

# Catamount Energy Partners

## Standard Planning Report

Lynch 34-6-18 #2

Sec 18U T34N R6W

La Plata County CO

August 22, 2014



# Catamount Energy Partners

## DIRECTIONAL DRILLING PLAN

Well: Lynch 34-6-18 #2  
 STR: Sec 18U T34N R6W  
 Location (Ft.): 1734FNL , 209FWL  
 Field: Ignacio Blanco Field  
 Co, State: La Plata County, Colorado

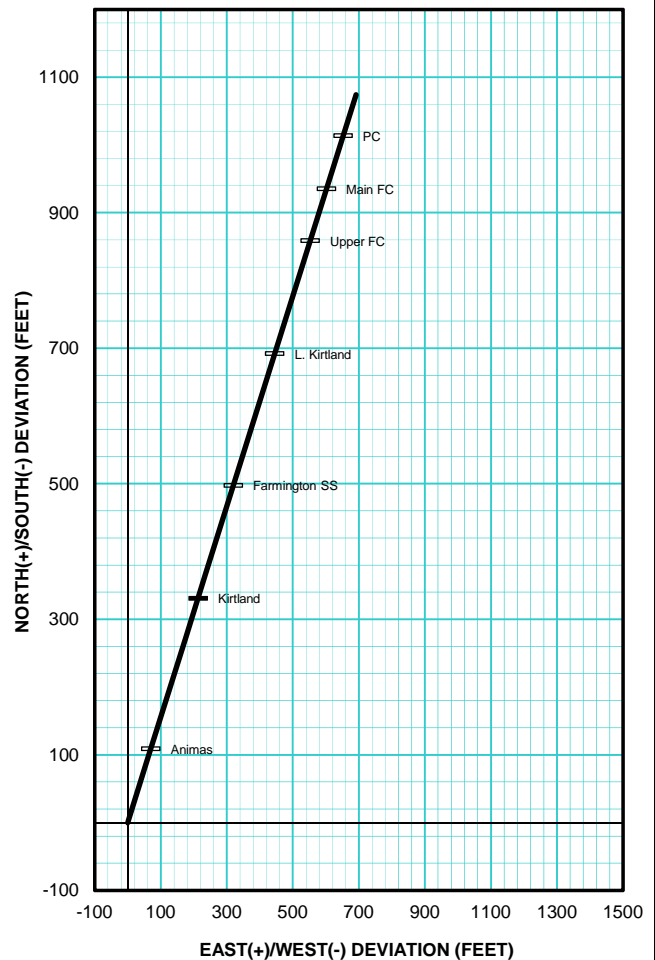
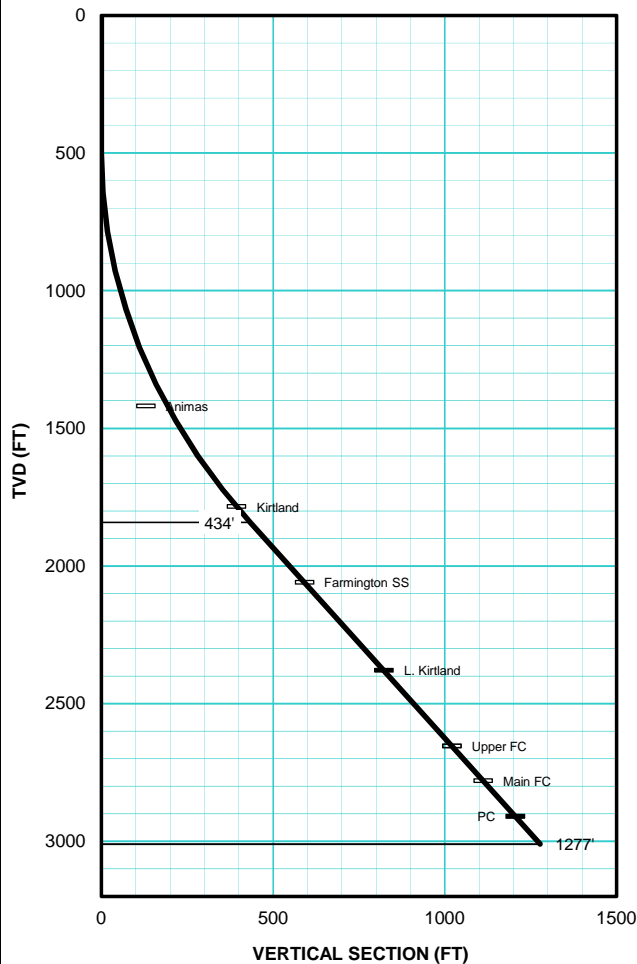
### SECTION DETAILS

Section	MD	Incl	Azi	TVD	+N/-S	+E/-W	VSec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	500.00	0.00	0.00	500.00	0.00	0.00	0.00
3	1932.90	35.82	32.76	1841.36	364.59	234.58	433.54
4	3374.19	35.82	32.76	3010.00	1074.00	691.00	1277.09 PBHL

### ESTIMATED FORMATION TOP DETAILS

Formation	TVD Path	MD Path	+N/-S	+E/-W
Animas	1420.00	1413.24	108.82	70.01
Kirtland Shale	1785.00	1863.40	330.38	212.57
Farmington Sandstone	2060.00	2202.56	497.32	319.97
Lower Kirtland Shale	2380.00	2597.21	691.57	444.95
Upper Fruitland Coal	2655.00	2936.37	858.50	552.35
Main Fruitland Coal	2781.00	3091.76	934.99	601.56
Pictured Cliffs	2910.00	3250.86	1013.30	651.94

GL: 6858'  
 KB: 6871'



## Lynch 34-6-18 #2, Plan 1

<b>Operator</b>	Catamount Energy Partners			<b>Units</b>	feet, °/100ft		09:00 Friday, August 22, 2014 Page 1 of 3			
<b>Field</b>	Ignacio Blanco			<b>County</b>	La Plata		<b>Vertical Section Azimuth</b>		32.76	
<b>Well Name</b>	Lynch 34-6-18 #2			<b>State</b>	CO		<b>Survey Calculation Method</b>		Minimum Curvature	
<b>Plan</b>	1			<b>Country</b>			<b>Database</b>		Access	
<b>Location</b>	1734 FNL 209 FEL			<b>MapZone</b>	UTM		<b>Lat Long Ref</b>	NAD83		
<b>Site</b>	S18U T34N R7W			<b>SurfaceX</b>	0		<b>Surface Long</b>	-107.54957		
<b>Slot Name</b>	<b>UWI</b>			<b>SurfaceY</b>	0		<b>Surface Lat</b>	37.19363		
<b>Well Number</b>	<b>API</b>			<b>Z Datum</b>	KB					
<b>Project</b>				<b>Surface Z</b>	6871		<b>Ground Level</b>	6858		
<b>DIRECTIONAL WELL PLAN</b>										
<b>MD*</b>	<b>INC*</b>	<b>AZI*</b>	<b>TVD*</b>	<b>N*</b>	<b>E*</b>	<b>DLS*</b>	<b>V. S.*</b>	<b>MapE*</b>	<b>MapN*</b>	<b>SysTVD*</b>
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
*** RKB (at MD = 0.00)										
0.00	0.00	0.0	0.00	0.00	0.00		0.00	0.00	0.00	6871.00
50.00	0.00	0.0	50.00	0.00	0.00	0.00	0.00	0.00	0.00	6821.00
100.00	0.00	0.0	100.00	0.00	0.00	0.00	0.00	0.00	0.00	6771.00
150.00	0.00	0.0	150.00	0.00	0.00	0.00	0.00	0.00	0.00	6721.00
200.00	0.00	0.0	200.00	0.00	0.00	0.00	0.00	0.00	0.00	6671.00
250.00	0.00	0.0	250.00	0.00	0.00	0.00	0.00	0.00	0.00	6621.00
300.00	0.00	0.0	300.00	0.00	0.00	0.00	0.00	0.00	0.00	6571.00
350.00	0.00	0.0	350.00	0.00	0.00	0.00	0.00	0.00	0.00	6521.00
400.00	0.00	0.0	400.00	0.00	0.00	0.00	0.00	0.00	0.00	6471.00
450.00	0.00	0.0	450.00	0.00	0.00	0.00	0.00	0.00	0.00	6421.00
*** KOP (at MD = 500.00)										
500.00	0.00	0.0	500.00	0.00	0.00	0.00	0.00	0.00	0.00	6371.00
550.00	1.25	32.8	550.00	0.46	0.30	2.50	0.55	0.30	0.46	6321.00
600.00	2.50	32.8	599.97	1.83	1.18	2.50	2.18	1.18	1.83	6271.03
650.00	3.75	32.8	649.89	4.13	2.66	2.50	4.91	2.66	4.13	6221.11
700.00	5.00	32.8	699.75	7.33	4.72	2.50	8.72	4.72	7.33	6171.25
750.00	6.25	32.8	749.50	11.46	7.37	2.50	13.62	7.37	11.46	6121.50
800.00	7.50	32.8	799.14	16.49	10.61	2.50	19.61	10.61	16.49	6071.86
850.00	8.75	32.8	848.64	22.43	14.43	2.50	26.67	14.43	22.43	6022.36
900.00	10.00	32.8	897.97	29.28	18.84	2.50	34.82	18.84	29.28	5973.03
950.00	11.25	32.8	947.11	37.03	23.83	2.50	44.04	23.83	37.03	5923.89
1000.00	12.50	32.8	996.04	45.69	29.39	2.50	54.33	29.39	45.69	5874.96
1050.00	13.75	32.8	1044.74	55.23	35.54	2.50	65.68	35.54	55.23	5826.26
1100.00	15.00	32.8	1093.17	65.67	42.25	2.50	78.09	42.25	65.67	5777.83
1150.00	16.25	32.8	1141.32	77.00	49.54	2.50	91.56	49.54	77.00	5729.68
1200.00	17.50	32.8	1189.17	89.20	57.39	2.50	106.07	57.39	89.20	5681.83
1250.00	18.75	32.8	1236.69	102.29	65.81	2.50	121.63	65.81	102.29	5634.32
1300.00	20.00	32.8	1283.85	116.23	74.78	2.50	138.21	74.78	116.23	5587.15
1350.00	21.25	32.8	1330.65	131.05	84.31	2.50	155.83	84.31	131.05	5540.35
1400.00	22.50	32.8	1377.05	146.71	94.39	2.50	174.46	94.39	146.71	5493.95
1450.00	23.75	32.8	1423.03	163.23	105.02	2.50	194.09	105.02	163.23	5447.97
1500.00	25.00	32.8	1468.57	180.58	116.18	2.50	214.73	116.18	180.58	5402.43
1550.00	26.25	32.8	1513.65	198.76	127.88	2.50	236.35	127.88	198.76	5357.35
1600.00	27.50	32.8	1558.25	217.77	140.11	2.50	258.95	140.11	217.77	5312.75
1650.00	28.75	32.8	1602.35	237.59	152.87	2.50	282.52	152.87	237.59	5268.65

## Lynch 34-6-18 #2, Plan 1

<b>Operator</b>	Catamount Energy Partners			<b>Units</b>	feet, %/100ft		09:00 Friday, August 22, 2014 Page 2 of 3			
<b>Field</b>	Ignacio Blanco			<b>County</b>	La Plata		<b>Vertical Section Azimuth</b>		32.76	
<b>Well Name</b>	Lynch 34-6-18 #2			<b>State</b>	CO		<b>Survey Calculation Method</b>		Minimum Curvature	
<b>Plan</b>	1			<b>Country</b>			<b>Database</b>		Access	
<b>Location</b>	1734 FNL 209 FEL					<b>MapZone</b>	UTM		<b>Lat Long Ref</b>	NAD83
<b>Site</b>	S18U T34N R7W					<b>SurfaceX</b>	0	<b>Surface Long</b>	-107.54957	
<b>Slot Name</b>		<b>UWI</b>				<b>SurfaceY</b>	0	<b>Surface Lat</b>	37.19363	
<b>Well Number</b>		<b>API</b>				<b>Z Datum</b>	KB			
<b>Project</b>						<b>Surface Z</b>	6871	<b>Ground Level</b>	6858	
<b>DIRECTIONAL WELL PLAN</b>										
<b>MD*</b>	<b>INC*</b>	<b>AZI*</b>	<b>TVD*</b>	<b>N*</b>	<b>E*</b>	<b>DLS*</b>	<b>V. S.*</b>	<b>MapE*</b>	<b>MapN*</b>	<b>SysTVD*</b>
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
1700.00	30.00	32.8	1645.92	258.22	166.14	2.50	307.05	166.14	258.22	5225.08
1750.00	31.25	32.8	1688.94	279.64	179.92	2.50	332.52	179.92	279.64	5182.06
1800.00	32.50	32.8	1731.40	301.84	194.20	2.50	358.92	194.20	301.84	5139.60
1850.00	33.75	32.8	1773.27	324.82	208.99	2.50	386.24	208.99	324.82	5097.73
1900.00	35.00	32.8	1814.54	348.56	224.26	2.50	414.47	224.26	348.56	5056.46
1932.90	35.82	32.8	1841.36	364.59	234.58	2.50	433.54	234.58	364.59	5029.64
1950.00	35.82	32.8	1855.22	373.01	239.99	0.00	443.54	239.99	373.01	5015.78
2000.00	35.82	32.8	1895.76	397.62	255.82	0.00	472.81	255.82	397.62	4975.24
2050.00	35.82	32.8	1936.30	422.23	271.66	0.00	502.07	271.66	422.23	4934.70
2100.00	35.82	32.8	1976.84	446.84	287.49	0.00	531.34	287.49	446.84	4894.16
2150.00	35.82	32.8	2017.39	471.45	303.33	0.00	560.60	303.33	471.45	4853.61
2200.00	35.82	32.8	2057.93	496.06	319.16	0.00	589.86	319.16	496.06	4813.07
2250.00	35.82	32.8	2098.47	520.67	334.99	0.00	619.13	334.99	520.67	4772.53
2300.00	35.82	32.8	2139.01	545.28	350.83	0.00	648.39	350.83	545.28	4731.99
2350.00	35.82	32.8	2179.55	569.89	366.66	0.00	677.66	366.66	569.89	4691.45
2400.00	35.82	32.8	2220.09	594.50	382.50	0.00	706.92	382.50	594.50	4650.91
2450.00	35.82	32.8	2260.64	619.11	398.33	0.00	736.18	398.33	619.11	4610.36
2500.00	35.82	32.8	2301.18	643.72	414.16	0.00	765.45	414.16	643.72	4569.82
2550.00	35.82	32.8	2341.72	668.33	430.00	0.00	794.71	430.00	668.33	4529.28
2600.00	35.82	32.8	2382.26	692.94	445.83	0.00	823.97	445.83	692.94	4488.74
2650.00	35.82	32.8	2422.80	717.55	461.67	0.00	853.24	461.67	717.55	4448.20
2700.00	35.82	32.8	2463.34	742.16	477.50	0.00	882.50	477.50	742.16	4407.66
2750.00	35.82	32.8	2503.89	766.77	493.33	0.00	911.77	493.33	766.77	4367.11
2800.00	35.82	32.8	2544.43	791.38	509.17	0.00	941.03	509.17	791.38	4326.57
2850.00	35.82	32.8	2584.97	815.99	525.00	0.00	970.29	525.00	815.99	4286.03
2900.00	35.82	32.8	2625.51	840.60	540.83	0.00	999.56	540.83	840.60	4245.49
2950.00	35.82	32.8	2666.05	865.21	556.67	0.00	1028.82	556.67	865.21	4204.95
3000.00	35.82	32.8	2706.59	889.82	572.50	0.00	1058.09	572.50	889.82	4164.41
3050.00	35.82	32.8	2747.14	914.43	588.34	0.00	1087.35	588.34	914.43	4123.86
3100.00	35.82	32.8	2787.68	939.04	604.17	0.00	1116.61	604.17	939.04	4083.32
3150.00	35.82	32.8	2828.22	963.65	620.00	0.00	1145.88	620.00	963.65	4042.78
3200.00	35.82	32.8	2868.76	988.26	635.84	0.00	1175.14	635.84	988.26	4002.24
3250.00	35.82	32.8	2909.30	1012.87	651.67	0.00	1204.40	651.67	1012.87	3961.70
3300.00	35.82	32.8	2949.84	1037.48	667.51	0.00	1233.67	667.51	1037.48	3921.16
3350.00	35.82	32.8	2990.39	1062.09	683.34	0.00	1262.93	683.34	1062.09	3880.61

## Lynch 34-6-18 #2, Plan 1

<b>Operator</b>	Catamount Energy Partners	<b>Units</b>	feet, °/100ft	09:00 Friday, August 22, 2014	Page 3 of 3
<b>Field</b>	Ignacio Blanco	<b>County</b>	La Plata	<b>Vertical Section Azimuth</b>	32.76
<b>Well Name</b>	Lynch 34-6-18 #2	<b>State</b>	CO	<b>Survey Calculation Method</b>	Minimum Curvature
<b>Plan</b>	1	<b>Country</b>		<b>Database</b>	Access

<b>Location</b>	1734 FNL 209 FEL	<b>MapZone</b>	UTM	<b>Lat Long Ref</b>	NAD83
<b>Site</b>	S18U T34N R7W	<b>SurfaceX</b>	0	<b>Surface Long</b>	-107.54957
<b>Slot Name</b>	<b>UWI</b>	<b>SurfaceY</b>	0	<b>Surface Lat</b>	37.19363
<b>Well Number</b>	<b>API</b>	<b>Z Datum</b>	KB		
<b>Project</b>		<b>Surface Z</b>	6871	<b>Ground Level</b>	6858

### DIRECTIONAL WELL PLAN

<b>MD*</b>	<b>INC*</b>	<b>AZI*</b>	<b>TVD*</b>	<b>N*</b>	<b>E*</b>	<b>DLS*</b>	<b>V. S.*</b>	<b>MapE*</b>	<b>MapN*</b>	<b>SysTVD*</b>
ft	deg	deg	ft	ft	ft	°/100ft	ft	ft	ft	ft
3374.19	35.82	32.8	3010.00	1074.00	691.00	0.00	1277.09	691.00	1074.00	3861.00