

# **CRESTONE PEAK RESOURCES**

**ARAPAHOE COUNTY**

**SEC 10-T4S-R65W**

**SKY RANCH 4-65 10-9-8-7 3BH**

**OWB**

**Plan: PROPOSAL 1**

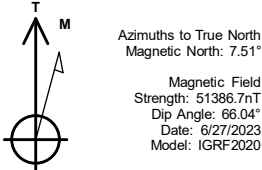
## **Standard Planning Report**

**27 June, 2023**

PROJECT DETAILS: ARAPAHOE COUNTY

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Colorado Central Zone  
  
System Datum: Mean Sea Level

Project: ARAPAHOE COUNTY  
Site: SEC 10-T4S-R65W  
Well: SKY RANCH 4-65 10-9-8-7 3BH  
Wellbore: OWB  
Design: PROPOSAL 1



WELL DETAILS: SKY RANCH 4-65 10-9-8-7 3BH

				5683.00			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		Slot
0.00	0.00	1687346.69	3241250.93	39.717443°N	104.642397°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	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
3	695.82	7.92	132.45	694.56	-18.43	20.15	2.00	132.45	-19.76	
4	7130.46	7.92	132.45	7067.88	-616.53	674.10	0.00	0.00	-661.11	
5	8089.42	90.00	270.68	7697.00	-668.04	103.53	10.00	137.96	-89.59	LP-SKY RANCH 4-65 10-9 3BH
6	28590.58	90.00	270.68	7697.00	-424.95	-20396.20	0.00	0.00	20400.62	PBHL-SKY RANCH 4-65 10-9 3BH

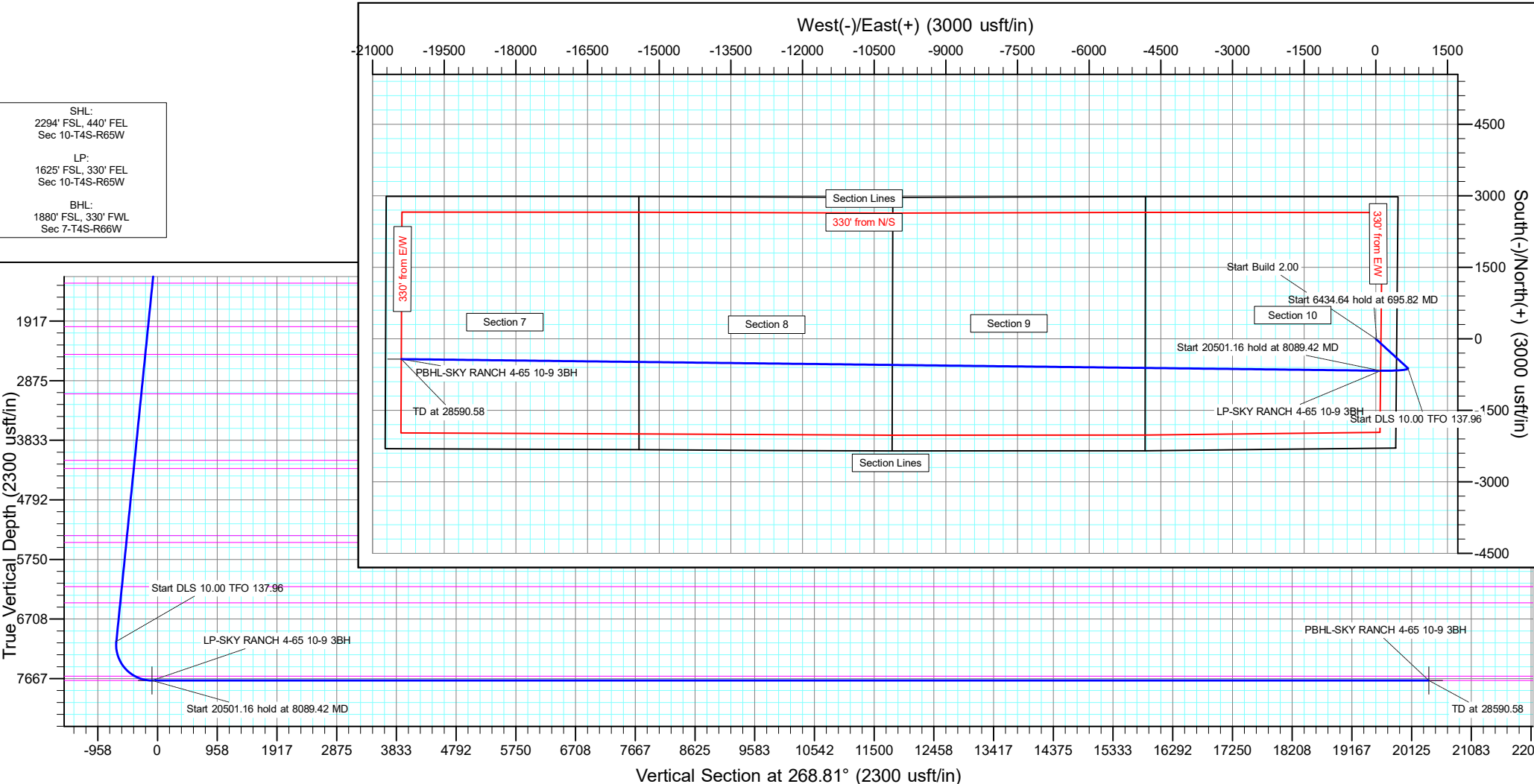
ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	Start Build 2.00
695.82	7.92	132.45	694.56	-18.43	20.15	-19.76	27.30	Start 6434.64 hold at 695.82 MD
7130.46	7.92	132.45	7067.88	-616.53	674.10	-661.11	913.52	Start DLS 10.00 TFO 137.96
8089.42	90.00	270.68	7697.00	-668.04	103.53	-89.59	1501.46	Start 20501.16 hold at 8089.42 MD
28590.58	90.00	270.68	7697.00	-424.95	-20396.20	20400.62	22002.62	TD at 28590.58

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
LP-SKY RANCH 4-65 10-9 3BH	7697.00	-668.04	103.53	1686679.66	3241360.76	39.715609°N	104.642029°W	Point
- plan hits target center								
PBHL-SKY RANCH 4-65 10-9 3BH	7697.00	-424.95	-20396.20	1686729.22	3220859.79	39.716254°N	104.714899°W	Point
- plan hits target center								

SHL:  
2294' FSL, 440' FEL  
Sec 10-T4S-R65W  
  
LP:  
1625' FSL, 330' FEL  
Sec 10-T4S-R65W  
  
BHL:  
1880' FSL, 330' FWL  
Sec 7-T4S-R66W



# Civitas Resources

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well SKY RANCH 4-65 10-9-8-7 3BH
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5708.00usft
<b>Project:</b>	ARAPAHOE COUNTY	<b>MD Reference:</b>	KB 25' @ 5708.00usft
<b>Site:</b>	SEC 10-T4S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	SKY RANCH 4-65 10-9-8-7 3BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PROPOSAL 1		

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

Site		SEC 10-T4S-R65W			
Site Position:		Northing:	1,685,061.36 usft	Latitude:	39.711158°N
From:	Lat/Long	Easting:	3,241,690.88 usft	Longitude:	104.640910°W
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.54 °

Well	SKY RANCH 4-65 10-9-8-7 3BH					
Well Position	+N/-S	2,289.40 usft	Northing:	1,687,346.69 usft	Latitude:	39.717443°N
	+E/-W	-418.31 usft	Easting:	3,241,250.94 usft	Longitude:	104.642397°W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	5,683.00 usft

<b>Wellbore</b>	OWB				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2020	6/27/2023	7.51	66.04	51,386.74069212

<b>Design</b>	PROPOSAL 1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	268.81

<b>Plan Survey Tool Program</b>	<b>Date</b>	6/27/2023		
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.00	28,590.58	PROPOSAL 1 (OWB)	MWD OWSG
				OWSG MWD - Standard

<b>Plan Sections</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Build Rate (°/100ft)</b>	<b>Turn Rate (°/100ft)</b>	<b>TFO (°)</b>	<b>Target</b>
0.00	0.00	0.00	0.00	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	
695.82	7.92	132.45	694.56	-18.43	20.15	2.00	2.00	0.00	132.45	
7,130.46	7.92	132.45	7,067.88	-616.53	674.10	0.00	0.00	0.00	0.00	
8,089.42	90.00	270.68	7,697.00	-668.04	103.53	10.00	8.56	14.41	137.96	LP-SKY RANCH 4-65
28,590.58	90.00	270.68	7,697.00	-424.95	-20,396.20	0.00	0.00	0.00	0.00	PBHL-SKY RANCH 4

# Civitas Resources

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well SKY RANCH 4-65 10-9-8-7 3BH
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5708.00usft
<b>Project:</b>	ARAPAHOE COUNTY	<b>MD Reference:</b>	KB 25' @ 5708.00usft
<b>Site:</b>	SEC 10-T4S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	SKY RANCH 4-65 10-9-8-7 3BH	<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
Start Build 2.00									
400.00	2.00	132.45	399.98	-1.18	1.29	-1.26	2.00	2.00	0.00
500.00	4.00	132.45	499.84	-4.71	5.15	-5.05	2.00	2.00	0.00
600.00	6.00	132.45	599.45	-10.59	11.58	-11.36	2.00	2.00	0.00
695.82	7.92	132.45	694.56	-18.43	20.15	-19.76	2.00	2.00	0.00
Start 6434.64 hold at 695.82 MD									
700.00	7.92	132.45	698.70	-18.81	20.57	-20.17	0.00	0.00	0.00
708.38	7.92	132.45	707.00	-19.59	21.42	-21.01	0.00	0.00	0.00
Arapahoe									
800.00	7.92	132.45	797.75	-28.11	30.73	-30.14	0.00	0.00	0.00
900.00	7.92	132.45	896.80	-37.40	40.90	-40.11	0.00	0.00	0.00
1,000.00	7.92	132.45	995.84	-46.70	51.06	-50.08	0.00	0.00	0.00
1,100.00	7.92	132.45	1,094.89	-55.99	61.22	-60.04	0.00	0.00	0.00
1,200.00	7.92	132.45	1,193.94	-65.29	71.39	-70.01	0.00	0.00	0.00
1,300.00	7.92	132.45	1,292.98	-74.58	81.55	-79.98	0.00	0.00	0.00
1,314.15	7.92	132.45	1,307.00	-75.90	82.99	-81.39	0.00	0.00	0.00
Laramie-Fox Hills Formation									
1,400.00	7.92	132.45	1,392.03	-83.88	91.71	-89.95	0.00	0.00	0.00
1,500.00	7.92	132.45	1,491.08	-93.18	101.88	-99.91	0.00	0.00	0.00
1,600.00	7.92	132.45	1,590.13	-102.47	112.04	-109.88	0.00	0.00	0.00
1,700.00	7.92	132.45	1,689.17	-111.77	122.20	-119.85	0.00	0.00	0.00
1,800.00	7.92	132.45	1,788.22	-121.06	132.36	-129.81	0.00	0.00	0.00
1,900.00	7.92	132.45	1,887.27	-130.36	142.53	-139.78	0.00	0.00	0.00
2,000.00	7.92	132.45	1,986.31	-139.65	152.69	-149.75	0.00	0.00	0.00
2,020.89	7.92	132.45	2,007.00	-141.59	154.81	-151.83	0.00	0.00	0.00
Pierre Formation									
2,100.00	7.92	132.45	2,085.36	-148.95	162.85	-159.72	0.00	0.00	0.00
2,200.00	7.92	132.45	2,184.41	-158.24	173.02	-169.68	0.00	0.00	0.00
2,300.00	7.92	132.45	2,283.45	-167.54	183.18	-179.65	0.00	0.00	0.00
2,400.00	7.92	132.45	2,382.50	-176.83	193.34	-189.62	0.00	0.00	0.00
2,470.17	7.92	132.45	2,452.00	-183.35	200.47	-196.61	0.00	0.00	0.00
Upper Pierre aquifer									
2,500.00	7.92	132.45	2,481.55	-186.13	203.51	-199.58	0.00	0.00	0.00
2,600.00	7.92	132.45	2,580.60	-195.42	213.67	-209.55	0.00	0.00	0.00
2,700.00	7.92	132.45	2,679.64	-204.72	223.83	-219.52	0.00	0.00	0.00
2,800.00	7.92	132.45	2,778.69	-214.01	234.00	-229.49	0.00	0.00	0.00
2,900.00	7.92	132.45	2,877.74	-223.31	244.16	-239.45	0.00	0.00	0.00
3,000.00	7.92	132.45	2,976.78	-232.60	254.32	-249.42	0.00	0.00	0.00
3,100.00	7.92	132.45	3,075.83	-241.90	264.48	-259.39	0.00	0.00	0.00
3,111.28	7.92	132.45	3,087.00	-242.95	265.63	-260.51	0.00	0.00	0.00
Base of Upper Pierre aquifer									
3,200.00	7.92	132.45	3,174.88	-251.19	274.65	-269.36	0.00	0.00	0.00
3,300.00	7.92	132.45	3,273.92	-260.49	284.81	-279.32	0.00	0.00	0.00
3,400.00	7.92	132.45	3,372.97	-269.78	294.97	-289.29	0.00	0.00	0.00
3,500.00	7.92	132.45	3,472.02	-279.08	305.14	-299.26	0.00	0.00	0.00
3,600.00	7.92	132.45	3,571.07	-288.37	315.30	-309.22	0.00	0.00	0.00
3,700.00	7.92	132.45	3,670.11	-297.67	325.46	-319.19	0.00	0.00	0.00

# Civitas Resources

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well SKY RANCH 4-65 10-9-8-7 3BH
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5708.00usft
<b>Project:</b>	ARAPAHOE COUNTY	<b>MD Reference:</b>	KB 25' @ 5708.00usft
<b>Site:</b>	SEC 10-T4S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	SKY RANCH 4-65 10-9-8-7 3BH	<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)
3,800.00	7.92	132.45	3,769.16	-306.96	335.63	-329.16	0.00	0.00	0.00
3,900.00	7.92	132.45	3,868.21	-316.26	345.79	-339.13	0.00	0.00	0.00
4,000.00	7.92	132.45	3,967.25	-325.55	355.95	-349.09	0.00	0.00	0.00
4,100.00	7.92	132.45	4,066.30	-334.85	366.12	-359.06	0.00	0.00	0.00
4,191.57	7.92	132.45	4,157.00	-343.36	375.42	-368.19	0.00	0.00	0.00
Larimer ("Parkman") sandstone									
4,200.00	7.92	132.45	4,165.35	-344.14	376.28	-369.03	0.00	0.00	0.00
4,300.00	7.92	132.45	4,264.39	-353.44	386.44	-379.00	0.00	0.00	0.00
4,322.82	7.92	132.45	4,287.00	-355.56	388.76	-381.27	0.00	0.00	0.00
Pierre Formation									
4,400.00	7.92	132.45	4,363.44	-362.73	396.60	-388.96	0.00	0.00	0.00
4,500.00	7.92	132.45	4,462.49	-372.03	406.77	-398.93	0.00	0.00	0.00
4,600.00	7.92	132.45	4,561.54	-381.32	416.93	-408.90	0.00	0.00	0.00
4,700.00	7.92	132.45	4,660.58	-390.62	427.09	-418.86	0.00	0.00	0.00
4,800.00	7.92	132.45	4,759.63	-399.91	437.26	-428.83	0.00	0.00	0.00
4,900.00	7.92	132.45	4,858.68	-409.21	447.42	-438.80	0.00	0.00	0.00
5,000.00	7.92	132.45	4,957.72	-418.50	457.58	-448.77	0.00	0.00	0.00
5,100.00	7.92	132.45	5,056.77	-427.80	467.75	-458.73	0.00	0.00	0.00
5,200.00	7.92	132.45	5,155.82	-437.09	477.91	-468.70	0.00	0.00	0.00
5,300.00	7.92	132.45	5,254.87	-446.39	488.07	-478.67	0.00	0.00	0.00
5,400.00	7.92	132.45	5,353.91	-455.68	498.24	-488.64	0.00	0.00	0.00
5,413.21	7.92	132.45	5,367.00	-456.91	499.58	-489.95	0.00	0.00	0.00
Terry ("Sussex") sandstone									
5,500.00	7.92	132.45	5,452.96	-464.98	508.40	-498.60	0.00	0.00	0.00
5,524.27	7.92	132.45	5,477.00	-467.24	510.87	-501.02	0.00	0.00	0.00
Pierre Formation									
5,600.00	7.92	132.45	5,552.01	-474.28	518.56	-508.57	0.00	0.00	0.00
5,700.00	7.92	132.45	5,651.05	-483.57	528.72	-518.54	0.00	0.00	0.00
5,800.00	7.92	132.45	5,750.10	-492.87	538.89	-528.50	0.00	0.00	0.00
5,900.00	7.92	132.45	5,849.15	-502.16	549.05	-538.47	0.00	0.00	0.00
6,000.00	7.92	132.45	5,948.19	-511.46	559.21	-548.44	0.00	0.00	0.00
6,100.00	7.92	132.45	6,047.24	-520.75	569.38	-558.41	0.00	0.00	0.00
6,200.00	7.92	132.45	6,146.29	-530.05	579.54	-568.37	0.00	0.00	0.00
6,241.10	7.92	132.45	6,187.00	-533.87	583.72	-572.47	0.00	0.00	0.00
Hygiene ("Shannon") sandstone									
6,300.00	7.92	132.45	6,245.34	-539.34	589.70	-578.34	0.00	0.00	0.00
6,400.00	7.92	132.45	6,344.38	-548.64	599.87	-588.31	0.00	0.00	0.00
6,500.00	7.92	132.45	6,443.43	-557.93	610.03	-598.27	0.00	0.00	0.00
6,503.61	7.92	132.45	6,447.00	-558.27	610.40	-598.63	0.00	0.00	0.00
Pierre Formation									
6,600.00	7.92	132.45	6,542.48	-567.23	620.19	-608.24	0.00	0.00	0.00
6,700.00	7.92	132.45	6,641.52	-576.52	630.36	-618.21	0.00	0.00	0.00
6,800.00	7.92	132.45	6,740.57	-585.82	640.52	-628.18	0.00	0.00	0.00
6,900.00	7.92	132.45	6,839.62	-595.11	650.68	-638.14	0.00	0.00	0.00
7,000.00	7.92	132.45	6,938.66	-604.41	660.84	-648.11	0.00	0.00	0.00
7,100.00	7.92	132.45	7,037.71	-613.70	671.01	-658.08	0.00	0.00	0.00
7,130.46	7.92	132.45	7,067.88	-616.53	674.10	-661.11	0.00	0.00	0.00
Start DLS 10.00 TFO 137.96									
7,150.00	6.60	143.91	7,087.27	-618.35	675.76	-662.73	10.00	-6.76	58.68
7,200.00	5.40	192.00	7,137.02	-622.97	676.96	-663.84	10.00	-2.40	96.18
7,250.00	8.04	229.69	7,186.70	-627.54	673.80	-660.59	10.00	5.28	75.37
7,300.00	12.24	245.42	7,235.91	-632.01	666.31	-653.00	10.00	8.41	31.46
7,350.00	16.89	252.91	7,284.30	-636.35	654.54	-641.14	10.00	9.28	14.99

# Civitas Resources

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well SKY RANCH 4-65 10-9-8-7 3BH
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5708.00usft
<b>Project:</b>	ARAPAHOE COUNTY	<b>MD Reference:</b>	KB 25' @ 5708.00usft
<b>Site:</b>	SEC 10-T4S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	SKY RANCH 4-65 10-9-8-7 3BH	<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)
7,400.00	21.68	257.21	7,331.48	-640.53	638.58	-625.10	10.00	9.60	8.59
7,450.00	26.55	260.00	7,377.10	-644.52	618.56	-605.00	10.00	9.74	5.58
7,500.00	31.46	261.97	7,420.82	-648.28	594.62	-580.98	10.00	9.82	3.95
7,550.00	36.39	263.46	7,462.29	-651.80	566.94	-553.24	10.00	9.86	2.97
7,600.00	41.34	264.64	7,501.21	-655.03	535.75	-521.98	10.00	9.89	2.35
7,650.00	46.29	265.60	7,537.28	-657.96	501.26	-487.45	10.00	9.91	1.93
7,700.00	51.26	266.42	7,570.22	-660.57	463.76	-449.90	10.00	9.92	1.63
7,750.00	56.22	267.13	7,599.79	-662.83	423.52	-409.62	10.00	9.93	1.42
7,800.00	61.19	267.76	7,625.75	-664.73	380.85	-366.92	10.00	9.94	1.26
7,802.61	61.45	267.79	7,627.00	-664.82	378.57	-364.64	10.00	9.94	1.20
Sharon Springs Member									
7,850.00	66.17	268.33	7,647.91	-666.25	336.07	-322.12	10.00	9.95	1.15
7,900.00	71.14	268.87	7,666.11	-667.39	289.53	-275.57	10.00	9.95	1.06
7,950.00	76.12	269.37	7,680.19	-668.12	241.58	-227.61	10.00	9.95	1.00
8,000.00	81.10	269.85	7,690.07	-668.46	192.58	-178.62	10.00	9.96	0.96
8,050.00	86.08	270.32	7,695.65	-668.38	142.91	-128.96	10.00	9.96	0.93
8,089.42	90.00	270.68	7,697.00	-668.04	103.53	-89.59	10.00	9.96	0.92
Start 20501.16 hold at 8089.42 MD - Niobrara Formation									
8,100.00	90.00	270.68	7,697.00	-667.92	92.94	-79.01	0.00	0.00	0.00
8,200.00	90.00	270.68	7,697.00	-666.73	-7.05	20.94	0.00	0.00	0.00
8,300.00	90.00	270.68	7,697.00	-665.54	-107.04	120.88	0.00	0.00	0.00
8,400.00	90.00	270.68	7,697.00	-664.36	-207.03	220.83	0.00	0.00	0.00
8,500.00	90.00	270.68	7,697.00	-663.17	-307.03	320.77	0.00	0.00	0.00
8,600.00	90.00	270.68	7,697.00	-661.99	-407.02	420.72	0.00	0.00	0.00
8,700.00	90.00	270.68	7,697.00	-660.80	-507.01	520.67	0.00	0.00	0.00
8,800.00	90.00	270.68	7,697.00	-659.62	-607.01	620.61	0.00	0.00	0.00
8,900.00	90.00	270.68	7,697.00	-658.43	-707.00	720.56	0.00	0.00	0.00
9,000.00	90.00	270.68	7,697.00	-657.24	-806.99	820.51	0.00	0.00	0.00
9,100.00	90.00	270.68	7,697.00	-656.06	-906.99	920.45	0.00	0.00	0.00
9,200.00	90.00	270.68	7,697.00	-654.87	-1,006.98	1,020.40	0.00	0.00	0.00
9,300.00	90.00	270.68	7,697.00	-653.69	-1,106.97	1,120.35	0.00	0.00	0.00
9,400.00	90.00	270.68	7,697.00	-652.50	-1,206.96	1,220.29	0.00	0.00	0.00
9,500.00	90.00	270.68	7,697.00	-651.32	-1,306.96	1,320.24	0.00	0.00	0.00
9,600.00	90.00	270.68	7,697.00	-650.13	-1,406.95	1,420.19	0.00	0.00	0.00
9,700.00	90.00	270.68	7,697.00	-648.94	-1,506.94	1,520.13	0.00	0.00	0.00
9,800.00	90.00	270.68	7,697.00	-647.76	-1,606.94	1,620.08	0.00	0.00	0.00
9,900.00	90.00	270.68	7,697.00	-646.57	-1,706.93	1,720.03	0.00	0.00	0.00
10,000.00	90.00	270.68	7,697.00	-645.39	-1,806.92	1,819.97	0.00	0.00	0.00
10,100.00	90.00	270.68	7,697.00	-644.20	-1,906.92	1,919.92	0.00	0.00	0.00
10,200.00	90.00	270.68	7,697.00	-643.02	-2,006.91	2,019.87	0.00	0.00	0.00
10,300.00	90.00	270.68	7,697.00	-641.83	-2,106.90	2,119.81	0.00	0.00	0.00
10,400.00	90.00	270.68	7,697.00	-640.64	-2,206.89	2,219.76	0.00	0.00	0.00
10,500.00	90.00	270.68	7,697.00	-639.46	-2,306.89	2,319.71	0.00	0.00	0.00
10,600.00	90.00	270.68	7,697.00	-638.27	-2,406.88	2,419.65	0.00	0.00	0.00
10,700.00	90.00	270.68	7,697.00	-637.09	-2,506.87	2,519.60	0.00	0.00	0.00
10,800.00	90.00	270.68	7,697.00	-635.90	-2,606.87	2,619.55	0.00	0.00	0.00
10,900.00	90.00	270.68	7,697.00	-634.72	-2,706.86	2,719.49	0.00	0.00	0.00
11,000.00	90.00	270.68	7,697.00	-633.53	-2,806.85	2,819.44	0.00	0.00	0.00
11,100.00	90.00	270.68	7,697.00	-632.34	-2,906.84	2,919.39	0.00	0.00	0.00
11,200.00	90.00	270.68	7,697.00	-631.16	-3,006.84	3,019.33	0.00	0.00	0.00
11,300.00	90.00	270.68	7,697.00	-629.97	-3,106.83	3,119.28	0.00	0.00	0.00
11,400.00	90.00	270.68	7,697.00	-628.79	-3,206.82	3,219.23	0.00	0.00	0.00
11,500.00	90.00	270.68	7,697.00	-627.60	-3,306.82	3,319.17	0.00	0.00	0.00
11,600.00	90.00	270.68	7,697.00	-626.42	-3,406.81	3,419.12	0.00	0.00	0.00

# Civitas Resources

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well SKY RANCH 4-65 10-9-8-7 3BH
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5708.00usft
<b>Project:</b>	ARAPAHOE COUNTY	<b>MD Reference:</b>	KB 25' @ 5708.00usft
<b>Site:</b>	SEC 10-T4S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	SKY RANCH 4-65 10-9-8-7 3BH	<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)
11,700.00	90.00	270.68	7,697.00	-625.23	-3,506.80	3,519.07	0.00	0.00	0.00
11,800.00	90.00	270.68	7,697.00	-624.04	-3,606.80	3,619.01	0.00	0.00	0.00
11,900.00	90.00	270.68	7,697.00	-622.86	-3,706.79	3,718.96	0.00	0.00	0.00
12,000.00	90.00	270.68	7,697.00	-621.67	-3,806.78	3,818.91	0.00	0.00	0.00
12,100.00	90.00	270.68	7,697.00	-620.49	-3,906.77	3,918.85	0.00	0.00	0.00
12,200.00	90.00	270.68	7,697.00	-619.30	-4,006.77	4,018.80	0.00	0.00	0.00
12,300.00	90.00	270.68	7,697.00	-618.11	-4,106.76	4,118.74	0.00	0.00	0.00
12,400.00	90.00	270.68	7,697.00	-616.93	-4,206.75	4,218.69	0.00	0.00	0.00
12,500.00	90.00	270.68	7,697.00	-615.74	-4,306.75	4,318.64	0.00	0.00	0.00
12,600.00	90.00	270.68	7,697.00	-614.56	-4,406.74	4,418.58	0.00	0.00	0.00
12,700.00	90.00	270.68	7,697.00	-613.37	-4,506.73	4,518.53	0.00	0.00	0.00
12,800.00	90.00	270.68	7,697.00	-612.19	-4,606.73	4,618.48	0.00	0.00	0.00
12,900.00	90.00	270.68	7,697.00	-611.00	-4,706.72	4,718.42	0.00	0.00	0.00
13,000.00	90.00	270.68	7,697.00	-609.81	-4,806.71	4,818.37	0.00	0.00	0.00
13,100.00	90.00	270.68	7,697.00	-608.63	-4,906.70	4,918.32	0.00	0.00	0.00
13,200.00	90.00	270.68	7,697.00	-607.44	-5,006.70	5,018.26	0.00	0.00	0.00
13,300.00	90.00	270.68	7,697.00	-606.26	-5,106.69	5,118.21	0.00	0.00	0.00
13,400.00	90.00	270.68	7,697.00	-605.07	-5,206.68	5,218.16	0.00	0.00	0.00
13,500.00	90.00	270.68	7,697.00	-603.89	-5,306.68	5,318.10	0.00	0.00	0.00
13,600.00	90.00	270.68	7,697.00	-602.70	-5,406.67	5,418.05	0.00	0.00	0.00
13,700.00	90.00	270.68	7,697.00	-601.51	-5,506.66	5,518.00	0.00	0.00	0.00
13,800.00	90.00	270.68	7,697.00	-600.33	-5,606.66	5,617.94	0.00	0.00	0.00
13,900.00	90.00	270.68	7,697.00	-599.14	-5,706.65	5,717.89	0.00	0.00	0.00
14,000.00	90.00	270.68	7,697.00	-597.96	-5,806.64	5,817.84	0.00	0.00	0.00
14,100.00	90.00	270.68	7,697.00	-596.77	-5,906.63	5,917.78	0.00	0.00	0.00
14,200.00	90.00	270.68	7,697.00	-595.59	-6,006.63	6,017.73	0.00	0.00	0.00
14,300.00	90.00	270.68	7,697.00	-594.40	-6,106.62	6,117.68	0.00	0.00	0.00
14,400.00	90.00	270.68	7,697.00	-593.21	-6,206.61	6,217.62	0.00	0.00	0.00
14,500.00	90.00	270.68	7,697.00	-592.03	-6,306.61	6,317.57	0.00	0.00	0.00
14,600.00	90.00	270.68	7,697.00	-590.84	-6,406.60	6,417.52	0.00	0.00	0.00
14,700.00	90.00	270.68	7,697.00	-589.66	-6,506.59	6,517.46	0.00	0.00	0.00
14,800.00	90.00	270.68	7,697.00	-588.47	-6,606.58	6,617.41	0.00	0.00	0.00
14,900.00	90.00	270.68	7,697.00	-587.29	-6,706.58	6,717.36	0.00	0.00	0.00
15,000.00	90.00	270.68	7,697.00	-586.10	-6,806.57	6,817.30	0.00	0.00	0.00
15,100.00	90.00	270.68	7,697.00	-584.91	-6,906.56	6,917.25	0.00	0.00	0.00
15,200.00	90.00	270.68	7,697.00	-583.73	-7,006.56	7,017.20	0.00	0.00	0.00
15,300.00	90.00	270.68	7,697.00	-582.54	-7,106.55	7,117.14	0.00	0.00	0.00
15,400.00	90.00	270.68	7,697.00	-581.36	-7,206.54	7,217.09	0.00	0.00	0.00
15,500.00	90.00	270.68	7,697.00	-580.17	-7,306.54	7,317.04	0.00	0.00	0.00
15,600.00	90.00	270.68	7,697.00	-578.99	-7,406.53	7,416.98	0.00	0.00	0.00
15,700.00	90.00	270.68	7,697.00	-577.80	-7,506.52	7,516.93	0.00	0.00	0.00
15,800.00	90.00	270.68	7,697.00	-576.61	-7,606.51	7,616.88	0.00	0.00	0.00
15,900.00	90.00	270.68	7,697.00	-575.43	-7,706.51	7,716.82	0.00	0.00	0.00
16,000.00	90.00	270.68	7,697.00	-574.24	-7,806.50	7,816.77	0.00	0.00	0.00
16,100.00	90.00	270.68	7,697.00	-573.06	-7,906.49	7,916.71	0.00	0.00	0.00
16,200.00	90.00	270.68	7,697.00	-571.87	-8,006.49	8,016.66	0.00	0.00	0.00
16,300.00	90.00	270.68	7,697.00	-570.69	-8,106.48	8,116.61	0.00	0.00	0.00
16,400.00	90.00	270.68	7,697.00	-569.50	-8,206.47	8,216.55	0.00	0.00	0.00
16,500.00	90.00	270.68	7,697.00	-568.31	-8,306.47	8,316.50	0.00	0.00	0.00
16,600.00	90.00	270.68	7,697.00	-567.13	-8,406.46	8,416.45	0.00	0.00	0.00
16,700.00	90.00	270.68	7,697.00	-565.94	-8,506.45	8,516.39	0.00	0.00	0.00
16,800.00	90.00	270.68	7,697.00	-564.76	-8,606.44	8,616.34	0.00	0.00	0.00
16,900.00	90.00	270.68	7,697.00	-563.57	-8,706.44	8,716.29	0.00	0.00	0.00
17,000.00	90.00	270.68	7,697.00	-562.38	-8,806.43	8,816.23	0.00	0.00	0.00

# Civitas Resources

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well SKY RANCH 4-65 10-9-8-7 3BH
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5708.00usft
<b>Project:</b>	ARAPAHOE COUNTY	<b>MD Reference:</b>	KB 25' @ 5708.00usft
<b>Site:</b>	SEC 10-T4S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	SKY RANCH 4-65 10-9-8-7 3BH	<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)	
17,100.00	90.00	270.68	7,697.00	-561.20	-8,906.42	8,916.18	0.00	0.00	0.00	
17,200.00	90.00	270.68	7,697.00	-560.01	-9,006.42	9,016.13	0.00	0.00	0.00	
17,300.00	90.00	270.68	7,697.00	-558.83	-9,106.41	9,116.07	0.00	0.00	0.00	
17,400.00	90.00	270.68	7,697.00	-557.64	-9,206.40	9,216.02	0.00	0.00	0.00	
17,500.00	90.00	270.68	7,697.00	-556.46	-9,306.40	9,315.97	0.00	0.00	0.00	
17,600.00	90.00	270.68	7,697.00	-555.27	-9,406.39	9,415.91	0.00	0.00	0.00	
17,700.00	90.00	270.68	7,697.00	-554.08	-9,506.38	9,515.86	0.00	0.00	0.00	
17,800.00	90.00	270.68	7,697.00	-552.90	-9,606.37	9,615.81	0.00	0.00	0.00	
17,900.00	90.00	270.68	7,697.00	-551.71	-9,706.37	9,715.75	0.00	0.00	0.00	
18,000.00	90.00	270.68	7,697.00	-550.53	-9,806.36	9,815.70	0.00	0.00	0.00	
18,100.00	90.00	270.68	7,697.00	-549.34	-9,906.35	9,915.65	0.00	0.00	0.00	
18,200.00	90.00	270.68	7,697.00	-548.16	-10,006.35	10,015.59	0.00	0.00	0.00	
18,300.00	90.00	270.68	7,697.00	-546.97	-10,106.34	10,115.54	0.00	0.00	0.00	
18,400.00	90.00	270.68	7,697.00	-545.78	-10,206.33	10,215.49	0.00	0.00	0.00	
18,500.00	90.00	270.68	7,697.00	-544.60	-10,306.32	10,315.43	0.00	0.00	0.00	
18,600.00	90.00	270.68	7,697.00	-543.41	-10,406.32	10,415.38	0.00	0.00	0.00	
18,700.00	90.00	270.68	7,697.00	-542.23	-10,506.31	10,515.33	0.00	0.00	0.00	
18,800.00	90.00	270.68	7,697.00	-541.04	-10,606.30	10,615.27	0.00	0.00	0.00	
18,900.00	90.00	270.68	7,697.00	-539.86	-10,706.30	10,715.22	0.00	0.00	0.00	
19,000.00	90.00	270.68	7,697.00	-538.67	-10,806.29	10,815.17	0.00	0.00	0.00	
19,100.00	90.00	270.68	7,697.00	-537.48	-10,906.28	10,915.11	0.00	0.00	0.00	
19,200.00	90.00	270.68	7,697.00	-536.30	-11,006.28	11,015.06	0.00	0.00	0.00	
19,300.00	90.00	270.68	7,697.00	-535.11	-11,106.27	11,115.01	0.00	0.00	0.00	
19,400.00	90.00	270.68	7,697.00	-533.93	-11,206.26	11,214.95	0.00	0.00	0.00	
19,500.00	90.00	270.68	7,697.00	-532.74	-11,306.25	11,314.90	0.00	0.00	0.00	
19,600.00	90.00	270.68	7,697.00	-531.56	-11,406.25	11,414.85	0.00	0.00	0.00	
19,700.00	90.00	270.68	7,697.00	-530.37	-11,506.24	11,514.79	0.00	0.00	0.00	
19,800.00	90.00	270.68	7,697.00	-529.18	-11,606.23	11,614.74	0.00	0.00	0.00	
19,900.00	90.00	270.68	7,697.00	-528.00	-11,706.23	11,714.68	0.00	0.00	0.00	
20,000.00	90.00	270.68	7,697.00	-526.81	-11,806.22	11,814.63	0.00	0.00	0.00	
20,100.00	90.00	270.68	7,697.00	-525.63	-11,906.21	11,914.58	0.00	0.00	0.00	
20,200.00	90.00	270.68	7,697.00	-524.44	-12,006.21	12,014.52	0.00	0.00	0.00	
20,300.00	90.00	270.68	7,697.00	-523.26	-12,106.20	12,114.47	0.00	0.00	0.00	
20,400.00	90.00	270.68	7,697.00	-522.07	-12,206.19	12,214.42	0.00	0.00	0.00	
20,500.00	90.00	270.68	7,697.00	-520.88	-12,306.18	12,314.36	0.00	0.00	0.00	
20,600.00	90.00	270.68	7,697.00	-519.70	-12,406.18	12,414.31	0.00	0.00	0.00	
20,700.00	90.00	270.68	7,697.00	-518.51	-12,506.17	12,514.26	0.00	0.00	0.00	
20,800.00	90.00	270.68	7,697.00	-517.33	-12,606.16	12,614.20	0.00	0.00	0.00	
20,900.00	90.00	270.68	7,697.00	-516.14	-12,706.16	12,714.15	0.00	0.00	0.00	
21,000.00	90.00	270.68	7,697.00	-514.96	-12,806.15	12,814.10	0.00	0.00	0.00	
21,100.00	90.00	270.68	7,697.00	-513.77	-12,906.14	12,914.04	0.00	0.00	0.00	
21,200.00	90.00	270.68	7,697.00	-512.58	-13,006.13	13,013.99	0.00	0.00	0.00	
21,300.00	90.00	270.68	7,697.00	-511.40	-13,106.13	13,113.94	0.00	0.00	0.00	
21,400.00	90.00	270.68	7,697.00	-510.21	-13,206.12	13,213.88	0.00	0.00	0.00	
21,500.00	90.00	270.68	7,697.00	-509.03	-13,306.11	13,313.83	0.00	0.00	0.00	
21,600.00	90.00	270.68	7,697.00	-507.84	-13,406.11	13,413.78	0.00	0.00	0.00	
21,700.00	90.00	270.68	7,697.00	-506.65	-13,506.10	13,513.72	0.00	0.00	0.00	
21,800.00	90.00	270.68	7,697.00	-505.47	-13,606.09	13,613.67	0.00	0.00	0.00	
21,900.00	90.00	270.68	7,697.00	-504.28	-13,706.09	13,713.62	0.00	0.00	0.00	
22,000.00	90.00	270.68	7,697.00	-503.10	-13,806.08	13,813.56	0.00	0.00	0.00	
22,100.00	90.00	270.68	7,697.00	-501.91	-13,906.07	13,913.51	0.00	0.00	0.00	
22,200.00	90.00	270.68	7,697.00	-500.73	-14,006.06	14,013.46	0.00	0.00	0.00	
22,300.00	90.00	270.68	7,697.00	-499.54	-14,106.06	14,113.40	0.00	0.00	0.00	
22,400.00	90.00	270.68	7,697.00	-498.35	-14,206.05	14,213.35	0.00	0.00	0.00	

# Civitas Resources

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well SKY RANCH 4-65 10-9-8-7 3BH
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5708.00usft
<b>Project:</b>	ARAPAHOE COUNTY	<b>MD Reference:</b>	KB 25' @ 5708.00usft
<b>Site:</b>	SEC 10-T4S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	SKY RANCH 4-65 10-9-8-7 3BH	<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)
22,500.00	90.00	270.68	7,697.00	-497.17	-14,306.04	14,313.30	0.00	0.00	0.00
22,600.00	90.00	270.68	7,697.00	-495.98	-14,406.04	14,413.24	0.00	0.00	0.00
22,700.00	90.00	270.68	7,697.00	-494.80	-14,506.03	14,513.19	0.00	0.00	0.00
22,800.00	90.00	270.68	7,697.00	-493.61	-14,606.02	14,613.14	0.00	0.00	0.00
22,900.00	90.00	270.68	7,697.00	-492.43	-14,706.02	14,713.08	0.00	0.00	0.00
23,000.00	90.00	270.68	7,697.00	-491.24	-14,806.01	14,813.03	0.00	0.00	0.00
23,100.00	90.00	270.68	7,697.00	-490.05	-14,906.00	14,912.98	0.00	0.00	0.00
23,200.00	90.00	270.68	7,697.00	-488.87	-15,005.99	15,012.92	0.00	0.00	0.00
23,300.00	90.00	270.68	7,697.00	-487.68	-15,105.99	15,112.87	0.00	0.00	0.00
23,400.00	90.00	270.68	7,697.00	-486.50	-15,205.98	15,212.81	0.00	0.00	0.00
23,500.00	90.00	270.68	7,697.00	-485.31	-15,305.97	15,312.76	0.00	0.00	0.00
23,600.00	90.00	270.68	7,697.00	-484.13	-15,405.97	15,412.71	0.00	0.00	0.00
23,700.00	90.00	270.68	7,697.00	-482.94	-15,505.96	15,512.65	0.00	0.00	0.00
23,800.00	90.00	270.68	7,697.00	-481.75	-15,605.95	15,612.60	0.00	0.00	0.00
23,900.00	90.00	270.68	7,697.00	-480.57	-15,705.95	15,712.55	0.00	0.00	0.00
24,000.00	90.00	270.68	7,697.00	-479.38	-15,805.94	15,812.49	0.00	0.00	0.00
24,100.00	90.00	270.68	7,697.00	-478.20	-15,905.93	15,912.44	0.00	0.00	0.00
24,200.00	90.00	270.68	7,697.00	-477.01	-16,005.92	16,012.39	0.00	0.00	0.00
24,300.00	90.00	270.68	7,697.00	-475.83	-16,105.92	16,112.33	0.00	0.00	0.00
24,400.00	90.00	270.68	7,697.00	-474.64	-16,205.91	16,212.28	0.00	0.00	0.00
24,500.00	90.00	270.68	7,697.00	-473.45	-16,305.90	16,312.23	0.00	0.00	0.00
24,600.00	90.00	270.68	7,697.00	-472.27	-16,405.90	16,412.17	0.00	0.00	0.00
24,700.00	90.00	270.68	7,697.00	-471.08	-16,505.89	16,512.12	0.00	0.00	0.00
24,800.00	90.00	270.68	7,697.00	-469.90	-16,605.88	16,612.07	0.00	0.00	0.00
24,900.00	90.00	270.68	7,697.00	-468.71	-16,705.87	16,712.01	0.00	0.00	0.00
25,000.00	90.00	270.68	7,697.00	-467.53	-16,805.87	16,811.96	0.00	0.00	0.00
25,100.00	90.00	270.68	7,697.00	-466.34	-16,905.86	16,911.91	0.00	0.00	0.00
25,200.00	90.00	270.68	7,697.00	-465.15	-17,005.85	17,011.85	0.00	0.00	0.00
25,300.00	90.00	270.68	7,697.00	-463.97	-17,105.85	17,111.80	0.00	0.00	0.00
25,400.00	90.00	270.68	7,697.00	-462.78	-17,205.84	17,211.75	0.00	0.00	0.00
25,500.00	90.00	270.68	7,697.00	-461.60	-17,305.83	17,311.69	0.00	0.00	0.00
25,600.00	90.00	270.68	7,697.00	-460.41	-17,405.83	17,411.64	0.00	0.00	0.00
25,700.00	90.00	270.68	7,697.00	-459.23	-17,505.82	17,511.59	0.00	0.00	0.00
25,800.00	90.00	270.68	7,697.00	-458.04	-17,605.81	17,611.53	0.00	0.00	0.00
25,900.00	90.00	270.68	7,697.00	-456.85	-17,705.80	17,711.48	0.00	0.00	0.00
26,000.00	90.00	270.68	7,697.00	-455.67	-17,805.80	17,811.43	0.00	0.00	0.00
26,100.00	90.00	270.68	7,697.00	-454.48	-17,905.79	17,911.37	0.00	0.00	0.00
26,200.00	90.00	270.68	7,697.00	-453.30	-18,005.78	18,011.32	0.00	0.00	0.00
26,300.00	90.00	270.68	7,697.00	-452.11	-18,105.78	18,111.27	0.00	0.00	0.00
26,400.00	90.00	270.68	7,697.00	-450.92	-18,205.77	18,211.21	0.00	0.00	0.00
26,500.00	90.00	270.68	7,697.00	-449.74	-18,305.76	18,311.16	0.00	0.00	0.00
26,600.00	90.00	270.68	7,697.00	-448.55	-18,405.76	18,411.11	0.00	0.00	0.00
26,700.00	90.00	270.68	7,697.00	-447.37	-18,505.75	18,511.05	0.00	0.00	0.00
26,800.00	90.00	270.68	7,697.00	-446.18	-18,605.74	18,611.00	0.00	0.00	0.00
26,900.00	90.00	270.68	7,697.00	-445.00	-18,705.73	18,710.95	0.00	0.00	0.00
27,000.00	90.00	270.68	7,697.00	-443.81	-18,805.73	18,810.89	0.00	0.00	0.00
27,100.00	90.00	270.68	7,697.00	-442.62	-18,905.72	18,910.84	0.00	0.00	0.00
27,200.00	90.00	270.68	7,697.00	-441.44	-19,005.71	19,010.78	0.00	0.00	0.00
27,300.00	90.00	270.68	7,697.00	-440.25	-19,105.71	19,110.73	0.00	0.00	0.00
27,400.00	90.00	270.68	7,697.00	-439.07	-19,205.70	19,210.68	0.00	0.00	0.00
27,500.00	90.00	270.68	7,697.00	-437.88	-19,305.69	19,310.62	0.00	0.00	0.00
27,600.00	90.00	270.68	7,697.00	-436.70	-19,405.69	19,410.57	0.00	0.00	0.00
27,700.00	90.00	270.68	7,697.00	-435.51	-19,505.68	19,510.52	0.00	0.00	0.00
27,800.00	90.00	270.68	7,697.00	-434.32	-19,605.67	19,610.46	0.00	0.00	0.00

# Civitas Resources

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well SKY RANCH 4-65 10-9-8-7 3BH
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5708.00usft
<b>Project:</b>	ARAPAHOE COUNTY	<b>MD Reference:</b>	KB 25' @ 5708.00usft
<b>Site:</b>	SEC 10-T4S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	SKY RANCH 4-65 10-9-8-7 3BH	<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)
27,900.00	90.00	270.68	7,697.00	-433.14	-19,705.66	19,710.41	0.00	0.00	0.00
28,000.00	90.00	270.68	7,697.00	-431.95	-19,805.66	19,810.36	0.00	0.00	0.00
28,100.00	90.00	270.68	7,697.00	-430.77	-19,905.65	19,910.30	0.00	0.00	0.00
28,200.00	90.00	270.68	7,697.00	-429.58	-20,005.64	20,010.25	0.00	0.00	0.00
28,300.00	90.00	270.68	7,697.00	-428.40	-20,105.64	20,110.20	0.00	0.00	0.00
28,400.00	90.00	270.68	7,697.00	-427.21	-20,205.63	20,210.14	0.00	0.00	0.00
28,500.00	90.00	270.68	7,697.00	-426.02	-20,305.62	20,310.09	0.00	0.00	0.00
28,590.58	90.00	270.68	7,697.00	-424.95	-20,396.20	20,400.62	0.00	0.00	0.00
TD at 28590.58									

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-SKY RANCH 4-65 10-9-8-7 3BH	0.00	0.00	7,697.00	-424.95	-20,396.20	1,686,729.22	3,220,859.79	39.716254°N	104.714899°W
- plan hits target center									
- Point									
LP-SKY RANCH 4-65 10-9-8-7 3BH	0.00	0.00	7,697.00	-668.04	103.53	1,686,679.66	3,241,360.76	39.715609°N	104.642029°W
- plan hits target center									
- Point									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
24.00	24.00	Denver				
708.38	707.00	Arapahoe				
1,314.15	1,307.00	Laramie-Fox Hills Formation				
2,020.89	2,007.00	Pierre Formation				
2,470.17	2,452.00	Upper Pierre aquifer				
3,111.28	3,087.00	Base of Upper Pierre aquifer				
4,191.57	4,157.00	Larimer ("Parkman") sandstone				
4,322.82	4,287.00	Pierre Formation				
5,413.21	5,367.00	Terry ("Sussex") sandstone				
5,524.27	5,477.00	Pierre Formation				
6,241.10	6,187.00	Hygiene ("Shannon") sandstone				
6,503.61	6,447.00	Pierre Formation				
7,802.61	7,627.00	Sharon Springs Member				
8,089.42	7,697.00	Niobrara Formation				

# Civitas Resources

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well SKY RANCH 4-65 10-9-8-7 3BH
<b>Company:</b>	CRESTONE PEAK RESOURCES	<b>TVD Reference:</b>	KB 25' @ 5708.00usft
<b>Project:</b>	ARAPAHOE COUNTY	<b>MD Reference:</b>	KB 25' @ 5708.00usft
<b>Site:</b>	SEC 10-T4S-R65W	<b>North Reference:</b>	True
<b>Well:</b>	SKY RANCH 4-65 10-9-8-7 3BH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	PROPOSAL 1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
300.00	300.00	0.00	0.00	Start Build 2.00
695.82	694.56	-18.43	20.15	Start 6434.64 hold at 695.82 MD
7,130.46	7,067.88	-616.53	674.10	Start DLS 10.00 TFO 137.96
8,089.42	7,697.00	-668.04	103.53	Start 20501.16 hold at 8089.42 MD
28,590.58	7,697.00	-424.95	-20,396.20	TD at 28590.58