

CRESTONE PEAK RESOURCES

ARAPAHOE COUNTY

SEC 10-T4S-R65W

SKY RANCH 4-65 10-9-8-7 3AH

OWB

Plan: PROPOSAL 1

Standard Planning Report

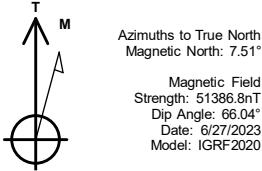
27 June, 2023

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 3AH
Wellbore: OWB
Design: PROPOSAL 1



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

+N/-S	+E/-W	Northing	Easting	5683.20	Latitude	Longitude	Slot
0.00	0.00	1687366.72	3241250.75		39.717498°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	400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	
3	699.98	6.00	97.15	699.43	-1.95	15.57	2.00	97.15	-15.60	
4	7100.13	6.00	97.15	7064.53	-85.21	679.31	0.00	0.00	-680.55	
5	8059.79	90.00	271.11	7697.00	-81.20	109.43	10.00	173.92	-110.67	LP-SKY RANCH 4-65 10-9 3AH
6	28566.39	90.00	271.11	7697.00	314.88	-20393.34	0.00	0.00	20395.77	PBHL-SKY RANCH 4-65 10-9 3AH

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	Start Build 2.00
699.98	6.00	97.15	699.43	-1.95	15.57	-15.60	15.69	Start 6400.16 hold at 699.98 MD
7100.13	6.00	97.15	7064.53	-85.21	679.31	-680.55	684.64	Start DLS 10.00 TFO 173.92
8059.79	90.00	271.11	7697.00	-81.20	109.43	-110.67	1261.67	Start 20506.60 hold at 8059.79 MD
28566.39	90.00	271.11	7697.00	314.88	-20393.34	20395.77	21768.27	TD at 28566.39

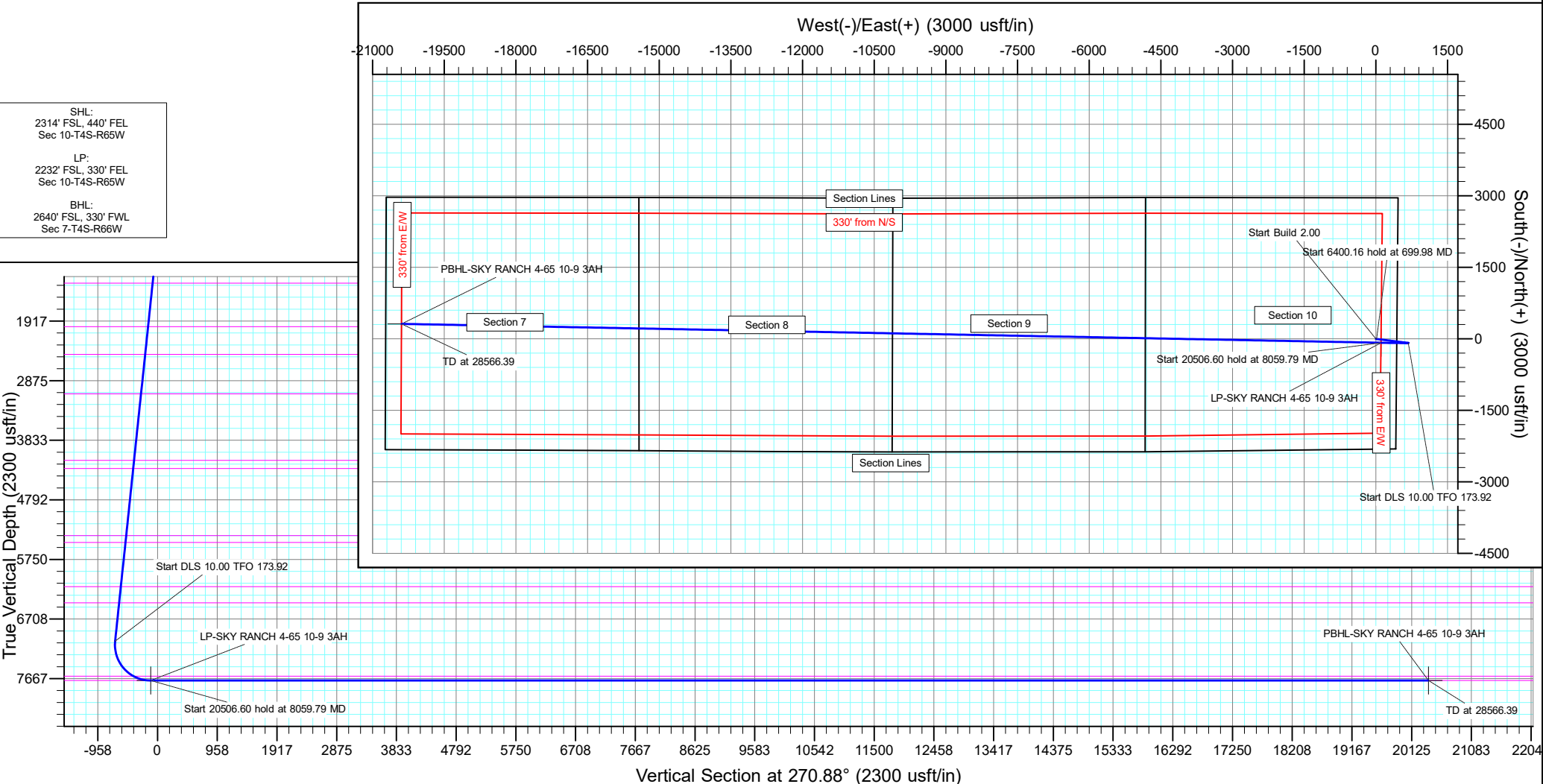
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
LP-SKY RANCH 4-65 10-9 3AH	7697.00	-81.20	109.43	1687286.55	3241360.94	39.717275°N	104.642008°W	Point
- plan hits target center								
PBHL-SKY RANCH 4-65 10-9 3AH	7697.00	314.88	-20393.34	1687489.07	3220855.47	39.718340°N	104.714891°W	Point
- plan hits target center								

SHL:
2314' FSL, 440' FEL
Sec 10-T4S-R65W

LP:
2232' FSL, 330' FEL
Sec 10-T4S-R65W

BHL:
2640' FSL, 330' FWL
Sec 7-T4S-R66W



Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well SKY RANCH 4-65 10-9-8-7 3AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5708.20usft
Project:	ARAPAHOE COUNTY	MD Reference:	KB 25' @ 5708.20usft
Site:	SEC 10-T4S-R65W	North Reference:	True
Well:	SKY RANCH 4-65 10-9-8-7 3AH	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 3AH					
Well Position	+N/-S	2,309.43 usft	Northing:	1,687,366.72 usft	Latitude:	39.717498°N
	+E/-W	-418.31 usft	Easting:	3,241,250.75 usft	Longitude:	104.642397°W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	5,683.20 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	6/27/2023	7.51	66.04	51,386.76826030

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	270.88

Plan Survey Tool Program	Date	6/27/2023			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	28,566.39	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	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
699.98	6.00	97.15	699.43	-1.95	15.57	2.00	2.00	0.00	97.15	
7,100.13	6.00	97.15	7,064.53	-85.21	679.31	0.00	0.00	0.00	0.00	
8,059.79	90.00	271.11	7,697.00	-81.20	109.43	10.00	8.75	18.13	173.92	LP-SKY RANCH 4-65
28,566.39	90.00	271.11	7,697.00	314.88	-20,393.34	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 3AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5708.20usft
Project:	ARAPAHOE COUNTY	MD Reference:	KB 25' @ 5708.20usft
Site:	SEC 10-T4S-R65W	North Reference:	True
Well:	SKY RANCH 4-65 10-9-8-7 3AH	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PROPOSAL 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00
Denver									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
500.00	2.00	97.15	499.98	-0.22	1.73	-1.73	2.00	2.00	0.00
600.00	4.00	97.15	599.84	-0.87	6.92	-6.94	2.00	2.00	0.00
699.98	6.00	97.15	699.43	-1.95	15.57	-15.60	2.00	2.00	0.00
Start 6400.16 hold at 699.98 MD									
707.59	6.00	97.15	707.00	-2.05	16.36	-16.39	0.00	0.00	0.00
Arapahoe									
800.00	6.00	97.15	798.90	-3.25	25.94	-25.99	0.00	0.00	0.00
900.00	6.00	97.15	898.36	-4.56	36.31	-36.38	0.00	0.00	0.00
1,000.00	6.00	97.15	997.81	-5.86	46.68	-46.77	0.00	0.00	0.00
1,100.00	6.00	97.15	1,097.26	-7.16	57.05	-57.16	0.00	0.00	0.00
1,200.00	6.00	97.15	1,196.71	-8.46	67.43	-67.55	0.00	0.00	0.00
1,300.00	6.00	97.15	1,296.17	-9.76	77.80	-77.94	0.00	0.00	0.00
1,310.89	6.00	97.15	1,307.00	-9.90	78.93	-79.07	0.00	0.00	0.00
Laramie-Fox Hills Formation									
1,400.00	6.00	97.15	1,395.62	-11.06	88.17	-88.33	0.00	0.00	0.00
1,500.00	6.00	97.15	1,495.07	-12.36	98.54	-98.72	0.00	0.00	0.00
1,600.00	6.00	97.15	1,594.52	-13.66	108.91	-109.11	0.00	0.00	0.00
1,700.00	6.00	97.15	1,693.97	-14.96	119.28	-119.50	0.00	0.00	0.00
1,800.00	6.00	97.15	1,793.43	-16.26	129.65	-129.89	0.00	0.00	0.00
1,900.00	6.00	97.15	1,892.88	-17.56	140.02	-140.28	0.00	0.00	0.00
2,000.00	6.00	97.15	1,992.33	-18.86	150.39	-150.66	0.00	0.00	0.00
2,014.75	6.00	97.15	2,007.00	-19.06	151.92	-152.20	0.00	0.00	0.00
Pierre Formation									
2,100.00	6.00	97.15	2,091.78	-20.17	160.76	-161.05	0.00	0.00	0.00
2,200.00	6.00	97.15	2,191.24	-21.47	171.13	-171.44	0.00	0.00	0.00
2,300.00	6.00	97.15	2,290.69	-22.77	181.50	-181.83	0.00	0.00	0.00
2,400.00	6.00	97.15	2,390.14	-24.07	191.87	-192.22	0.00	0.00	0.00
2,462.20	6.00	97.15	2,452.00	-24.88	198.33	-198.69	0.00	0.00	0.00
Upper Pierre aquifer									
2,500.00	6.00	97.15	2,489.59	-25.37	202.25	-202.61	0.00	0.00	0.00
2,600.00	6.00	97.15	2,589.05	-26.67	212.62	-213.00	0.00	0.00	0.00
2,700.00	6.00	97.15	2,688.50	-27.97	222.99	-223.39	0.00	0.00	0.00
2,800.00	6.00	97.15	2,787.95	-29.27	233.36	-233.78	0.00	0.00	0.00
2,900.00	6.00	97.15	2,887.40	-30.57	243.73	-244.17	0.00	0.00	0.00
3,000.00	6.00	97.15	2,986.85	-31.87	254.10	-254.56	0.00	0.00	0.00
3,100.00	6.00	97.15	3,086.31	-33.17	264.47	-264.95	0.00	0.00	0.00
3,100.70	6.00	97.15	3,087.00	-33.18	264.54	-265.02	0.00	0.00	0.00
Base of Upper Pierre aquifer									
3,200.00	6.00	97.15	3,185.76	-34.48	274.84	-275.34	0.00	0.00	0.00
3,300.00	6.00	97.15	3,285.21	-35.78	285.21	-285.73	0.00	0.00	0.00
3,400.00	6.00	97.15	3,384.66	-37.08	295.58	-296.12	0.00	0.00	0.00
3,500.00	6.00	97.15	3,484.12	-38.38	305.95	-306.51	0.00	0.00	0.00
3,600.00	6.00	97.15	3,583.57	-39.68	316.32	-316.90	0.00	0.00	0.00
3,700.00	6.00	97.15	3,683.02	-40.98	326.69	-327.29	0.00	0.00	0.00
3,800.00	6.00	97.15	3,782.47	-42.28	337.07	-337.68	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 3AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5708.20usft
Project:	ARAPAHOE COUNTY	MD Reference:	KB 25' @ 5708.20usft
Site:	SEC 10-T4S-R65W	North Reference:	True
Well:	SKY RANCH 4-65 10-9-8-7 3AH	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)	
3,900.00	6.00	97.15	3,881.92	-43.58	347.44	-348.07	0.00	0.00	0.00	
4,000.00	6.00	97.15	3,981.38	-44.88	357.81	-358.46	0.00	0.00	0.00	
4,100.00	6.00	97.15	4,080.83	-46.18	368.18	-368.85	0.00	0.00	0.00	
4,176.59	6.00	97.15	4,157.00	-47.18	376.12	-376.80	0.00	0.00	0.00	
Larimer ("Parkman") sandstone										
4,200.00	6.00	97.15	4,180.28	-47.48	378.55	-379.24	0.00	0.00	0.00	
4,300.00	6.00	97.15	4,279.73	-48.79	388.92	-389.63	0.00	0.00	0.00	
4,307.31	6.00	97.15	4,287.00	-48.88	389.68	-390.38	0.00	0.00	0.00	
Pierre Formation										
4,400.00	6.00	97.15	4,379.19	-50.09	399.29	-400.02	0.00	0.00	0.00	
4,500.00	6.00	97.15	4,478.64	-51.39	409.66	-410.40	0.00	0.00	0.00	
4,600.00	6.00	97.15	4,578.09	-52.69	420.03	-420.79	0.00	0.00	0.00	
4,700.00	6.00	97.15	4,677.54	-53.99	430.40	-431.18	0.00	0.00	0.00	
4,800.00	6.00	97.15	4,777.00	-55.29	440.77	-441.57	0.00	0.00	0.00	
4,900.00	6.00	97.15	4,876.45	-56.59	451.14	-451.96	0.00	0.00	0.00	
5,000.00	6.00	97.15	4,975.90	-57.89	461.51	-462.35	0.00	0.00	0.00	
5,100.00	6.00	97.15	5,075.35	-59.19	471.88	-472.74	0.00	0.00	0.00	
5,200.00	6.00	97.15	5,174.80	-60.49	482.26	-483.13	0.00	0.00	0.00	
5,300.00	6.00	97.15	5,274.26	-61.79	492.63	-493.52	0.00	0.00	0.00	
5,393.25	6.00	97.15	5,367.00	-63.01	502.30	-503.21	0.00	0.00	0.00	
Terry ("Sussex") sandstone										
5,400.00	6.00	97.15	5,373.71	-63.09	503.00	-503.91	0.00	0.00	0.00	
5,500.00	6.00	97.15	5,473.16	-64.40	513.37	-514.30	0.00	0.00	0.00	
5,503.86	6.00	97.15	5,477.00	-64.45	513.77	-514.70	0.00	0.00	0.00	
Pierre Formation										
5,600.00	6.00	97.15	5,572.61	-65.70	523.74	-524.69	0.00	0.00	0.00	
5,700.00	6.00	97.15	5,672.07	-67.00	534.11	-535.08	0.00	0.00	0.00	
5,800.00	6.00	97.15	5,771.52	-68.30	544.48	-545.47	0.00	0.00	0.00	
5,900.00	6.00	97.15	5,870.97	-69.60	554.85	-555.86	0.00	0.00	0.00	
6,000.00	6.00	97.15	5,970.42	-70.90	565.22	-566.25	0.00	0.00	0.00	
6,100.00	6.00	97.15	6,069.88	-72.20	575.59	-576.64	0.00	0.00	0.00	
6,200.00	6.00	97.15	6,169.33	-73.50	585.96	-587.03	0.00	0.00	0.00	
6,217.77	6.00	97.15	6,187.00	-73.73	587.81	-588.87	0.00	0.00	0.00	
Hygiene ("Shannon") sandstone										
6,300.00	6.00	97.15	6,268.78	-74.80	596.33	-597.42	0.00	0.00	0.00	
6,400.00	6.00	97.15	6,368.23	-76.10	606.70	-607.81	0.00	0.00	0.00	
6,479.20	6.00	97.15	6,447.00	-77.13	614.92	-616.04	0.00	0.00	0.00	
Pierre Formation										
6,500.00	6.00	97.15	6,467.68	-77.40	617.08	-618.20	0.00	0.00	0.00	
6,600.00	6.00	97.15	6,567.14	-78.71	627.45	-628.59	0.00	0.00	0.00	
6,700.00	6.00	97.15	6,666.59	-80.01	637.82	-638.98	0.00	0.00	0.00	
6,800.00	6.00	97.15	6,766.04	-81.31	648.19	-649.37	0.00	0.00	0.00	
6,900.00	6.00	97.15	6,865.49	-82.61	658.56	-659.76	0.00	0.00	0.00	
7,000.00	6.00	97.15	6,964.95	-83.91	668.93	-670.14	0.00	0.00	0.00	
7,100.13	6.00	97.15	7,064.53	-85.21	679.31	-680.55	0.00	0.00	0.00	
Start DLS 10.00 TFO 173.92										
7,150.00	1.17	124.02	7,114.29	-85.82	682.32	-683.57	10.00	-9.69	53.88	
7,200.00	4.07	262.16	7,164.25	-86.35	680.99	-682.24	10.00	5.81	276.29	
7,250.00	9.04	267.12	7,213.91	-86.79	675.30	-676.56	10.00	9.94	9.92	
7,300.00	14.03	268.57	7,262.88	-87.14	665.31	-666.57	10.00	9.98	2.90	
7,350.00	19.03	269.27	7,310.80	-87.39	651.09	-652.36	10.00	9.99	1.40	
7,400.00	24.03	269.68	7,357.30	-87.55	632.74	-634.02	10.00	10.00	0.83	
7,450.00	29.03	269.96	7,402.02	-87.62	610.42	-611.70	10.00	10.00	0.56	

Civitas Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well SKY RANCH 4-65 10-9-8-7 3AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5708.20usft
Project:	ARAPAHOE COUNTY	MD Reference:	KB 25' @ 5708.20usft
Site:	SEC 10-T4S-R65W	North Reference:	True
Well:	SKY RANCH 4-65 10-9-8-7 3AH	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)
7,500.00	34.03	270.17	7,444.62	-87.58	584.28	-585.57	10.00	10.00	0.41
7,550.00	39.03	270.32	7,484.79	-87.45	554.53	-555.82	10.00	10.00	0.31
7,600.00	44.02	270.45	7,522.21	-87.23	521.40	-522.68	10.00	10.00	0.25
7,650.00	49.02	270.56	7,556.60	-86.91	485.13	-486.41	10.00	10.00	0.21
7,700.00	54.02	270.65	7,587.70	-86.49	446.00	-447.28	10.00	10.00	0.18
7,750.00	59.02	270.73	7,615.28	-85.99	404.31	-405.59	10.00	10.00	0.16
7,773.60	61.38	270.76	7,627.00	-85.73	383.84	-385.11	10.00	10.00	0.15
Sharon Springs Member									
7,800.00	64.02	270.80	7,639.11	-85.41	360.38	-361.65	10.00	10.00	0.14
7,850.00	69.02	270.86	7,659.02	-84.74	314.54	-315.81	10.00	10.00	0.13
7,900.00	74.02	270.93	7,674.86	-84.00	267.13	-268.40	10.00	10.00	0.12
7,950.00	79.02	270.98	7,686.51	-83.19	218.53	-219.79	10.00	10.00	0.12
8,000.00	84.02	271.04	7,693.88	-82.32	169.10	-170.35	10.00	10.00	0.11
8,050.00	89.02	271.10	7,696.92	-81.39	119.22	-120.46	10.00	10.00	0.11
8,059.79	90.00	271.11	7,697.00	-81.20	109.43	-110.67	10.00	10.00	0.11
Start 20506.60 hold at 8059.79 MD - Niobrara Formation									
8,100.00	90.00	271.11	7,697.00	-80.42	69.23	-70.46	0.00	0.00	0.00
8,200.00	90.00	271.11	7,697.00	-78.49	-30.75	29.54	0.00	0.00	0.00
8,300.00	90.00	271.11	7,697.00	-76.56	-130.73	129.53	0.00	0.00	0.00
8,400.00	90.00	271.11	7,697.00	-74.63	-230.71	229.53	0.00	0.00	0.00
8,500.00	90.00	271.11	7,697.00	-72.70	-330.70	329.53	0.00	0.00	0.00
8,600.00	90.00	271.11	7,697.00	-70.77	-430.68	429.53	0.00	0.00	0.00
8,700.00	90.00	271.11	7,697.00	-68.84	-530.66	529.53	0.00	0.00	0.00
8,800.00	90.00	271.11	7,697.00	-66.90	-630.64	629.53	0.00	0.00	0.00
8,900.00	90.00	271.11	7,697.00	-64.97	-730.62	729.53	0.00	0.00	0.00
9,000.00	90.00	271.11	7,697.00	-63.04	-830.60	829.53	0.00	0.00	0.00
9,100.00	90.00	271.11	7,697.00	-61.11	-930.58	929.53	0.00	0.00	0.00
9,200.00	90.00	271.11	7,697.00	-59.18	-1,030.56	1,029.53	0.00	0.00	0.00
9,300.00	90.00	271.11	7,697.00	-57.25	-1,130.55	1,129.53	0.00	0.00	0.00
9,400.00	90.00	271.11	7,697.00	-55.32	-1,230.53	1,229.53	0.00	0.00	0.00
9,500.00	90.00	271.11	7,697.00	-53.38	-1,330.51	1,329.53	0.00	0.00	0.00
9,600.00	90.00	271.11	7,697.00	-51.45	-1,430.49	1,429.53	0.00	0.00	0.00
9,700.00	90.00	271.11	7,697.00	-49.52	-1,530.47	1,529.52	0.00	0.00	0.00
9,800.00	90.00	271.11	7,697.00	-47.59	-1,630.45	1,629.52	0.00	0.00	0.00
9,900.00	90.00	271.11	7,697.00	-45.66	-1,730.43	1,729.52	0.00	0.00	0.00
10,000.00	90.00	271.11	7,697.00	-43.73	-1,830.42	1,829.52	0.00	0.00	0.00
10,100.00	90.00	271.11	7,697.00	-41.79	-1,930.40	1,929.52	0.00	0.00	0.00
10,200.00	90.00	271.11	7,697.00	-39.86	-2,030.38	2,029.52	0.00	0.00	0.00
10,300.00	90.00	271.11	7,697.00	-37.93	-2,130.36	2,129.52	0.00	0.00	0.00
10,400.00	90.00	271.11	7,697.00	-36.00	-2,230.34	2,229.52	0.00	0.00	0.00
10,500.00	90.00	271.11	7,697.00	-34.07	-2,330.32	2,329.52	0.00	0.00	0.00
10,600.00	90.00	271.11	7,697.00	-32.14	-2,430.30	2,429.52	0.00	0.00	0.00
10,700.00	90.00	271.11	7,697.00	-30.21	-2,530.28	2,529.52	0.00	0.00	0.00
10,800.00	90.00	271.11	7,697.00	-28.27	-2,630.27	2,629.52	0.00	0.00	0.00
10,900.00	90.00	271.11	7,697.00	-26.34	-2,730.25	2,729.52	0.00	0.00	0.00
11,000.00	90.00	271.11	7,697.00	-24.41	-2,830.23	2,829.51	0.00	0.00	0.00
11,100.00	90.00	271.11	7,697.00	-22.48	-2,930.21	2,929.51	0.00	0.00	0.00
11,200.00	90.00	271.11	7,697.00	-20.55	-3,030.19	3,029.51	0.00	0.00	0.00
11,300.00	90.00	271.11	7,697.00	-18.62	-3,130.17	3,129.51	0.00	0.00	0.00
11,400.00	90.00	271.11	7,697.00	-16.69	-3,230.15	3,229.51	0.00	0.00	0.00
11,500.00	90.00	271.11	7,697.00	-14.75	-3,330.14	3,329.51	0.00	0.00	0.00
11,600.00	90.00	271.11	7,697.00	-12.82	-3,430.12	3,429.51	0.00	0.00	0.00
11,700.00	90.00	271.11	7,697.00	-10.89	-3,530.10	3,529.51	0.00	0.00	0.00
11,800.00	90.00	271.11	7,697.00	-8.96	-3,630.08	3,629.51	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 3AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5708.20usft
Project:	ARAPAHOE COUNTY	MD Reference:	KB 25' @ 5708.20usft
Site:	SEC 10-T4S-R65W	North Reference:	True
Well:	SKY RANCH 4-65 10-9-8-7 3AH	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)
11,900.00	90.00	271.11	7,697.00	-7.03	-3,730.06	3,729.51	0.00	0.00	0.00
12,000.00	90.00	271.11	7,697.00	-5.10	-3,830.04	3,829.51	0.00	0.00	0.00
12,100.00	90.00	271.11	7,697.00	-3.17	-3,930.02	3,929.51	0.00	0.00	0.00
12,200.00	90.00	271.11	7,697.00	-1.23	-4,030.01	4,029.51	0.00	0.00	0.00
12,300.00	90.00	271.11	7,697.00	0.70	-4,129.99	4,129.50	0.00	0.00	0.00
12,400.00	90.00	271.11	7,697.00	2.63	-4,229.97	4,229.50	0.00	0.00	0.00
12,500.00	90.00	271.11	7,697.00	4.56	-4,329.95	4,329.50	0.00	0.00	0.00
12,600.00	90.00	271.11	7,697.00	6.49	-4,429.93	4,429.50	0.00	0.00	0.00
12,700.00	90.00	271.11	7,697.00	8.42	-4,529.91	4,529.50	0.00	0.00	0.00
12,800.00	90.00	271.11	7,697.00	10.36	-4,629.89	4,629.50	0.00	0.00	0.00
12,900.00	90.00	271.11	7,697.00	12.29	-4,729.87	4,729.50	0.00	0.00	0.00
13,000.00	90.00	271.11	7,697.00	14.22	-4,829.86	4,829.50	0.00	0.00	0.00
13,100.00	90.00	271.11	7,697.00	16.15	-4,929.84	4,929.50	0.00	0.00	0.00
13,200.00	90.00	271.11	7,697.00	18.08	-5,029.82	5,029.50	0.00	0.00	0.00
13,300.00	90.00	271.11	7,697.00	20.01	-5,129.80	5,129.50	0.00	0.00	0.00
13,400.00	90.00	271.11	7,697.00	21.94	-5,229.78	5,229.50	0.00	0.00	0.00
13,500.00	90.00	271.11	7,697.00	23.88	-5,329.76	5,329.50	0.00	0.00	0.00
13,600.00	90.00	271.11	7,697.00	25.81	-5,429.74	5,429.50	0.00	0.00	0.00
13,700.00	90.00	271.11	7,697.00	27.74	-5,529.73	5,529.49	0.00	0.00	0.00
13,800.00	90.00	271.11	7,697.00	29.67	-5,629.71	5,629.49	0.00	0.00	0.00
13,900.00	90.00	271.11	7,697.00	31.60	-5,729.69	5,729.49	0.00	0.00	0.00
14,000.00	90.00	271.11	7,697.00	33.53	-5,829.67	5,829.49	0.00	0.00	0.00
14,100.00	90.00	271.11	7,697.00	35.46	-5,929.65	5,929.49	0.00	0.00	0.00
14,200.00	90.00	271.11	7,697.00	37.40	-6,029.63	6,029.49	0.00	0.00	0.00
14,300.00	90.00	271.11	7,697.00	39.33	-6,129.61	6,129.49	0.00	0.00	0.00
14,400.00	90.00	271.11	7,697.00	41.26	-6,229.59	6,229.49	0.00	0.00	0.00
14,500.00	90.00	271.11	7,697.00	43.19	-6,329.58	6,329.49	0.00	0.00	0.00
14,600.00	90.00	271.11	7,697.00	45.12	-6,429.56	6,429.49	0.00	0.00	0.00
14,700.00	90.00	271.11	7,697.00	47.05	-6,529.54	6,529.49	0.00	0.00	0.00
14,800.00	90.00	271.11	7,697.00	48.98	-6,629.52	6,629.49	0.00	0.00	0.00
14,900.00	90.00	271.11	7,697.00	50.92	-6,729.50	6,729.49	0.00	0.00	0.00
15,000.00	90.00	271.11	7,697.00	52.85	-6,829.48	6,829.48	0.00	0.00	0.00
15,100.00	90.00	271.11	7,697.00	54.78	-6,929.46	6,929.48	0.00	0.00	0.00
15,200.00	90.00	271.11	7,697.00	56.71	-7,029.45	7,029.48	0.00	0.00	0.00
15,300.00	90.00	271.11	7,697.00	58.64	-7,129.43	7,129.48	0.00	0.00	0.00
15,400.00	90.00	271.11	7,697.00	60.57	-7,229.41	7,229.48	0.00	0.00	0.00
15,500.00	90.00	271.11	7,697.00	62.51	-7,329.39	7,329.48	0.00	0.00	0.00
15,600.00	90.00	271.11	7,697.00	64.44	-7,429.37	7,429.48	0.00	0.00	0.00
15,700.00	90.00	271.11	7,697.00	66.37	-7,529.35	7,529.48	0.00	0.00	0.00
15,800.00	90.00	271.11	7,697.00	68.30	-7,629.33	7,629.48	0.00	0.00	0.00
15,900.00	90.00	271.11	7,697.00	70.23	-7,729.31	7,729.48	0.00	0.00	0.00
16,000.00	90.00	271.11	7,697.00	72.16	-7,829.30	7,829.48	0.00	0.00	0.00
16,100.00	90.00	271.11	7,697.00	74.09	-7,929.28	7,929.48	0.00	0.00	0.00
16,200.00	90.00	271.11	7,697.00	76.03	-8,029.26	8,029.48	0.00	0.00	0.00
16,300.00	90.00	271.11	7,697.00	77.96	-8,129.24	8,129.47	0.00	0.00	0.00
16,400.00	90.00	271.11	7,697.00	79.89	-8,229.22	8,229.47	0.00	0.00	0.00
16,500.00	90.00	271.11	7,697.00	81.82	-8,329.20	8,329.47	0.00	0.00	0.00
16,600.00	90.00	271.11	7,697.00	83.75	-8,429.18	8,429.47	0.00	0.00	0.00
16,700.00	90.00	271.11	7,697.00	85.68	-8,529.17	8,529.47	0.00	0.00	0.00
16,800.00	90.00	271.11	7,697.00	87.61	-8,629.15	8,629.47	0.00	0.00	0.00
16,900.00	90.00	271.11	7,697.00	89.55	-8,729.13	8,729.47	0.00	0.00	0.00
17,000.00	90.00	271.11	7,697.00	91.48	-8,829.11	8,829.47	0.00	0.00	0.00
17,100.00	90.00	271.11	7,697.00	93.41	-8,929.09	8,929.47	0.00	0.00	0.00
17,200.00	90.00	271.11	7,697.00	95.34	-9,029.07	9,029.47	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 3AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5708.20usft
Project:	ARAPAHOE COUNTY	MD Reference:	KB 25' @ 5708.20usft
Site:	SEC 10-T4S-R65W	North Reference:	True
Well:	SKY RANCH 4-65 10-9-8-7 3AH	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)	
17,300.00	90.00	271.11	7,697.00	97.27	-9,129.05	9,129.47	0.00	0.00	0.00	
17,400.00	90.00	271.11	7,697.00	99.20	-9,229.04	9,229.47	0.00	0.00	0.00	
17,500.00	90.00	271.11	7,697.00	101.14	-9,329.02	9,329.47	0.00	0.00	0.00	
17,600.00	90.00	271.11	7,697.00	103.07	-9,429.00	9,429.47	0.00	0.00	0.00	
17,700.00	90.00	271.11	7,697.00	105.00	-9,528.98	9,529.46	0.00	0.00	0.00	
17,800.00	90.00	271.11	7,697.00	106.93	-9,628.96	9,629.46	0.00	0.00	0.00	
17,900.00	90.00	271.11	7,697.00	108.86	-9,728.94	9,729.46	0.00	0.00	0.00	
18,000.00	90.00	271.11	7,697.00	110.79	-9,828.92	9,829.46	0.00	0.00	0.00	
18,100.00	90.00	271.11	7,697.00	112.72	-9,928.90	9,929.46	0.00	0.00	0.00	
18,200.00	90.00	271.11	7,697.00	114.66	-10,028.89	10,029.46	0.00	0.00	0.00	
18,300.00	90.00	271.11	7,697.00	116.59	-10,128.87	10,129.46	0.00	0.00	0.00	
18,400.00	90.00	271.11	7,697.00	118.52	-10,228.85	10,229.46	0.00	0.00	0.00	
18,500.00	90.00	271.11	7,697.00	120.45	-10,328.83	10,329.46	0.00	0.00	0.00	
18,600.00	90.00	271.11	7,697.00	122.38	-10,428.81	10,429.46	0.00	0.00	0.00	
18,700.00	90.00	271.11	7,697.00	124.31	-10,528.79	10,529.46	0.00	0.00	0.00	
18,800.00	90.00	271.11	7,697.00	126.24	-10,628.77	10,629.46	0.00	0.00	0.00	
18,900.00	90.00	271.11	7,697.00	128.18	-10,728.76	10,729.46	0.00	0.00	0.00	
19,000.00	90.00	271.11	7,697.00	130.11	-10,828.74	10,829.45	0.00	0.00	0.00	
19,100.00	90.00	271.11	7,697.00	132.04	-10,928.72	10,929.45	0.00	0.00	0.00	
19,200.00	90.00	271.11	7,697.00	133.97	-11,028.70	11,029.45	0.00	0.00	0.00	
19,300.00	90.00	271.11	7,697.00	135.90	-11,128.68	11,129.45	0.00	0.00	0.00	
19,400.00	90.00	271.11	7,697.00	137.83	-11,228.66	11,229.45	0.00	0.00	0.00	
19,500.00	90.00	271.11	7,697.00	139.76	-11,328.64	11,329.45	0.00	0.00	0.00	
19,600.00	90.00	271.11	7,697.00	141.70	-11,428.62	11,429.45	0.00	0.00	0.00	
19,700.00	90.00	271.11	7,697.00	143.63	-11,528.61	11,529.45	0.00	0.00	0.00	
19,800.00	90.00	271.11	7,697.00	145.56	-11,628.59	11,629.45	0.00	0.00	0.00	
19,900.00	90.00	271.11	7,697.00	147.49	-11,728.57	11,729.45	0.00	0.00	0.00	
20,000.00	90.00	271.11	7,697.00	149.42	-11,828.55	11,829.45	0.00	0.00	0.00	
20,100.00	90.00	271.11	7,697.00	151.35	-11,928.53	11,929.45	0.00	0.00	0.00	
20,200.00	90.00	271.11	7,697.00	153.29	-12,028.51	12,029.45	0.00	0.00	0.00	
20,300.00	90.00	271.11	7,697.00	155.22	-12,128.49	12,129.45	0.00	0.00	0.00	
20,400.00	90.00	271.11	7,697.00	157.15	-12,228.48	12,229.44	0.00	0.00	0.00	
20,500.00	90.00	271.11	7,697.00	159.08	-12,328.46	12,329.44	0.00	0.00	0.00	
20,600.00	90.00	271.11	7,697.00	161.01	-12,428.44	12,429.44	0.00	0.00	0.00	
20,700.00	90.00	271.11	7,697.00	162.94	-12,528.42	12,529.44	0.00	0.00	0.00	
20,800.00	90.00	271.11	7,697.00	164.87	-12,628.40	12,629.44	0.00	0.00	0.00	
20,900.00	90.00	271.11	7,697.00	166.81	-12,728.38	12,729.44	0.00	0.00	0.00	
21,000.00	90.00	271.11	7,697.00	168.74	-12,828.36	12,829.44	0.00	0.00	0.00	
21,100.00	90.00	271.11	7,697.00	170.67	-12,928.34	12,929.44	0.00	0.00	0.00	
21,200.00	90.00	271.11	7,697.00	172.60	-13,028.33	13,029.44	0.00	0.00	0.00	
21,300.00	90.00	271.11	7,697.00	174.53	-13,128.31	13,129.44	0.00	0.00	0.00	
21,400.00	90.00	271.11	7,697.00	176.46	-13,228.29	13,229.44	0.00	0.00	0.00	
21,500.00	90.00	271.11	7,697.00	178.39	-13,328.27	13,329.44	0.00	0.00	0.00	
21,600.00	90.00	271.11	7,697.00	180.33	-13,428.25	13,429.44	0.00	0.00	0.00	
21,700.00	90.00	271.11	7,697.00	182.26	-13,528.23	13,529.43	0.00	0.00	0.00	
21,800.00	90.00	271.11	7,697.00	184.19	-13,628.21	13,629.43	0.00	0.00	0.00	
21,900.00	90.00	271.11	7,697.00	186.12	-13,728.20	13,729.43	0.00	0.00	0.00	
22,000.00	90.00	271.11	7,697.00	188.05	-13,828.18	13,829.43	0.00	0.00	0.00	
22,100.00	90.00	271.11	7,697.00	189.98	-13,928.16	13,929.43	0.00	0.00	0.00	
22,200.00	90.00	271.11	7,697.00	191.92	-14,028.14	14,029.43	0.00	0.00	0.00	
22,300.00	90.00	271.11	7,697.00	193.85	-14,128.12	14,129.43	0.00	0.00	0.00	
22,400.00	90.00	271.11	7,697.00	195.78	-14,228.10	14,229.43	0.00	0.00	0.00	
22,500.00	90.00	271.11	7,697.00	197.71	-14,328.08	14,329.43	0.00	0.00	0.00	
22,600.00	90.00	271.11	7,697.00	199.64	-14,428.07	14,429.43	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 3AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5708.20usft
Project:	ARAPAHOE COUNTY	MD Reference:	KB 25' @ 5708.20usft
Site:	SEC 10-T4S-R65W	North Reference:	True
Well:	SKY RANCH 4-65 10-9-8-7 3AH	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)
22,700.00	90.00	271.11	7,697.00	201.57	-14,528.05	14,529.43	0.00	0.00	0.00
22,800.00	90.00	271.11	7,697.00	203.50	-14,628.03	14,629.43	0.00	0.00	0.00
22,900.00	90.00	271.11	7,697.00	205.44	-14,728.01	14,729.43	0.00	0.00	0.00
23,000.00	90.00	271.11	7,697.00	207.37	-14,827.99	14,829.42	0.00	0.00	0.00
23,100.00	90.00	271.11	7,697.00	209.30	-14,927.97	14,929.42	0.00	0.00	0.00
23,200.00	90.00	271.11	7,697.00	211.23	-15,027.95	15,029.42	0.00	0.00	0.00
23,300.00	90.00	271.11	7,697.00	213.16	-15,127.93	15,129.42	0.00	0.00	0.00
23,400.00	90.00	271.11	7,697.00	215.09	-15,227.92	15,229.42	0.00	0.00	0.00
23,500.00	90.00	271.11	7,697.00	217.02	-15,327.90	15,329.42	0.00	0.00	0.00
23,600.00	90.00	271.11	7,697.00	218.96	-15,427.88	15,429.42	0.00	0.00	0.00
23,700.00	90.00	271.11	7,697.00	220.89	-15,527.86	15,529.42	0.00	0.00	0.00
23,800.00	90.00	271.11	7,697.00	222.82	-15,627.84	15,629.42	0.00	0.00	0.00
23,900.00	90.00	271.11	7,697.00	224.75	-15,727.82	15,729.42	0.00	0.00	0.00
24,000.00	90.00	271.11	7,697.00	226.68	-15,827.80	15,829.42	0.00	0.00	0.00
24,100.00	90.00	271.11	7,697.00	228.61	-15,927.79	15,929.42	0.00	0.00	0.00
24,200.00	90.00	271.11	7,697.00	230.54	-16,027.77	16,029.42	0.00	0.00	0.00
24,300.00	90.00	271.11	7,697.00	232.48	-16,127.75	16,129.42	0.00	0.00	0.00
24,400.00	90.00	271.11	7,697.00	234.41	-16,227.73	16,229.41	0.00	0.00	0.00
24,500.00	90.00	271.11	7,697.00	236.34	-16,327.71	16,329.41	0.00	0.00	0.00
24,600.00	90.00	271.11	7,697.00	238.27	-16,427.69	16,429.41	0.00	0.00	0.00
24,700.00	90.00	271.11	7,697.00	240.20	-16,527.67	16,529.41	0.00	0.00	0.00
24,800.00	90.00	271.11	7,697.00	242.13	-16,627.65	16,629.41	0.00	0.00	0.00
24,900.00	90.00	271.11	7,697.00	244.07	-16,727.64	16,729.41	0.00	0.00	0.00
25,000.00	90.00	271.11	7,697.00	246.00	-16,827.62	16,829.41	0.00	0.00	0.00
25,100.00	90.00	271.11	7,697.00	247.93	-16,927.60	16,929.41	0.00	0.00	0.00
25,200.00	90.00	271.11	7,697.00	249.86	-17,027.58	17,029.41	0.00	0.00	0.00
25,300.00	90.00	271.11	7,697.00	251.79	-17,127.56	17,129.41	0.00	0.00	0.00
25,400.00	90.00	271.11	7,697.00	253.72	-17,227.54	17,229.41	0.00	0.00	0.00
25,500.00	90.00	271.11	7,697.00	255.65	-17,327.52	17,329.41	0.00	0.00	0.00
25,600.00	90.00	271.11	7,697.00	257.59	-17,427.51	17,429.41	0.00	0.00	0.00
25,700.00	90.00	271.11	7,697.00	259.52	-17,527.49	17,529.40	0.00	0.00	0.00
25,800.00	90.00	271.11	7,697.00	261.45	-17,627.47	17,629.40	0.00	0.00	0.00
25,900.00	90.00	271.11	7,697.00	263.38	-17,727.45	17,729.40	0.00	0.00	0.00
26,000.00	90.00	271.11	7,697.00	265.31	-17,827.43	17,829.40	0.00	0.00	0.00
26,100.00	90.00	271.11	7,697.00	267.24	-17,927.41	17,929.40	0.00	0.00	0.00
26,200.00	90.00	271.11	7,697.00	269.17	-18,027.39	18,029.40	0.00	0.00	0.00
26,300.00	90.00	271.11	7,697.00	271.11	-18,127.38	18,129.40	0.00	0.00	0.00
26,400.00	90.00	271.11	7,697.00	273.04	-18,227.36	18,229.40	0.00	0.00	0.00
26,500.00	90.00	271.11	7,697.00	274.97	-18,327.34	18,329.40	0.00	0.00	0.00
26,600.00	90.00	271.11	7,697.00	276.90	-18,427.32	18,429.40	0.00	0.00	0.00
26,700.00	90.00	271.11	7,697.00	278.83	-18,527.30	18,529.40	0.00	0.00	0.00
26,800.00	90.00	271.11	7,697.00	280.76	-18,627.28	18,629.40	0.00	0.00	0.00
26,900.00	90.00	271.11	7,697.00	282.69	-18,727.26	18,729.40	0.00	0.00	0.00
27,000.00	90.00	271.11	7,697.00	284.63	-18,827.24	18,829.39	0.00	0.00	0.00
27,100.00	90.00	271.11	7,697.00	286.56	-18,927.23	18,929.39	0.00	0.00	0.00
27,200.00	90.00	271.11	7,697.00	288.49	-19,027.21	19,029.39	0.00	0.00	0.00
27,300.00	90.00	271.11	7,697.00	290.42	-19,127.19	19,129.39	0.00	0.00	0.00
27,400.00	90.00	271.11	7,697.00	292.35	-19,227.17	19,229.39	0.00	0.00	0.00
27,500.00	90.00	271.11	7,697.00	294.28	-19,327.15	19,329.39	0.00	0.00	0.00
27,600.00	90.00	271.11	7,697.00	296.22	-19,427.13	19,429.39	0.00	0.00	0.00
27,700.00	90.00	271.11	7,697.00	298.15	-19,527.11	19,529.39	0.00	0.00	0.00
27,800.00	90.00	271.11	7,697.00	300.08	-19,627.10	19,629.39	0.00	0.00	0.00
27,900.00	90.00	271.11	7,697.00	302.01	-19,727.08	19,729.39	0.00	0.00	0.00
28,000.00	90.00	271.11	7,697.00	303.94	-19,827.06	19,829.39	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 3AH
Company:	CRESTONE PEAK RESOURCES	TVD Reference:	KB 25' @ 5708.20usft
Project:	ARAPAHOE COUNTY	MD Reference:	KB 25' @ 5708.20usft
Site:	SEC 10-T4S-R65W	North Reference:	True
Well:	SKY RANCH 4-65 10-9-8-7 3AH	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)
28,100.00	90.00	271.11	7,697.00	305.87	-19,927.04	19,929.39	0.00	0.00	0.00
28,200.00	90.00	271.11	7,697.00	307.80	-20,027.02	20,029.39	0.00	0.00	0.00
28,300.00	90.00	271.11	7,697.00	309.74	-20,127.00	20,129.39	0.00	0.00	0.00
28,400.00	90.00	271.11	7,697.00	311.67	-20,226.98	20,229.38	0.00	0.00	0.00
28,500.00	90.00	271.11	7,697.00	313.60	-20,326.96	20,329.38	0.00	0.00	0.00
28,566.39	90.00	271.11	7,697.00	314.88	-20,393.34	20,395.77	0.00	0.00	0.00
TD at 28566.39									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL-SKY RANCH 4-65 - plan hits target center - Point	0.00	0.00	7,697.00	314.88	-20,393.34	1,687,489.07	3,220,855.47	39.718340°N	104.714891°W
LP-SKY RANCH 4-65 10-9-8-7 - plan hits target center - Point	0.00	0.00	7,697.00	-81.20	109.43	1,687,286.55	3,241,360.94	39.717275°N	104.642008°W

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
24.00	24.00	Denver				
707.59	707.00	Arapahoe				
1,310.89	1,307.00	Laramie-Fox Hills Formation				
2,014.75	2,007.00	Pierre Formation				
2,462.20	2,452.00	Upper Pierre aquifer				
3,100.70	3,087.00	Base of Upper Pierre aquifer				
4,176.59	4,157.00	Larimer ("Parkman") sandstone				
4,307.31	4,287.00	Pierre Formation				
5,393.25	5,367.00	Terry ("Sussex") sandstone				
5,503.86	5,477.00	Pierre Formation				
6,217.77	6,187.00	Hygiene ("Shannon") sandstone				
6,479.20	6,447.00	Pierre Formation				
7,773.60	7,627.00	Sharon Springs Member				
8,059.79	7,697.00	Niobrara Formation				

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
400.00	400.00	0.00	0.00	Start Build 2.00
699.98	699.43	-1.95	15.57	Start 6400.16 hold at 699.98 MD
7,100.13	7,064.53	-85.21	679.31	Start DLS 10.00 TFO 173.92
8,059.79	7,697.00	-81.20	109.43	Start 20506.60 hold at 8059.79 MD
28,566.39	7,697.00	314.88	-20,393.34	TD at 28566.39