

CRESTONE PEAK RESOURCES

ARAPAHOE COUNTY

SEC 30-T4S-R64W

CHICO 4-65 25-26 4AH

OWB

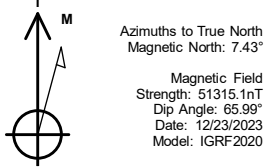
Design: FINAL SURVEY

Standard Survey Report

02 January, 2024

Project: ARAPAHOE COUNTY
Site: SEC 30-T4S-R64W
Well: CHICO 4-65 25-26 4AH
Wellbore: OWB
Design: FINAL SURVEY

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

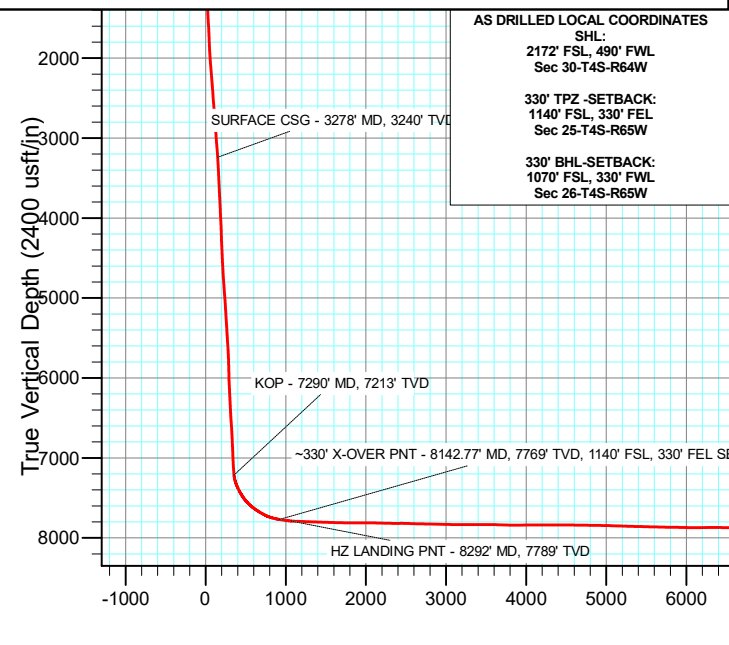
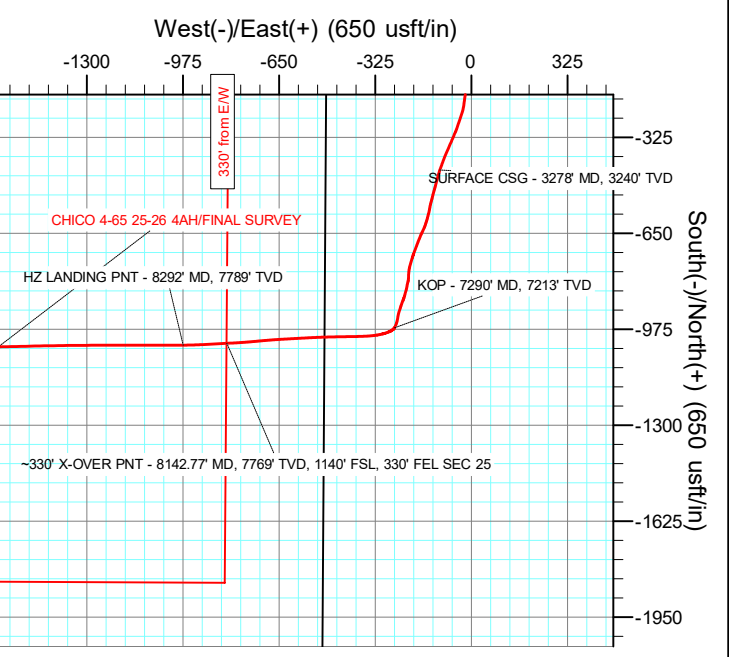


WELL DETAILS: CHICO 4-65 25-26 4AH

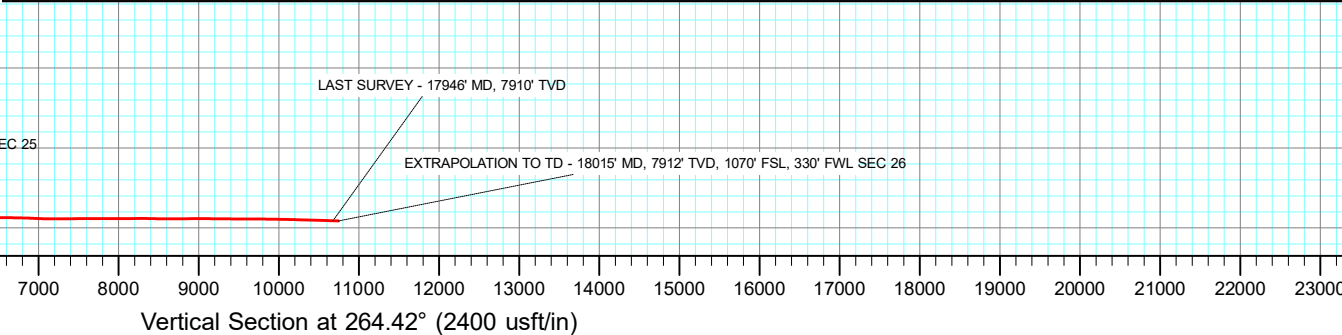
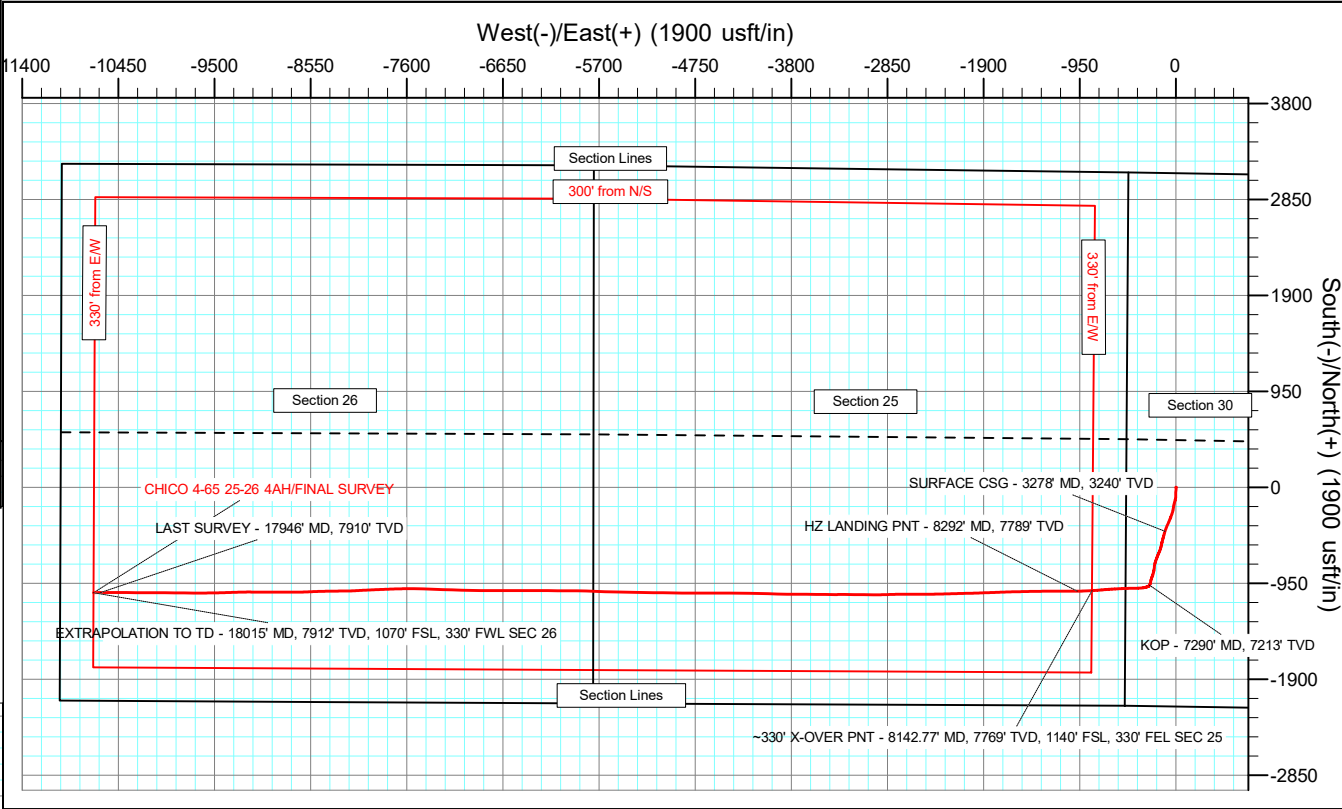
5767.00						Slot
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	16711337.45	3252836.98	39.673188°N	104.601776°W	

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
3278.00	9.51	198.68	3240.39	-435.86	-106.73	148.57	459.11	SURFACE CSG - 3278' MD, 3240' TVD
7290.00	9.87	210.48	7213.10	-970.07	-259.64	352.65	1017.92	KOP - 7290' MD, 7213' TVD
8142.77	81.30	267.02	7769.17	-1022.93	-826.78	922.25	1592.61	~330' X-OVER PNT - 8142.77' MD, 7769' TVD, 1140' FSL, 330' FEL SEC 25
8292.00	85.86	269.38	7789.20	-1029.05	-974.47	1069.84	1740.55	HZ LANDING PNT - 8292' MD, 7789' TVD
17946.00	88.60	269.29	7910.48	-1042.98	-10624.46	10675.53	11392.57	LAST SURVEY - 17946' MD, 7910' TVD
18015.00	88.60	269.29	7912.16	-1043.84	-10693.44	10744.26	11461.55	EXTRAPOLATION TO TD - 18015' MD, 7912' TVD, 1070' FSL, 330' FWL SEC 26



AS DRILLED LOCAL COORDINATES
SHL:
2172' FSL, 490' FWL
Sec 30-T4S-R64W
330' TPZ-SETBACK:
1140' FSL, 330' FEL
Sec 25-T4S-R65W
330' BHL-SETBACK:
1070' FSL, 330' FWL
Sec 26-T4S-R65W



Civitas Resources

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well CHICO 4-65 25-26 4AH
Project:	ARAPAHOE COUNTY	TVD Reference:	KBE 25' @ 5792.00usft
Site:	SEC 30-T4S-R64W	MD Reference:	KBE 25' @ 5792.00usft
Well:	CHICO 4-65 25-26 4AH	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDM

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 30-T4S-R64W		
Site Position:		Northing:	1,669,168.52 usft
From:	Lat/Long	Easting:	3,252,354.22 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	39.667247°N
		Longitude:	104.603567°W
		Grid Convergence:	0.57 °

Well	CHICO 4-65 25-26 4AH		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	12/23/2023	7.43	65.99	51,315.05612288

Design	FINAL SURVEY			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth:
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	264.42

Survey Program	Date	1/2/2024		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
149.00	3,163.00	SURFACE SURVEY (OWB)	MWD OWSG	OWSG MWD - Standard
3,295.00	18,015.00	FINAL SURVEY (OWB)	MWD OWSG	OWSG MWD - Standard

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	
149.00	0.49	56.58	149.00	0.35	0.53	-0.56	0.33	0.33	0.00	
241.00	1.02	32.21	240.99	1.26	1.30	-1.41	0.66	0.58	-26.49	
332.00	1.02	138.59	331.98	1.34	2.26	-2.38	1.79	0.00	116.90	
423.00	2.21	158.90	422.94	-0.91	3.43	-3.33	1.43	1.31	22.32	
513.00	3.18	179.17	512.85	-5.02	4.09	-3.59	1.50	1.08	22.52	
607.00	5.30	187.50	606.58	-11.93	3.56	-2.39	2.34	2.26	8.86	
701.00	7.20	189.57	700.02	-22.05	2.02	0.13	2.04	2.02	2.20	
796.00	9.10	184.28	794.06	-35.41	0.47	2.98	2.15	2.00	-5.57	
891.00	9.90	179.79	887.76	-51.07	-0.06	5.03	1.15	0.84	-4.73	

Civitas Resources

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well CHICO 4-65 25-26 4AH
Project:	ARAPAHOE COUNTY	TVD Reference:	KBE 25' @ 5792.00usft
Site:	SEC 30-T4S-R64W	MD Reference:	KBE 25' @ 5792.00usft
Well:	CHICO 4-65 25-26 4AH	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDM

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)
985.00	10.91	180.18	980.21	-68.05	-0.06	6.67	1.08	1.07	0.41
1,079.00	9.59	182.61	1,072.71	-84.76	-0.45	8.68	1.48	-1.40	2.59
1,174.00	10.52	184.28	1,166.25	-101.32	-1.45	11.29	1.03	0.98	1.76
1,269.00	10.61	194.20	1,259.65	-118.45	-4.25	15.73	1.91	0.09	10.44
1,363.00	8.62	195.48	1,352.32	-133.63	-8.25	21.19	2.13	-2.12	1.36
1,458.00	8.88	194.37	1,446.21	-147.59	-11.97	26.25	0.33	0.27	-1.17
1,553.00	9.59	195.48	1,539.98	-162.32	-15.90	31.60	0.77	0.75	1.17
1,648.00	9.50	193.67	1,633.67	-177.56	-19.87	37.02	0.33	-0.09	-1.91
1,742.00	9.28	187.68	1,726.41	-192.61	-22.71	41.32	1.07	-0.23	-6.37
1,837.00	9.99	186.80	1,820.07	-208.39	-24.71	44.84	0.76	0.75	-0.93
1,932.00	10.78	191.07	1,913.51	-225.29	-27.39	49.15	1.16	0.83	4.49
2,027.00	11.18	197.50	2,006.78	-242.79	-31.87	55.31	1.36	0.42	6.77
2,122.00	11.09	198.78	2,099.99	-260.23	-37.58	62.68	0.28	-0.09	1.35
2,217.00	10.52	199.18	2,193.31	-277.07	-43.37	70.08	0.61	-0.60	0.42
2,312.00	10.38	198.69	2,286.73	-293.36	-48.96	77.23	0.17	-0.15	-0.52
2,406.00	9.19	203.41	2,379.36	-308.28	-54.66	84.35	1.53	-1.27	5.02
2,501.00	8.71	203.28	2,473.21	-321.84	-60.52	91.50	0.51	-0.51	-0.14
2,596.00	8.79	202.48	2,567.10	-335.16	-66.13	98.38	0.15	0.08	-0.84
2,691.00	9.19	203.28	2,660.93	-348.84	-71.91	105.46	0.44	0.42	0.84
2,785.00	9.28	203.50	2,753.71	-362.68	-77.90	112.76	0.10	0.10	0.23
2,879.00	8.79	203.41	2,846.55	-376.22	-83.77	119.93	0.52	-0.52	-0.10
2,974.00	8.88	202.00	2,940.42	-389.68	-89.40	126.84	0.25	0.09	-1.48
3,069.00	9.19	201.60	3,034.24	-403.53	-94.94	133.70	0.33	0.33	-0.42
3,163.00	9.59	200.10	3,126.98	-417.87	-100.40	140.52	0.50	0.43	-1.60
3,278.00	9.51	198.68	3,240.39	-435.86	-106.73	148.57	0.22	-0.07	-1.23
SURFACE CSG - 3278' MD, 3240' TVD									
3,295.00	9.50	198.47	3,257.15	-438.52	-107.63	149.72	0.22	-0.07	-1.24
3,390.00	8.71	195.39	3,350.96	-452.90	-112.02	155.49	0.98	-0.83	-3.24
3,485.00	7.91	194.37	3,444.96	-466.16	-115.55	160.29	0.86	-0.84	-1.07
3,580.00	7.51	195.08	3,539.10	-478.49	-118.79	164.71	0.43	-0.42	0.75
3,675.00	6.72	194.90	3,633.37	-489.86	-121.83	168.85	0.83	-0.83	-0.19
3,770.00	8.71	196.18	3,727.50	-502.14	-125.27	173.46	2.10	2.09	1.35
3,865.00	7.69	194.68	3,821.53	-515.19	-128.88	178.33	1.10	-1.07	-1.58
3,960.00	6.72	192.79	3,915.78	-526.76	-131.72	182.28	1.05	-1.02	-1.99
4,054.00	8.62	196.18	4,008.94	-538.89	-134.90	186.62	2.08	2.02	3.61
4,148.00	7.51	193.41	4,102.00	-551.63	-138.29	191.23	1.25	-1.18	-2.95
4,242.00	6.19	189.09	4,195.33	-562.61	-140.52	194.51	1.51	-1.40	-4.60
4,338.00	7.11	191.69	4,290.69	-573.54	-142.54	197.59	1.01	0.96	2.71
4,432.00	8.00	195.39	4,383.87	-585.55	-145.45	201.65	1.08	0.95	3.94
4,527.00	6.89	192.79	4,478.07	-597.48	-148.47	205.81	1.22	-1.17	-2.74
4,622.00	8.31	199.31	4,572.23	-609.51	-152.00	210.50	1.75	1.49	6.86
4,717.00	6.81	196.27	4,666.40	-621.40	-155.85	215.48	1.63	-1.58	-3.20
4,813.00	8.31	205.17	4,761.57	-633.14	-160.40	221.15	1.98	1.56	9.27

Civitas Resources

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well CHICO 4-65 25-26 4AH
Project:	ARAPAHOE COUNTY	TVD Reference:	KBE 25' @ 5792.00usft
Site:	SEC 30-T4S-R64W	MD Reference:	KBE 25' @ 5792.00usft
Well:	CHICO 4-65 25-26 4AH	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDM

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)	
4,907.00	7.38	204.69	4,854.69	-644.78	-165.81	227.66	0.99	-0.99	-0.51	
5,002.00	9.50	203.89	4,948.65	-657.49	-171.53	234.60	2.23	2.23	-0.84	
5,191.00	7.38	199.79	5,135.60	-683.18	-181.96	247.47	1.17	-1.12	-2.17	
5,286.00	8.40	199.97	5,229.70	-695.44	-186.39	253.08	1.07	1.07	0.19	
5,381.00	7.82	201.38	5,323.75	-707.98	-191.12	259.00	0.65	-0.61	1.48	
5,476.00	7.11	199.79	5,417.94	-719.53	-195.47	264.45	0.78	-0.75	-1.67	
5,571.00	10.21	197.20	5,511.85	-733.11	-199.95	270.23	3.29	3.26	-2.73	
5,667.00	9.19	196.01	5,606.47	-748.61	-204.58	276.34	1.08	-1.06	-1.24	
5,761.00	8.40	194.37	5,699.37	-762.47	-208.35	281.44	0.88	-0.84	-1.74	
5,856.00	7.20	187.68	5,793.49	-775.09	-210.87	285.18	1.58	-1.26	-7.04	
5,951.00	8.79	184.37	5,887.56	-788.23	-212.22	287.80	1.74	1.67	-3.48	
6,046.00	7.69	180.58	5,981.58	-801.83	-212.84	289.73	1.29	-1.16	-3.99	
6,141.00	9.59	194.68	6,075.51	-815.84	-214.91	293.15	2.98	2.00	14.84	
6,236.00	8.62	189.40	6,169.31	-830.52	-218.08	297.73	1.35	-1.02	-5.56	
6,331.00	8.00	196.89	6,263.32	-843.87	-221.16	302.10	1.31	-0.65	7.88	
6,425.00	7.82	193.18	6,356.43	-856.36	-224.52	306.65	0.58	-0.19	-3.95	
6,519.00	6.89	198.87	6,449.65	-867.92	-227.80	311.04	1.26	-0.99	6.05	
6,614.00	9.41	202.00	6,543.69	-880.51	-232.55	317.00	2.69	2.65	3.29	
6,708.00	8.22	198.38	6,636.57	-894.01	-237.55	323.28	1.40	-1.27	-3.85	
6,803.00	6.89	196.18	6,730.75	-905.93	-241.28	328.15	1.43	-1.40	-2.32	
6,898.00	7.29	199.00	6,825.02	-917.10	-244.83	332.77	0.56	0.42	2.97	
6,992.00	7.60	190.19	6,918.23	-928.86	-247.87	336.94	1.26	0.33	-9.37	
7,088.00	8.31	189.48	7,013.31	-941.95	-250.14	340.47	0.75	0.74	-0.74	
7,183.00	8.09	200.59	7,107.34	-954.98	-253.62	345.20	1.68	-0.23	11.69	
7,278.00	9.19	201.60	7,201.26	-968.29	-258.76	351.61	1.17	1.16	1.06	
7,290.00	9.87	210.48	7,213.10	-970.07	-259.64	352.65	13.47	5.63	74.02	
KOP - 7290' MD, 7213' TVD										
7,373.00	18.12	243.51	7,293.68	-981.99	-274.84	368.95	13.47	9.94	39.79	
7,467.00	25.98	258.10	7,380.80	-992.78	-308.15	403.14	10.13	8.36	15.52	
7,562.00	31.51	267.00	7,464.10	-998.38	-353.36	448.68	7.35	5.82	9.37	
7,657.00	41.71	269.29	7,540.26	-1,000.08	-409.90	505.13	10.83	10.74	2.41	
7,752.00	49.89	268.67	7,606.44	-1,001.31	-477.94	572.96	8.62	8.61	-0.65	
7,848.00	57.58	266.91	7,663.18	-1,004.35	-555.22	650.17	8.15	8.01	-1.83	
7,942.00	62.31	266.78	7,710.25	-1,008.83	-636.44	731.44	5.03	5.03	-0.14	
8,036.00	72.78	264.49	7,746.11	-1,015.50	-722.92	818.16	11.36	11.14	-2.44	
8,131.00	81.31	267.00	7,767.39	-1,022.33	-815.16	910.63	9.34	8.98	2.64	
8,142.77	81.30	267.02	7,769.17	-1,022.93	-826.78	922.25	0.20	-0.10	0.18	
~330' X-OVER PNT - 8142.77' MD, 7769' TVD, 1140' FSL, 330' FEL SEC 25										
8,225.00	81.22	267.17	7,781.66	-1,027.05	-907.95	1,003.44	0.20	-0.10	0.18	
8,292.00	85.86	269.38	7,789.20	-1,029.05	-974.47	1,069.84	7.66	6.92	3.30	
HZ LANDING PNT - 8292' MD, 7789' TVD										
8,320.00	87.80	270.30	7,790.75	-1,029.12	-1,002.43	1,097.67	7.66	6.93	3.27	
8,414.00	87.98	269.99	7,794.21	-1,028.89	-1,096.36	1,191.14	0.38	0.19	-0.33	
8,508.00	88.11	269.77	7,797.42	-1,029.08	-1,190.31	1,284.66	0.27	0.14	-0.23	

Civitas Resources

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well CHICO 4-65 25-26 4AH
Project:	ARAPAHOE COUNTY	TVD Reference:	KBE 25' @ 5792.00usft
Site:	SEC 30-T4S-R64W	MD Reference:	KBE 25' @ 5792.00usft
Well:	CHICO 4-65 25-26 4AH	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDM

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
8,603.00	87.98	269.77	7,800.66	-1,029.47	-1,285.25	1,379.19	0.14	-0.14	0.00	
8,698.00	88.11	269.20	7,803.90	-1,030.32	-1,380.19	1,473.76	0.62	0.14	-0.60	
8,793.00	88.29	268.67	7,806.88	-1,032.08	-1,475.13	1,568.42	0.59	0.19	-0.56	
8,888.00	88.82	268.80	7,809.28	-1,034.18	-1,570.08	1,663.12	0.57	0.56	0.14	
8,982.00	89.09	268.28	7,810.99	-1,036.57	-1,664.03	1,756.86	0.62	0.29	-0.55	
9,076.00	89.31	267.70	7,812.30	-1,039.87	-1,757.96	1,850.67	0.66	0.23	-0.62	
9,172.00	90.10	268.10	7,812.80	-1,043.39	-1,853.89	1,946.49	0.92	0.82	0.42	
9,267.00	90.59	267.70	7,812.23	-1,046.87	-1,948.83	2,041.32	0.67	0.52	-0.42	
9,362.00	88.38	268.80	7,813.08	-1,049.77	-2,043.77	2,136.09	2.60	-2.33	1.16	
9,456.00	88.51	268.58	7,815.63	-1,051.92	-2,137.71	2,229.80	0.27	0.14	-0.23	
9,551.00	89.09	268.19	7,817.62	-1,054.60	-2,232.65	2,324.55	0.74	0.61	-0.41	
9,646.00	90.81	268.67	7,817.70	-1,057.20	-2,327.61	2,419.31	1.88	1.81	0.51	
9,740.00	87.80	269.69	7,818.84	-1,058.54	-2,421.59	2,512.97	3.38	-3.20	1.09	
9,835.00	88.11	269.69	7,822.23	-1,059.06	-2,516.52	2,607.51	0.33	0.33	0.00	
9,930.00	89.31	270.17	7,824.37	-1,059.17	-2,611.50	2,702.05	1.36	1.26	0.51	
10,025.00	88.60	269.69	7,826.11	-1,059.29	-2,706.48	2,796.59	0.90	-0.75	-0.51	
10,120.00	88.69	268.50	7,828.35	-1,060.79	-2,801.44	2,891.25	1.26	0.09	-1.25	
10,215.00	88.60	268.19	7,830.60	-1,063.53	-2,896.37	2,986.00	0.34	-0.09	-0.33	
10,309.00	89.22	270.48	7,832.39	-1,064.62	-2,990.34	3,079.63	2.52	0.66	2.44	
10,404.00	89.62	270.48	7,833.35	-1,063.83	-3,085.34	3,174.10	0.42	0.42	0.00	
10,498.00	90.41	270.79	7,833.32	-1,062.79	-3,179.33	3,267.54	0.90	0.84	0.33	
10,592.00	89.79	270.17	7,833.16	-1,062.00	-3,273.33	3,361.02	0.93	-0.66	-0.66	
10,687.00	90.90	269.69	7,832.59	-1,062.11	-3,368.32	3,455.58	1.27	1.17	-0.51	
10,781.00	89.00	271.01	7,832.67	-1,061.54	-3,462.31	3,549.07	2.46	-2.02	1.40	
10,874.00	88.20	270.48	7,834.94	-1,060.33	-3,555.28	3,641.47	1.03	-0.86	-0.57	
10,970.00	88.29	270.17	7,837.88	-1,059.79	-3,651.23	3,736.92	0.34	0.09	-0.32	
11,064.00	88.51	269.91	7,840.51	-1,059.72	-3,745.19	3,830.43	0.36	0.23	-0.28	
11,159.00	91.30	271.18	7,840.66	-1,058.82	-3,840.18	3,924.88	3.23	2.94	1.34	
11,254.00	90.59	271.49	7,839.10	-1,056.60	-3,935.14	4,019.18	0.82	-0.75	0.33	
11,347.00	91.21	271.49	7,837.64	-1,054.19	-4,028.09	4,111.46	0.67	0.67	0.00	
11,442.00	89.79	271.18	7,836.81	-1,051.97	-4,123.06	4,205.76	1.53	-1.49	-0.33	
11,536.00	89.79	270.70	7,837.15	-1,050.43	-4,217.05	4,299.15	0.51	0.00	-0.51	
11,726.00	89.62	270.70	7,838.13	-1,048.11	-4,407.03	4,488.01	0.09	-0.09	0.00	
11,821.00	89.40	270.30	7,838.94	-1,047.28	-4,502.03	4,582.47	0.48	-0.23	-0.42	
11,915.00	88.91	269.77	7,840.33	-1,047.22	-4,596.01	4,676.01	0.77	-0.52	-0.56	
12,009.00	89.62	270.08	7,841.53	-1,047.35	-4,690.01	4,769.57	0.82	0.76	0.33	
12,104.00	88.91	269.69	7,842.75	-1,047.54	-4,785.00	4,864.13	0.85	-0.75	-0.41	
12,200.00	89.22	270.17	7,844.32	-1,047.65	-4,880.98	4,959.68	0.60	0.32	0.50	
12,294.00	88.20	271.10	7,846.44	-1,046.61	-4,974.95	5,053.10	1.47	-1.09	0.99	
12,388.00	88.11	271.10	7,849.46	-1,044.81	-5,068.89	5,146.41	0.10	-0.10	0.00	
12,483.00	87.58	270.17	7,853.03	-1,043.76	-5,163.81	5,240.79	1.13	-0.56	-0.98	
12,577.00	89.09	270.88	7,855.77	-1,042.90	-5,257.76	5,334.21	1.77	1.61	0.76	
12,673.00	88.69	271.27	7,857.63	-1,041.10	-5,353.73	5,429.55	0.58	-0.42	0.41	

Civitas Resources

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well CHICO 4-65 25-26 4AH
Project:	ARAPAHOE COUNTY	TVD Reference:	KBE 25' @ 5792.00usft
Site:	SEC 30-T4S-R64W	MD Reference:	KBE 25' @ 5792.00usft
Well:	CHICO 4-65 25-26 4AH	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDM

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
12,767.00	87.89	271.10	7,860.43	-1,039.15	-5,447.67	5,522.85	0.87	-0.85	-0.18	
12,862.00	89.22	272.11	7,862.83	-1,036.49	-5,542.60	5,617.07	1.76	1.40	1.06	
12,957.00	88.29	271.40	7,864.89	-1,033.58	-5,637.53	5,711.27	1.23	-0.98	-0.75	
13,051.00	89.48	272.11	7,866.72	-1,030.71	-5,731.46	5,804.49	1.47	1.27	0.76	
13,145.00	89.00	271.49	7,867.97	-1,027.75	-5,825.41	5,897.70	0.83	-0.51	-0.66	
13,240.00	88.38	271.18	7,870.14	-1,025.54	-5,920.36	5,991.98	0.73	-0.65	-0.33	
13,335.00	90.19	270.30	7,871.32	-1,024.31	-6,015.34	6,086.40	2.12	1.91	-0.93	
13,429.00	90.50	270.08	7,870.76	-1,024.00	-6,109.33	6,179.92	0.40	0.33	-0.23	
13,524.00	91.21	270.30	7,869.34	-1,023.69	-6,204.32	6,274.43	0.78	0.75	0.23	
13,619.00	89.22	270.17	7,868.98	-1,023.30	-6,299.32	6,368.93	2.10	-2.09	-0.14	
13,713.00	88.38	269.51	7,870.95	-1,023.56	-6,393.29	6,462.49	1.14	-0.89	-0.70	
13,808.00	90.01	270.08	7,872.29	-1,023.90	-6,488.28	6,557.06	1.82	1.72	0.60	
13,903.00	89.62	270.39	7,872.59	-1,023.51	-6,583.28	6,651.57	0.52	-0.41	0.33	
13,997.00	88.82	269.99	7,873.87	-1,023.20	-6,677.27	6,745.09	0.95	-0.85	-0.43	
14,092.00	88.51	270.39	7,876.09	-1,022.88	-6,772.24	6,839.58	0.53	-0.33	0.42	
14,187.00	86.92	270.17	7,879.87	-1,022.42	-6,867.16	6,934.01	1.69	-1.67	-0.23	
14,281.00	87.89	271.01	7,884.13	-1,021.45	-6,961.06	7,027.37	1.36	1.03	0.89	
14,376.00	89.79	271.89	7,886.05	-1,019.05	-7,056.00	7,121.63	2.20	2.00	0.93	
14,470.00	90.10	271.58	7,886.14	-1,016.20	-7,149.96	7,214.86	0.47	0.33	-0.33	
14,565.00	90.10	271.01	7,885.98	-1,014.06	-7,244.94	7,309.18	0.60	0.00	-0.60	
14,659.00	90.50	274.49	7,885.49	-1,009.55	-7,338.81	7,402.17	3.73	0.43	3.70	
14,755.00	90.59	270.88	7,884.57	-1,005.05	-7,434.69	7,497.16	3.76	0.09	-3.76	
14,849.00	90.41	270.30	7,883.75	-1,004.08	-7,528.68	7,590.61	0.65	-0.19	-0.62	
14,943.00	89.79	269.07	7,883.59	-1,004.60	-7,622.67	7,684.21	1.47	-0.66	-1.31	
15,038.00	90.01	268.19	7,883.75	-1,006.87	-7,717.64	7,778.96	0.95	0.23	-0.93	
15,133.00	90.01	267.48	7,883.74	-1,010.46	-7,812.58	7,873.79	0.75	0.00	-0.75	
15,228.00	90.41	267.79	7,883.39	-1,014.38	-7,907.49	7,968.64	0.53	0.42	0.33	
15,323.00	90.28	267.39	7,882.82	-1,018.37	-8,002.41	8,063.49	0.44	-0.14	-0.42	
15,418.00	90.10	266.29	7,882.50	-1,023.61	-8,097.26	8,158.40	1.17	-0.19	-1.16	
15,513.00	90.81	269.60	7,881.75	-1,027.02	-8,192.18	8,253.21	3.56	0.75	3.48	
15,607.00	88.82	269.29	7,882.05	-1,027.93	-8,286.17	8,346.84	2.14	-2.12	-0.33	
15,702.00	88.60	269.07	7,884.19	-1,029.29	-8,381.14	8,441.49	0.33	-0.23	-0.23	
15,797.00	89.62	268.28	7,885.66	-1,031.48	-8,476.10	8,536.22	1.36	1.07	-0.83	
15,891.00	90.10	267.09	7,885.89	-1,035.28	-8,570.02	8,630.06	1.37	0.51	-1.27	
15,985.00	89.88	269.51	7,885.91	-1,038.07	-8,663.97	8,723.84	2.59	-0.23	2.57	
16,079.00	91.21	269.91	7,885.02	-1,038.54	-8,757.97	8,817.43	1.48	1.41	0.43	
16,174.00	89.62	269.77	7,884.33	-1,038.81	-8,852.96	8,912.00	1.68	-1.67	-0.15	
16,269.00	90.28	270.17	7,884.41	-1,038.86	-8,947.96	9,006.56	0.81	0.69	0.42	
16,365.00	89.62	270.61	7,884.50	-1,038.21	-9,043.96	9,102.04	0.83	-0.69	0.46	
16,459.00	89.79	270.48	7,884.98	-1,037.31	-9,137.95	9,195.50	0.23	0.18	-0.14	
16,554.00	89.22	268.58	7,885.80	-1,038.09	-9,232.94	9,290.12	2.09	-0.60	-2.00	
16,647.00	89.31	268.01	7,886.99	-1,040.86	-9,325.89	9,382.90	0.62	0.10	-0.61	
16,743.00	90.01	268.19	7,887.56	-1,044.04	-9,421.83	9,478.70	0.75	0.73	0.19	
16,838.00	89.70	269.38	7,887.80	-1,046.05	-9,516.81	9,573.42	1.29	-0.33	1.25	

Civitas Resources

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well CHICO 4-65 25-26 4AH
Project:	ARAPAHOE COUNTY	TVD Reference:	KBE 25' @ 5792.00usft
Site:	SEC 30-T4S-R64W	MD Reference:	KBE 25' @ 5792.00usft
Well:	CHICO 4-65 25-26 4AH	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDM

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
16,933.00	90.10	268.98	7,887.97	-1,047.41	-9,611.80	9,668.09	0.60	0.42	-0.42
17,027.00	89.31	270.48	7,888.45	-1,047.86	-9,705.80	9,761.68	1.80	-0.84	1.60
17,121.00	88.91	271.01	7,889.91	-1,046.64	-9,799.78	9,855.10	0.71	-0.43	0.56
17,216.00	89.09	270.61	7,891.57	-1,045.29	-9,894.75	9,949.50	0.46	0.19	-0.42
17,311.00	89.09	270.39	7,893.08	-1,044.46	-9,989.74	10,043.95	0.23	0.00	-0.23
17,406.00	88.82	270.39	7,894.81	-1,043.82	-10,084.72	10,138.42	0.28	-0.28	0.00
17,501.00	88.20	269.29	7,897.28	-1,044.08	-10,179.68	10,232.96	1.33	-0.65	-1.16
17,596.00	88.20	271.10	7,900.27	-1,043.76	-10,274.63	10,327.43	1.90	0.00	1.91
17,690.00	88.29	270.61	7,903.15	-1,042.36	-10,368.58	10,420.80	0.53	0.10	-0.52
17,785.00	88.29	270.17	7,905.98	-1,041.71	-10,463.53	10,515.24	0.46	0.00	-0.46
17,879.00	88.38	269.29	7,908.71	-1,042.15	-10,557.49	10,608.80	0.94	0.10	-0.94
17,946.00	88.60	269.29	7,910.48	-1,042.98	-10,624.46	10,675.53	0.33	0.33	0.00
LAST SURVEY - 17946' MD, 7910' TVD									
18,015.00	88.60	269.29	7,912.16	-1,043.84	-10,693.44	10,744.26	0.00	0.00	0.00
EXTRAPOLATION TO TD - 18015' MD, 7912' TVD, 1070' FSL, 330' FWL SEC 26									

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									
LP-CHICO 4-65 4AH	0.00	0.00	7,795.00	-1,062.54	-826.78	1,670,266.81	3,252,020.76	39.670271°N	104.604713°W
- actual wellpath misses target center by 46.91usft at 8148.68usft MD (7770.06 TVD, -1023.24 N, -832.62 E)									
- Point									
PBHL-CHICO 4-65 4AH	0.00	0.00	7,900.00	-1,014.05	-10,693.54	1,670,217.73	3,242,154.15	39.670398°N	104.639763°W
- actual wellpath misses target center by 32.17usft at 18014.44usft MD (7912.15 TVD, -1043.83 N, -10692.87 E)									
- Point									

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
3,278.00	3,240.39	-435.86	-106.73	SURFACE CSG - 3278' MD, 3240' TVD	
7,290.00	7,213.10	-970.07	-259.64	KOP - 7290' MD, 7213' TVD	
8,142.77	7,769.17	-1,022.93	-826.78	~330' X-OVER PNT - 8142.77' MD, 7769' TVD, 1140' FSL, 330' FEL SEC 25	
8,292.00	7,789.20	-1,029.05	-974.47	HZ LANDING PNT - 8292' MD, 7789' TVD	
17,946.00	7,910.48	-1,042.98	-10,624.46	LAST SURVEY - 17946' MD, 7910' TVD	
18,015.00	7,912.16	-1,043.84	-10,693.44	EXTRAPOLATION TO TD - 18015' MD, 7912' TVD, 1070' FSL, 330' FWL SEC 26	

Checked By: _____ Approved By: _____ Date: _____