

# **CRESTONE PEAK RESOURCES**

**ADAMS COUNTY**

**SEC 28-T3S-R65W**

**INVICTA 3-65 30-26 5H**

**OWB**

**Plan: PROPOSAL 1**

## **Standard Planning Report**

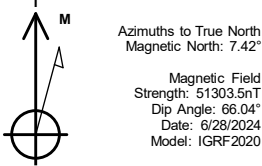
**02 July, 2024**

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 28-T3S-R65W  
Well: INVICTA 3-65 30-26 5H  
Wellbore: OWB  
Design: PROPOSAL 1



WELL DETAILS: INVICTA 3-65 30-26 5H

				5636.00					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot			
0.00	0.00	1158198.72	3233692.92	39.764616°N	104.668697°W				

SECTION DETAILS

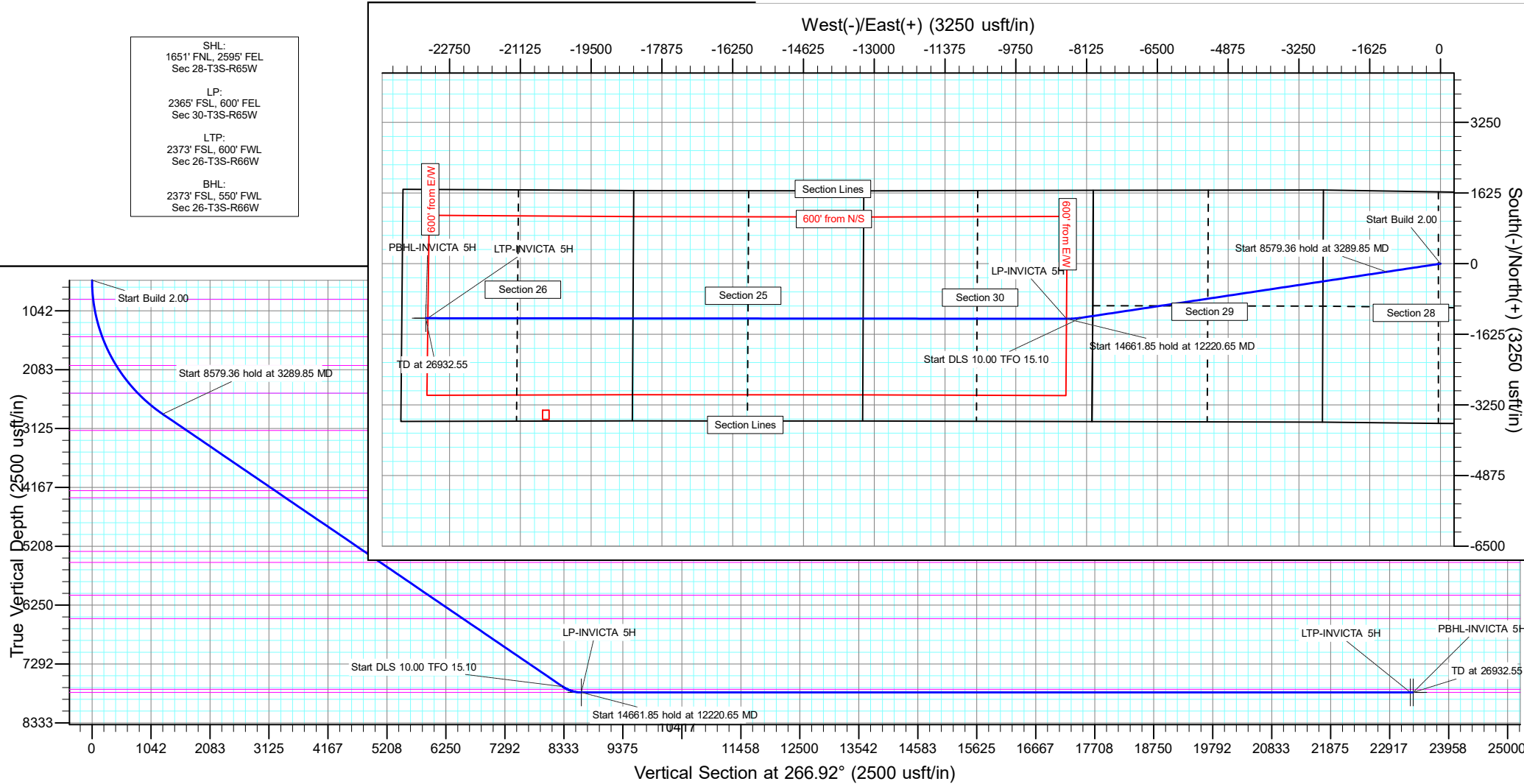
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	
3	3289.85	55.80	261.42	2869.32	-187.04	-1240.39	2.00	261.42	1248.65	
4	11869.20	55.80	261.42	7692.00	-1245.04	-8256.64	0.00	0.00	8311.63	
5	12220.65	90.00	270.05	7794.00	-1267.26	-8586.48	10.00	15.10	8642.19	LP-INVICTA 5H
6	26882.51	90.00	270.05	7794.00	-1254.25	-23248.33	0.00	0.00	23282.14	LTP-INVICTA 5H
7	26882.64	90.00	270.05	7794.00	-1254.25	-23248.46	2.00	90.00	23282.27	PBHL-INVICTA 5H
8	26932.55	90.00	270.05	7794.00	-1254.21	-23298.37	0.00	0.00	23332.11	PBHL-INVICTA 5H

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	Start Build 2.00
3289.85	55.80	261.42	2869.32	-187.04	-1240.39	1248.65	1254.41	Start 8579.36 hold at 3289.85 MD
11869.20	55.80	261.42	7692.00	-1245.04	-8256.64	8311.63	8349.99	Start DLS 10.00 TFO 15.10
12220.65	90.00	270.05	7794.00	-1267.26	-8586.48	8642.19	8680.87	Start 14661.85 hold at 12220.65 MD
26882.64	90.00	270.05	7794.00	-1254.25	-23248.46	23282.27	23342.86	Start 49.91 hold at 26882.64 MD
26932.55	90.00	270.05	7794.00	-1254.21	-23298.37	23332.11	23392.77	TD at 26932.55

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
LP-INVICTA 5H	7794.00	-1267.26	-8586.48	1156851.04	3225118.76	39.761133°N	104.699239°W	Point
- plan hits target center								
LTP-INVICTA 5H	7794.00	-1254.25	-23248.33	1156726.59	3210457.54	39.761143°N	104.751391°W	Point
- plan hits target center								
PBHL-INVICTA 5H	7794.00	-1254.21	-23298.37	1156726.17	3210407.50	39.761143°N	104.751569°W	Point
- plan hits target center								



## Civitas Resources

## Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well INVICTA 3-65 30-26 5H
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5661.00usft
Project:	ADAMS COUNTY	MD Reference:	KB 25' @ 5661.00usft
Site:	SEC 28-T3S-R65W	North Reference:	True
Well:	INVICTA 3-65 30-26 5H	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 28-T3S-R65W		
Site Position:		Northing:	1,154,535.24 usft
From:	Lat/Long	Easting:	3,236,332.63 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	39.754491°N
		Longitude:	104.659431°W
		Grid Convergence:	0.54 °

Well	INVICTA 3-65 30-26 5H		
Well Position	+N/-S	3,688.36 usft	Northing:
	+E/-W	-2,604.88 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	
		Latitude:	39.764616°N
		Longitude:	104.668697°W
		Ground Level:	5,636.00 usft

Wellbore	OWB		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2020	6/28/2024	7.42
			Dip Angle
			(°)
			66.04
			Field Strength
			(nT)
			51,303.47982724

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
			(°)
			266.92

Plan Survey Tool Program	Date	7/2/2024		
Depth From	Depth To			
(usft)	(usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	26,932.55 PROPOSAL 1 (OWB)	MWD OWSG	
			OWSG MWD - Standard	

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100ft)	(°/100ft)	(°/100ft)		
0.00	0.00	0.00	0.00	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	
3,289.85	55.80	261.42	2,869.32	-187.04	-1,240.39	2.00	2.00	0.00	261.42	
11,869.20	55.80	261.42	7,692.00	-1,245.04	-8,256.64	0.00	0.00	0.00	0.00	
12,220.65	90.00	270.05	7,794.00	-1,267.26	-8,586.48	10.00	9.73	2.45	15.10	LP-INVICTA 5H
26,882.51	90.00	270.05	7,794.00	-1,254.25	-23,248.33	0.00	0.00	0.00	0.00	LTP-INVICTA 5H
26,882.64	90.00	270.05	7,794.00	-1,254.25	-23,248.46	2.00	0.00	2.00	90.00	PBHL-INVICTA 5H
26,932.55	90.00	270.05	7,794.00	-1,254.21	-23,298.37	0.00	0.00	0.00	0.00	PBHL-INVICTA 5H

# Civitas Resources

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well INVICTA 3-65 30-26 5H
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5661.00usft
<b>Project:</b>	ADAMS COUNTY	<b>MD Reference:</b>	KB 25' @ 5661.00usft
<b>Site:</b>	SEC 28-T3S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	INVICTA 3-65 30-26 5H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	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
Start Build 2.00									
600.00	2.00	261.42	599.98	-0.26	-1.73	1.74	2.00	2.00	0.00
700.00	4.00	261.42	699.84	-1.04	-6.90	6.95	2.00	2.00	0.00
800.00	6.00	261.42	799.45	-2.34	-15.52	15.62	2.00	2.00	0.00
839.80	6.80	261.42	839.00	-3.00	-19.90	20.04	2.00	2.00	0.00
Arapahoe									
900.00	8.00	261.42	898.70	-4.16	-27.57	27.75	2.00	2.00	0.00
1,000.00	10.00	261.42	997.47	-6.49	-43.04	43.32	2.00	2.00	0.00
1,100.00	12.00	261.42	1,095.62	-9.33	-61.90	62.32	2.00	2.00	0.00
1,200.00	14.00	261.42	1,193.06	-12.69	-84.15	84.71	2.00	2.00	0.00
1,300.00	16.00	261.42	1,289.64	-16.55	-109.74	110.47	2.00	2.00	0.00
1,400.00	18.00	261.42	1,385.27	-20.91	-138.65	139.57	2.00	2.00	0.00
1,500.00	20.00	261.42	1,479.82	-25.76	-170.84	171.97	2.00	2.00	0.00
1,520.44	20.41	261.42	1,499.00	-26.81	-177.82	179.00	2.00	2.00	0.00
Laramie-Fox Hills Formation									
1,600.00	22.00	261.42	1,573.17	-31.10	-206.27	207.65	2.00	2.00	0.00
1,700.00	24.00	261.42	1,665.21	-36.93	-244.91	246.54	2.00	2.00	0.00
1,800.00	26.00	261.42	1,755.84	-43.23	-286.69	288.60	2.00	2.00	0.00
1,900.00	28.00	261.42	1,844.94	-50.00	-331.58	333.79	2.00	2.00	0.00
2,000.00	30.00	261.42	1,932.39	-57.23	-379.52	382.05	2.00	2.00	0.00
2,089.27	31.79	261.42	2,009.00	-64.06	-424.84	427.67	2.00	2.00	0.00
Pierre Formation									
2,100.00	32.00	261.42	2,018.11	-64.91	-430.44	433.31	2.00	2.00	0.00
2,200.00	34.00	261.42	2,101.97	-73.03	-484.30	487.52	2.00	2.00	0.00
2,300.00	36.00	261.42	2,183.88	-81.58	-541.01	544.61	2.00	2.00	0.00
2,400.00	38.00	261.42	2,263.74	-90.55	-600.52	604.52	2.00	2.00	0.00
2,500.00	40.00	261.42	2,341.45	-99.94	-662.74	667.16	2.00	2.00	0.00
2,600.00	42.00	261.42	2,416.92	-109.72	-727.61	732.46	2.00	2.00	0.00
2,700.00	44.00	261.42	2,490.05	-119.89	-795.05	800.34	2.00	2.00	0.00
2,712.47	44.25	261.42	2,499.00	-121.18	-803.63	808.98	2.00	2.00	0.00
Upper Pierre aquifer									
2,800.00	46.00	261.42	2,560.76	-130.43	-864.96	870.72	2.00	2.00	0.00
2,900.00	48.00	261.42	2,628.95	-141.33	-937.28	943.52	2.00	2.00	0.00
3,000.00	50.00	261.42	2,694.55	-152.59	-1,011.90	1,018.64	2.00	2.00	0.00
3,100.00	52.00	261.42	2,757.48	-164.17	-1,088.74	1,095.99	2.00	2.00	0.00
3,200.00	54.00	261.42	2,817.66	-176.08	-1,167.71	1,175.49	2.00	2.00	0.00
3,289.85	55.80	261.42	2,869.32	-187.04	-1,240.39	1,248.65	2.00	2.00	0.00
Start 8579.36 hold at 3289.85 MD									
3,300.00	55.80	261.42	2,875.03	-188.29	-1,248.69	1,257.01	0.00	0.00	0.00
3,400.00	55.80	261.42	2,931.24	-200.63	-1,330.48	1,339.34	0.00	0.00	0.00
3,500.00	55.80	261.42	2,987.46	-212.96	-1,412.26	1,421.66	0.00	0.00	0.00
3,600.00	55.80	261.42	3,043.67	-225.29	-1,494.04	1,503.99	0.00	0.00	0.00
3,700.00	55.80	261.42	3,099.88	-237.62	-1,575.82	1,586.31	0.00	0.00	0.00
3,800.00	55.80	261.42	3,156.09	-249.95	-1,657.60	1,668.64	0.00	0.00	0.00
3,805.17	55.80	261.42	3,159.00	-250.59	-1,661.83	1,672.89	0.00	0.00	0.00

# Civitas Resources

## Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well INVICTA 3-65 30-26 5H
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5661.00usft
Project:	ADAMS COUNTY	MD Reference:	KB 25' @ 5661.00usft
Site:	SEC 28-T3S-R65W	North Reference:	True
Well:	INVICTA 3-65 30-26 5H	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)
Base of Upper Pierre aquifer									
3,900.00	55.80	261.42	3,212.31	-262.29	-1,739.38	1,750.96	0.00	0.00	0.00
4,000.00	55.80	261.42	3,268.52	-274.62	-1,821.16	1,833.29	0.00	0.00	0.00
4,100.00	55.80	261.42	3,324.73	-286.95	-1,902.94	1,915.61	0.00	0.00	0.00
4,200.00	55.80	261.42	3,380.94	-299.28	-1,984.72	1,997.94	0.00	0.00	0.00
4,300.00	55.80	261.42	3,437.16	-311.61	-2,066.50	2,080.26	0.00	0.00	0.00
4,400.00	55.80	261.42	3,493.37	-323.95	-2,148.28	2,162.59	0.00	0.00	0.00
4,500.00	55.80	261.42	3,549.58	-336.28	-2,230.06	2,244.91	0.00	0.00	0.00
4,600.00	55.80	261.42	3,605.79	-348.61	-2,311.84	2,327.24	0.00	0.00	0.00
4,700.00	55.80	261.42	3,662.01	-360.94	-2,393.62	2,409.56	0.00	0.00	0.00
4,800.00	55.80	261.42	3,718.22	-373.27	-2,475.40	2,491.89	0.00	0.00	0.00
4,900.00	55.80	261.42	3,774.43	-385.60	-2,557.18	2,574.22	0.00	0.00	0.00
5,000.00	55.80	261.42	3,830.65	-397.94	-2,638.96	2,656.54	0.00	0.00	0.00
5,100.00	55.80	261.42	3,886.86	-410.27	-2,720.75	2,738.87	0.00	0.00	0.00
5,200.00	55.80	261.42	3,943.07	-422.60	-2,802.53	2,821.19	0.00	0.00	0.00
5,300.00	55.80	261.42	3,999.28	-434.93	-2,884.31	2,903.52	0.00	0.00	0.00
5,400.00	55.80	261.42	4,055.50	-447.26	-2,966.09	2,985.84	0.00	0.00	0.00
5,500.00	55.80	261.42	4,111.71	-459.60	-3,047.87	3,068.17	0.00	0.00	0.00
5,600.00	55.80	261.42	4,167.92	-471.93	-3,129.65	3,150.49	0.00	0.00	0.00
5,699.76	55.80	261.42	4,224.00	-484.23	-3,211.24	3,232.62	0.00	0.00	0.00
Larimer ("Parkman") sandstone									
5,700.00	55.80	261.42	4,224.13	-484.26	-3,211.43	3,232.82	0.00	0.00	0.00
5,800.00	55.80	261.42	4,280.35	-496.59	-3,293.21	3,315.14	0.00	0.00	0.00
5,900.00	55.80	261.42	4,336.56	-508.92	-3,374.99	3,397.47	0.00	0.00	0.00
5,922.13	55.80	261.42	4,349.00	-511.65	-3,393.09	3,415.69	0.00	0.00	0.00
Pierre Formation									
6,000.00	55.80	261.42	4,392.77	-521.26	-3,456.77	3,479.79	0.00	0.00	0.00
6,100.00	55.80	261.42	4,448.98	-533.59	-3,538.55	3,562.12	0.00	0.00	0.00
6,200.00	55.80	261.42	4,505.20	-545.92	-3,620.33	3,644.44	0.00	0.00	0.00
6,300.00	55.80	261.42	4,561.41	-558.25	-3,702.11	3,726.77	0.00	0.00	0.00
6,400.00	55.80	261.42	4,617.62	-570.58	-3,783.89	3,809.09	0.00	0.00	0.00
6,500.00	55.80	261.42	4,673.83	-582.92	-3,865.67	3,891.42	0.00	0.00	0.00
6,600.00	55.80	261.42	4,730.05	-595.25	-3,947.45	3,973.74	0.00	0.00	0.00
6,700.00	55.80	261.42	4,786.26	-607.58	-4,029.24	4,056.07	0.00	0.00	0.00
6,800.00	55.80	261.42	4,842.47	-619.91	-4,111.02	4,138.40	0.00	0.00	0.00
6,900.00	55.80	261.42	4,898.68	-632.24	-4,192.80	4,220.72	0.00	0.00	0.00
7,000.00	55.80	261.42	4,954.90	-644.58	-4,274.58	4,303.05	0.00	0.00	0.00
7,100.00	55.80	261.42	5,011.11	-656.91	-4,356.36	4,385.37	0.00	0.00	0.00
7,200.00	55.80	261.42	5,067.32	-669.24	-4,438.14	4,467.70	0.00	0.00	0.00
7,300.00	55.80	261.42	5,123.53	-681.57	-4,519.92	4,550.02	0.00	0.00	0.00
7,400.00	55.80	261.42	5,179.75	-693.90	-4,601.70	4,632.35	0.00	0.00	0.00
7,500.00	55.80	261.42	5,235.96	-706.23	-4,683.48	4,714.67	0.00	0.00	0.00
7,600.00	55.80	261.42	5,292.17	-718.57	-4,765.26	4,797.00	0.00	0.00	0.00
7,612.15	55.80	261.42	5,299.00	-720.06	-4,775.19	4,807.00	0.00	0.00	0.00
Terry ("Sussex") sandstone									
7,700.00	55.80	261.42	5,348.38	-730.90	-4,847.04	4,879.32	0.00	0.00	0.00
7,800.00	55.80	261.42	5,404.60	-743.23	-4,928.82	4,961.65	0.00	0.00	0.00
7,900.00	55.80	261.42	5,460.81	-755.56	-5,010.60	5,043.97	0.00	0.00	0.00
7,959.04	55.80	261.42	5,494.00	-762.84	-5,058.89	5,092.58	0.00	0.00	0.00
Pierre Formation									
8,000.00	55.80	261.42	5,517.02	-767.89	-5,092.38	5,126.30	0.00	0.00	0.00
8,100.00	55.80	261.42	5,573.24	-780.23	-5,174.16	5,208.62	0.00	0.00	0.00
8,200.00	55.80	261.42	5,629.45	-792.56	-5,255.94	5,290.95	0.00	0.00	0.00
8,300.00	55.80	261.42	5,685.66	-804.89	-5,337.73	5,373.27	0.00	0.00	0.00

# Civitas Resources

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well INVICTA 3-65 30-26 5H
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5661.00usft
<b>Project:</b>	ADAMS COUNTY	<b>MD Reference:</b>	KB 25' @ 5661.00usft
<b>Site:</b>	SEC 28-T3S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	INVICTA 3-65 30-26 5H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	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)
8,400.00	55.80	261.42	5,741.87	-817.22	-5,419.51	5,455.60	0.00	0.00	0.00
8,500.00	55.80	261.42	5,798.09	-829.55	-5,501.29	5,537.92	0.00	0.00	0.00
8,600.00	55.80	261.42	5,854.30	-841.89	-5,583.07	5,620.25	0.00	0.00	0.00
8,700.00	55.80	261.42	5,910.51	-854.22	-5,664.85	5,702.58	0.00	0.00	0.00
8,800.00	55.80	261.42	5,966.72	-866.55	-5,746.63	5,784.90	0.00	0.00	0.00
8,900.00	55.80	261.42	6,022.94	-878.88	-5,828.41	5,867.23	0.00	0.00	0.00
8,990.84	55.80	261.42	6,074.00	-890.08	-5,902.70	5,942.01	0.00	0.00	0.00
Hygiene ("Shannon") sandstone									
9,000.00	55.80	261.42	6,079.15	-891.21	-5,910.19	5,949.55	0.00	0.00	0.00
9,100.00	55.80	261.42	6,135.36	-903.55	-5,991.97	6,031.88	0.00	0.00	0.00
9,200.00	55.80	261.42	6,191.57	-915.88	-6,073.75	6,114.20	0.00	0.00	0.00
9,300.00	55.80	261.42	6,247.79	-928.21	-6,155.53	6,196.53	0.00	0.00	0.00
9,400.00	55.80	261.42	6,304.00	-940.54	-6,237.31	6,278.85	0.00	0.00	0.00
9,500.00	55.80	261.42	6,360.21	-952.87	-6,319.09	6,361.18	0.00	0.00	0.00
9,600.00	55.80	261.42	6,416.42	-965.20	-6,400.87	6,443.50	0.00	0.00	0.00
9,700.00	55.80	261.42	6,472.64	-977.54	-6,482.65	6,525.83	0.00	0.00	0.00
9,729.11	55.80	261.42	6,489.00	-981.13	-6,506.46	6,549.79	0.00	0.00	0.00
Pierre Formation									
9,800.00	55.80	261.42	6,528.85	-989.87	-6,564.43	6,608.15	0.00	0.00	0.00
9,900.00	55.80	261.42	6,585.06	-1,002.20	-6,646.22	6,690.48	0.00	0.00	0.00
10,000.00	55.80	261.42	6,641.27	-1,014.53	-6,728.00	6,772.80	0.00	0.00	0.00
10,100.00	55.80	261.42	6,697.49	-1,026.86	-6,809.78	6,855.13	0.00	0.00	0.00
10,200.00	55.80	261.42	6,753.70	-1,039.20	-6,891.56	6,937.45	0.00	0.00	0.00
10,300.00	55.80	261.42	6,809.91	-1,051.53	-6,973.34	7,019.78	0.00	0.00	0.00
10,400.00	55.80	261.42	6,866.12	-1,063.86	-7,055.12	7,102.11	0.00	0.00	0.00
10,500.00	55.80	261.42	6,922.34	-1,076.19	-7,136.90	7,184.43	0.00	0.00	0.00
10,600.00	55.80	261.42	6,978.55	-1,088.52	-7,218.68	7,266.76	0.00	0.00	0.00
10,700.00	55.80	261.42	7,034.76	-1,100.86	-7,300.46	7,349.08	0.00	0.00	0.00
10,800.00	55.80	261.42	7,090.98	-1,113.19	-7,382.24	7,431.41	0.00	0.00	0.00
10,900.00	55.80	261.42	7,147.19	-1,125.52	-7,464.02	7,513.73	0.00	0.00	0.00
11,000.00	55.80	261.42	7,203.40	-1,137.85	-7,545.80	7,596.06	0.00	0.00	0.00
11,100.00	55.80	261.42	7,259.61	-1,150.18	-7,627.58	7,678.38	0.00	0.00	0.00
11,200.00	55.80	261.42	7,315.83	-1,162.52	-7,709.36	7,760.71	0.00	0.00	0.00
11,300.00	55.80	261.42	7,372.04	-1,174.85	-7,791.14	7,843.03	0.00	0.00	0.00
11,400.00	55.80	261.42	7,428.25	-1,187.18	-7,872.92	7,925.36	0.00	0.00	0.00
11,500.00	55.80	261.42	7,484.46	-1,199.51	-7,954.70	8,007.68	0.00	0.00	0.00
11,600.00	55.80	261.42	7,540.68	-1,211.84	-8,036.49	8,090.01	0.00	0.00	0.00
11,700.00	55.80	261.42	7,596.89	-1,224.18	-8,118.27	8,172.33	0.00	0.00	0.00
11,800.00	55.80	261.42	7,653.10	-1,236.51	-8,200.05	8,254.66	0.00	0.00	0.00
11,869.20	55.80	261.42	7,692.00	-1,245.04	-8,256.64	8,311.63	0.00	0.00	0.00
Start DLS 10.00 TFO 15.10									
11,900.00	58.77	262.36	7,708.64	-1,248.69	-8,282.29	8,337.44	10.00	9.67	3.05
11,950.00	63.62	263.77	7,732.73	-1,253.97	-8,325.77	8,381.14	10.00	9.69	2.81
11,964.48	65.03	264.15	7,739.00	-1,255.34	-8,338.75	8,394.17	10.00	9.71	2.65
Sharon Springs Member									
12,000.00	68.48	265.06	7,753.02	-1,258.40	-8,371.24	8,426.78	10.00	9.72	2.55
12,050.00	73.35	266.27	7,769.37	-1,261.97	-8,418.34	8,474.00	10.00	9.74	2.41
12,100.00	78.22	267.41	7,781.64	-1,264.64	-8,466.72	8,522.46	10.00	9.75	2.29
12,150.00	83.10	268.52	7,789.75	-1,266.38	-8,516.01	8,571.77	10.00	9.76	2.21
12,200.00	87.98	269.61	7,793.64	-1,267.19	-8,565.83	8,621.57	10.00	9.76	2.17
12,220.65	90.00	270.05	7,794.00	-1,267.26	-8,586.48	8,642.19	10.00	9.76	2.16
Start 14661.85 hold at 12220.65 MD - Niobrara Formation									
12,300.00	90.00	270.05	7,794.00	-1,267.19	-8,665.83	8,721.42	0.00	0.00	0.00

# Civitas Resources

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well INVICTA 3-65 30-26 5H
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5661.00usft
<b>Project:</b>	ADAMS COUNTY	<b>MD Reference:</b>	KB 25' @ 5661.00usft
<b>Site:</b>	SEC 28-T3S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	INVICTA 3-65 30-26 5H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	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)	
12,400.00	90.00	270.05	7,794.00	-1,267.10	-8,765.83	8,821.27	0.00	0.00	0.00	
12,500.00	90.00	270.05	7,794.00	-1,267.01	-8,865.83	8,921.12	0.00	0.00	0.00	
12,600.00	90.00	270.05	7,794.00	-1,266.92	-8,965.83	9,020.97	0.00	0.00	0.00	
12,700.00	90.00	270.05	7,794.00	-1,266.83	-9,065.83	9,120.82	0.00	0.00	0.00	
12,800.00	90.00	270.05	7,794.00	-1,266.74	-9,165.83	9,220.67	0.00	0.00	0.00	
12,900.00	90.00	270.05	7,794.00	-1,266.65	-9,265.83	9,320.52	0.00	0.00	0.00	
13,000.00	90.00	270.05	7,794.00	-1,266.57	-9,365.83	9,420.37	0.00	0.00	0.00	
13,100.00	90.00	270.05	7,794.00	-1,266.48	-9,465.83	9,520.22	0.00	0.00	0.00	
13,200.00	90.00	270.05	7,794.00	-1,266.39	-9,565.83	9,620.07	0.00	0.00	0.00	
13,300.00	90.00	270.05	7,794.00	-1,266.30	-9,665.83	9,719.92	0.00	0.00	0.00	
13,400.00	90.00	270.05	7,794.00	-1,266.21	-9,765.83	9,819.77	0.00	0.00	0.00	
13,500.00	90.00	270.05	7,794.00	-1,266.12	-9,865.83	9,919.62	0.00	0.00	0.00	
13,600.00	90.00	270.05	7,794.00	-1,266.03	-9,965.83	10,019.48	0.00	0.00	0.00	
13,700.00	90.00	270.05	7,794.00	-1,265.94	-10,065.83	10,119.33	0.00	0.00	0.00	
13,800.00	90.00	270.05	7,794.00	-1,265.86	-10,165.83	10,219.18	0.00	0.00	0.00	
13,900.00	90.00	270.05	7,794.00	-1,265.77	-10,265.83	10,319.03	0.00	0.00	0.00	
14,000.00	90.00	270.05	7,794.00	-1,265.68	-10,365.83	10,418.88	0.00	0.00	0.00	
14,100.00	90.00	270.05	7,794.00	-1,265.59	-10,465.83	10,518.73	0.00	0.00	0.00	
14,200.00	90.00	270.05	7,794.00	-1,265.50	-10,565.83	10,618.58	0.00	0.00	0.00	
14,300.00	90.00	270.05	7,794.00	-1,265.41	-10,665.83	10,718.43	0.00	0.00	0.00	
14,400.00	90.00	270.05	7,794.00	-1,265.32	-10,765.83	10,818.28	0.00	0.00	0.00	
14,500.00	90.00	270.05	7,794.00	-1,265.24	-10,865.83	10,918.13	0.00	0.00	0.00	
14,600.00	90.00	270.05	7,794.00	-1,265.15	-10,965.83	11,017.98	0.00	0.00	0.00	
14,700.00	90.00	270.05	7,794.00	-1,265.06	-11,065.83	11,117.83	0.00	0.00	0.00	
14,800.00	90.00	270.05	7,794.00	-1,264.97	-11,165.83	11,217.68	0.00	0.00	0.00	
14,900.00	90.00	270.05	7,794.00	-1,264.88	-11,265.83	11,317.53	0.00	0.00	0.00	
15,000.00	90.00	270.05	7,794.00	-1,264.79	-11,365.83	11,417.38	0.00	0.00	0.00	
15,100.00	90.00	270.05	7,794.00	-1,264.70	-11,465.83	11,517.23	0.00	0.00	0.00	
15,200.00	90.00	270.05	7,794.00	-1,264.61	-11,565.83	11,617.09	0.00	0.00	0.00	
15,300.00	90.00	270.05	7,794.00	-1,264.53	-11,665.83	11,716.94	0.00	0.00	0.00	
15,400.00	90.00	270.05	7,794.00	-1,264.44	-11,765.83	11,816.79	0.00	0.00	0.00	
15,500.00	90.00	270.05	7,794.00	-1,264.35	-11,865.83	11,916.64	0.00	0.00	0.00	
15,600.00	90.00	270.05	7,794.00	-1,264.26	-11,965.83	12,016.49	0.00	0.00	0.00	
15,700.00	90.00	270.05	7,794.00	-1,264.17	-12,065.83	12,116.34	0.00	0.00	0.00	
15,800.00	90.00	270.05	7,794.00	-1,264.08	-12,165.83	12,216.19	0.00	0.00	0.00	
15,900.00	90.00	270.05	7,794.00	-1,263.99	-12,265.83	12,316.04	0.00	0.00	0.00	
16,000.00	90.00	270.05	7,794.00	-1,263.90	-12,365.83	12,415.89	0.00	0.00	0.00	
16,100.00	90.00	270.05	7,794.00	-1,263.82	-12,465.83	12,515.74	0.00	0.00	0.00	
16,200.00	90.00	270.05	7,794.00	-1,263.73	-12,565.83	12,615.59	0.00	0.00	0.00	
16,300.00	90.00	270.05	7,794.00	-1,263.64	-12,665.83	12,715.44	0.00	0.00	0.00	
16,400.00	90.00	270.05	7,794.00	-1,263.55	-12,765.83	12,815.29	0.00	0.00	0.00	
16,500.00	90.00	270.05	7,794.00	-1,263.46	-12,865.83	12,915.14	0.00	0.00	0.00	
16,600.00	90.00	270.05	7,794.00	-1,263.37	-12,965.83	13,014.99	0.00	0.00	0.00	
16,700.00	90.00	270.05	7,794.00	-1,263.28	-13,065.83	13,114.84	0.00	0.00	0.00	
16,800.00	90.00	270.05	7,794.00	-1,263.20	-13,165.83	13,214.70	0.00	0.00	0.00	
16,900.00	90.00	270.05	7,794.00	-1,263.11	-13,265.83	13,314.55	0.00	0.00	0.00	
17,000.00	90.00	270.05	7,794.00	-1,263.02	-13,365.83	13,414.40	0.00	0.00	0.00	
17,100.00	90.00	270.05	7,794.00	-1,262.93	-13,465.83	13,514.25	0.00	0.00	0.00	
17,200.00	90.00	270.05	7,794.00	-1,262.84	-13,565.83	13,614.10	0.00	0.00	0.00	
17,300.00	90.00	270.05	7,794.00	-1,262.75	-13,665.83	13,713.95	0.00	0.00	0.00	
17,400.00	90.00	270.05	7,794.00	-1,262.66	-13,765.83	13,813.80	0.00	0.00	0.00	
17,500.00	90.00	270.05	7,794.00	-1,262.57	-13,865.83	13,913.65	0.00	0.00	0.00	
17,600.00	90.00	270.05	7,794.00	-1,262.49	-13,965.83	14,013.50	0.00	0.00	0.00	
17,700.00	90.00	270.05	7,794.00	-1,262.40	-14,065.83	14,113.35	0.00	0.00	0.00	

# Civitas Resources

## Planning Report

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<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5661.00usft
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<b>Site:</b>	SEC 28-T3S-R65W	<b>North Reference:</b>	True
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<b>Wellbore:</b>	OWB		
<b>Design:</b>	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)	
17,800.00	90.00	270.05	7,794.00	-1,262.31	-14,165.83	14,213.20	0.00	0.00	0.00	
17,900.00	90.00	270.05	7,794.00	-1,262.22	-14,265.83	14,313.05	0.00	0.00	0.00	
18,000.00	90.00	270.05	7,794.00	-1,262.13	-14,365.83	14,412.90	0.00	0.00	0.00	
18,100.00	90.00	270.05	7,794.00	-1,262.04	-14,465.83	14,512.75	0.00	0.00	0.00	
18,200.00	90.00	270.05	7,794.00	-1,261.95	-14,565.83	14,612.60	0.00	0.00	0.00	
18,300.00	90.00	270.05	7,794.00	-1,261.86	-14,665.83	14,712.45	0.00	0.00	0.00	
18,400.00	90.00	270.05	7,794.00	-1,261.78	-14,765.83	14,812.30	0.00	0.00	0.00	
18,500.00	90.00	270.05	7,794.00	-1,261.69	-14,865.83	14,912.16	0.00	0.00	0.00	
18,600.00	90.00	270.05	7,794.00	-1,261.60	-14,965.83	15,012.01	0.00	0.00	0.00	
18,700.00	90.00	270.05	7,794.00	-1,261.51	-15,065.83	15,111.86	0.00	0.00	0.00	
18,800.00	90.00	270.05	7,794.00	-1,261.42	-15,165.83	15,211.71	0.00	0.00	0.00	
18,900.00	90.00	270.05	7,794.00	-1,261.33	-15,265.83	15,311.56	0.00	0.00	0.00	
19,000.00	90.00	270.05	7,794.00	-1,261.24	-15,365.83	15,411.41	0.00	0.00	0.00	
19,100.00	90.00	270.05	7,794.00	-1,261.16	-15,465.83	15,511.26	0.00	0.00	0.00	
19,200.00	90.00	270.05	7,794.00	-1,261.07	-15,565.83	15,611.11	0.00	0.00	0.00	
19,300.00	90.00	270.05	7,794.00	-1,260.98	-15,665.83	15,710.96	0.00	0.00	0.00	
19,400.00	90.00	270.05	7,794.00	-1,260.89	-15,765.83	15,810.81	0.00	0.00	0.00	
19,500.00	90.00	270.05	7,794.00	-1,260.80	-15,865.83	15,910.66	0.00	0.00	0.00	
19,600.00	90.00	270.05	7,794.00	-1,260.71	-15,965.83	16,010.51	0.00	0.00	0.00	
19,700.00	90.00	270.05	7,794.00	-1,260.62	-16,065.83	16,110.36	0.00	0.00	0.00	
19,800.00	90.00	270.05	7,794.00	-1,260.53	-16,165.83	16,210.21	0.00	0.00	0.00	
19,900.00	90.00	270.05	7,794.00	-1,260.45	-16,265.83	16,310.06	0.00	0.00	0.00	
20,000.00	90.00	270.05	7,794.00	-1,260.36	-16,365.83	16,409.91	0.00	0.00	0.00	
20,100.00	90.00	270.05	7,794.00	-1,260.27	-16,465.83	16,509.77	0.00	0.00	0.00	
20,200.00	90.00	270.05	7,794.00	-1,260.18	-16,565.83	16,609.62	0.00	0.00	0.00	
20,300.00	90.00	270.05	7,794.00	-1,260.09	-16,665.83	16,709.47	0.00	0.00	0.00	
20,400.00	90.00	270.05	7,794.00	-1,260.00	-16,765.83	16,809.32	0.00	0.00	0.00	
20,500.00	90.00	270.05	7,794.00	-1,259.91	-16,865.83	16,909.17	0.00	0.00	0.00	
20,600.00	90.00	270.05	7,794.00	-1,259.82	-16,965.83	17,009.02	0.00	0.00	0.00	
20,700.00	90.00	270.05	7,794.00	-1,259.74	-17,065.83	17,108.87	0.00	0.00	0.00	
20,800.00	90.00	270.05	7,794.00	-1,259.65	-17,165.83	17,208.72	0.00	0.00	0.00	
20,900.00	90.00	270.05	7,794.00	-1,259.56	-17,265.83	17,308.57	0.00	0.00	0.00	
21,000.00	90.00	270.05	7,794.00	-1,259.47	-17,365.83	17,408.42	0.00	0.00	0.00	
21,100.00	90.00	270.05	7,794.00	-1,259.38	-17,465.83	17,508.27	0.00	0.00	0.00	
21,200.00	90.00	270.05	7,794.00	-1,259.29	-17,565.83	17,608.12	0.00	0.00	0.00	
21,300.00	90.00	270.05	7,794.00	-1,259.20	-17,665.83	17,707.97	0.00	0.00	0.00	
21,400.00	90.00	270.05	7,794.00	-1,259.12	-17,765.83	17,807.82	0.00	0.00	0.00	
21,500.00	90.00	270.05	7,794.00	-1,259.03	-17,865.83	17,907.67	0.00	0.00	0.00	
21,600.00	90.00	270.05	7,794.00	-1,258.94	-17,965.83	18,007.52	0.00	0.00	0.00	
21,700.00	90.00	270.05	7,794.00	-1,258.85	-18,065.83	18,107.38	0.00	0.00	0.00	
21,800.00	90.00	270.05	7,794.00	-1,258.76	-18,165.83	18,207.23	0.00	0.00	0.00	
21,900.00	90.00	270.05	7,794.00	-1,258.67	-18,265.83	18,307.08	0.00	0.00	0.00	
22,000.00	90.00	270.05	7,794.00	-1,258.58	-18,365.83	18,406.93	0.00	0.00	0.00	
22,100.00	90.00	270.05	7,794.00	-1,258.49	-18,465.83	18,506.78	0.00	0.00	0.00	
22,200.00	90.00	270.05	7,794.00	-1,258.41	-18,565.83	18,606.63	0.00	0.00	0.00	
22,300.00	90.00	270.05	7,794.00	-1,258.32	-18,665.83	18,706.48	0.00	0.00	0.00	
22,400.00	90.00	270.05	7,794.00	-1,258.23	-18,765.83	18,806.33	0.00	0.00	0.00	
22,500.00	90.00	270.05	7,794.00	-1,258.14	-18,865.83	18,906.18	0.00	0.00	0.00	
22,600.00	90.00	270.05	7,794.00	-1,258.05	-18,965.83	19,006.03	0.00	0.00	0.00	
22,700.00	90.00	270.05	7,794.00	-1,257.96	-19,065.83	19,105.88	0.00	0.00	0.00	
22,800.00	90.00	270.05	7,794.00	-1,257.87	-19,165.83	19,205.73	0.00	0.00	0.00	
22,900.00	90.00	270.05	7,794.00	-1,257.78	-19,265.83	19,305.58	0.00	0.00	0.00	
23,000.00	90.00	270.05	7,794.00	-1,257.70	-19,365.83	19,405.43	0.00	0.00	0.00	
23,100.00	90.00	270.05	7,794.00	-1,257.61	-19,465.83	19,505.28	0.00	0.00	0.00	



# Civitas Resources

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well INVICTA 3-65 30-26 5H
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5661.00usft
<b>Project:</b>	ADAMS COUNTY	<b>MD Reference:</b>	KB 25' @ 5661.00usft
<b>Site:</b>	SEC 28-T3S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	INVICTA 3-65 30-26 5H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	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)	
23,200.00	90.00	270.05	7,794.00	-1,257.52	-19,565.83	19,605.13	0.00	0.00	0.00	
23,300.00	90.00	270.05	7,794.00	-1,257.43	-19,665.83	19,704.98	0.00	0.00	0.00	
23,400.00	90.00	270.05	7,794.00	-1,257.34	-19,765.83	19,804.84	0.00	0.00	0.00	
23,500.00	90.00	270.05	7,794.00	-1,257.25	-19,865.83	19,904.69	0.00	0.00	0.00	
23,600.00	90.00	270.05	7,794.00	-1,257.16	-19,965.83	20,004.54	0.00	0.00	0.00	
23,700.00	90.00	270.05	7,794.00	-1,257.08	-20,065.83	20,104.39	0.00	0.00	0.00	
23,800.00	90.00	270.05	7,794.00	-1,256.99	-20,165.83	20,204.24	0.00	0.00	0.00	
23,900.00	90.00	270.05	7,794.00	-1,256.90	-20,265.83	20,304.09	0.00	0.00	0.00	
24,000.00	90.00	270.05	7,794.00	-1,256.81	-20,365.83	20,403.94	0.00	0.00	0.00	
24,100.00	90.00	270.05	7,794.00	-1,256.72	-20,465.83	20,503.79	0.00	0.00	0.00	
24,200.00	90.00	270.05	7,794.00	-1,256.63	-20,565.83	20,603.64	0.00	0.00	0.00	
24,300.00	90.00	270.05	7,794.00	-1,256.54	-20,665.83	20,703.49	0.00	0.00	0.00	
24,400.00	90.00	270.05	7,794.00	-1,256.45	-20,765.83	20,803.34	0.00	0.00	0.00	
24,500.00	90.00	270.05	7,794.00	-1,256.37	-20,865.83	20,903.19	0.00	0.00	0.00	
24,600.00	90.00	270.05	7,794.00	-1,256.28	-20,965.83	21,003.04	0.00	0.00	0.00	
24,700.00	90.00	270.05	7,794.00	-1,256.19	-21,065.83	21,102.89	0.00	0.00	0.00	
24,800.00	90.00	270.05	7,794.00	-1,256.10	-21,165.83	21,202.74	0.00	0.00	0.00	
24,900.00	90.00	270.05	7,794.00	-1,256.01	-21,265.83	21,302.59	0.00	0.00	0.00	
25,000.00	90.00	270.05	7,794.00	-1,255.92	-21,365.83	21,402.45	0.00	0.00	0.00	
25,100.00	90.00	270.05	7,794.00	-1,255.83	-21,465.83	21,502.30	0.00	0.00	0.00	
25,200.00	90.00	270.05	7,794.00	-1,255.74	-21,565.82	21,602.15	0.00	0.00	0.00	
25,300.00	90.00	270.05	7,794.00	-1,255.66	-21,665.82	21,702.00	0.00	0.00	0.00	
25,400.00	90.00	270.05	7,794.00	-1,255.57	-21,765.82	21,801.85	0.00	0.00	0.00	
25,500.00	90.00	270.05	7,794.00	-1,255.48	-21,865.82	21,901.70	0.00	0.00	0.00	
25,600.00	90.00	270.05	7,794.00	-1,255.39	-21,965.82	22,001.55	0.00	0.00	0.00	
25,700.00	90.00	270.05	7,794.00	-1,255.30	-22,065.82	22,101.40	0.00	0.00	0.00	
25,800.00	90.00	270.05	7,794.00	-1,255.21	-22,165.82	22,201.25	0.00	0.00	0.00	
25,900.00	90.00	270.05	7,794.00	-1,255.12	-22,265.82	22,301.10	0.00	0.00	0.00	
26,000.00	90.00	270.05	7,794.00	-1,255.04	-22,365.82	22,400.95	0.00	0.00	0.00	
26,100.00	90.00	270.05	7,794.00	-1,254.95	-22,465.82	22,500.80	0.00	0.00	0.00	
26,200.00	90.00	270.05	7,794.00	-1,254.86	-22,565.82	22,600.65	0.00	0.00	0.00	
26,300.00	90.00	270.05	7,794.00	-1,254.77	-22,665.82	22,700.50	0.00	0.00	0.00	
26,400.00	90.00	270.05	7,794.00	-1,254.68	-22,765.82	22,800.35	0.00	0.00	0.00	
26,500.00	90.00	270.05	7,794.00	-1,254.59	-22,865.82	22,900.20	0.00	0.00	0.00	
26,600.00	90.00	270.05	7,794.00	-1,254.50	-22,965.82	23,000.06	0.00	0.00	0.00	
26,700.00	90.00	270.05	7,794.00	-1,254.41	-23,065.82	23,099.91	0.00	0.00	0.00	
26,800.00	90.00	270.05	7,794.00	-1,254.33	-23,165.82	23,199.76	0.00	0.00	0.00	
26,882.51	90.00	270.05	7,794.00	-1,254.25	-23,248.33	23,282.14	0.00	0.00	0.00	
26,882.64	90.00	270.05	7,794.00	-1,254.25	-23,248.46	23,282.27	2.00	0.00	2.00	
Start 49.91 hold at 26882.64 MD										
26,900.00	90.00	270.05	7,794.00	-1,254.24	-23,265.82	23,299.61	0.00	0.00	0.00	
26,932.55	90.00	270.05	7,794.00	-1,254.21	-23,298.37	23,332.11	0.00	0.00	0.00	
TD at 26932.55										

# Civitas Resources

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well INVICTA 3-65 30-26 5H
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5661.00usft
<b>Project:</b>	ADAMS COUNTY	<b>MD Reference:</b>	KB 25' @ 5661.00usft
<b>Site:</b>	SEC 28-T3S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	INVICTA 3-65 30-26 5H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PROPOSAL 1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
PBHL-INVICTA 5H	0.00	0.00	7,794.00	-1,254.21	-23,298.37	1,156,726.16	3,210,407.50	39.761143°N	104.751569°W
- plan hits target center									
- Point									
LP-INVICTA 5H	0.00	0.00	7,794.00	-1,267.26	-8,586.48	1,156,851.03	3,225,118.76	39.761133°N	104.699239°W
- plan hits target center									
- Point									
LTP-INVICTA 5H	0.00	0.00	7,794.00	-1,254.25	-23,248.33	1,156,726.59	3,210,457.54	39.761143°N	104.751391°W
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
24.00	24.00	Denver				
839.80	839.00	Arapahoe				
1,520.44	1,499.00	Laramie-Fox Hills Formation				
2,089.27	2,009.00	Pierre Formation				
2,712.47	2,499.00	Upper Pierre aquifer				
3,805.17	3,159.00	Base of Upper Pierre aquifer				
5,699.76	4,224.00	Larimer ("Parkman") sandstone				
5,922.13	4,349.00	Pierre Formation				
7,612.15	5,299.00	Terry ("Sussex") sandstone				
7,959.04	5,494.00	Pierre Formation				
8,990.84	6,074.00	Hygiene ("Shannon") sandstone				
9,729.11	6,489.00	Pierre Formation				
11,964.48	7,739.00	Sharon Springs Member				
12,220.65	7,794.00	Niobrara Formation				

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S	+E/-W	Comment	
(usft)	(usft)	(usft)	(usft)		
500.00	500.00	0.00	0.00	Start Build 2.00	
3,289.85	2,869.32	-187.04	-1,240.39	Start 8579.36 hold at 3289.85 MD	
11,869.20	7,692.00	-1,245.04	-8,256.64	Start DLS 10.00 TFO 15.10	
12,220.65	7,794.00	-1,267.26	-8,586.48	Start 14661.85 hold at 12220.65 MD	
26,882.64	7,794.00	-1,254.25	-23,248.46	Start 49.91 hold at 26882.64 MD	
26,932.55	7,794.00	-1,254.21	-23,298.37	TD at 26932.55	