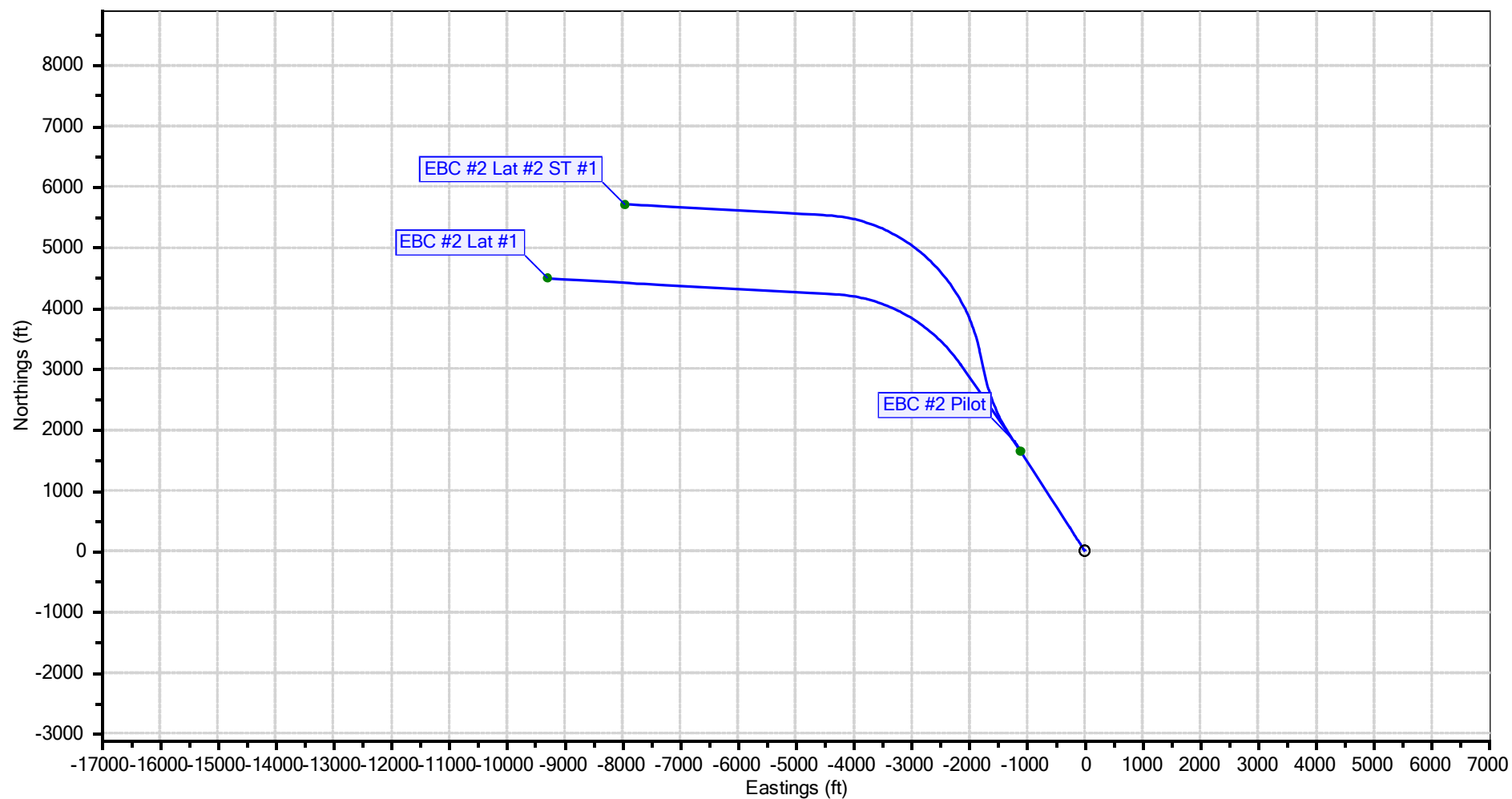


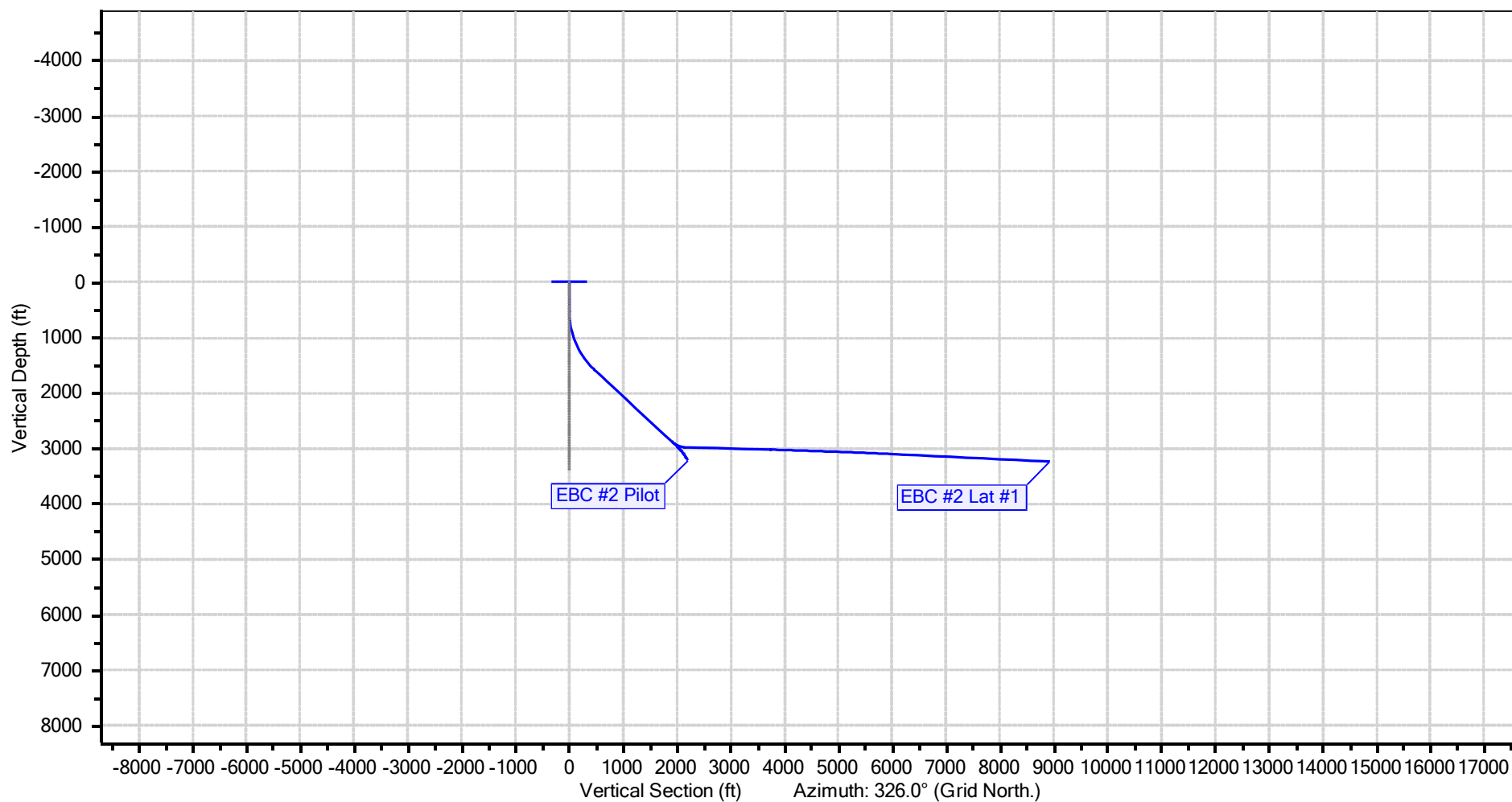
**East Bull Creek Well  
EBC Pad 3  
EBC #2  
EBC #2 Pilot**

## **Catamount Energy Partners Proposal Report**

EBC Pad 3, EBC #2



EBC Pad 3, EBC #2



# Catamount Energy Partners

## Proposal Report



<b>Database:</b>	San Juan Basin	<b>Local Coordinate Reference:</b>	EBC #2
<b>Company:</b>		<b>TVD Reference:</b>	EBC #2
<b>Project:</b>	East Bull Creek Well	<b>MD Reference:</b>	EBC #2
<b>Site:</b>	EBC Pad 3	<b>North reference:</b>	Grid North
<b>Well:</b>	EBC #2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>			
<b>Proposal:</b>	EBC #2 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, NAD83/91,		
<b>Map Zone:</b>	Southern Zone		

<b>Site</b>	EBC Pad 3			
<b>Site Position:</b>		<b>Northing:</b>	0 N	<b>Latitude:</b> 33.48902771° N
<b>From:</b>	Map	<b>Easting:</b>	0 E	<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 #2			
<b>Well Position:</b>	<b>+N/-S</b>	1187928ft	<b>Northing:</b>	1187928 N
	<b>+E/-W</b>	2445869ft	<b>Easting:</b>	2445869 E
<b>Position Uncertainty:</b>		1ft	<b>Wellhead Elevation:</b>	6946ft
			<b>Ground Level:</b>	6930ft

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	3/1/2018	0.0	0.0	0.0

<b>Proposal</b>	EBC #2 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	326.0

Survey Program		1/23/2019			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0	4098	EBC #2 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					
520	0.0	0.0	520	0	0	0.0	0.0	0.0	0.0	
1719	47.9	326.0	1584	392	-264	4.0	4.0	0.0	-34.0	
3775	47.9	326.0	2961	1658	-1118	0.0	0.0	0.0	0.0	
4098	29.9	326.0	3211	1825	-1231	5.6	-5.6	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	-6946	0	0	0	0	0.0	0.0	MWD
16	0.0	0.0	16	-6930	0	0	0	0	0.0	0.0	Animas
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	

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<b>Project:</b>	East Bull Creek Well	<b>MD Reference:</b>	EBC #2
<b>Site:</b>	EBC Pad 3	<b>North reference:</b>	Grid North
<b>Well:</b>	EBC #2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>			
<b>Proposal:</b>	EBC #2 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	-6546	0	0	0	0	0.0	0.0	
500	0.0	0.0	500	-6446	0	0	0	0	0.0	0.0	
520	0.0	0.0	520	-6426	0	0	0	0	0.0	0.0	
540	0.8	326.0	540	-6406	0	0	0	0	326.0	4.0	
570	2.0	326.0	570	-6376	1	0	1	1	326.0	4.0	
600	3.2	326.0	600	-6346	2	-1	2	2	326.0	4.0	
630	4.4	326.0	630	-6316	4	-2	4	4	326.0	4.0	
660	5.6	326.0	660	-6286	6	-4	7	7	326.0	4.0	
690	6.8	326.0	690	-6256	8	-6	10	10	326.0	4.0	
720	8.0	326.0	719	-6227	12	-8	14	14	326.0	4.0	
750	9.2	326.0	749	-6197	15	-10	18	18	326.0	4.0	
780	10.4	326.0	779	-6167	20	-13	24	24	326.0	4.0	
810	11.6	326.0	808	-6138	24	-16	29	29	326.0	4.0	
840	12.8	326.0	837	-6109	30	-20	36	36	326.0	4.0	
870	14.0	326.0	867	-6079	35	-24	43	43	326.0	4.0	
900	15.2	326.0	896	-6050	42	-28	50	50	326.0	4.0	
930	16.4	326.0	924	-6022	48	-33	58	58	326.0	4.0	
960	17.6	326.0	953	-5993	56	-37	67	67	326.0	4.0	
990	18.8	326.0	982	-5964	63	-43	76	76	326.0	4.0	
1020	20.0	326.0	1010	-5936	72	-48	86	86	326.0	4.0	
1050	21.2	326.0	1038	-5908	80	-54	97	97	326.0	4.0	
1080	22.4	326.0	1066	-5880	90	-60	108	108	326.0	4.0	
1110	23.6	326.0	1093	-5853	99	-67	120	120	326.0	4.0	
1140	24.8	326.0	1121	-5825	110	-74	132	132	326.0	4.0	
1170	26.0	326.0	1148	-5798	120	-81	145	145	326.0	4.0	
1200	27.2	326.0	1175	-5771	131	-89	158	158	326.0	4.0	
1230	28.4	326.0	1201	-5745	143	-96	172	172	326.0	4.0	
1260	29.6	326.0	1228	-5718	155	-105	187	187	326.0	4.0	
1290	30.8	326.0	1253	-5693	168	-113	202	202	326.0	4.0	
1320	32.0	326.0	1279	-5667	180	-122	218	218	326.0	4.0	
1350	33.2	326.0	1304	-5642	194	-131	234	234	326.0	4.0	
1380	34.4	326.0	1329	-5617	208	-140	251	251	326.0	4.0	
1410	35.6	326.0	1354	-5592	222	-150	268	268	326.0	4.0	
1440	36.8	326.0	1378	-5568	237	-160	285	285	326.0	4.0	
1470	38.0	326.0	1402	-5544	252	-170	304	304	326.0	4.0	
1500	39.2	326.0	1425	-5521	267	-180	322	322	326.0	4.0	
1530	40.4	326.0	1448	-5498	283	-191	342	342	326.0	4.0	
1560	41.6	326.0	1471	-5475	300	-202	361	361	326.0	4.0	
1590	42.8	326.0	1493	-5453	316	-213	381	381	326.0	4.0	
1620	44.0	326.0	1515	-5431	333	-225	402	402	326.0	4.0	
1650	45.2	326.0	1536	-5410	351	-237	423	423	326.0	4.0	
1680	46.4	326.0	1557	-5389	369	-249	445	445	326.0	4.0	
1710	47.6	326.0	1578	-5368	387	-261	467	467	326.0	4.0	
1719	47.9	326.0	1584	-5362	392	-264	473	473	326.0	4.0	
1800	47.9	326.0	1638	-5308	442	-298	533	533	326.0	0.0	
1900	47.9	326.0	1705	-5241	504	-340	608	608	326.0	0.0	
2000	47.9	326.0	1772	-5174	565	-381	682	682	326.0	0.0	
2100	47.9	326.0	1839	-5107	627	-423	756	756	326.0	0.0	
2200	47.9	326.0	1906	-5040	688	-464	830	830	326.0	0.0	
2300	47.9	326.0	1973	-4973	750	-506	905	905	326.0	0.0	

# Catamount Energy Partners

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<b>Site:</b>	EBC Pad 3	<b>North reference:</b>	Grid North
<b>Well:</b>	EBC #2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>			
<b>Proposal:</b>	EBC #2 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
2400	47.9	326.0	2040	-4906	812	-547	979	979	326.0	0.0	
2500	47.9	326.0	2107	-4839	873	-589	1053	1053	326.0	0.0	
2600	47.9	326.0	2174	-4772	935	-630	1127	1127	326.0	0.0	
2700	47.9	326.0	2241	-4705	996	-672	1202	1202	326.0	0.0	
2796	47.9	326.0	2305	-4641	1055	-711	1273	1273	326.0	0.0	Kirtland
2800	47.9	326.0	2308	-4638	1058	-713	1276	1276	326.0	0.0	
2900	47.9	326.0	2375	-4571	1119	-755	1350	1350	326.0	0.0	
2931	47.9	326.0	2396	-4550	1139	-768	1373	1373	326.0	0.0	Farmington
3000	47.9	326.0	2442	-4504	1181	-796	1424	1424	326.0	0.0	
3100	47.9	326.0	2509	-4437	1242	-838	1499	1499	326.0	0.0	
3200	47.9	326.0	2576	-4370	1304	-879	1573	1573	326.0	0.0	
3300	47.9	326.0	2643	-4303	1366	-921	1647	1647	326.0	0.0	
3349	47.9	326.0	2676	-4270	1396	-941	1684	1684	326.0	0.0	Lower Kirtland
3400	47.9	326.0	2710	-4236	1427	-962	1721	1721	326.0	0.0	
3500	47.9	326.0	2777	-4169	1489	-1004	1796	1796	326.0	0.0	
3600	47.9	326.0	2844	-4102	1550	-1045	1870	1870	326.0	0.0	
3700	47.9	326.0	2911	-4035	1612	-1087	1944	1944	326.0	0.0	
3775	47.9	326.0	2961	-3985	1658	-1118	2000	2000	326.0	0.0	Fruitland
3775	47.9	326.0	2961	-3985	1658	-1118	2000	2000	326.0	5.6	EBC #2 Top of Prod
3780	47.7	326.0	2964	-3982	1661	-1120	2003	2003	326.0	5.6	
3810	46.0	326.0	2985	-3961	1679	-1132	2025	2025	326.0	5.6	
3840	44.3	326.0	3006	-3940	1697	-1144	2047	2047	326.0	5.6	
3870	42.6	326.0	3028	-3918	1714	-1156	2067	2067	326.0	5.6	
3885	41.8	326.0	3039	-3907	1722	-1161	2077	2077	326.0	5.6	Pictured Cliffs
3900	40.9	326.0	3050	-3896	1731	-1167	2087	2087	326.0	5.6	
3930	39.3	326.0	3073	-3873	1747	-1178	2107	2107	326.0	5.6	
3960	37.6	326.0	3097	-3849	1762	-1188	2125	2125	326.0	5.6	
3990	35.9	326.0	3121	-3825	1777	-1198	2143	2143	326.0	5.6	
4020	34.2	326.0	3145	-3801	1791	-1208	2160	2160	326.0	5.6	
4050	32.5	326.0	3170	-3776	1805	-1217	2177	2177	326.0	5.6	
4080	30.9	326.0	3196	-3750	1818	-1226	2193	2193	326.0	5.6	
4098	29.9	326.0	3211	-3735	1825	-1231	2202	2202	326.0	5.6	

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 #2 Top of Prod			2961	1659	-1118	1189587 N	2444751 E	37.17178041° N	107.40573158° W
- proposal misses the target center by 1ft at 3775ft MD (2961TVD, 1658 N, 1118 W)									
- Point									

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<b>Wellbore:</b>			
<b>Proposal:</b>	EBC #2 Pilot		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Subsea Depth (ft)	Name	Dip Angle (°)	Dip Direction (°)
16	16	-6930	Animas	0.0	0.0
2796	2305	-4641	Kirtland	0.0	0.0
2931	2396	-4550	Farmington	0.0	0.0
3349	2676	-4270	Lower Kirtland	0.0	0.0
3775	2961	-3985	Fruitland	0.0	0.0
3885	3039	-3907	Pictured Cliffs	0.0	0.0

Checked By:	Approved By:	Date:
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