

CRESTONE PEAK RESOURCES

ARAPAHOE COUNTY

SEC 10-T4S-R65W

SKY RANCH 4-65 10-9-8-7 4AH

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 4AH
Wellbore: OWB
Design: PROPOSAL 1



Azimuths to True North
Magnetic North: 7.51°
Magnetic Field
Strength: 51386.7nT
Dip Angle: 66.04°
Date: 6/27/2023
Model: IGRF2020

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

				5682.20			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		Slot
0.00	0.00	1687286.58	3241250.94	39.717278°N	104.642399°W		

SECTION DETAILS

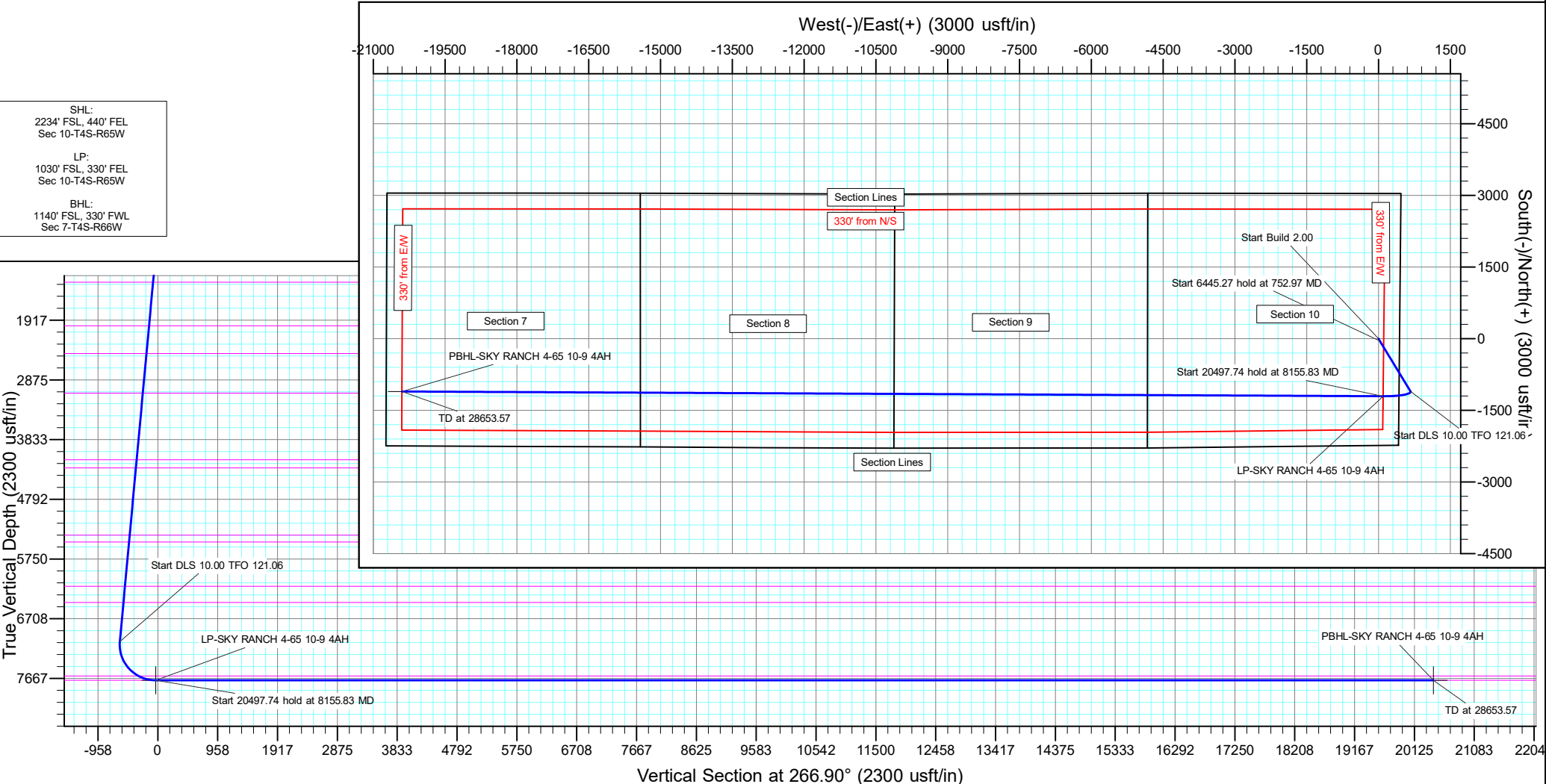
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
3	752.97	11.06	148.73	749.54	-45.48	27.61	2.00	148.73	-25.11	
4	7198.24	11.06	148.73	7075.12	-1102.29	669.30	0.00	0.00	-608.72	
5	8155.83	90.00	270.28	7697.00	-1203.15	98.75	10.00	121.06	-33.54	LP-SKY RANCH 4-65 10-9 4AH
6	28653.57	90.00	270.28	7697.00	-1104.67	-20398.76	0.00	0.00	20428.65	PBHL-SKY RANCH 4-65 10-9 4AH

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	Start Build 2.00
752.97	11.06	148.73	749.54	-45.48	27.61	-25.11	53.20	Start 6445.27 hold at 752.97 MD
7198.24	11.06	148.73	7075.12	-1102.29	669.30	-608.72	1289.58	Start DLS 10.00 TFO 121.06
8155.83	90.00	270.28	7697.00	-1203.15	98.75	-33.54	1894.06	Start 20497.74 hold at 8155.83 MD
28653.57	90.00	270.28	7697.00	-1104.67	-20398.76	20428.65	22391.80	TD at 28653.57

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
LP-SKY RANCH 4-65 10-9 4AH - plan hits target center	7697.00	-1203.15	98.75	1686084.42	3241361.04	39.713975°N	104.642048°W	Point
PBHL-SKY RANCH 4-65 10-9 4AH - plan hits target center	7697.00	-1104.67	-20398.76	1685989.40	3220863.65	39.714223°N	104.714908°W	Point



Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well SKY RANCH 4-65 10-9-8-7 4AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5707.20usft
Project:	ARAPAHOE COUNTY	MD Reference:	KB 25' @ 5707.20usft
Site:	SEC 10-T4S-R65W	North Reference:	True
Well:	SKY RANCH 4-65 10-9-8-7 4AH	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

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

Site		SEC 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 4AH					
Well Position	+N/-S	2,229.30 usft	Northing:	1,687,286.58 usft	Latitude:	39.717278°N
	+E/-W	-418.88 usft	Easting:	3,241,250.94 usft	Longitude:	104.642399°W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	5,682.20 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	6/27/2023	7.51	66.04	51,386.65933357

Design	PROPOSAL 1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	266.90

Plan Survey Tool Program	Date	6/27/2023			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	28,653.57	PROPOSAL 1 (OWB)	MWD OWSG	
				OWSG MWD - Standard	

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	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
752.97	11.06	148.73	749.54	-45.48	27.61	2.00	2.00	0.00	148.73	
7,198.24	11.06	148.73	7,075.12	-1,102.29	669.30	0.00	0.00	0.00	0.00	
8,155.83	90.00	270.28	7,697.00	-1,203.15	98.75	10.00	8.24	12.69	121.06	LP-SKY RANCH 4-65
28,653.57	90.00	270.28	7,697.00	-1,104.67	-20,398.76	0.00	0.00	0.00	0.00	PBHL-SKY RANCH 4

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well SKY RANCH 4-65 10-9-8-7 4AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5707.20usft
Project:	ARAPAHOE COUNTY	MD Reference:	KB 25' @ 5707.20usft
Site:	SEC 10-T4S-R65W	North Reference:	True
Well:	SKY RANCH 4-65 10-9-8-7 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
Start Build 2.00									
300.00	2.00	148.73	299.98	-1.49	0.91	-0.82	2.00	2.00	0.00
400.00	4.00	148.73	399.84	-5.97	3.62	-3.29	2.00	2.00	0.00
500.00	6.00	148.73	499.45	-13.41	8.15	-7.41	2.00	2.00	0.00
600.00	8.00	148.73	598.70	-23.83	14.47	-13.16	2.00	2.00	0.00
700.00	10.00	148.73	697.47	-37.20	22.59	-20.54	2.00	2.00	0.00
709.68	10.19	148.73	707.00	-38.65	23.47	-21.35	2.00	2.00	0.00
Arapahoe									
752.97	11.06	148.73	749.54	-45.48	27.61	-25.11	2.00	2.00	0.00
Start 6445.27 hold at 752.97 MD									
800.00	11.06	148.73	795.70	-53.19	32.29	-29.37	0.00	0.00	0.00
900.00	11.06	148.73	893.84	-69.58	42.25	-38.43	0.00	0.00	0.00
1,000.00	11.06	148.73	991.98	-85.98	52.21	-47.48	0.00	0.00	0.00
1,100.00	11.06	148.73	1,090.13	-102.38	62.16	-56.54	0.00	0.00	0.00
1,200.00	11.06	148.73	1,188.27	-118.77	72.12	-65.59	0.00	0.00	0.00
1,300.00	11.06	148.73	1,286.41	-135.17	82.07	-74.65	0.00	0.00	0.00
1,320.98	11.06	148.73	1,307.00	-138.61	84.16	-76.54	0.00	0.00	0.00
Laramie-Fox Hills Formation									
1,400.00	11.06	148.73	1,384.56	-151.57	92.03	-83.70	0.00	0.00	0.00
1,500.00	11.06	148.73	1,482.70	-167.96	101.99	-92.75	0.00	0.00	0.00
1,600.00	11.06	148.73	1,580.84	-184.36	111.94	-101.81	0.00	0.00	0.00
1,700.00	11.06	148.73	1,678.99	-200.76	121.90	-110.86	0.00	0.00	0.00
1,800.00	11.06	148.73	1,777.13	-217.16	131.85	-119.92	0.00	0.00	0.00
1,900.00	11.06	148.73	1,875.27	-233.55	141.81	-128.97	0.00	0.00	0.00
2,000.00	11.06	148.73	1,973.41	-249.95	151.77	-138.03	0.00	0.00	0.00
2,034.22	11.06	148.73	2,007.00	-255.56	155.17	-141.13	0.00	0.00	0.00
Pierre Formation									
2,100.00	11.06	148.73	2,071.56	-266.35	161.72	-147.08	0.00	0.00	0.00
2,200.00	11.06	148.73	2,169.70	-282.74	171.68	-156.14	0.00	0.00	0.00
2,300.00	11.06	148.73	2,267.84	-299.14	181.63	-165.19	0.00	0.00	0.00
2,400.00	11.06	148.73	2,365.99	-315.54	191.59	-174.25	0.00	0.00	0.00
2,487.64	11.06	148.73	2,452.00	-329.91	200.32	-182.18	0.00	0.00	0.00
Upper Pierre aquifer									
2,500.00	11.06	148.73	2,464.13	-331.93	201.55	-183.30	0.00	0.00	0.00
2,600.00	11.06	148.73	2,562.27	-348.33	211.50	-192.36	0.00	0.00	0.00
2,700.00	11.06	148.73	2,660.41	-364.73	221.46	-201.41	0.00	0.00	0.00
2,800.00	11.06	148.73	2,758.56	-381.12	231.41	-210.47	0.00	0.00	0.00
2,900.00	11.06	148.73	2,856.70	-397.52	241.37	-219.52	0.00	0.00	0.00
3,000.00	11.06	148.73	2,954.84	-413.92	251.33	-228.58	0.00	0.00	0.00
3,100.00	11.06	148.73	3,052.99	-430.31	261.28	-237.63	0.00	0.00	0.00
3,134.66	11.06	148.73	3,087.00	-436.00	264.73	-240.77	0.00	0.00	0.00
Base of Upper Pierre aquifer									
3,200.00	11.06	148.73	3,151.13	-446.71	271.24	-246.69	0.00	0.00	0.00
3,300.00	11.06	148.73	3,249.27	-463.11	281.19	-255.74	0.00	0.00	0.00
3,400.00	11.06	148.73	3,347.41	-479.50	291.15	-264.80	0.00	0.00	0.00
3,500.00	11.06	148.73	3,445.56	-495.90	301.11	-273.85	0.00	0.00	0.00
3,600.00	11.06	148.73	3,543.70	-512.30	311.06	-282.90	0.00	0.00	0.00
3,700.00	11.06	148.73	3,641.84	-528.69	321.02	-291.96	0.00	0.00	0.00

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well SKY RANCH 4-65 10-9-8-7 4AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5707.20usft
Project:	ARAPAHOE COUNTY	MD Reference:	KB 25' @ 5707.20usft
Site:	SEC 10-T4S-R65W	North Reference:	True
Well:	SKY RANCH 4-65 10-9-8-7 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	11.06	148.73	3,739.99	-545.09	330.97	-301.01	0.00	0.00	0.00	
3,900.00	11.06	148.73	3,838.13	-561.49	340.93	-310.07	0.00	0.00	0.00	
4,000.00	11.06	148.73	3,936.27	-577.88	350.89	-319.12	0.00	0.00	0.00	
4,100.00	11.06	148.73	4,034.41	-594.28	360.84	-328.18	0.00	0.00	0.00	
4,200.00	11.06	148.73	4,132.56	-610.68	370.80	-337.23	0.00	0.00	0.00	
4,224.91	11.06	148.73	4,157.00	-614.76	373.28	-339.49	0.00	0.00	0.00	
Larimer ("Parkman") sandstone										
4,300.00	11.06	148.73	4,230.70	-627.07	380.75	-346.29	0.00	0.00	0.00	
4,357.37	11.06	148.73	4,287.00	-636.48	386.47	-351.48	0.00	0.00	0.00	
Pierre Formation										
4,400.00	11.06	148.73	4,328.84	-643.47	390.71	-355.34	0.00	0.00	0.00	
4,500.00	11.06	148.73	4,426.99	-659.87	400.67	-364.40	0.00	0.00	0.00	
4,600.00	11.06	148.73	4,525.13	-676.27	410.62	-373.45	0.00	0.00	0.00	
4,700.00	11.06	148.73	4,623.27	-692.66	420.58	-382.51	0.00	0.00	0.00	
4,800.00	11.06	148.73	4,721.41	-709.06	430.53	-391.56	0.00	0.00	0.00	
4,900.00	11.06	148.73	4,819.56	-725.46	440.49	-400.62	0.00	0.00	0.00	
5,000.00	11.06	148.73	4,917.70	-741.85	450.45	-409.67	0.00	0.00	0.00	
5,100.00	11.06	148.73	5,015.84	-758.25	460.40	-418.73	0.00	0.00	0.00	
5,200.00	11.06	148.73	5,113.99	-774.65	470.36	-427.78	0.00	0.00	0.00	
5,300.00	11.06	148.73	5,212.13	-791.04	480.31	-436.84	0.00	0.00	0.00	
5,400.00	11.06	148.73	5,310.27	-807.44	490.27	-445.89	0.00	0.00	0.00	
5,457.80	11.06	148.73	5,367.00	-816.92	496.02	-451.12	0.00	0.00	0.00	
Terry ("Sussex") sandstone										
5,500.00	11.06	148.73	5,408.41	-823.84	500.23	-454.95	0.00	0.00	0.00	
5,569.88	11.06	148.73	5,477.00	-835.29	507.18	-461.27	0.00	0.00	0.00	
Pierre Formation										
5,600.00	11.06	148.73	5,506.56	-840.23	510.18	-464.00	0.00	0.00	0.00	
5,700.00	11.06	148.73	5,604.70	-856.63	520.14	-473.05	0.00	0.00	0.00	
5,800.00	11.06	148.73	5,702.84	-873.03	530.09	-482.11	0.00	0.00	0.00	
5,900.00	11.06	148.73	5,800.99	-889.42	540.05	-491.16	0.00	0.00	0.00	
6,000.00	11.06	148.73	5,899.13	-905.82	550.01	-500.22	0.00	0.00	0.00	
6,100.00	11.06	148.73	5,997.27	-922.22	559.96	-509.27	0.00	0.00	0.00	
6,200.00	11.06	148.73	6,095.41	-938.61	569.92	-518.33	0.00	0.00	0.00	
6,293.32	11.06	148.73	6,187.00	-953.91	579.21	-526.78	0.00	0.00	0.00	
Hygiene ("Shannon") sandstone										
6,300.00	11.06	148.73	6,193.56	-955.01	579.87	-527.38	0.00	0.00	0.00	
6,400.00	11.06	148.73	6,291.70	-971.41	589.83	-536.44	0.00	0.00	0.00	
6,500.00	11.06	148.73	6,389.84	-987.80	599.79	-545.49	0.00	0.00	0.00	
6,558.24	11.06	148.73	6,447.00	-997.35	605.58	-550.77	0.00	0.00	0.00	
Pierre Formation										
6,600.00	11.06	148.73	6,487.99	-1,004.20	609.74	-554.55	0.00	0.00	0.00	
6,700.00	11.06	148.73	6,586.13	-1,020.60	619.70	-563.60	0.00	0.00	0.00	
6,800.00	11.06	148.73	6,684.27	-1,036.99	629.65	-572.66	0.00	0.00	0.00	
6,900.00	11.06	148.73	6,782.41	-1,053.39	639.61	-581.71	0.00	0.00	0.00	
7,000.00	11.06	148.73	6,880.56	-1,069.79	649.57	-590.77	0.00	0.00	0.00	
7,100.00	11.06	148.73	6,978.70	-1,086.18	659.52	-599.82	0.00	0.00	0.00	
7,198.24	11.06	148.73	7,075.12	-1,102.29	669.30	-608.72	0.00	0.00	0.00	
Start DLS 10.00 TFO 121.06										
7,200.00	10.97	149.53	7,076.84	-1,102.58	669.47	-608.87	10.00	-5.10	45.02	
7,250.00	9.48	176.73	7,126.08	-1,110.80	672.12	-611.07	10.00	-2.99	54.41	
7,300.00	10.43	205.45	7,175.35	-1,119.00	670.41	-608.92	10.00	1.91	57.44	
7,350.00	13.32	225.54	7,224.30	-1,127.12	664.35	-602.43	10.00	5.77	40.18	
7,400.00	17.19	237.69	7,272.54	-1,135.11	653.99	-591.66	10.00	7.74	24.30	

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well SKY RANCH 4-65 10-9-8-7 4AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5707.20usft
Project:	ARAPAHOE COUNTY	MD Reference:	KB 25' @ 5707.20usft
Site:	SEC 10-T4S-R65W	North Reference:	True
Well:	SKY RANCH 4-65 10-9-8-7 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)
7,450.00	21.52	245.28	7,319.71	-1,142.90	639.41	-576.68	10.00	8.66	15.19
7,500.00	26.08	250.38	7,365.45	-1,150.43	620.72	-557.60	10.00	9.12	10.19
7,550.00	30.77	254.03	7,409.42	-1,157.64	598.06	-534.58	10.00	9.38	7.30
7,600.00	35.54	256.79	7,451.27	-1,164.48	571.60	-507.79	10.00	9.54	5.52
7,650.00	40.35	258.97	7,490.69	-1,170.91	541.54	-477.43	10.00	9.63	4.36
7,700.00	45.21	260.76	7,527.38	-1,176.86	508.12	-443.74	10.00	9.70	3.57
7,750.00	50.08	262.26	7,561.06	-1,182.29	471.59	-406.97	10.00	9.75	3.02
7,800.00	54.97	263.57	7,591.47	-1,187.17	432.22	-367.39	10.00	9.78	2.61
7,850.00	59.88	264.73	7,618.38	-1,191.45	390.32	-325.32	10.00	9.81	2.32
7,867.64	61.61	265.11	7,627.00	-1,192.81	374.99	-309.94	10.00	9.82	2.16
Sharon Springs Member									
7,900.00	64.79	265.78	7,641.59	-1,195.11	346.20	-281.07	10.00	9.83	2.06
7,950.00	69.71	266.74	7,660.92	-1,198.10	300.21	-234.98	10.00	9.84	1.93
8,000.00	74.63	267.65	7,676.23	-1,200.43	252.68	-187.40	10.00	9.85	1.81
8,050.00	79.56	268.52	7,687.39	-1,202.05	203.98	-138.69	10.00	9.86	1.73
8,100.00	84.49	269.36	7,694.32	-1,202.97	154.49	-89.22	10.00	9.86	1.68
8,150.00	89.42	270.18	7,696.97	-1,203.17	104.58	-39.36	10.00	9.86	1.65
8,155.83	90.00	270.28	7,697.00	-1,203.15	98.75	-33.54	10.00	9.86	1.64
Start 20497.74 hold at 8155.83 MD - Niobrara Formation									
8,200.00	90.00	270.28	7,697.00	-1,202.93	54.58	10.55	0.00	0.00	0.00
8,300.00	90.00	270.28	7,697.00	-1,202.45	-45.42	110.38	0.00	0.00	0.00
8,400.00	90.00	270.28	7,697.00	-1,201.97	-145.42	210.20	0.00	0.00	0.00
8,500.00	90.00	270.28	7,697.00	-1,201.49	-245.42	310.03	0.00	0.00	0.00
8,600.00	90.00	270.28	7,697.00	-1,201.01	-345.42	409.86	0.00	0.00	0.00
8,700.00	90.00	270.28	7,697.00	-1,200.53	-445.42	509.68	0.00	0.00	0.00
8,800.00	90.00	270.28	7,697.00	-1,200.05	-545.41	609.51	0.00	0.00	0.00
8,900.00	90.00	270.28	7,697.00	-1,199.57	-645.41	709.34	0.00	0.00	0.00
9,000.00	90.00	270.28	7,697.00	-1,199.09	-745.41	809.16	0.00	0.00	0.00
9,100.00	90.00	270.28	7,697.00	-1,198.61	-845.41	908.99	0.00	0.00	0.00
9,200.00	90.00	270.28	7,697.00	-1,198.13	-945.41	1,008.81	0.00	0.00	0.00
9,300.00	90.00	270.28	7,697.00	-1,197.65	-1,045.41	1,108.64	0.00	0.00	0.00
9,400.00	90.00	270.28	7,697.00	-1,197.17	-1,145.41	1,208.47	0.00	0.00	0.00
9,500.00	90.00	270.28	7,697.00	-1,196.69	-1,245.41	1,308.29	0.00	0.00	0.00
9,600.00	90.00	270.28	7,697.00	-1,196.21	-1,345.41	1,408.12	0.00	0.00	0.00
9,700.00	90.00	270.28	7,697.00	-1,195.73	-1,445.40	1,507.95	0.00	0.00	0.00
9,800.00	90.00	270.28	7,697.00	-1,195.25	-1,545.40	1,607.77	0.00	0.00	0.00
9,900.00	90.00	270.28	7,697.00	-1,194.77	-1,645.40	1,707.60	0.00	0.00	0.00
10,000.00	90.00	270.28	7,697.00	-1,194.29	-1,745.40	1,807.43	0.00	0.00	0.00
10,100.00	90.00	270.28	7,697.00	-1,193.81	-1,845.40	1,907.25	0.00	0.00	0.00
10,200.00	90.00	270.28	7,697.00	-1,193.33	-1,945.40	2,007.08	0.00	0.00	0.00
10,300.00	90.00	270.28	7,697.00	-1,192.85	-2,045.40	2,106.91	0.00	0.00	0.00
10,400.00	90.00	270.28	7,697.00	-1,192.37	-2,145.40	2,206.73	0.00	0.00	0.00
10,500.00	90.00	270.28	7,697.00	-1,191.88	-2,245.39	2,306.56	0.00	0.00	0.00
10,600.00	90.00	270.28	7,697.00	-1,191.40	-2,345.39	2,406.39	0.00	0.00	0.00
10,700.00	90.00	270.28	7,697.00	-1,190.92	-2,445.39	2,506.21	0.00	0.00	0.00
10,800.00	90.00	270.28	7,697.00	-1,190.44	-2,545.39	2,606.04	0.00	0.00	0.00
10,900.00	90.00	270.28	7,697.00	-1,189.96	-2,645.39	2,705.87	0.00	0.00	0.00
11,000.00	90.00	270.28	7,697.00	-1,189.48	-2,745.39	2,805.69	0.00	0.00	0.00
11,100.00	90.00	270.28	7,697.00	-1,189.00	-2,845.39	2,905.52	0.00	0.00	0.00
11,200.00	90.00	270.28	7,697.00	-1,188.52	-2,945.39	3,005.35	0.00	0.00	0.00
11,300.00	90.00	270.28	7,697.00	-1,188.04	-3,045.39	3,105.17	0.00	0.00	0.00
11,400.00	90.00	270.28	7,697.00	-1,187.56	-3,145.38	3,205.00	0.00	0.00	0.00
11,500.00	90.00	270.28	7,697.00	-1,187.08	-3,245.38	3,304.83	0.00	0.00	0.00
11,600.00	90.00	270.28	7,697.00	-1,186.60	-3,345.38	3,404.65	0.00	0.00	0.00

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well SKY RANCH 4-65 10-9-8-7 4AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5707.20usft
Project:	ARAPAHOE COUNTY	MD Reference:	KB 25' @ 5707.20usft
Site:	SEC 10-T4S-R65W	North Reference:	True
Well:	SKY RANCH 4-65 10-9-8-7 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)	
11,700.00	90.00	270.28	7,697.00	-1,186.12	-3,445.38	3,504.48	0.00	0.00	0.00	
11,800.00	90.00	270.28	7,697.00	-1,185.64	-3,545.38	3,604.31	0.00	0.00	0.00	
11,900.00	90.00	270.28	7,697.00	-1,185.16	-3,645.38	3,704.13	0.00	0.00	0.00	
12,000.00	90.00	270.28	7,697.00	-1,184.68	-3,745.38	3,803.96	0.00	0.00	0.00	
12,100.00	90.00	270.28	7,697.00	-1,184.20	-3,845.38	3,903.79	0.00	0.00	0.00	
12,200.00	90.00	270.28	7,697.00	-1,183.72	-3,945.38	4,003.61	0.00	0.00	0.00	
12,300.00	90.00	270.28	7,697.00	-1,183.24	-4,045.37	4,103.44	0.00	0.00	0.00	
12,400.00	90.00	270.28	7,697.00	-1,182.76	-4,145.37	4,203.26	0.00	0.00	0.00	
12,500.00	90.00	270.28	7,697.00	-1,182.28	-4,245.37	4,303.09	0.00	0.00	0.00	
12,600.00	90.00	270.28	7,697.00	-1,181.80	-4,345.37	4,402.92	0.00	0.00	0.00	
12,700.00	90.00	270.28	7,697.00	-1,181.32	-4,445.37	4,502.74	0.00	0.00	0.00	
12,800.00	90.00	270.28	7,697.00	-1,180.83	-4,545.37	4,602.57	0.00	0.00	0.00	
12,900.00	90.00	270.28	7,697.00	-1,180.35	-4,645.37	4,702.40	0.00	0.00	0.00	
13,000.00	90.00	270.28	7,697.00	-1,179.87	-4,745.37	4,802.22	0.00	0.00	0.00	
13,100.00	90.00	270.28	7,697.00	-1,179.39	-4,845.36	4,902.05	0.00	0.00	0.00	
13,200.00	90.00	270.28	7,697.00	-1,178.91	-4,945.36	5,001.88	0.00	0.00	0.00	
13,300.00	90.00	270.28	7,697.00	-1,178.43	-5,045.36	5,101.70	0.00	0.00	0.00	
13,400.00	90.00	270.28	7,697.00	-1,177.95	-5,145.36	5,201.53	0.00	0.00	0.00	
13,500.00	90.00	270.28	7,697.00	-1,177.47	-5,245.36	5,301.36	0.00	0.00	0.00	
13,600.00	90.00	270.28	7,697.00	-1,176.99	-5,345.36	5,401.18	0.00	0.00	0.00	
13,700.00	90.00	270.28	7,697.00	-1,176.51	-5,445.36	5,501.01	0.00	0.00	0.00	
13,800.00	90.00	270.28	7,697.00	-1,176.03	-5,545.36	5,600.84	0.00	0.00	0.00	
13,900.00	90.00	270.28	7,697.00	-1,175.55	-5,645.36	5,700.66	0.00	0.00	0.00	
14,000.00	90.00	270.28	7,697.00	-1,175.07	-5,745.35	5,800.49	0.00	0.00	0.00	
14,100.00	90.00	270.28	7,697.00	-1,174.59	-5,845.35	5,900.32	0.00	0.00	0.00	
14,200.00	90.00	270.28	7,697.00	-1,174.11	-5,945.35	6,000.14	0.00	0.00	0.00	
14,300.00	90.00	270.28	7,697.00	-1,173.63	-6,045.35	6,099.97	0.00	0.00	0.00	
14,400.00	90.00	270.28	7,697.00	-1,173.15	-6,145.35	6,199.80	0.00	0.00	0.00	
14,500.00	90.00	270.28	7,697.00	-1,172.67	-6,245.35	6,299.62	0.00	0.00	0.00	
14,600.00	90.00	270.28	7,697.00	-1,172.19	-6,345.35	6,399.45	0.00	0.00	0.00	
14,700.00	90.00	270.28	7,697.00	-1,171.71	-6,445.35	6,499.28	0.00	0.00	0.00	
14,800.00	90.00	270.28	7,697.00	-1,171.23	-6,545.35	6,599.10	0.00	0.00	0.00	
14,900.00	90.00	270.28	7,697.00	-1,170.75	-6,645.34	6,698.93	0.00	0.00	0.00	
15,000.00	90.00	270.28	7,697.00	-1,170.27	-6,745.34	6,798.76	0.00	0.00	0.00	
15,100.00	90.00	270.28	7,697.00	-1,169.78	-6,845.34	6,898.58	0.00	0.00	0.00	
15,200.00	90.00	270.28	7,697.00	-1,169.30	-6,945.34	6,998.41	0.00	0.00	0.00	
15,300.00	90.00	270.28	7,697.00	-1,168.82	-7,045.34	7,098.24	0.00	0.00	0.00	
15,400.00	90.00	270.28	7,697.00	-1,168.34	-7,145.34	7,198.06	0.00	0.00	0.00	
15,500.00	90.00	270.28	7,697.00	-1,167.86	-7,245.34	7,297.89	0.00	0.00	0.00	
15,600.00	90.00	270.28	7,697.00	-1,167.38	-7,345.34	7,397.71	0.00	0.00	0.00	
15,700.00	90.00	270.28	7,697.00	-1,166.90	-7,445.33	7,497.54	0.00	0.00	0.00	
15,800.00	90.00	270.28	7,697.00	-1,166.42	-7,545.33	7,597.37	0.00	0.00	0.00	
15,900.00	90.00	270.28	7,697.00	-1,165.94	-7,645.33	7,697.19	0.00	0.00	0.00	
16,000.00	90.00	270.28	7,697.00	-1,165.46	-7,745.33	7,797.02	0.00	0.00	0.00	
16,100.00	90.00	270.28	7,697.00	-1,164.98	-7,845.33	7,896.85	0.00	0.00	0.00	
16,200.00	90.00	270.28	7,697.00	-1,164.50	-7,945.33	7,996.67	0.00	0.00	0.00	
16,300.00	90.00	270.28	7,697.00	-1,164.02	-8,045.33	8,096.50	0.00	0.00	0.00	
16,400.00	90.00	270.28	7,697.00	-1,163.54	-8,145.33	8,196.33	0.00	0.00	0.00	
16,500.00	90.00	270.28	7,697.00	-1,163.06	-8,245.33	8,296.15	0.00	0.00	0.00	
16,600.00	90.00	270.28	7,697.00	-1,162.58	-8,345.32	8,395.98	0.00	0.00	0.00	
16,700.00	90.00	270.28	7,697.00	-1,162.10	-8,445.32	8,495.81	0.00	0.00	0.00	
16,800.00	90.00	270.28	7,697.00	-1,161.62	-8,545.32	8,595.63	0.00	0.00	0.00	
16,900.00	90.00	270.28	7,697.00	-1,161.14	-8,645.32	8,695.46	0.00	0.00	0.00	
17,000.00	90.00	270.28	7,697.00	-1,160.66	-8,745.32	8,795.29	0.00	0.00	0.00	

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well SKY RANCH 4-65 10-9-8-7 4AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5707.20usft
Project:	ARAPAHOE COUNTY	MD Reference:	KB 25' @ 5707.20usft
Site:	SEC 10-T4S-R65W	North Reference:	True
Well:	SKY RANCH 4-65 10-9-8-7 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)	
17,100.00	90.00	270.28	7,697.00	-1,160.18	-8,845.32	8,895.11	0.00	0.00	0.00	
17,200.00	90.00	270.28	7,697.00	-1,159.70	-8,945.32	8,994.94	0.00	0.00	0.00	
17,300.00	90.00	270.28	7,697.00	-1,159.22	-9,045.32	9,094.77	0.00	0.00	0.00	
17,400.00	90.00	270.28	7,697.00	-1,158.73	-9,145.32	9,194.59	0.00	0.00	0.00	
17,500.00	90.00	270.28	7,697.00	-1,158.25	-9,245.31	9,294.42	0.00	0.00	0.00	
17,600.00	90.00	270.28	7,697.00	-1,157.77	-9,345.31	9,394.25	0.00	0.00	0.00	
17,700.00	90.00	270.28	7,697.00	-1,157.29	-9,445.31	9,494.07	0.00	0.00	0.00	
17,800.00	90.00	270.28	7,697.00	-1,156.81	-9,545.31	9,593.90	0.00	0.00	0.00	
17,900.00	90.00	270.28	7,697.00	-1,156.33	-9,645.31	9,693.73	0.00	0.00	0.00	
18,000.00	90.00	270.28	7,697.00	-1,155.85	-9,745.31	9,793.55	0.00	0.00	0.00	
18,100.00	90.00	270.28	7,697.00	-1,155.37	-9,845.31	9,893.38	0.00	0.00	0.00	
18,200.00	90.00	270.28	7,697.00	-1,154.89	-9,945.31	9,993.21	0.00	0.00	0.00	
18,300.00	90.00	270.28	7,697.00	-1,154.41	-10,045.30	10,093.03	0.00	0.00	0.00	
18,400.00	90.00	270.28	7,697.00	-1,153.93	-10,145.30	10,192.86	0.00	0.00	0.00	
18,500.00	90.00	270.28	7,697.00	-1,153.45	-10,245.30	10,292.69	0.00	0.00	0.00	
18,600.00	90.00	270.28	7,697.00	-1,152.97	-10,345.30	10,392.51	0.00	0.00	0.00	
18,700.00	90.00	270.28	7,697.00	-1,152.49	-10,445.30	10,492.34	0.00	0.00	0.00	
18,800.00	90.00	270.28	7,697.00	-1,152.01	-10,545.30	10,592.16	0.00	0.00	0.00	
18,900.00	90.00	270.28	7,697.00	-1,151.53	-10,645.30	10,691.99	0.00	0.00	0.00	
19,000.00	90.00	270.28	7,697.00	-1,151.05	-10,745.30	10,791.82	0.00	0.00	0.00	
19,100.00	90.00	270.28	7,697.00	-1,150.57	-10,845.30	10,891.64	0.00	0.00	0.00	
19,200.00	90.00	270.28	7,697.00	-1,150.09	-10,945.29	10,991.47	0.00	0.00	0.00	
19,300.00	90.00	270.28	7,697.00	-1,149.61	-11,045.29	11,091.30	0.00	0.00	0.00	
19,400.00	90.00	270.28	7,697.00	-1,149.13	-11,145.29	11,191.12	0.00	0.00	0.00	
19,500.00	90.00	270.28	7,697.00	-1,148.65	-11,245.29	11,290.95	0.00	0.00	0.00	
19,600.00	90.00	270.28	7,697.00	-1,148.17	-11,345.29	11,390.78	0.00	0.00	0.00	
19,700.00	90.00	270.28	7,697.00	-1,147.68	-11,445.29	11,490.60	0.00	0.00	0.00	
19,800.00	90.00	270.28	7,697.00	-1,147.20	-11,545.29	11,590.43	0.00	0.00	0.00	
19,900.00	90.00	270.28	7,697.00	-1,146.72	-11,645.29	11,690.26	0.00	0.00	0.00	
20,000.00	90.00	270.28	7,697.00	-1,146.24	-11,745.29	11,790.08	0.00	0.00	0.00	
20,100.00	90.00	270.28	7,697.00	-1,145.76	-11,845.28	11,889.91	0.00	0.00	0.00	
20,200.00	90.00	270.28	7,697.00	-1,145.28	-11,945.28	11,989.74	0.00	0.00	0.00	
20,300.00	90.00	270.28	7,697.00	-1,144.80	-12,045.28	12,089.56	0.00	0.00	0.00	
20,400.00	90.00	270.28	7,697.00	-1,144.32	-12,145.28	12,189.39	0.00	0.00	0.00	
20,500.00	90.00	270.28	7,697.00	-1,143.84	-12,245.28	12,289.22	0.00	0.00	0.00	
20,600.00	90.00	270.28	7,697.00	-1,143.36	-12,345.28	12,389.04	0.00	0.00	0.00	
20,700.00	90.00	270.28	7,697.00	-1,142.88	-12,445.28	12,488.87	0.00	0.00	0.00	
20,800.00	90.00	270.28	7,697.00	-1,142.40	-12,545.28	12,588.70	0.00	0.00	0.00	
20,900.00	90.00	270.28	7,697.00	-1,141.92	-12,645.28	12,688.52	0.00	0.00	0.00	
21,000.00	90.00	270.28	7,697.00	-1,141.44	-12,745.27	12,788.35	0.00	0.00	0.00	
21,100.00	90.00	270.28	7,697.00	-1,140.96	-12,845.27	12,888.18	0.00	0.00	0.00	
21,200.00	90.00	270.28	7,697.00	-1,140.48	-12,945.27	12,988.00	0.00	0.00	0.00	
21,300.00	90.00	270.28	7,697.00	-1,140.00	-13,045.27	13,087.83	0.00	0.00	0.00	
21,400.00	90.00	270.28	7,697.00	-1,139.52	-13,145.27	13,187.66	0.00	0.00	0.00	
21,500.00	90.00	270.28	7,697.00	-1,139.04	-13,245.27	13,287.48	0.00	0.00	0.00	
21,600.00	90.00	270.28	7,697.00	-1,138.56	-13,345.27	13,387.31	0.00	0.00	0.00	
21,700.00	90.00	270.28	7,697.00	-1,138.08	-13,445.27	13,487.13	0.00	0.00	0.00	
21,800.00	90.00	270.28	7,697.00	-1,137.60	-13,545.26	13,586.96	0.00	0.00	0.00	
21,900.00	90.00	270.28	7,697.00	-1,137.11	-13,645.26	13,686.79	0.00	0.00	0.00	
22,000.00	90.00	270.28	7,697.00	-1,136.63	-13,745.26	13,786.61	0.00	0.00	0.00	
22,100.00	90.00	270.28	7,697.00	-1,136.15	-13,845.26	13,886.44	0.00	0.00	0.00	
22,200.00	90.00	270.28	7,697.00	-1,135.67	-13,945.26	13,986.27	0.00	0.00	0.00	
22,300.00	90.00	270.28	7,697.00	-1,135.19	-14,045.26	14,086.09	0.00	0.00	0.00	
22,400.00	90.00	270.28	7,697.00	-1,134.71	-14,145.26	14,185.92	0.00	0.00	0.00	

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well SKY RANCH 4-65 10-9-8-7 4AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5707.20usft
Project:	ARAPAHOE COUNTY	MD Reference:	KB 25' @ 5707.20usft
Site:	SEC 10-T4S-R65W	North Reference:	True
Well:	SKY RANCH 4-65 10-9-8-7 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)	
22,500.00	90.00	270.28	7,697.00	-1,134.23	-14,245.26	14,285.75	0.00	0.00	0.00	
22,600.00	90.00	270.28	7,697.00	-1,133.75	-14,345.26	14,385.57	0.00	0.00	0.00	
22,700.00	90.00	270.28	7,697.00	-1,133.27	-14,445.25	14,485.40	0.00	0.00	0.00	
22,800.00	90.00	270.28	7,697.00	-1,132.79	-14,545.25	14,585.23	0.00	0.00	0.00	
22,900.00	90.00	270.28	7,697.00	-1,132.31	-14,645.25	14,685.05	0.00	0.00	0.00	
23,000.00	90.00	270.28	7,697.00	-1,131.83	-14,745.25	14,784.88	0.00	0.00	0.00	
23,100.00	90.00	270.28	7,697.00	-1,131.35	-14,845.25	14,884.71	0.00	0.00	0.00	
23,200.00	90.00	270.28	7,697.00	-1,130.87	-14,945.25	14,984.53	0.00	0.00	0.00	
23,300.00	90.00	270.28	7,697.00	-1,130.39	-15,045.25	15,084.36	0.00	0.00	0.00	
23,400.00	90.00	270.28	7,697.00	-1,129.91	-15,145.25	15,184.19	0.00	0.00	0.00	
23,500.00	90.00	270.28	7,697.00	-1,129.43	-15,245.25	15,284.01	0.00	0.00	0.00	
23,600.00	90.00	270.28	7,697.00	-1,128.95	-15,345.24	15,383.84	0.00	0.00	0.00	
23,700.00	90.00	270.28	7,697.00	-1,128.47	-15,445.24	15,483.67	0.00	0.00	0.00	
23,800.00	90.00	270.28	7,697.00	-1,127.99	-15,545.24	15,583.49	0.00	0.00	0.00	
23,900.00	90.00	270.28	7,697.00	-1,127.51	-15,645.24	15,683.32	0.00	0.00	0.00	
24,000.00	90.00	270.28	7,697.00	-1,127.03	-15,745.24	15,783.15	0.00	0.00	0.00	
24,100.00	90.00	270.28	7,697.00	-1,126.55	-15,845.24	15,882.97	0.00	0.00	0.00	
24,200.00	90.00	270.28	7,697.00	-1,126.06	-15,945.24	15,982.80	0.00	0.00	0.00	
24,300.00	90.00	270.28	7,697.00	-1,125.58	-16,045.24	16,082.63	0.00	0.00	0.00	
24,400.00	90.00	270.28	7,697.00	-1,125.10	-16,145.23	16,182.45	0.00	0.00	0.00	
24,500.00	90.00	270.28	7,697.00	-1,124.62	-16,245.23	16,282.28	0.00	0.00	0.00	
24,600.00	90.00	270.28	7,697.00	-1,124.14	-16,345.23	16,382.11	0.00	0.00	0.00	
24,700.00	90.00	270.28	7,697.00	-1,123.66	-16,445.23	16,481.93	0.00	0.00	0.00	
24,800.00	90.00	270.28	7,697.00	-1,123.18	-16,545.23	16,581.76	0.00	0.00	0.00	
24,900.00	90.00	270.28	7,697.00	-1,122.70	-16,645.23	16,681.58	0.00	0.00	0.00	
25,000.00	90.00	270.28	7,697.00	-1,122.22	-16,745.23	16,781.41	0.00	0.00	0.00	
25,100.00	90.00	270.28	7,697.00	-1,121.74	-16,845.23	16,881.24	0.00	0.00	0.00	
25,200.00	90.00	270.28	7,697.00	-1,121.26	-16,945.23	16,981.06	0.00	0.00	0.00	
25,300.00	90.00	270.28	7,697.00	-1,120.78	-17,045.22	17,080.89	0.00	0.00	0.00	
25,400.00	90.00	270.28	7,697.00	-1,120.30	-17,145.22	17,180.72	0.00	0.00	0.00	
25,500.00	90.00	270.28	7,697.00	-1,119.82	-17,245.22	17,280.54	0.00	0.00	0.00	
25,600.00	90.00	270.28	7,697.00	-1,119.34	-17,345.22	17,380.37	0.00	0.00	0.00	
25,700.00	90.00	270.28	7,697.00	-1,118.86	-17,445.22	17,480.20	0.00	0.00	0.00	
25,800.00	90.00	270.28	7,697.00	-1,118.38	-17,545.22	17,580.02	0.00	0.00	0.00	
25,900.00	90.00	270.28	7,697.00	-1,117.90	-17,645.22	17,679.85	0.00	0.00	0.00	
26,000.00	90.00	270.28	7,697.00	-1,117.42	-17,745.22	17,779.68	0.00	0.00	0.00	
26,100.00	90.00	270.28	7,697.00	-1,116.94	-17,845.22	17,879.50	0.00	0.00	0.00	
26,200.00	90.00	270.28	7,697.00	-1,116.46	-17,945.21	17,979.33	0.00	0.00	0.00	
26,300.00	90.00	270.28	7,697.00	-1,115.98	-18,045.21	18,079.16	0.00	0.00	0.00	
26,400.00	90.00	270.28	7,697.00	-1,115.50	-18,145.21	18,178.98	0.00	0.00	0.00	
26,500.00	90.00	270.28	7,697.00	-1,115.01	-18,245.21	18,278.81	0.00	0.00	0.00	
26,600.00	90.00	270.28	7,697.00	-1,114.53	-18,345.21	18,378.64	0.00	0.00	0.00	
26,700.00	90.00	270.28	7,697.00	-1,114.05	-18,445.21	18,478.46	0.00	0.00	0.00	
26,800.00	90.00	270.28	7,697.00	-1,113.57	-18,545.21	18,578.29	0.00	0.00	0.00	
26,900.00	90.00	270.28	7,697.00	-1,113.09	-18,645.21	18,678.12	0.00	0.00	0.00	
27,000.00	90.00	270.28	7,697.00	-1,112.61	-18,745.20	18,777.94	0.00	0.00	0.00	
27,100.00	90.00	270.28	7,697.00	-1,112.13	-18,845.20	18,877.77	0.00	0.00	0.00	
27,200.00	90.00	270.28	7,697.00	-1,111.65	-18,945.20	18,977.60	0.00	0.00	0.00	
27,300.00	90.00	270.28	7,697.00	-1,111.17	-19,045.20	19,077.42	0.00	0.00	0.00	
27,400.00	90.00	270.28	7,697.00	-1,110.69	-19,145.20	19,177.25	0.00	0.00	0.00	
27,500.00	90.00	270.28	7,697.00	-1,110.21	-19,245.20	19,277.08	0.00	0.00	0.00	
27,600.00	90.00	270.28	7,697.00	-1,109.73	-19,345.20	19,376.90	0.00	0.00	0.00	
27,700.00	90.00	270.28	7,697.00	-1,109.25	-19,445.20	19,476.73	0.00	0.00	0.00	
27,800.00	90.00	270.28	7,697.00	-1,108.77	-19,545.20	19,576.56	0.00	0.00	0.00	

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well SKY RANCH 4-65 10-9-8-7 4AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5707.20usft
Project:	ARAPAHOE COUNTY	MD Reference:	KB 25' @ 5707.20usft
Site:	SEC 10-T4S-R65W	North Reference:	True
Well:	SKY RANCH 4-65 10-9-8-7 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)	
27,900.00	90.00	270.28	7,697.00	-1,108.29	-19,645.19	19,676.38	0.00	0.00	0.00	
28,000.00	90.00	270.28	7,697.00	-1,107.81	-19,745.19	19,776.21	0.00	0.00	0.00	
28,100.00	90.00	270.28	7,697.00	-1,107.33	-19,845.19	19,876.03	0.00	0.00	0.00	
28,200.00	90.00	270.28	7,697.00	-1,106.85	-19,945.19	19,975.86	0.00	0.00	0.00	
28,300.00	90.00	270.28	7,697.00	-1,106.37	-20,045.19	20,075.69	0.00	0.00	0.00	
28,400.00	90.00	270.28	7,697.00	-1,105.89	-20,145.19	20,175.51	0.00	0.00	0.00	
28,500.00	90.00	270.28	7,697.00	-1,105.41	-20,245.19	20,275.34	0.00	0.00	0.00	
28,600.00	90.00	270.28	7,697.00	-1,104.93	-20,345.19	20,375.17	0.00	0.00	0.00	
28,653.57	90.00	270.28	7,697.00	-1,104.67	-20,398.76	20,428.65	0.00	0.00	0.00	
TD at 28653.57										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
PBHL-SKY RANCH 4-65 10-9-8-7 4AH - hit/miss target - Shape - Point	0.00	0.00	7,697.00	-1,104.67	-20,398.76	1,685,989.40	3,220,863.65	39.714223°N	104.714908°W	
LP-SKY RANCH 4-65 10-9-8-7 4AH - hit/miss target - Shape - Point	0.00	0.00	7,697.00	-1,203.15	98.75	1,686,084.42	3,241,361.04	39.713975°N	104.642048°W	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
24.00	24.00	Denver				
709.68	707.00	Arapahoe				
1,320.98	1,307.00	Laramie-Fox Hills Formation				
2,034.22	2,007.00	Pierre Formation				
2,487.64	2,452.00	Upper Pierre aquifer				
3,134.66	3,087.00	Base of Upper Pierre aquifer				
4,224.91	4,157.00	Larimer ("Parkman") sandstone				
4,357.37	4,287.00	Pierre Formation				
5,457.80	5,367.00	Terry ("Sussex") sandstone				
5,569.88	5,477.00	Pierre Formation				
6,293.32	6,187.00	Hygiene ("Shannon") sandstone				
6,558.24	6,447.00	Pierre Formation				
7,867.64	7,627.00	Sharon Springs Member				
8,155.83	7,697.00	Niobrara Formation				

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well SKY RANCH 4-65 10-9-8-7 4AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5707.20usft
Project:	ARAPAHOE COUNTY	MD Reference:	KB 25' @ 5707.20usft
Site:	SEC 10-T4S-R65W	North Reference:	True
Well:	SKY RANCH 4-65 10-9-8-7 4AH	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
200.00	200.00	0.00	0.00	Start Build 2.00
752.97	749.54	-45.48	27.61	Start 6445.27 hold at 752.97 MD
7,198.24	7,075.12	-1,102.29	669.30	Start DLS 10.00 TFO 121.06
8,155.83	7,697.00	-1,203.15	98.75	Start 20497.74 hold at 8155.83 MD
28,653.57	7,697.00	-1,104.67	-20,398.76	TD at 28653.57