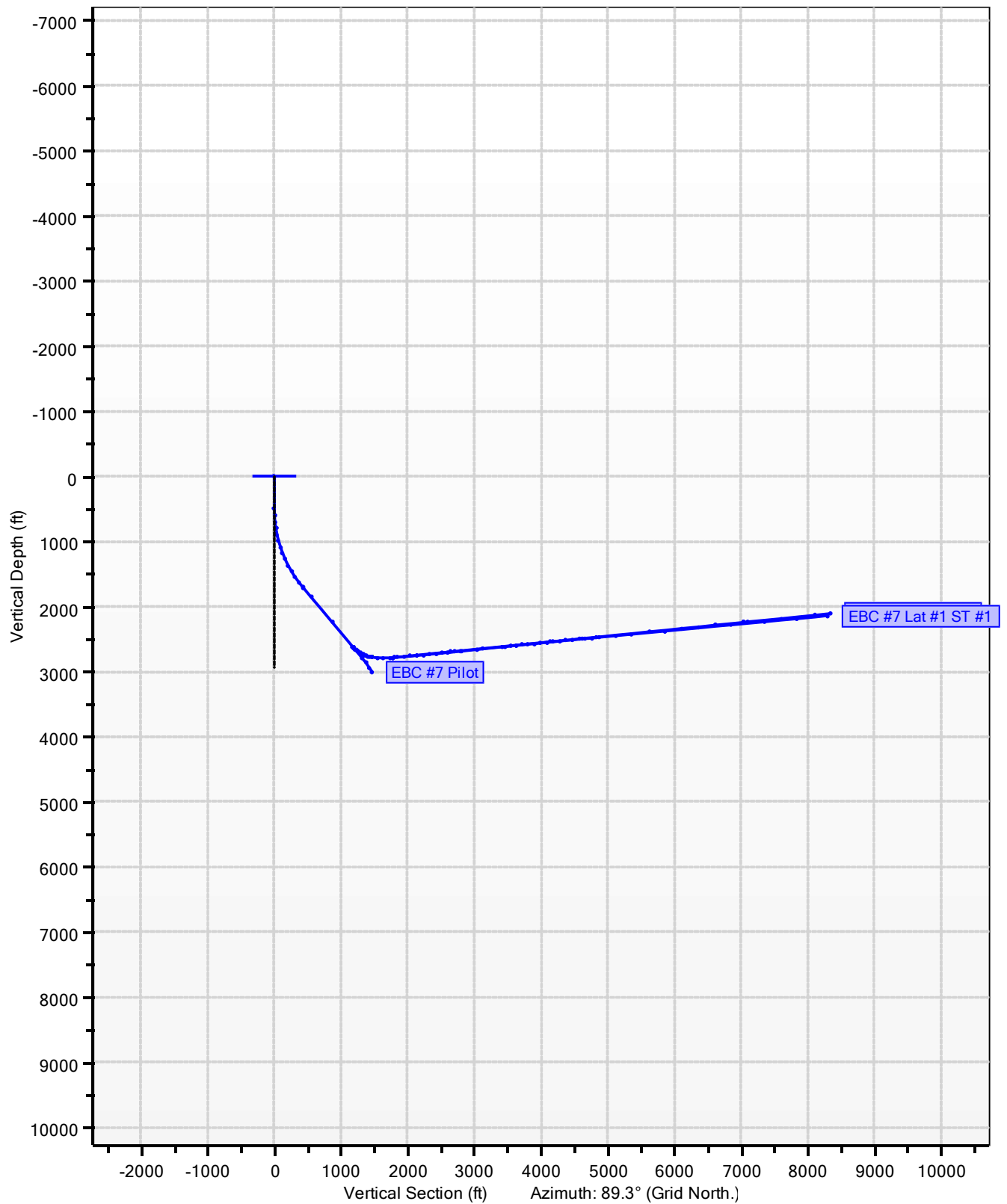


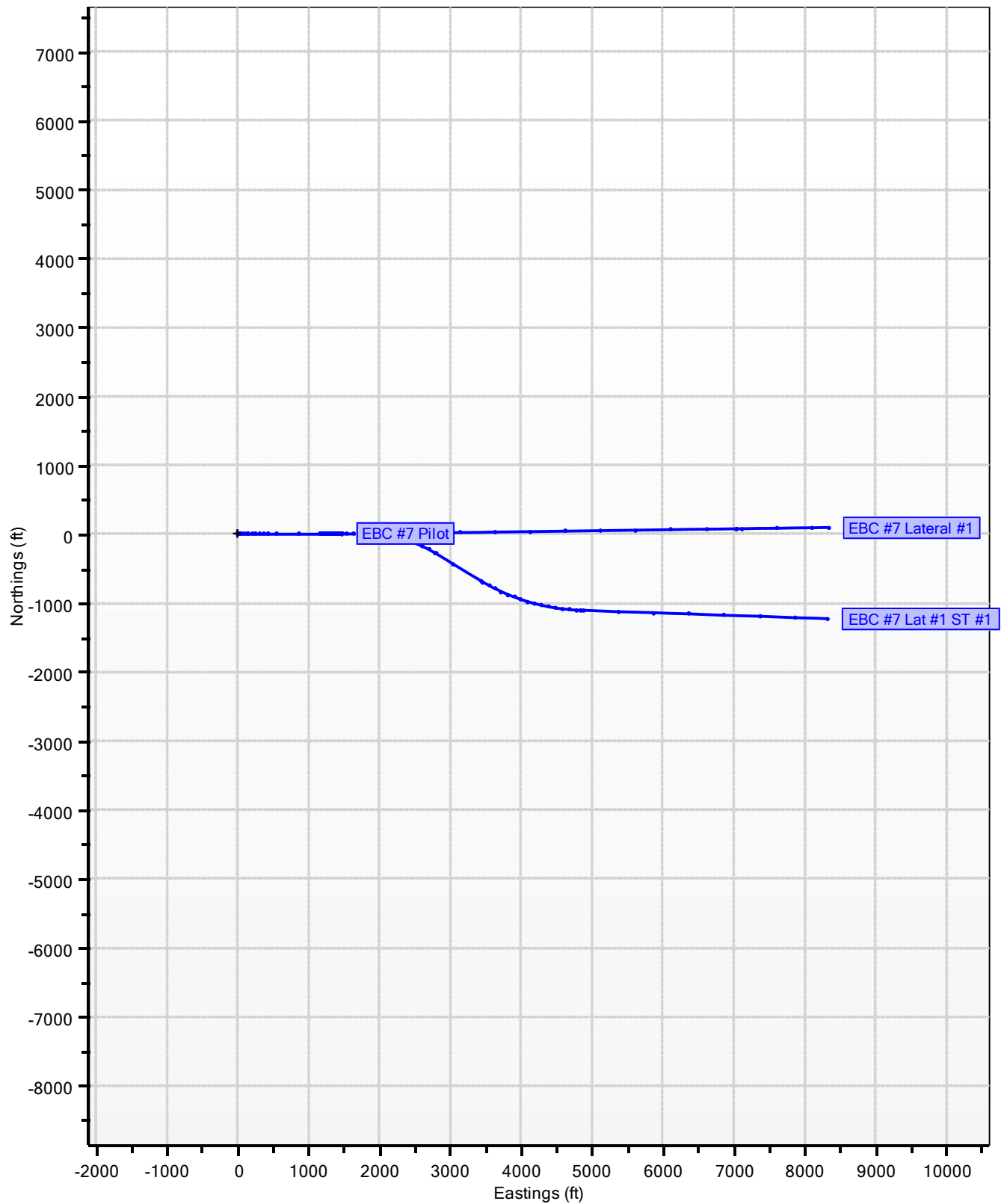
**East Bull Creek Well  
EBC Pad 3  
EBC #7  
EBC #7 Pilot**

**Catamount Energy Partners  
Proposal Report**

EBC Pad 3, EBC #7



EBC Pad 3, EBC #7



# Catamount Energy Partners

## Proposal Report



<b>Database:</b>	San Juan Basin	<b>Local Coordinate Reference:</b>	EBC #7
<b>Company:</b>		<b>TVD Reference:</b>	EBC #7
<b>Project:</b>	East Bull Creek Well	<b>MD Reference:</b>	EBC #7
<b>Site:</b>	EBC Pad 3	<b>North reference:</b>	Grid North
<b>Well:</b>	EBC #7	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>			
<b>Proposal:</b>	EBC #7 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 3			
<b>Site Position:</b>		<b>Northing:</b>	0	<b>Latitude:</b> 33.48902771° N
<b>From:</b>	Map	<b>Easting:</b>	0	<b>Longitude:</b> 115.33027986° W
<b>Position Uncertainty:</b>	6946ft	<b>Slot Radius:</b>	0in	<b>Grid Convergence:</b> -6.0°

<b>Well</b>	EBC #7			
<b>Well Position:</b>	<b>+N/-S</b>	1187929ft	<b>Northing:</b>	+1187929
	<b>+E/-W</b>	2445914ft	<b>Easting:</b>	+2445914
<b>Position Uncertainty:</b>		1ft	<b>Wellhead Elevation:</b>	6946ft
			<b>Latitude:</b>	37.16729293° N
			<b>Longitude:</b>	107.40162519° W
			<b>Ground Level:</b>	6930ft

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	2/9/2018	0.0	0.0	0.0

<b>Proposal</b>	EBC #7 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	90.0

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	
1811	39.3	90.0	1710	0	432	3.0	3.0	0.0	90.0	
3212	39.3	90.0	2794	0	1320	0.0	0.0	0.0	0.0	EBC 7 Pilot Top Coal
3484	29.1	90.0	3019	0	1473	3.7	-3.7	0.0	180.0	EBC #7 Lat 1 ST1 BHL

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	-6946	0	0	0	0	0.0	0.0	Animas
16	0.0	0.0	16	-6930	0	0	0	0	0.0	0.0	
100	0.0	0.0	100	-6846	0	0	0	0	0.0	0.0	
200	0.0	0.0	200	-6746	0	0	0	0	0.0	0.0	
300	0.0	0.0	300	-6646	0	0	0	0	0.0	0.0	
400	0.0	0.0	400	-6546	0	0	0	0	0.0	0.0	
500	0.0	0.0	500	-6446	0	0	0	0	0.0	0.0	
510	0.3	90.0	510	-6436	0	0	0	0	90.0	3.0	
540	1.2	90.0	540	-6406	0	0	0	0	90.0	3.0	
570	2.1	90.0	570	-6376	0	1	1	1	90.0	3.0	

# Catamount Energy Partners

## Proposal Report



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<b>Project:</b>	East Bull Creek Well	<b>MD Reference:</b>	EBC #7
<b>Site:</b>	EBC Pad 3	<b>North reference:</b>	Grid North
<b>Well:</b>	EBC #7	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>			
<b>Proposal:</b>	EBC #7 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
600	3.0	90.0	600	-6346	0	3	3	3	90.0	3.0	
630	3.9	90.0	630	-6316	0	4	4	4	90.0	3.0	
660	4.8	90.0	660	-6286	0	7	7	7	90.0	3.0	
690	5.7	90.0	690	-6256	0	9	9	9	90.0	3.0	
720	6.6	90.0	720	-6226	0	13	13	13	90.0	3.0	
750	7.5	90.0	749	-6197	0	16	16	16	90.0	3.0	
780	8.4	90.0	779	-6167	0	20	20	20	90.0	3.0	
810	9.3	90.0	809	-6137	0	25	25	25	90.0	3.0	
840	10.2	90.0	838	-6108	0	30	30	30	90.0	3.0	
870	11.1	90.0	868	-6078	0	36	36	36	90.0	3.0	
900	12.0	90.0	897	-6049	0	42	42	42	90.0	3.0	
930	12.9	90.0	926	-6020	0	48	48	48	90.0	3.0	
960	13.8	90.0	956	-5990	0	55	55	55	90.0	3.0	
990	14.7	90.0	985	-5961	0	63	63	63	90.0	3.0	
1020	15.6	90.0	1014	-5932	0	70	70	70	90.0	3.0	
1050	16.5	90.0	1042	-5904	0	79	79	79	90.0	3.0	
1080	17.4	90.0	1071	-5875	0	87	87	87	90.0	3.0	
1110	18.3	90.0	1100	-5846	0	97	97	97	90.0	3.0	
1140	19.2	90.0	1128	-5818	0	106	106	106	90.0	3.0	
1170	20.1	90.0	1156	-5790	0	116	116	116	90.0	3.0	
1200	21.0	90.0	1184	-5762	0	127	127	127	90.0	3.0	
1230	21.9	90.0	1212	-5734	0	138	138	138	90.0	3.0	
1260	22.8	90.0	1240	-5706	0	149	149	149	90.0	3.0	
1290	23.7	90.0	1268	-5678	0	161	161	161	90.0	3.0	
1320	24.6	90.0	1295	-5651	0	173	173	173	90.0	3.0	
1350	25.5	90.0	1322	-5624	0	186	186	186	90.0	3.0	
1380	26.4	90.0	1349	-5597	0	199	199	199	90.0	3.0	
1410	27.3	90.0	1376	-5570	0	213	213	213	90.0	3.0	
1440	28.2	90.0	1403	-5543	0	227	227	227	90.0	3.0	
1470	29.1	90.0	1429	-5517	0	241	241	241	90.0	3.0	
1500	30.0	90.0	1455	-5491	0	256	256	256	90.0	3.0	
1530	30.9	90.0	1481	-5465	0	271	271	271	90.0	3.0	
1560	31.8	90.0	1506	-5440	0	287	287	287	90.0	3.0	
1590	32.7	90.0	1532	-5414	0	303	303	303	90.0	3.0	
1620	33.6	90.0	1557	-5389	0	319	319	319	90.0	3.0	
1650	34.5	90.0	1582	-5364	0	336	336	336	90.0	3.0	
1680	35.4	90.0	1606	-5340	0	353	353	353	90.0	3.0	
1710	36.3	90.0	1631	-5315	0	371	371	371	90.0	3.0	
1740	37.2	90.0	1655	-5291	0	389	389	389	90.0	3.0	
1770	38.1	90.0	1678	-5268	0	407	407	407	90.0	3.0	
1800	39.0	90.0	1702	-5244	0	426	426	426	90.0	3.0	
1811	39.3	90.0	1710	-5236	0	432	432	432	90.0	3.0	
1900	39.3	90.0	1779	-5167	0	489	489	489	90.0	0.0	
2000	39.3	90.0	1857	-5089	0	552	552	552	90.0	0.0	
2100	39.3	90.0	1934	-5012	0	616	616	616	90.0	0.0	
2200	39.3	90.0	2011	-4935	0	679	679	679	90.0	0.0	
2300	39.3	90.0	2089	-4857	0	742	742	742	90.0	0.0	
2371	39.3	90.0	2144	-4802	0	788	788	788	90.0	0.0	Kirtland
2400	39.3	90.0	2166	-4780	0	806	806	806	90.0	0.0	
2489	39.3	90.0	2235	-4711	0	862	862	862	90.0	0.0	Farmington

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<b>Site:</b>	EBC Pad 3	<b>North reference:</b>	Grid North
<b>Well:</b>	EBC #7	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>			
<b>Proposal:</b>	EBC #7 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
2500	39.3	90.0	2243	-4703	0	869	869	869	90.0	0.0	
2600	39.3	90.0	2321	-4625	0	932	932	932	90.0	0.0	
2700	39.3	90.0	2398	-4548	0	996	996	996	90.0	0.0	
2800	39.3	90.0	2476	-4470	0	1059	1059	1059	90.0	0.0	
2854	39.3	90.0	2517	-4429	0	1093	1093	1093	90.0	0.0	Lower Kirtland
2900	39.3	90.0	2553	-4393	0	1123	1123	1123	90.0	0.0	
3000	39.3	90.0	2630	-4316	0	1186	1186	1186	90.0	0.0	
3100	39.3	90.0	2708	-4238	0	1249	1249	1249	90.0	0.0	
3200	39.3	90.0	2785	-4161	0	1313	1313	1313	90.0	0.0	
3212	39.3	90.0	2794	-4152	0	1320	1320	1320	90.0	0.0	Fruitland EBC 7 Pilot Top Coal
3240	38.3	90.0	2816	-4130	0	1338	1338	1338	90.0	3.7	
3270	37.1	90.0	2840	-4106	0	1356	1356	1356	90.0	3.7	
3300	36.0	90.0	2864	-4082	0	1374	1374	1374	90.0	3.7	
3317	35.4	90.0	2878	-4068	0	1384	1384	1384	90.0	3.7	Pictured Cliffs
3330	34.9	90.0	2888	-4058	0	1391	1391	1391	90.0	3.7	
3360	33.8	90.0	2913	-4033	0	1408	1408	1408	90.0	3.7	
3390	32.6	90.0	2938	-4008	0	1425	1425	1425	90.0	3.7	
3420	31.5	90.0	2964	-3982	0	1441	1441	1441	90.0	3.7	
3450	30.4	90.0	2989	-3957	0	1456	1456	1456	90.0	3.7	
3480	29.3	90.0	3015	-3931	0	1471	1471	1471	90.0	3.7	
3484	29.1	90.0	3019	-3927	0	1473	1473	1473	90.0	3.7	EBC #7 Lat 1 BHL EBC #7 Lat 1 ST1 BHL

Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
-hit/miss target										
-Shape										
EBC #7 Lat 1 BHL			2110	98	8344	+1188027	+2454258	37.16802500° N	107.37300303° W	
- proposal misses the target center by 6932ft at 3484ft MD (3019TVD, 0, +1473)										
- Point										
EBC #7 Lat 1 ST1 BHL			2141	-1225	8317	+1186704	+2454231	37.16439076° N	107.37300464° W	
- proposal misses the target center by 7008ft at 3484ft MD (3019TVD, 0, +1473)										
- Point										
EBC 7 Pilot Top Coal			2794	0	1320	+1187929	+2447234	37.16736664° N	107.39709620° W	
- proposal hits the target center										
- Point										

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Subsea Depth (ft)	Name	Dip Angle (°)	Dip Direction (°)	
16	16	-6930	Animas	0.0	0.0	
2371	2144	-4802	Kirtland	0.0	0.0	
2489	2235	-4711	Farmington	0.0	0.0	
2854	2517	-4429	Lower Kirtland	0.0	0.0	
3212	2794	-4152	Fruitland	0.0	0.0	
3317	2878	-4068	Pictured Cliffs	0.0	0.0	

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<b>Well:</b>	EBC #7	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>			
<b>Proposal:</b>	EBC #7 Pilot		

Checked By:	Approved By:	Date:
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