

CRESTONE PEAK RESOURCES

ARAPAHOE COUNTY

SEC 26-T4S-R65W

GRIMM MOTOCROSS 4-65 23 1B2BUH

OWB

Plan: PROPOSAL 1

Standard Planning Report

10 December, 2024

Project: ARAPAHOE COUNTY
Site: SEC 26-T4S-R65W
Well: GRIMM MOTOCROSS 4-65 23 1B2BUH
Wellbore: OWB
Design: PROPOSAL 1

PROJECT DETAILS: ARAPAHOE COUNTY
Sediment System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Central Zone
System Datum: Mean Sea Level

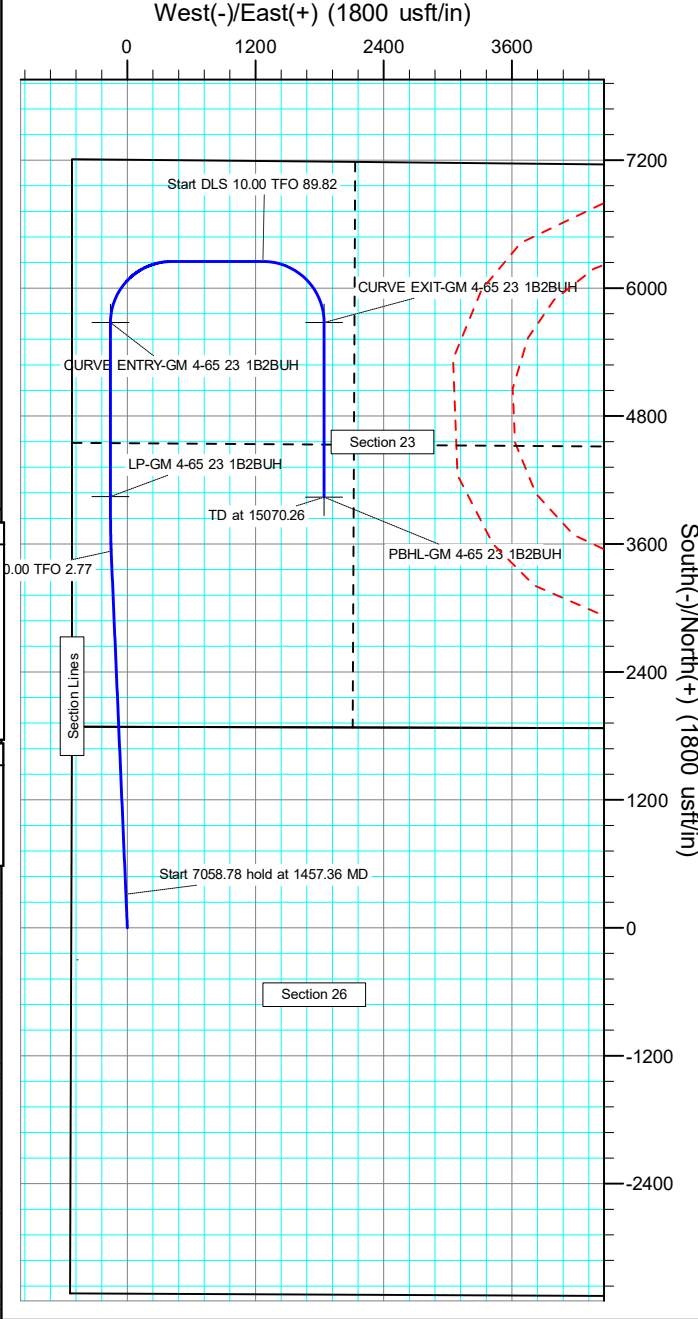
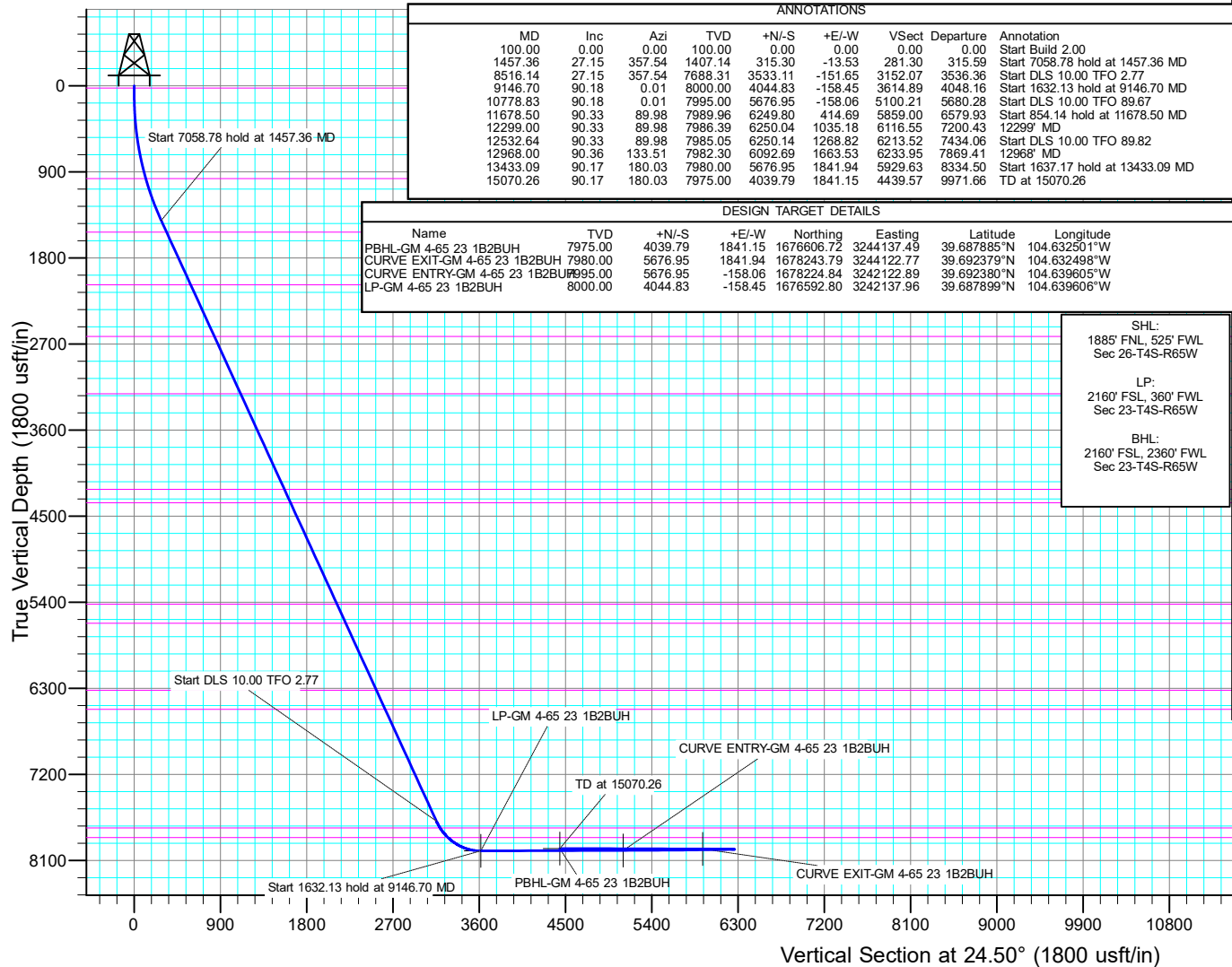


Azimuths to True North
Magnetic North: 7.44°
Magnetic Field
Strength: 51304.3nT
Dip Angle: 65.99°
Date: 1/22/2024
Model: IGRF2020

WELL DETAILS: GRIMM MOTOCROSS 4-65 23 1B2BUH

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1672549.71	3242334.74	39.676795°N	104.639043°W	

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	
3	1457.36	27.15	357.54	1407.14	315.30	-13.53	2.00	357.54	281.30	
4	8516.14	27.15	357.54	7688.31	3533.11	-151.65	0.00	0.00	3152.07	
5	9146.70	90.18	0.01	8000.00	4044.83	-158.45	10.00	2.77	3614.89	LP-GM 4-65 23 1B2BUH
6	10778.83	90.18	0.01	7995.00	5676.95	-158.06	0.00	0.00	5100.21	CURVE ENTRY-GM 4-65 23 1B2BUH
7	11678.50	90.33	89.98	7989.96	6249.80	414.69	10.00	89.67	5859.00	
8	12532.64	90.33	89.98	7985.05	6250.14	1268.82	0.00	0.00	6213.52	
9	13433.09	90.17	180.03	7980.00	5676.95	1841.94	10.00	89.82	5929.63	CURVE EXIT-GM 4-65 23 1B2BUH
10	15070.26	90.17	180.03	7975.00	4039.79	1841.15	0.00	0.00	4439.57	PBHL-GM 4-65 23 1B2BUH



Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well GRIMM MOTOCROSS 4-65 23 1B2BUH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KBE 25' @ 5825.00usft
Project:	ARAPAHOE COUNTY	MD Reference:	KBE 25' @ 5825.00usft
Site:	SEC 26-T4S-R65W	North Reference:	True
Well:	GRIMM MOTOCROSS 4-65 23 1B2BUH	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

Project	ARAPAHOE COUNTY		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		Using geodetic scale factor

Site	SEC 26-T4S-R65W		
Site Position:		Northing:	1,674,430.51 usft
From:	Lat/Long	Easting:	3,241,798.17 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	39.681972°N
		Longitude:	104.640886°W
		Grid Convergence:	0.54 °

Well	GRIMM MOTOCROSS 4-65 23 1B2BUH					
Well Position	+N/-S	-1,885.81 usft	Northing:	1,672,549.71 usft	Latitude:	39.676795°N
	+E/-W	518.77 usft	Easting:	3,242,334.74 usft	Longitude:	104.639043°W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	5,800.00 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	1/22/2024	7.44	65.99	51,304.27502024

Design	PROPOSAL 1				
Audit Notes:					
Version:		Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	24.50	

Plan Survey Tool Program	Date	12/5/2024			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	15,070.26	PROPOSAL 1 (OWB)	MWD OWSG	
				OWSG MWD - Standard	

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Well:	GRIMM MOTOCROSS 4-65 23 1B2BUH	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,457.36	27.15	357.54	1,407.14	315.30	-13.53	2.00	2.00	0.00	357.54	
8,516.14	27.15	357.54	7,688.31	3,533.11	-151.65	0.00	0.00	0.00	0.00	
9,146.70	90.18	0.01	8,000.00	4,044.83	-158.45	10.00	10.00	0.39	2.77	LP-GM 4-65 23 1B2B
10,778.83	90.18	0.01	7,995.00	5,676.95	-158.06	0.00	0.00	0.00	0.00	CURVE ENTRY-GM 4
11,678.50	90.33	89.98	7,989.96	6,249.80	414.69	10.00	0.02	10.00	89.67	
12,532.64	90.33	89.98	7,985.05	6,250.14	1,268.82	0.00	0.00	0.00	0.00	
13,433.09	90.17	180.03	7,980.00	5,676.95	1,841.94	10.00	-0.02	10.00	89.82	CURVE EXIT-GM 4-6
15,070.26	90.17	180.03	7,975.00	4,039.79	1,841.15	0.00	0.00	0.00	0.00	PBHL-GM 4-65 23 1B

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Project:	ARAPAHOE COUNTY	MD Reference:	KBE 25' @ 5825.00usft
Site:	SEC 26-T4S-R65W	North Reference:	True
Well:	GRIMM MOTOCROSS 4-65 23 1B2BUH	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00
Denver									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
200.00	2.00	357.54	199.98	1.74	-0.07	1.56	2.00	2.00	0.00
300.00	4.00	357.54	299.84	6.97	-0.30	6.22	2.00	2.00	0.00
400.00	6.00	357.54	399.45	15.68	-0.67	13.99	2.00	2.00	0.00
500.00	8.00	357.54	498.70	27.85	-1.20	24.85	2.00	2.00	0.00
600.00	10.00	357.54	597.47	43.48	-1.87	38.79	2.00	2.00	0.00
700.00	12.00	357.54	695.62	62.55	-2.68	55.80	2.00	2.00	0.00
800.00	14.00	357.54	793.06	85.02	-3.65	75.85	2.00	2.00	0.00
900.00	16.00	357.54	889.64	110.88	-4.76	98.92	2.00	2.00	0.00
983.96	17.68	357.54	970.00	135.17	-5.80	120.60	2.00	2.00	0.00
Arapahoe									
1,000.00	18.00	357.54	985.27	140.08	-6.01	124.98	2.00	2.00	0.00
1,100.00	20.00	357.54	1,079.82	172.61	-7.41	153.99	2.00	2.00	0.00
1,200.00	22.00	357.54	1,173.17	208.41	-8.95	185.93	2.00	2.00	0.00
1,300.00	24.00	357.54	1,265.21	247.45	-10.62	220.76	2.00	2.00	0.00
1,400.00	26.00	357.54	1,355.84	289.67	-12.43	258.43	2.00	2.00	0.00
1,457.36	27.15	357.54	1,407.14	315.30	-13.53	281.30	2.00	2.00	0.00
Start 7058.78 hold at 1457.36 MD									
1,500.00	27.15	357.54	1,445.08	334.74	-14.37	298.64	0.00	0.00	0.00
1,595.43	27.15	357.54	1,530.00	378.24	-16.24	337.45	0.00	0.00	0.00
Laramie-Fox Hills Formation									
1,600.00	27.15	357.54	1,534.07	380.33	-16.33	339.31	0.00	0.00	0.00
1,700.00	27.15	357.54	1,623.05	425.91	-18.28	379.98	0.00	0.00	0.00
1,800.00	27.15	357.54	1,712.03	471.50	-20.24	420.65	0.00	0.00	0.00
1,900.00	27.15	357.54	1,801.02	517.08	-22.20	461.32	0.00	0.00	0.00
2,000.00	27.15	357.54	1,890.00	562.67	-24.15	501.99	0.00	0.00	0.00
2,100.00	27.15	357.54	1,978.99	608.26	-26.11	542.66	0.00	0.00	0.00
2,200.00	27.15	357.54	2,067.97	653.84	-28.07	583.33	0.00	0.00	0.00
2,213.52	27.15	357.54	2,080.00	660.01	-28.33	588.82	0.00	0.00	0.00
Pierre Formation									
2,300.00	27.15	357.54	2,156.95	699.43	-30.02	624.00	0.00	0.00	0.00
2,400.00	27.15	357.54	2,245.94	745.01	-31.98	664.66	0.00	0.00	0.00
2,500.00	27.15	357.54	2,334.92	790.60	-33.94	705.33	0.00	0.00	0.00
2,600.00	27.15	357.54	2,423.90	836.19	-35.89	746.00	0.00	0.00	0.00
2,700.00	27.15	357.54	2,512.89	881.77	-37.85	786.67	0.00	0.00	0.00
2,800.00	27.15	357.54	2,601.87	927.36	-39.81	827.34	0.00	0.00	0.00
2,820.37	27.15	357.54	2,620.00	936.64	-40.20	835.63	0.00	0.00	0.00
Upper Pierre aquifer									
2,900.00	27.15	357.54	2,690.86	972.94	-41.76	868.01	0.00	0.00	0.00
3,000.00	27.15	357.54	2,779.84	1,018.53	-43.72	908.68	0.00	0.00	0.00
3,100.00	27.15	357.54	2,868.82	1,064.11	-45.68	949.35	0.00	0.00	0.00
3,200.00	27.15	357.54	2,957.81	1,109.70	-47.63	990.02	0.00	0.00	0.00
3,300.00	27.15	357.54	3,046.79	1,155.29	-49.59	1,030.69	0.00	0.00	0.00
3,400.00	27.15	357.54	3,135.77	1,200.87	-51.55	1,071.36	0.00	0.00	0.00
3,494.65	27.15	357.54	3,220.00	1,244.02	-53.40	1,109.85	0.00	0.00	0.00
Base of Upper Pierre aquifer									
3,500.00	27.15	357.54	3,224.76	1,246.46	-53.50	1,112.03	0.00	0.00	0.00
3,600.00	27.15	357.54	3,313.74	1,292.04	-55.46	1,152.70	0.00	0.00	0.00
3,700.00	27.15	357.54	3,402.72	1,337.63	-57.42	1,193.37	0.00	0.00	0.00

Civitas Resources

Planning Report

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Project:	ARAPAHOE COUNTY	MD Reference:	KBE 25' @ 5825.00usft
Site:	SEC 26-T4S-R65W	North Reference:	True
Well:	GRIMM MOTOCROSS 4-65 23 1B2BUH	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
3,800.00	27.15	357.54	3,491.71	1,383.22	-59.37	1,234.04	0.00	0.00	0.00	
3,900.00	27.15	357.54	3,580.69	1,428.80	-61.33	1,274.71	0.00	0.00	0.00	
4,000.00	27.15	357.54	3,669.68	1,474.39	-63.29	1,315.38	0.00	0.00	0.00	
4,100.00	27.15	357.54	3,758.66	1,519.97	-65.24	1,356.05	0.00	0.00	0.00	
4,200.00	27.15	357.54	3,847.64	1,565.56	-67.20	1,396.72	0.00	0.00	0.00	
4,300.00	27.15	357.54	3,936.63	1,611.14	-69.16	1,437.38	0.00	0.00	0.00	
4,400.00	27.15	357.54	4,025.61	1,656.73	-71.11	1,478.05	0.00	0.00	0.00	
4,500.00	27.15	357.54	4,114.59	1,702.32	-73.07	1,518.72	0.00	0.00	0.00	
4,600.00	27.15	357.54	4,203.58	1,747.90	-75.03	1,559.39	0.00	0.00	0.00	
4,618.46	27.15	357.54	4,220.00	1,756.32	-75.39	1,566.90	0.00	0.00	0.00	
Larimer ("Parkman") sandstone										
4,700.00	27.15	357.54	4,292.56	1,793.49	-76.98	1,600.06	0.00	0.00	0.00	
4,775.79	27.15	357.54	4,360.00	1,828.04	-78.47	1,630.88	0.00	0.00	0.00	
Pierre Formation										
4,800.00	27.15	357.54	4,381.55	1,839.07	-78.94	1,640.73	0.00	0.00	0.00	
4,900.00	27.15	357.54	4,470.53	1,884.66	-80.90	1,681.40	0.00	0.00	0.00	
5,000.00	27.15	357.54	4,559.51	1,930.25	-82.85	1,722.07	0.00	0.00	0.00	
5,100.00	27.15	357.54	4,648.50	1,975.83	-84.81	1,762.74	0.00	0.00	0.00	
5,200.00	27.15	357.54	4,737.48	2,021.42	-86.77	1,803.41	0.00	0.00	0.00	
5,300.00	27.15	357.54	4,826.46	2,067.00	-88.72	1,844.08	0.00	0.00	0.00	
5,400.00	27.15	357.54	4,915.45	2,112.59	-90.68	1,884.75	0.00	0.00	0.00	
5,500.00	27.15	357.54	5,004.43	2,158.18	-92.64	1,925.42	0.00	0.00	0.00	
5,600.00	27.15	357.54	5,093.42	2,203.76	-94.59	1,966.09	0.00	0.00	0.00	
5,700.00	27.15	357.54	5,182.40	2,249.35	-96.55	2,006.76	0.00	0.00	0.00	
5,800.00	27.15	357.54	5,271.38	2,294.93	-98.51	2,047.43	0.00	0.00	0.00	
5,900.00	27.15	357.54	5,360.37	2,340.52	-100.46	2,088.10	0.00	0.00	0.00	
5,967.02	27.15	357.54	5,420.00	2,371.07	-101.77	2,115.35	0.00	0.00	0.00	
Terry ("Sussex") sandstone										
6,000.00	27.15	357.54	5,449.35	2,386.10	-102.42	2,128.77	0.00	0.00	0.00	
6,100.00	27.15	357.54	5,538.33	2,431.69	-104.38	2,169.44	0.00	0.00	0.00	
6,191.78	27.15	357.54	5,620.00	2,473.53	-106.17	2,206.76	0.00	0.00	0.00	
Pierre Formation										
6,200.00	27.15	357.54	5,627.32	2,477.28	-106.33	2,210.10	0.00	0.00	0.00	
6,300.00	27.15	357.54	5,716.30	2,522.86	-108.29	2,250.77	0.00	0.00	0.00	
6,400.00	27.15	357.54	5,805.29	2,568.45	-110.25	2,291.44	0.00	0.00	0.00	
6,500.00	27.15	357.54	5,894.27	2,614.03	-112.20	2,332.11	0.00	0.00	0.00	
6,600.00	27.15	357.54	5,983.25	2,659.62	-114.16	2,372.78	0.00	0.00	0.00	
6,700.00	27.15	357.54	6,072.24	2,705.21	-116.12	2,413.45	0.00	0.00	0.00	
6,800.00	27.15	357.54	6,161.22	2,750.79	-118.07	2,454.12	0.00	0.00	0.00	
6,900.00	27.15	357.54	6,250.20	2,796.38	-120.03	2,494.79	0.00	0.00	0.00	
6,978.44	27.15	357.54	6,320.00	2,832.13	-121.57	2,526.69	0.00	0.00	0.00	
Hygiene ("Shannon") sandstone										
7,000.00	27.15	357.54	6,339.19	2,841.96	-121.99	2,535.46	0.00	0.00	0.00	
7,100.00	27.15	357.54	6,428.17	2,887.55	-123.94	2,576.13	0.00	0.00	0.00	
7,200.00	27.15	357.54	6,517.15	2,933.13	-125.90	2,616.80	0.00	0.00	0.00	
7,203.20	27.15	357.54	6,520.00	2,934.59	-125.96	2,618.10	0.00	0.00	0.00	
Pierre Formation										
7,300.00	27.15	357.54	6,606.14	2,978.72	-127.86	2,657.47	0.00	0.00	0.00	
7,400.00	27.15	357.54	6,695.12	3,024.31	-129.81	2,698.14	0.00	0.00	0.00	
7,500.00	27.15	357.54	6,784.11	3,069.89	-131.77	2,738.81	0.00	0.00	0.00	
7,600.00	27.15	357.54	6,873.09	3,115.48	-133.73	2,779.48	0.00	0.00	0.00	
7,700.00	27.15	357.54	6,962.07	3,161.06	-135.68	2,820.15	0.00	0.00	0.00	
7,800.00	27.15	357.54	7,051.06	3,206.65	-137.64	2,860.82	0.00	0.00	0.00	

Civitas Resources

Planning Report

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Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KBE 25' @ 5825.00usft
Project:	ARAPAHOE COUNTY	MD Reference:	KBE 25' @ 5825.00usft
Site:	SEC 26-T4S-R65W	North Reference:	True
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Wellbore:	OWB		
Design:	PROPOSAL 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
7,900.00	27.15	357.54	7,140.04	3,252.24	-139.60	2,901.49	0.00	0.00	0.00
8,000.00	27.15	357.54	7,229.02	3,297.82	-141.55	2,942.16	0.00	0.00	0.00
8,100.00	27.15	357.54	7,318.01	3,343.41	-143.51	2,982.82	0.00	0.00	0.00
8,200.00	27.15	357.54	7,406.99	3,388.99	-145.47	3,023.49	0.00	0.00	0.00
8,300.00	27.15	357.54	7,495.98	3,434.58	-147.42	3,064.16	0.00	0.00	0.00
8,400.00	27.15	357.54	7,584.96	3,480.16	-149.38	3,104.83	0.00	0.00	0.00
8,500.00	27.15	357.54	7,673.94	3,525.75	-151.34	3,145.50	0.00	0.00	0.00
8,516.14	27.15	357.54	7,688.31	3,533.11	-151.65	3,152.07	0.00	0.00	0.00
Start DLS 10.00 TFO 2.77									
8,550.00	30.53	357.86	7,717.96	3,549.42	-152.31	3,166.64	10.00	9.99	0.95
8,600.00	35.53	358.24	7,759.87	3,576.65	-153.23	3,191.04	10.00	9.99	0.75
8,600.16	35.53	358.24	7,760.00	3,576.75	-153.23	3,191.12	0.00	0.00	0.00
Sharon Springs Member									
8,650.00	40.52	358.53	7,799.24	3,607.43	-154.09	3,218.69	10.03	10.03	0.59
8,700.00	45.52	358.77	7,835.79	3,641.52	-154.89	3,249.38	10.00	9.99	0.48
8,735.71	49.09	358.91	7,860.00	3,667.76	-155.42	3,273.03	10.00	10.00	0.41
Niobrara Formation									
8,750.00	50.52	358.97	7,869.22	3,678.67	-155.62	3,282.88	10.00	10.00	0.38
8,800.00	55.52	359.14	7,899.29	3,718.59	-156.28	3,318.93	10.00	10.00	0.35
8,850.00	60.51	359.29	7,925.77	3,760.99	-156.86	3,357.27	10.00	10.00	0.31
8,900.00	65.51	359.43	7,948.45	3,805.52	-157.35	3,397.59	10.00	10.00	0.28
8,950.00	70.51	359.56	7,967.17	3,851.87	-157.76	3,439.59	10.00	10.00	0.26
9,000.00	75.51	359.68	7,981.77	3,899.67	-158.07	3,482.96	10.00	10.00	0.24
9,050.00	80.51	359.80	7,992.16	3,948.57	-158.29	3,527.36	10.00	10.00	0.23
9,100.00	85.51	359.91	7,998.24	3,998.18	-158.42	3,572.45	10.00	10.00	0.22
9,146.70	90.18	0.01	8,000.00	4,044.83	-158.45	3,614.89	10.00	10.00	0.22
Start 1632.13 hold at 9146.70 MD									
9,200.00	90.18	0.01	7,999.84	4,098.13	-158.44	3,663.40	0.00	0.00	0.00
9,300.00	90.18	0.01	7,999.53	4,198.13	-158.41	3,754.40	0.00	0.00	0.00
9,400.00	90.18	0.01	7,999.22	4,298.13	-158.39	3,845.41	0.00	0.00	0.00
9,500.00	90.18	0.01	7,998.92	4,398.13	-158.36	3,936.41	0.00	0.00	0.00
9,600.00	90.18	0.01	7,998.61	4,498.13	-158.34	4,027.42	0.00	0.00	0.00
9,700.00	90.18	0.01	7,998.31	4,598.13	-158.32	4,118.42	0.00	0.00	0.00
9,800.00	90.18	0.01	7,998.00	4,698.13	-158.29	4,209.43	0.00	0.00	0.00
9,900.00	90.18	0.01	7,997.69	4,798.13	-158.27	4,300.43	0.00	0.00	0.00
10,000.00	90.18	0.01	7,997.39	4,898.13	-158.25	4,391.44	0.00	0.00	0.00
10,100.00	90.18	0.01	7,997.08	4,998.13	-158.22	4,482.44	0.00	0.00	0.00
10,200.00	90.18	0.01	7,996.77	5,098.13	-158.20	4,573.44	0.00	0.00	0.00
10,300.00	90.18	0.01	7,996.47	5,198.13	-158.17	4,664.45	0.00	0.00	0.00
10,400.00	90.18	0.01	7,996.16	5,298.13	-158.15	4,755.45	0.00	0.00	0.00
10,500.00	90.18	0.01	7,995.85	5,398.12	-158.13	4,846.46	0.00	0.00	0.00
10,600.00	90.18	0.01	7,995.55	5,498.12	-158.10	4,937.46	0.00	0.00	0.00
10,700.00	90.18	0.01	7,995.24	5,598.12	-158.08	5,028.47	0.00	0.00	0.00
10,778.83	90.18	0.01	7,995.00	5,676.95	-158.06	5,100.21	0.00	0.00	0.00
Start DLS 10.00 TFO 89.67									
10,800.00	90.19	2.13	7,994.93	5,698.12	-157.66	5,119.63	10.00	0.06	10.00
10,850.00	90.21	7.13	7,994.76	5,747.94	-153.63	5,166.64	10.00	0.05	10.00
10,900.00	90.24	12.13	7,994.56	5,797.22	-145.27	5,214.95	10.00	0.05	10.00
10,950.00	90.26	17.13	7,994.34	5,845.58	-132.64	5,264.19	10.00	0.05	10.00
11,000.00	90.29	22.13	7,994.10	5,892.66	-115.85	5,313.99	10.00	0.04	10.00
11,050.00	90.31	27.13	7,993.84	5,938.10	-95.02	5,363.98	10.00	0.04	10.00
11,100.00	90.32	32.13	7,993.56	5,981.54	-70.31	5,413.76	10.00	0.03	10.00
11,150.00	90.34	37.13	7,993.27	6,022.67	-41.90	5,462.97	10.00	0.03	10.00

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well GRIMM MOTOCROSS 4-65 23 1B2BUH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KBE 25' @ 5825.00usft
Project:	ARAPAHOE COUNTY	MD Reference:	KBE 25' @ 5825.00usft
Site:	SEC 26-T4S-R65W	North Reference:	True
Well:	GRIMM MOTOCROSS 4-65 23 1B2BUH	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
11,200.00	90.35	42.13	7,992.97	6,061.17	-10.02	5,511.22	10.00	0.02	10.00
11,250.00	90.36	47.13	7,992.66	6,096.74	25.09	5,558.15	10.00	0.02	10.00
11,300.00	90.37	52.13	7,992.34	6,129.11	63.18	5,603.40	10.00	0.01	10.00
11,350.00	90.37	57.13	7,992.02	6,158.04	103.93	5,646.63	10.00	0.01	10.00
11,400.00	90.37	62.13	7,991.70	6,183.31	147.06	5,687.51	10.00	0.00	10.00
11,450.00	90.37	67.13	7,991.37	6,204.73	192.22	5,725.72	10.00	0.00	10.00
11,500.00	90.37	72.13	7,991.05	6,222.13	239.08	5,760.99	10.00	-0.01	10.00
11,550.00	90.36	77.13	7,990.73	6,235.37	287.28	5,793.03	10.00	-0.01	10.00
11,600.00	90.35	82.13	7,990.42	6,244.37	336.44	5,821.60	10.00	-0.02	10.00
11,650.00	90.34	87.13	7,990.12	6,249.04	386.21	5,846.50	10.00	-0.03	10.00
11,678.50	90.33	89.98	7,989.96	6,249.76	414.69	5,858.96	9.99	-0.03	9.99
Start 854.14 hold at 11678.50 MD									
11,700.00	90.33	89.98	7,989.83	6,249.81	436.19	5,867.92	0.00	0.00	0.00
11,800.00	90.33	89.98	7,989.26	6,249.85	536.19	5,909.43	0.00	0.00	0.00
11,900.00	90.33	89.98	7,988.68	6,249.89	636.19	5,950.94	0.00	0.00	0.00
12,000.00	90.33	89.98	7,988.11	6,249.93	736.19	5,992.44	0.00	0.00	0.00
12,100.00	90.33	89.98	7,987.53	6,249.97	836.19	6,033.95	0.00	0.00	0.00
12,200.00	90.33	89.98	7,986.96	6,250.01	936.19	6,075.46	0.00	0.00	0.00
12,299.00	90.33	89.98	7,986.39	6,250.04	1,035.18	6,116.55	0.00	0.00	0.00
12299' MD									
12,300.00	90.33	89.98	7,986.38	6,250.05	1,036.18	6,116.96	0.00	0.00	0.00
12,400.00	90.33	89.98	7,985.81	6,250.08	1,136.18	6,158.47	0.00	0.00	0.00
12,500.00	90.33	89.98	7,985.23	6,250.12	1,236.18	6,199.97	0.00	0.00	0.00
12,532.64	90.33	89.98	7,985.05	6,250.14	1,268.82	6,213.52	0.00	0.00	0.00
Start DLS 10.00 TFO 89.82									
12,550.00	90.33	91.71	7,984.95	6,249.88	1,286.18	6,220.49	10.00	0.03	10.00
12,600.00	90.35	96.71	7,984.65	6,246.21	1,336.03	6,237.82	10.00	0.03	10.00
12,650.00	90.36	101.71	7,984.34	6,238.20	1,385.36	6,251.00	10.00	0.02	10.00
12,700.00	90.37	106.71	7,984.02	6,225.93	1,433.82	6,259.92	10.00	0.02	10.00
12,750.00	90.37	111.71	7,983.70	6,209.48	1,481.02	6,264.53	10.00	0.01	10.00
12,800.00	90.37	116.71	7,983.38	6,188.98	1,526.60	6,264.78	10.00	0.00	10.00
12,850.00	90.37	121.71	7,983.05	6,164.59	1,570.23	6,260.67	10.00	0.00	10.00
12,900.00	90.37	126.71	7,982.73	6,136.48	1,611.56	6,252.24	10.00	-0.01	10.00
12,950.00	90.36	131.71	7,982.41	6,104.88	1,650.29	6,239.54	10.00	-0.01	10.00
12,968.00	90.36	133.51	7,982.30	6,092.69	1,663.53	6,233.95	10.00	-0.02	10.00
12968' MD									
13,000.00	90.35	136.71	7,982.10	6,070.02	1,686.11	6,222.68	10.00	-0.02	10.00
13,050.00	90.34	141.71	7,981.79	6,032.18	1,718.76	6,201.79	10.00	-0.02	10.00
13,100.00	90.33	146.71	7,981.50	5,991.63	1,747.99	6,177.01	10.00	-0.03	10.00
13,150.00	90.31	151.72	7,981.22	5,948.69	1,773.57	6,148.55	10.00	-0.03	10.00
13,200.00	90.29	156.72	7,980.96	5,903.68	1,795.31	6,116.61	10.00	-0.04	10.00
13,250.00	90.27	161.72	7,980.72	5,856.95	1,813.05	6,081.44	10.00	-0.04	10.00
13,300.00	90.25	166.72	7,980.49	5,808.85	1,826.65	6,043.31	10.00	-0.05	10.00
13,350.00	90.22	171.72	7,980.29	5,759.75	1,836.00	6,002.51	10.00	-0.05	10.00
13,400.00	90.19	176.72	7,980.11	5,710.02	1,841.04	5,959.35	10.00	-0.05	10.00
13,433.09	90.17	180.03	7,980.00	5,676.95	1,841.98	5,929.65	10.01	-0.06	10.01
Start 1637.17 hold at 13433.09 MD									
13,500.00	90.17	180.03	7,979.80	5,610.04	1,841.91	5,868.73	0.00	0.00	0.00
13,600.00	90.17	180.03	7,979.49	5,510.04	1,841.86	5,777.72	0.00	0.00	0.00
13,700.00	90.17	180.03	7,979.19	5,410.04	1,841.81	5,686.70	0.00	0.00	0.00
13,800.00	90.17	180.03	7,978.88	5,310.04	1,841.76	5,595.69	0.00	0.00	0.00
13,900.00	90.17	180.03	7,978.57	5,210.04	1,841.71	5,504.67	0.00	0.00	0.00
14,000.00	90.17	180.03	7,978.27	5,110.05	1,841.67	5,413.66	0.00	0.00	0.00
14,100.00	90.17	180.03	7,977.96	5,010.05	1,841.62	5,322.65	0.00	0.00	0.00

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well GRIMM MOTOCROSS 4-65 23 1B2BUH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KBE 25' @ 5825.00usft
Project:	ARAPAHOE COUNTY	MD Reference:	KBE 25' @ 5825.00usft
Site:	SEC 26-T4S-R65W	North Reference:	True
Well:	GRIMM MOTOCROSS 4-65 23 1B2BUH	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
14,200.00	90.17	180.03	7,977.66	4,910.05	1,841.57	5,231.63	0.00	0.00	0.00	
14,300.00	90.17	180.03	7,977.35	4,810.05	1,841.52	5,140.62	0.00	0.00	0.00	
14,400.00	90.17	180.03	7,977.05	4,710.05	1,841.47	5,049.60	0.00	0.00	0.00	
14,500.00	90.17	180.03	7,976.74	4,610.05	1,841.42	4,958.59	0.00	0.00	0.00	
14,600.00	90.17	180.03	7,976.44	4,510.05	1,841.38	4,867.57	0.00	0.00	0.00	
14,700.00	90.17	180.03	7,976.13	4,410.05	1,841.33	4,776.56	0.00	0.00	0.00	
14,800.00	90.17	180.03	7,975.83	4,310.05	1,841.28	4,685.54	0.00	0.00	0.00	
14,900.00	90.17	180.03	7,975.52	4,210.05	1,841.23	4,594.53	0.00	0.00	0.00	
15,000.00	90.17	180.03	7,975.21	4,110.05	1,841.18	4,503.51	0.00	0.00	0.00	
15,070.26	90.17	180.03	7,975.00	4,039.79	1,841.15	4,439.57	0.00	0.00	0.00	
TD at 15070.26										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
PBHL-GM 4-65 23 1B2E	0.00	0.00	7,975.00	4,039.79	1,841.15	1,676,606.72	3,244,137.49	39.687885°N	104.632501°W	
- plan hits target center										
- Point										
CURVE EXIT-GM 4-65 23 1B2BUH	0.00	0.00	7,980.00	5,676.95	1,841.94	1,678,243.79	3,244,122.77	39.692379°N	104.632498°W	
- plan misses target center by 0.04usft at 13433.09usft MD (7980.00 TVD, 5676.96 N, 1841.98 E)										
- Point										
CURVE ENTRY-GM 4-65 23 1B2BUH	0.00	0.00	7,995.00	5,676.95	-158.06	1,678,224.83	3,242,122.89	39.692380°N	104.639605°W	
- plan hits target center										
- Point										
LP-GM 4-65 23 1B2BUH	0.00	0.00	8,000.00	4,044.83	-158.45	1,676,592.80	3,242,137.97	39.687899°N	104.639606°W	
- plan hits target center										
- Point										

Formations							
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)		
24.00	24.00	Denver					
983.96	970.00	Arapahoe					
1,595.43	1,530.00	Laramie-Fox Hills Formation					
2,213.52	2,080.00	Pierre Formation					
2,820.37	2,620.00	Upper Pierre aquifer					
3,494.65	3,220.00	Base of Upper Pierre aquifer					
4,618.46	4,220.00	Larimer ("Parkman") sandstone					
4,775.79	4,360.00	Pierre Formation					
5,967.02	5,420.00	Terry ("Sussex") sandstone					
6,191.78	5,620.00	Pierre Formation					
6,978.44	6,320.00	Hygiene ("Shannon") sandstone					
7,203.20	6,520.00	Pierre Formation					
8,600.16	7,760.00	Sharon Springs Member					
8,735.71	7,860.00	Niobrara Formation					

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well GRIMM MOTOCROSS 4-65 23 1B2BUH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KBE 25' @ 5825.00usft
Project:	ARAPAHOE COUNTY	MD Reference:	KBE 25' @ 5825.00usft
Site:	SEC 26-T4S-R65W	North Reference:	True
Well:	GRIMM MOTOCROSS 4-65 23 1B2BUH	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
100.00	100.00	0.00	0.00	Start Build 2.00
1,457.36	1,407.14	315.30	-13.53	Start 7058.78 hold at 1457.36 MD
8,516.14	7,688.31	3,533.11	-151.65	Start DLS 10.00 TFO 2.77
9,146.70	8,000.00	4,044.83	-158.45	Start 1632.13 hold at 9146.70 MD
10,778.83	7,995.00	5,676.95	-158.06	Start DLS 10.00 TFO 89.67
11,678.50	7,989.96	6,249.80	414.69	Start 854.14 hold at 11678.50 MD
12,299.00	7,986.39	6,250.04	1,035.18	12299' MD
12,532.64	7,985.05	6,250.14	1,268.82	Start DLS 10.00 TFO 89.82
12,968.00	7,982.30	6,092.69	1,663.53	12968' MD
13,433.09	7,980.00	5,676.95	1,841.94	Start 1637.17 hold at 13433.09 MD
15,070.26	7,975.00	4,039.79	1,841.15	TD at 15070.26