

CRESTONE PEAK RESOURCES

ADAMS COUNTY

SEC 34-T3S-R64W

TRANSPORT 3-64 34-35-36 4AH

OWB

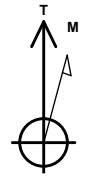
Plan: PROPOSAL 1

Standard Planning Report

06 October, 2025

PROJECT DETAILS: ADAMS COUNTY
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Colorado Northern Zone
 System Datum: Mean Sea Level

Project: ADAMS COUNTY
 Site: SEC 34-T3S-R64W
 Well: TRANSPORT 3-64 34-35-36 4AH
 Wellbore: OWB
 Design: PROPOSAL 1



Azimuths to True North
 Magnetic North: 7.30°
 Magnetic Field
 Strength: 51263.8nT
 Dip Angle: 66.02°
 Date: 11/19/2024
 Model: IGRF2020

WELL DETAILS: TRANSPORT 3-64 34-35-36 4AH

ANNOTATIONS

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1149934.01	3271805.12	39.740868°N	104.533453°W	

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	Start Build 2.00
2741.04	38.82	277.64	2595.89	84.09	-627.19	-625.18	632.80	Start 5067.45 hold at 2741.04 MD
7808.49	38.82	277.64	6544.00	506.24	-3775.73	-3763.64	3809.52	Start DLS 10.00 TFO 171.68
9093.74	90.00	91.14	7470.00	581.61	-3325.90	-3312.25	4522.79	Start 15607.45 hold at 9093.74 MD
24701.19	90.00	91.14	7470.00	271.14	12278.46	12281.45	20130.24	TD at 24701.19

SECTION DETAILS

DESIGN TARGET DETAILS

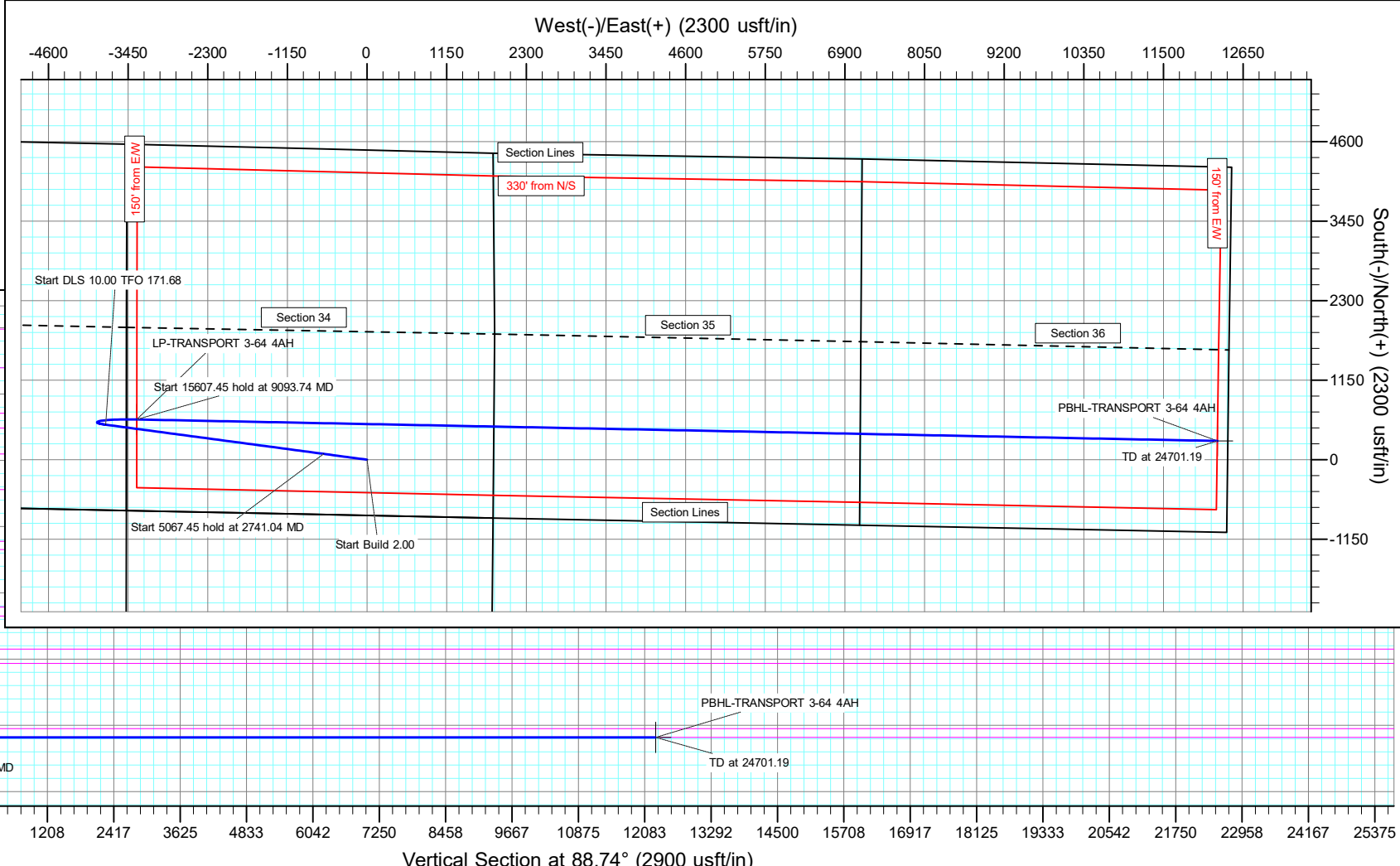
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	
3	2741.04	38.82	277.64	2595.89	84.09	-627.19	2.00	277.64	-625.18	
4	7808.49	38.82	277.64	6544.00	506.24	-3775.73	0.00	0.00	-3763.64	
5	9093.74	90.00	91.14	7470.00	581.61	-3325.90	10.00	171.68	-3312.25	LP-TRANSPORT 3-64 4AH
6	24701.19	90.00	91.14	7470.00	271.14	12278.46	0.00	0.00	12281.45	PBHL-TRANSPORT 3-64 4AH

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
LP-TRANSPORT 3-64 4AH - plan hits target center	7470.00	581.61	-3325.90	1150479.33	3268473.09	39.742464°N	104.545280°W	Point
PBHL-TRANSPORT 3-64 4AH - plan hits target center	7470.00	271.14	12278.46	1150338.96	3284079.84	39.741604°N	104.489791°W	Point

SHL:
807' FSL, 1826' FEL
Sec 34-T3S-R64W

TPZ:
1320' FSL, 150' FWL
Sec 34-T3S-R64W

BHL:
1320' FSL, 150' FEL
Sec 36-T3S-R64W



Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well TRANSPORT 3-64 34-35-36 4AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	kbe 25' @ 5597.00usft
Project:	ADAMS COUNTY	MD Reference:	kbe 25' @ 5597.00usft
Site:	SEC 34-T3S-R64W	North Reference:	True
Well:	TRANSPORT 3-64 34-35-36 4AH	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

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

Site SEC 34-T3S-R64W			
Site Position:		Northing:	1,149,109.57 usft
From:	Lat/Long	Easting:	3,273,632.07 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	39.738550°N
		Longitude:	104.526989°W
		Grid Convergence:	0.63 °

Well TRANSPORT 3-64 34-35-36 4AH			
Well Position	+N/-S	844.43 usft	Northing: 1,149,934.00 usft
	+E/-W	-1,817.80 usft	Easting: 3,271,805.12 usft
Position Uncertainty		0.00 usft	Wellhead Elevation:
			Latitude: 39.740868°N
			Longitude: 104.533453°W
			Ground Level: 5,572.00 usft

Wellbore OWB			
Magnetics	Model Name	Sample Date	Declination
	IGRF2020	11/19/2024	(°) 7.30
			Dip Angle
			(°) 66.02
			Field Strength
			(nT) 51,263.75727300

Design PROPOSAL 1			
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°) 88.74

Plan Survey Tool Program		Date 10/6/2025
Depth From	Depth To	Survey (Wellbore)
(usft)	(usft)	
1	0.00	24,701.19 PROPOSAL 1 (OWB)
		Tool Name
		MWD OWSG
		OWSG MWD - Standard
		Remarks

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	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,741.04	38.82	277.64	2,595.89	84.09	-627.19	2.00	2.00	0.00	277.64	
7,808.49	38.82	277.64	6,544.00	506.24	-3,775.73	0.00	0.00	0.00	0.00	
9,093.74	90.00	91.14	7,470.00	581.61	-3,325.90	10.00	3.98	13.50	171.68	LP-TRANSPORT 3-6-
24,701.19	90.00	91.14	7,470.00	271.14	12,278.46	0.00	0.00	0.00	0.00	PBHL-TRANSPORT :

Civitas Resources

Planning Report

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Project:	ADAMS COUNTY	MD Reference:	kbe 25' @ 5597.00usft
Site:	SEC 34-T3S-R64W	North Reference:	True
Well:	TRANSPORT 3-64 34-35-36 4AH	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
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
730.00	0.00	0.00	730.00	0.00	0.00	0.00	0.00	0.00	0.00
Arapahoe									
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
900.00	2.00	277.64	899.98	0.23	-1.73	-1.72	2.00	2.00	0.00
1,000.00	4.00	277.64	999.84	0.93	-6.92	-6.89	2.00	2.00	0.00
1,100.00	6.00	277.64	1,099.45	2.09	-15.55	-15.50	2.00	2.00	0.00
1,200.00	8.00	277.64	1,198.70	3.70	-27.63	-27.54	2.00	2.00	0.00
1,300.00	10.00	277.64	1,297.47	5.78	-43.14	-43.00	2.00	2.00	0.00
1,400.00	12.00	277.64	1,395.62	8.32	-62.05	-61.85	2.00	2.00	0.00
1,500.00	14.00	277.64	1,493.06	11.31	-84.34	-84.07	2.00	2.00	0.00
1,569.21	15.38	277.64	1,560.00	13.64	-101.74	-101.41	2.00	2.00	0.00
Laramie-Fox Hills Formation									
1,600.00	16.00	277.64	1,589.64	14.75	-109.99	-109.64	2.00	2.00	0.00
1,700.00	18.00	277.64	1,685.27	18.63	-138.97	-138.52	2.00	2.00	0.00
1,800.00	20.00	277.64	1,779.82	22.96	-171.24	-170.69	2.00	2.00	0.00
1,853.59	21.07	277.64	1,830.00	25.46	-189.87	-189.26	2.00	2.00	0.00
Pierre Formation									
1,900.00	22.00	277.64	1,873.17	27.72	-206.75	-206.09	2.00	2.00	0.00
2,000.00	24.00	277.64	1,965.21	32.91	-245.48	-244.69	2.00	2.00	0.00
2,100.00	26.00	277.64	2,055.84	38.53	-287.36	-286.44	2.00	2.00	0.00
2,200.00	28.00	277.64	2,144.94	44.56	-332.36	-331.29	2.00	2.00	0.00
2,300.00	30.00	277.64	2,232.39	51.00	-380.41	-379.19	2.00	2.00	0.00
2,378.70	31.57	277.64	2,300.00	56.36	-420.33	-418.98	2.00	2.00	0.00
Upper Pierre aquifer									
2,400.00	32.00	277.64	2,318.11	57.85	-431.45	-430.07	2.00	2.00	0.00
2,500.00	34.00	277.64	2,401.97	65.08	-485.43	-483.87	2.00	2.00	0.00
2,600.00	36.00	277.64	2,483.88	72.71	-542.27	-540.54	2.00	2.00	0.00
2,700.00	38.00	277.64	2,563.74	80.70	-601.92	-599.99	2.00	2.00	0.00
2,741.04	38.82	277.64	2,595.89	84.09	-627.19	-625.18	2.00	2.00	0.00
Start 5067.45 hold at 2741.04 MD									
2,800.00	38.82	277.64	2,641.83	89.00	-663.82	-661.70	0.00	0.00	0.00
2,900.00	38.82	277.64	2,719.74	97.33	-725.96	-723.63	0.00	0.00	0.00
3,000.00	38.82	277.64	2,797.66	105.67	-788.09	-785.57	0.00	0.00	0.00
3,100.00	38.82	277.64	2,875.57	114.00	-850.22	-847.50	0.00	0.00	0.00
3,195.54	38.82	277.64	2,950.00	121.95	-909.58	-906.67	0.00	0.00	0.00
Base of Upper Pierre aquifer									
3,200.00	38.82	277.64	2,953.48	122.33	-912.36	-909.43	0.00	0.00	0.00
3,300.00	38.82	277.64	3,031.39	130.66	-974.49	-971.37	0.00	0.00	0.00
3,400.00	38.82	277.64	3,109.30	138.99	-1,036.62	-1,033.30	0.00	0.00	0.00
3,500.00	38.82	277.64	3,187.21	147.32	-1,098.75	-1,095.23	0.00	0.00	0.00
3,600.00	38.82	277.64	3,265.12	155.65	-1,160.89	-1,157.17	0.00	0.00	0.00
3,700.00	38.82	277.64	3,343.03	163.98	-1,223.02	-1,219.10	0.00	0.00	0.00

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well TRANSPORT 3-64 34-35-36 4AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	kbe 25' @ 5597.00usft
Project:	ADAMS COUNTY	MD Reference:	kbe 25' @ 5597.00usft
Site:	SEC 34-T3S-R64W	North Reference:	True
Well:	TRANSPORT 3-64 34-35-36 4AH	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	38.82	277.64	3,420.94	172.31	-1,285.15	-1,281.03	0.00	0.00	0.00	
3,900.00	38.82	277.64	3,498.86	180.64	-1,347.28	-1,342.97	0.00	0.00	0.00	
4,000.00	38.82	277.64	3,576.77	188.97	-1,409.42	-1,404.90	0.00	0.00	0.00	
4,100.00	38.82	277.64	3,654.68	197.30	-1,471.55	-1,466.83	0.00	0.00	0.00	
4,200.00	38.82	277.64	3,732.59	205.63	-1,533.68	-1,528.77	0.00	0.00	0.00	
4,300.00	38.82	277.64	3,810.50	213.96	-1,595.81	-1,590.70	0.00	0.00	0.00	
4,400.00	38.82	277.64	3,888.41	222.29	-1,657.95	-1,652.64	0.00	0.00	0.00	
4,404.61	38.82	277.64	3,892.00	222.68	-1,660.81	-1,655.49	0.00	0.00	0.00	
Larimer ("Parkman") sandstone										
4,500.00	38.82	277.64	3,966.32	230.62	-1,720.08	-1,714.57	0.00	0.00	0.00	
4,600.00	38.82	277.64	4,044.23	238.95	-1,782.21	-1,776.50	0.00	0.00	0.00	
4,600.98	38.82	277.64	4,045.00	239.04	-1,782.82	-1,777.11	0.00	0.00	0.00	
Pierre Formation										
4,700.00	38.82	277.64	4,122.14	247.28	-1,844.35	-1,838.44	0.00	0.00	0.00	
4,800.00	38.82	277.64	4,200.06	255.62	-1,906.48	-1,900.37	0.00	0.00	0.00	
4,900.00	38.82	277.64	4,277.97	263.95	-1,968.61	-1,962.30	0.00	0.00	0.00	
5,000.00	38.82	277.64	4,355.88	272.28	-2,030.74	-2,024.24	0.00	0.00	0.00	
5,100.00	38.82	277.64	4,433.79	280.61	-2,092.88	-2,086.17	0.00	0.00	0.00	
5,200.00	38.82	277.64	4,511.70	288.94	-2,155.01	-2,148.10	0.00	0.00	0.00	
5,300.00	38.82	277.64	4,589.61	297.27	-2,217.14	-2,210.04	0.00	0.00	0.00	
5,400.00	38.82	277.64	4,667.52	305.60	-2,279.27	-2,271.97	0.00	0.00	0.00	
5,500.00	38.82	277.64	4,745.43	313.93	-2,341.41	-2,333.91	0.00	0.00	0.00	
5,600.00	38.82	277.64	4,823.34	322.26	-2,403.54	-2,395.84	0.00	0.00	0.00	
5,700.00	38.82	277.64	4,901.25	330.59	-2,465.67	-2,457.77	0.00	0.00	0.00	
5,800.00	38.82	277.64	4,979.17	338.92	-2,527.80	-2,519.71	0.00	0.00	0.00	
5,900.00	38.82	277.64	5,057.08	347.25	-2,589.94	-2,581.64	0.00	0.00	0.00	
5,942.26	38.82	277.64	5,090.00	350.77	-2,616.19	-2,607.81	0.00	0.00	0.00	
Terry ("Sussex") sandstone										
6,000.00	38.82	277.64	5,134.99	355.58	-2,652.07	-2,643.57	0.00	0.00	0.00	
6,100.00	38.82	277.64	5,212.90	363.91	-2,714.20	-2,705.51	0.00	0.00	0.00	
6,154.04	38.82	277.64	5,255.00	368.41	-2,747.78	-2,738.98	0.00	0.00	0.00	
Pierre Formation										
6,200.00	38.82	277.64	5,290.81	372.24	-2,776.34	-2,767.44	0.00	0.00	0.00	
6,300.00	38.82	277.64	5,368.72	380.57	-2,838.47	-2,829.37	0.00	0.00	0.00	
6,400.00	38.82	277.64	5,446.63	388.90	-2,900.60	-2,891.31	0.00	0.00	0.00	
6,500.00	38.82	277.64	5,524.54	397.24	-2,962.73	-2,953.24	0.00	0.00	0.00	
6,600.00	38.82	277.64	5,602.45	405.57	-3,024.87	-3,015.18	0.00	0.00	0.00	
6,700.00	38.82	277.64	5,680.37	413.90	-3,087.00	-3,077.11	0.00	0.00	0.00	
6,800.00	38.82	277.64	5,758.28	422.23	-3,149.13	-3,139.04	0.00	0.00	0.00	
6,900.00	38.82	277.64	5,836.19	430.56	-3,211.26	-3,200.98	0.00	0.00	0.00	
6,930.56	38.82	277.64	5,860.00	433.10	-3,230.25	-3,219.91	0.00	0.00	0.00	
Hygiene ("Shannon") sandstone										
7,000.00	38.82	277.64	5,914.10	438.89	-3,273.40	-3,262.91	0.00	0.00	0.00	
7,100.00	38.82	277.64	5,992.01	447.22	-3,335.53	-3,324.84	0.00	0.00	0.00	
7,200.00	38.82	277.64	6,069.92	455.55	-3,397.66	-3,386.78	0.00	0.00	0.00	
7,265.56	38.82	277.64	6,121.00	461.01	-3,438.40	-3,427.38	0.00	0.00	0.00	
Pierre Formation										
7,300.00	38.82	277.64	6,147.83	463.88	-3,459.79	-3,448.71	0.00	0.00	0.00	
7,400.00	38.82	277.64	6,225.74	472.21	-3,521.93	-3,510.64	0.00	0.00	0.00	
7,500.00	38.82	277.64	6,303.65	480.54	-3,584.06	-3,572.58	0.00	0.00	0.00	
7,600.00	38.82	277.64	6,381.56	488.87	-3,646.19	-3,634.51	0.00	0.00	0.00	
7,700.00	38.82	277.64	6,459.48	497.20	-3,708.33	-3,696.45	0.00	0.00	0.00	
7,808.49	38.82	277.64	6,544.00	506.24	-3,775.73	-3,763.64	0.00	0.00	0.00	

Civitas Resources

Planning Report

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Project:	ADAMS COUNTY	MD Reference:	kbe 25' @ 5597.00usft
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Well:	TRANSPORT 3-64 34-35-36 4AH	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)
Start DLS 10.00 TFO 171.68									
7,850.00	34.72	278.69	6,577.25	509.76	-3,800.32	-3,788.15	10.00	-9.88	2.54
7,900.00	29.79	280.29	6,619.52	514.13	-3,826.64	-3,814.35	10.00	-9.85	3.20
7,950.00	24.89	282.46	6,663.92	518.62	-3,849.15	-3,836.76	10.00	-9.80	4.33
8,000.00	20.03	285.60	6,710.12	523.20	-3,867.68	-3,855.19	10.00	-9.71	6.28
8,050.00	15.27	290.62	6,757.75	527.82	-3,882.10	-3,869.50	10.00	-9.53	10.05
8,100.00	10.71	299.92	6,806.46	532.46	-3,892.30	-3,879.59	10.00	-9.12	18.59
8,150.00	6.79	320.99	6,855.88	537.08	-3,898.19	-3,885.38	10.00	-7.83	42.14
8,200.00	5.24	8.01	6,905.64	541.64	-3,899.73	-3,886.83	10.00	-3.11	94.05
8,250.00	7.66	48.51	6,955.34	546.11	-3,896.92	-3,883.91	10.00	4.83	81.01
8,300.00	11.82	65.35	7,004.62	550.45	-3,889.76	-3,876.67	10.00	8.32	33.67
8,350.00	16.45	73.18	7,053.10	554.64	-3,878.33	-3,865.14	10.00	9.26	15.66
8,400.00	21.24	77.60	7,100.40	558.64	-3,862.70	-3,849.42	10.00	9.59	8.83
8,450.00	26.11	80.44	7,146.18	562.41	-3,842.98	-3,829.63	10.00	9.74	5.68
8,500.00	31.02	82.43	7,190.08	565.94	-3,819.35	-3,805.92	10.00	9.82	3.99
8,550.00	35.95	83.93	7,231.77	569.19	-3,791.96	-3,778.47	10.00	9.86	2.99
8,600.00	40.90	85.11	7,270.93	572.14	-3,761.04	-3,747.49	10.00	9.89	2.36
8,650.00	45.86	86.07	7,307.26	574.77	-3,726.81	-3,713.21	10.00	9.91	1.93
8,653.95	46.25	86.14	7,310.00	574.96	-3,723.97	-3,710.37	10.00	9.92	1.75
Sharon Springs Member									
8,700.00	50.82	86.88	7,340.49	577.05	-3,689.54	-3,675.90	10.00	9.93	1.62
8,750.00	55.79	87.59	7,370.36	578.97	-3,649.51	-3,635.84	10.00	9.94	1.41
8,800.00	60.76	88.22	7,396.64	580.52	-3,607.02	-3,593.33	10.00	9.94	1.25
8,850.00	65.73	88.79	7,419.14	581.68	-3,562.40	-3,548.69	10.00	9.95	1.14
8,900.00	70.71	89.31	7,437.69	582.45	-3,515.99	-3,502.28	10.00	9.95	1.05
8,950.00	75.69	89.81	7,452.14	582.81	-3,468.14	-3,454.43	10.00	9.96	0.99
9,000.00	80.66	90.28	7,462.38	582.77	-3,419.22	-3,405.52	10.00	9.96	0.95
9,050.00	85.64	90.74	7,468.34	582.33	-3,369.59	-3,355.92	10.00	9.96	0.92
9,093.74	90.00	91.14	7,470.00	581.61	-3,325.90	-3,312.25	10.00	9.96	0.91
Start 15607.45 hold at 9093.74 MD - Niobrara Formation									
9,100.00	90.00	91.14	7,470.00	581.48	-3,319.64	-3,306.00	0.00	0.00	0.00
9,200.00	90.00	91.14	7,470.00	579.50	-3,219.66	-3,206.09	0.00	0.00	0.00
9,300.00	90.00	91.14	7,470.00	577.51	-3,119.68	-3,106.17	0.00	0.00	0.00
9,400.00	90.00	91.14	7,470.00	575.52	-3,019.70	-3,006.26	0.00	0.00	0.00
9,500.00	90.00	91.14	7,470.00	573.53	-2,919.72	-2,906.35	0.00	0.00	0.00
9,600.00	90.00	91.14	7,470.00	571.54	-2,819.74	-2,806.44	0.00	0.00	0.00
9,700.00	90.00	91.14	7,470.00	569.55	-2,719.76	-2,706.53	0.00	0.00	0.00
9,800.00	90.00	91.14	7,470.00	567.56	-2,619.78	-2,606.61	0.00	0.00	0.00
9,900.00	90.00	91.14	7,470.00	565.57	-2,519.80	-2,506.70	0.00	0.00	0.00
10,000.00	90.00	91.14	7,470.00	563.58	-2,419.82	-2,406.79	0.00	0.00	0.00
10,100.00	90.00	91.14	7,470.00	561.59	-2,319.84	-2,306.88	0.00	0.00	0.00
10,200.00	90.00	91.14	7,470.00	559.60	-2,219.86	-2,206.97	0.00	0.00	0.00
10,300.00	90.00	91.14	7,470.00	557.61	-2,119.88	-2,107.05	0.00	0.00	0.00
10,400.00	90.00	91.14	7,470.00	555.62	-2,019.90	-2,007.14	0.00	0.00	0.00
10,500.00	90.00	91.14	7,470.00	553.64	-1,919.92	-1,907.23	0.00	0.00	0.00
10,600.00	90.00	91.14	7,470.00	551.65	-1,819.94	-1,807.32	0.00	0.00	0.00
10,700.00	90.00	91.14	7,470.00	549.66	-1,719.96	-1,707.41	0.00	0.00	0.00
10,800.00	90.00	91.14	7,470.00	547.67	-1,619.98	-1,607.49	0.00	0.00	0.00
10,900.00	90.00	91.14	7,470.00	545.68	-1,520.00	-1,507.58	0.00	0.00	0.00
11,000.00	90.00	91.14	7,470.00	543.69	-1,420.02	-1,407.67	0.00	0.00	0.00
11,100.00	90.00	91.14	7,470.00	541.70	-1,320.04	-1,307.76	0.00	0.00	0.00
11,200.00	90.00	91.14	7,470.00	539.71	-1,220.06	-1,207.85	0.00	0.00	0.00
11,300.00	90.00	91.14	7,470.00	537.72	-1,120.08	-1,107.93	0.00	0.00	0.00

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well TRANSPORT 3-64 34-35-36 4AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	kbe 25' @ 5597.00usft
Project:	ADAMS COUNTY	MD Reference:	kbe 25' @ 5597.00usft
Site:	SEC 34-T3S-R64W	North Reference:	True
Well:	TRANSPORT 3-64 34-35-36 4AH	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)
11,400.00	90.00	91.14	7,470.00	535.73	-1,020.10	-1,008.02	0.00	0.00	0.00
11,500.00	90.00	91.14	7,470.00	533.74	-920.12	-908.11	0.00	0.00	0.00
11,600.00	90.00	91.14	7,470.00	531.75	-820.14	-808.20	0.00	0.00	0.00
11,700.00	90.00	91.14	7,470.00	529.76	-720.16	-708.29	0.00	0.00	0.00
11,800.00	90.00	91.14	7,470.00	527.78	-620.18	-608.38	0.00	0.00	0.00
11,900.00	90.00	91.14	7,470.00	525.79	-520.20	-508.46	0.00	0.00	0.00
12,000.00	90.00	91.14	7,470.00	523.80	-420.22	-408.55	0.00	0.00	0.00
12,100.00	90.00	91.14	7,470.00	521.81	-320.24	-308.64	0.00	0.00	0.00
12,200.00	90.00	91.14	7,470.00	519.82	-220.26	-208.73	0.00	0.00	0.00
12,300.00	90.00	91.14	7,470.00	517.83	-120.28	-108.82	0.00	0.00	0.00
12,400.00	90.00	91.14	7,470.00	515.84	-20.30	-8.90	0.00	0.00	0.00
12,500.00	90.00	91.14	7,470.00	513.85	79.68	91.01	0.00	0.00	0.00
12,600.00	90.00	91.14	7,470.00	511.86	179.66	190.92	0.00	0.00	0.00
12,700.00	90.00	91.14	7,470.00	509.87	279.64	290.83	0.00	0.00	0.00
12,800.00	90.00	91.14	7,470.00	507.88	379.62	390.74	0.00	0.00	0.00
12,900.00	90.00	91.14	7,470.00	505.89	479.61	490.66	0.00	0.00	0.00
13,000.00	90.00	91.14	7,470.00	503.90	579.59	590.57	0.00	0.00	0.00
13,100.00	90.00	91.14	7,470.00	501.91	679.57	690.48	0.00	0.00	0.00
13,200.00	90.00	91.14	7,470.00	499.93	779.55	790.39	0.00	0.00	0.00
13,300.00	90.00	91.14	7,470.00	497.94	879.53	890.30	0.00	0.00	0.00
13,400.00	90.00	91.14	7,470.00	495.95	979.51	990.22	0.00	0.00	0.00
13,500.00	90.00	91.14	7,470.00	493.96	1,079.49	1,090.13	0.00	0.00	0.00
13,600.00	90.00	91.14	7,470.00	491.97	1,179.47	1,190.04	0.00	0.00	0.00
13,700.00	90.00	91.14	7,470.00	489.98	1,279.45	1,289.95	0.00	0.00	0.00
13,800.00	90.00	91.14	7,470.00	487.99	1,379.43	1,389.86	0.00	0.00	0.00
13,900.00	90.00	91.14	7,470.00	486.00	1,479.41	1,489.78	0.00	0.00	0.00
14,000.00	90.00	91.14	7,470.00	484.01	1,579.39	1,589.69	0.00	0.00	0.00
14,100.00	90.00	91.14	7,470.00	482.02	1,679.37	1,689.60	0.00	0.00	0.00
14,200.00	90.00	91.14	7,470.00	480.03	1,779.35	1,789.51	0.00	0.00	0.00
14,300.00	90.00	91.14	7,470.00	478.04	1,879.33	1,889.42	0.00	0.00	0.00
14,400.00	90.00	91.14	7,470.00	476.05	1,979.31	1,989.34	0.00	0.00	0.00
14,500.00	90.00	91.14	7,470.00	474.07	2,079.29	2,089.25	0.00	0.00	0.00
14,600.00	90.00	91.14	7,470.00	472.08	2,179.27	2,189.16	0.00	0.00	0.00
14,700.00	90.00	91.14	7,470.00	470.09	2,279.25	2,289.07	0.00	0.00	0.00
14,800.00	90.00	91.14	7,470.00	468.10	2,379.23	2,388.98	0.00	0.00	0.00
14,900.00	90.00	91.14	7,470.00	466.11	2,479.21	2,488.89	0.00	0.00	0.00
15,000.00	90.00	91.14	7,470.00	464.12	2,579.19	2,588.81	0.00	0.00	0.00
15,100.00	90.00	91.14	7,470.00	462.13	2,679.17	2,688.72	0.00	0.00	0.00
15,200.00	90.00	91.14	7,470.00	460.14	2,779.15	2,788.63	0.00	0.00	0.00
15,300.00	90.00	91.14	7,470.00	458.15	2,879.13	2,888.54	0.00	0.00	0.00
15,400.00	90.00	91.14	7,470.00	456.16	2,979.11	2,988.45	0.00	0.00	0.00
15,500.00	90.00	91.14	7,470.00	454.17	3,079.09	3,088.37	0.00	0.00	0.00
15,600.00	90.00	91.14	7,470.00	452.18	3,179.07	3,188.28	0.00	0.00	0.00
15,700.00	90.00	91.14	7,470.00	450.19	3,279.05	3,288.19	0.00	0.00	0.00
15,800.00	90.00	91.14	7,470.00	448.21	3,379.03	3,388.10	0.00	0.00	0.00
15,900.00	90.00	91.14	7,470.00	446.22	3,479.01	3,488.01	0.00	0.00	0.00
16,000.00	90.00	91.14	7,470.00	444.23	3,578.99	3,587.93	0.00	0.00	0.00
16,100.00	90.00	91.14	7,470.00	442.24	3,678.97	3,687.84	0.00	0.00	0.00
16,200.00	90.00	91.14	7,470.00	440.25	3,778.95	3,787.75	0.00	0.00	0.00
16,300.00	90.00	91.14	7,470.00	438.26	3,878.93	3,887.66	0.00	0.00	0.00
16,400.00	90.00	91.14	7,470.00	436.27	3,978.91	3,987.57	0.00	0.00	0.00
16,500.00	90.00	91.14	7,470.00	434.28	4,078.89	4,087.49	0.00	0.00	0.00
16,600.00	90.00	91.14	7,470.00	432.29	4,178.87	4,187.40	0.00	0.00	0.00
16,700.00	90.00	91.14	7,470.00	430.30	4,278.85	4,287.31	0.00	0.00	0.00

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well TRANSPORT 3-64 34-35-36 4AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	kbe 25' @ 5597.00usft
Project:	ADAMS COUNTY	MD Reference:	kbe 25' @ 5597.00usft
Site:	SEC 34-T3S-R64W	North Reference:	True
Well:	TRANSPORT 3-64 34-35-36 4AH	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)
16,800.00	90.00	91.14	7,470.00	428.31	4,378.83	4,387.22	0.00	0.00	0.00
16,900.00	90.00	91.14	7,470.00	426.32	4,478.81	4,487.13	0.00	0.00	0.00
17,000.00	90.00	91.14	7,470.00	424.33	4,578.79	4,587.05	0.00	0.00	0.00
17,100.00	90.00	91.14	7,470.00	422.34	4,678.77	4,686.96	0.00	0.00	0.00
17,200.00	90.00	91.14	7,470.00	420.36	4,778.75	4,786.87	0.00	0.00	0.00
17,300.00	90.00	91.14	7,470.00	418.37	4,878.73	4,886.78	0.00	0.00	0.00
17,400.00	90.00	91.14	7,470.00	416.38	4,978.71	4,986.69	0.00	0.00	0.00
17,500.00	90.00	91.14	7,470.00	414.39	5,078.70	5,086.61	0.00	0.00	0.00
17,600.00	90.00	91.14	7,470.00	412.40	5,178.68	5,186.52	0.00	0.00	0.00
17,700.00	90.00	91.14	7,470.00	410.41	5,278.66	5,286.43	0.00	0.00	0.00
17,800.00	90.00	91.14	7,470.00	408.42	5,378.64	5,386.34	0.00	0.00	0.00
17,900.00	90.00	91.14	7,470.00	406.43	5,478.62	5,486.25	0.00	0.00	0.00
18,000.00	90.00	91.14	7,470.00	404.44	5,578.60	5,586.16	0.00	0.00	0.00
18,100.00	90.00	91.14	7,470.00	402.45	5,678.58	5,686.08	0.00	0.00	0.00
18,200.00	90.00	91.14	7,470.00	400.46	5,778.56	5,785.99	0.00	0.00	0.00
18,300.00	90.00	91.14	7,470.00	398.47	5,878.54	5,885.90	0.00	0.00	0.00
18,400.00	90.00	91.14	7,470.00	396.48	5,978.52	5,985.81	0.00	0.00	0.00
18,500.00	90.00	91.14	7,470.00	394.50	6,078.50	6,085.72	0.00	0.00	0.00
18,600.00	90.00	91.14	7,470.00	392.51	6,178.48	6,185.64	0.00	0.00	0.00
18,700.00	90.00	91.14	7,470.00	390.52	6,278.46	6,285.55	0.00	0.00	0.00
18,800.00	90.00	91.14	7,470.00	388.53	6,378.44	6,385.46	0.00	0.00	0.00
18,900.00	90.00	91.14	7,470.00	386.54	6,478.42	6,485.37	0.00	0.00	0.00
19,000.00	90.00	91.14	7,470.00	384.55	6,578.40	6,585.28	0.00	0.00	0.00
19,100.00	90.00	91.14	7,470.00	382.56	6,678.38	6,685.20	0.00	0.00	0.00
19,200.00	90.00	91.14	7,470.00	380.57	6,778.36	6,785.11	0.00	0.00	0.00
19,300.00	90.00	91.14	7,470.00	378.58	6,878.34	6,885.02	0.00	0.00	0.00
19,400.00	90.00	91.14	7,470.00	376.59	6,978.32	6,984.93	0.00	0.00	0.00
19,500.00	90.00	91.14	7,470.00	374.60	7,078.30	7,084.84	0.00	0.00	0.00
19,600.00	90.00	91.14	7,470.00	372.61	7,178.28	7,184.76	0.00	0.00	0.00
19,700.00	90.00	91.14	7,470.00	370.62	7,278.26	7,284.67	0.00	0.00	0.00
19,800.00	90.00	91.14	7,470.00	368.64	7,378.24	7,384.58	0.00	0.00	0.00
19,900.00	90.00	91.14	7,470.00	366.65	7,478.22	7,484.49	0.00	0.00	0.00
20,000.00	90.00	91.14	7,470.00	364.66	7,578.20	7,584.40	0.00	0.00	0.00
20,100.00	90.00	91.14	7,470.00	362.67	7,678.18	7,684.32	0.00	0.00	0.00
20,200.00	90.00	91.14	7,470.00	360.68	7,778.16	7,784.23	0.00	0.00	0.00
20,300.00	90.00	91.14	7,470.00	358.69	7,878.14	7,884.14	0.00	0.00	0.00
20,400.00	90.00	91.14	7,470.00	356.70	7,978.12	7,984.05	0.00	0.00	0.00
20,500.00	90.00	91.14	7,470.00	354.71	8,078.10	8,083.96	0.00	0.00	0.00
20,600.00	90.00	91.14	7,470.00	352.72	8,178.08	8,183.88	0.00	0.00	0.00
20,700.00	90.00	91.14	7,470.00	350.73	8,278.06	8,283.79	0.00	0.00	0.00
20,800.00	90.00	91.14	7,470.00	348.74	8,378.04	8,383.70	0.00	0.00	0.00
20,900.00	90.00	91.14	7,470.00	346.75	8,478.02	8,483.61	0.00	0.00	0.00
21,000.00	90.00	91.14	7,470.00	344.76	8,578.00	8,583.52	0.00	0.00	0.00
21,100.00	90.00	91.14	7,470.00	342.77	8,677.98	8,683.43	0.00	0.00	0.00
21,200.00	90.00	91.14	7,470.00	340.79	8,777.96	8,783.35	0.00	0.00	0.00
21,300.00	90.00	91.14	7,470.00	338.80	8,877.94	8,883.26	0.00	0.00	0.00
21,400.00	90.00	91.14	7,470.00	336.81	8,977.92	8,983.17	0.00	0.00	0.00
21,500.00	90.00	91.14	7,470.00	334.82	9,077.90	9,083.08	0.00	0.00	0.00
21,600.00	90.00	91.14	7,470.00	332.83	9,177.88	9,182.99	0.00	0.00	0.00
21,700.00	90.00	91.14	7,470.00	330.84	9,277.86	9,282.91	0.00	0.00	0.00
21,800.00	90.00	91.14	7,470.00	328.85	9,377.84	9,382.82	0.00	0.00	0.00
21,900.00	90.00	91.14	7,470.00	326.86	9,477.82	9,482.73	0.00	0.00	0.00
22,000.00	90.00	91.14	7,470.00	324.87	9,577.80	9,582.64	0.00	0.00	0.00
22,100.00	90.00	91.14	7,470.00	322.88	9,677.78	9,682.55	0.00	0.00	0.00

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well TRANSPORT 3-64 34-35-36 4AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	kbe 25' @ 5597.00usft
Project:	ADAMS COUNTY	MD Reference:	kbe 25' @ 5597.00usft
Site:	SEC 34-T3S-R64W	North Reference:	True
Well:	TRANSPORT 3-64 34-35-36 4AH	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)
22,200.00	90.00	91.14	7,470.00	320.89	9,777.77	9,782.47	0.00	0.00	0.00
22,300.00	90.00	91.14	7,470.00	318.90	9,877.75	9,882.38	0.00	0.00	0.00
22,400.00	90.00	91.14	7,470.00	316.91	9,977.73	9,982.29	0.00	0.00	0.00
22,500.00	90.00	91.14	7,470.00	314.93	10,077.71	10,082.20	0.00	0.00	0.00
22,600.00	90.00	91.14	7,470.00	312.94	10,177.69	10,182.11	0.00	0.00	0.00
22,700.00	90.00	91.14	7,470.00	310.95	10,277.67	10,282.03	0.00	0.00	0.00
22,800.00	90.00	91.14	7,470.00	308.96	10,377.65	10,381.94	0.00	0.00	0.00
22,900.00	90.00	91.14	7,470.00	306.97	10,477.63	10,481.85	0.00	0.00	0.00
23,000.00	90.00	91.14	7,470.00	304.98	10,577.61	10,581.76	0.00	0.00	0.00
23,100.00	90.00	91.14	7,470.00	302.99	10,677.59	10,681.67	0.00	0.00	0.00
23,200.00	90.00	91.14	7,470.00	301.00	10,777.57	10,781.59	0.00	0.00	0.00
23,300.00	90.00	91.14	7,470.00	299.01	10,877.55	10,881.50	0.00	0.00	0.00
23,400.00	90.00	91.14	7,470.00	297.02	10,977.53	10,981.41	0.00	0.00	0.00
23,500.00	90.00	91.14	7,470.00	295.03	11,077.51	11,081.32	0.00	0.00	0.00
23,600.00	90.00	91.14	7,470.00	293.04	11,177.49	11,181.23	0.00	0.00	0.00
23,700.00	90.00	91.14	7,470.00	291.05	11,277.47	11,281.15	0.00	0.00	0.00
23,800.00	90.00	91.14	7,470.00	289.07	11,377.45	11,381.06	0.00	0.00	0.00
23,900.00	90.00	91.14	7,470.00	287.08	11,477.43	11,480.97	0.00	0.00	0.00
24,000.00	90.00	91.14	7,470.00	285.09	11,577.41	11,580.88	0.00	0.00	0.00
24,100.00	90.00	91.14	7,470.00	283.10	11,677.39	11,680.79	0.00	0.00	0.00
24,200.00	90.00	91.14	7,470.00	281.11	11,777.37	11,780.70	0.00	0.00	0.00
24,300.00	90.00	91.14	7,470.00	279.12	11,877.35	11,880.62	0.00	0.00	0.00
24,400.00	90.00	91.14	7,470.00	277.13	11,977.33	11,980.53	0.00	0.00	0.00
24,500.00	90.00	91.14	7,470.00	275.14	12,077.31	12,080.44	0.00	0.00	0.00
24,600.00	90.00	91.14	7,470.00	273.15	12,177.29	12,180.35	0.00	0.00	0.00
24,701.19	90.00	91.14	7,470.00	271.14	12,278.46	12,281.45	0.00	0.00	0.00
TD at 24701.19									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL-TRANSPORT 3-6 - hit/miss target - Shape - Point	0.00	0.00	7,470.00	271.14	12,278.46	1,150,338.96	3,284,079.85	39.741604°N	104.489791°W
LP-TRANSPORT 3-64 4 - plan hits target center - Point	0.00	0.00	7,470.00	581.61	-3,325.90	1,150,479.33	3,268,473.09	39.742464°N	104.545280°W

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well TRANSPORT 3-64 34-35-36 4AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	kbe 25' @ 5597.00usft
Project:	ADAMS COUNTY	MD Reference:	kbe 25' @ 5597.00usft
Site:	SEC 34-T3S-R64W	North Reference:	True
Well:	TRANSPORT 3-64 34-35-36 4AH	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
24.00	24.00	Denver				
730.00	730.00	Arapahoe				
1,569.21	1,560.00	Laramie-Fox Hills Formation				
1,853.59	1,830.00	Pierre Formation				
2,378.70	2,300.00	Upper Pierre aquifer				
3,195.54	2,950.00	Base of Upper Pierre aquifer				
4,404.61	3,892.00	Larimer ("Parkman") sandstone				
4,600.98	4,045.00	Pierre Formation				
5,942.26	5,090.00	Terry ("Sussex") sandstone				
6,154.04	5,255.00	Pierre Formation				
6,930.56	5,860.00	Hygiene ("Shannon") sandstone				
7,265.56	6,121.00	Pierre Formation				
8,653.95	7,310.00	Sharon Springs Member				
9,093.74	7,470.00	Niobrara Formation		0.00		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
800.00	800.00	0.00	0.00	Start Build 2.00	
2,741.04	2,595.89	84.09	-627.19	Start 5067.45 hold at 2741.04 MD	
7,808.49	6,544.00	506.24	-3,775.73	Start DLS 10.00 TFO 171.68	
9,093.74	7,470.00	581.61	-3,325.90	Start 15607.45 hold at 9093.74 MD	
24,701.19	7,470.00	271.14	12,278.46	TD at 24701.19	