

CRESTONE PEAK RESOURCES

WELD COUNTY

SEC 22-T1N-R68W

COSSLETT EAST 1L-22H-H168

OWB

Design: FINAL SURVEY

Standard Survey Report

01 June, 2023

Project: WELD COUNTY
 Site: SEC 22-T1N-R68W
 Well: COSSLETT EAST 1L-22H-H168
 Wellbore: OWB
 Design: FINAL SURVEY

PROJECT DETAILS: WELD COUNTY

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



Azimuths to True North
 Magnetic North: 7.73°
 Magnetic Field
 Strength: 51535.8nT
 Dip Angle: 66.26°
 Date: 5/19/2023
 Model: IGRF2020

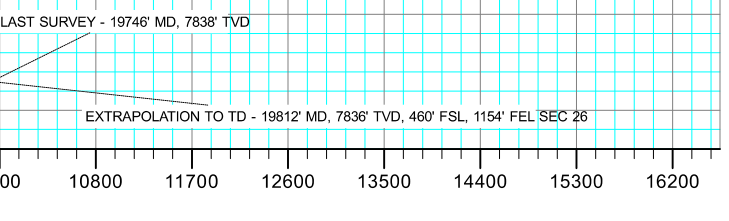
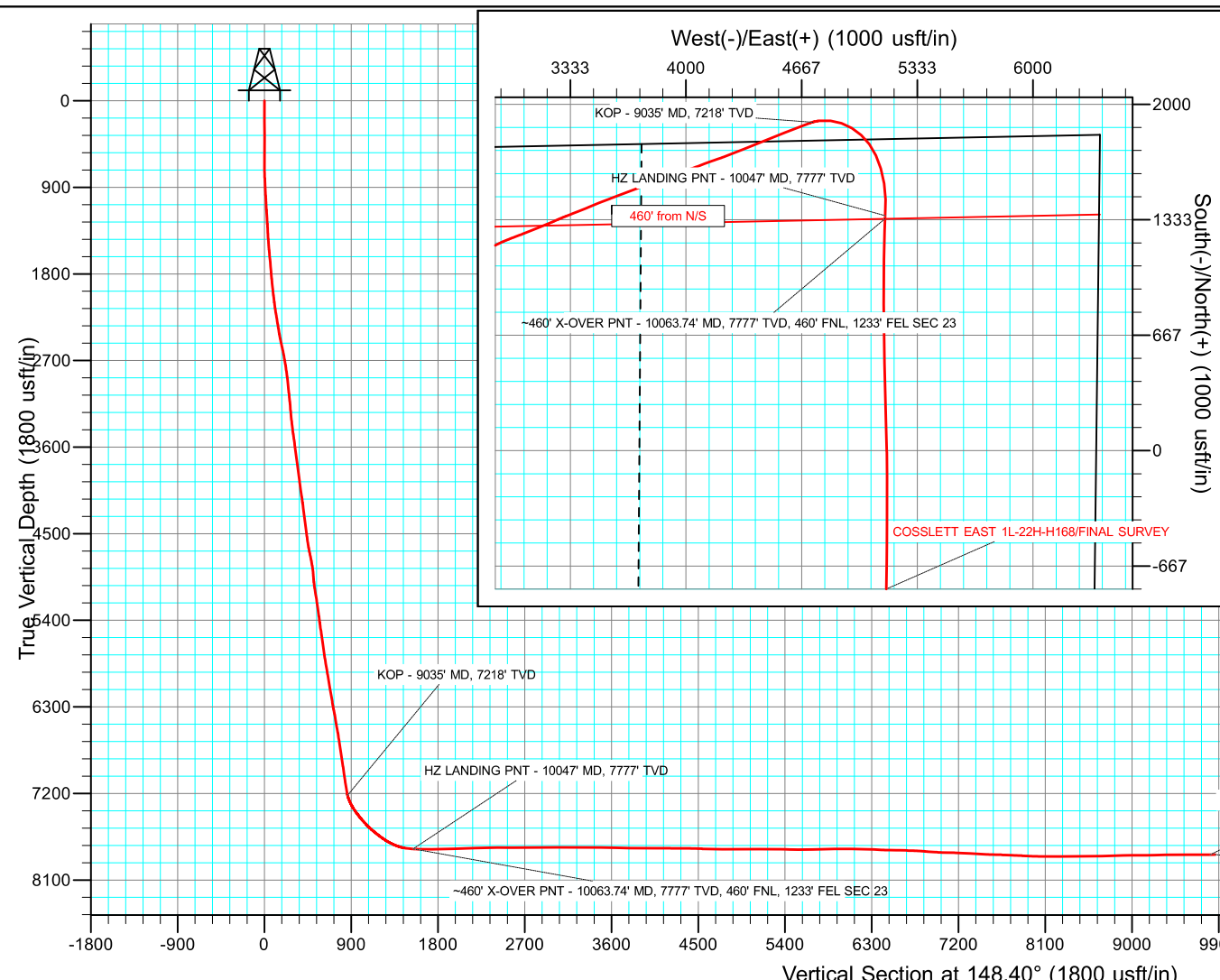
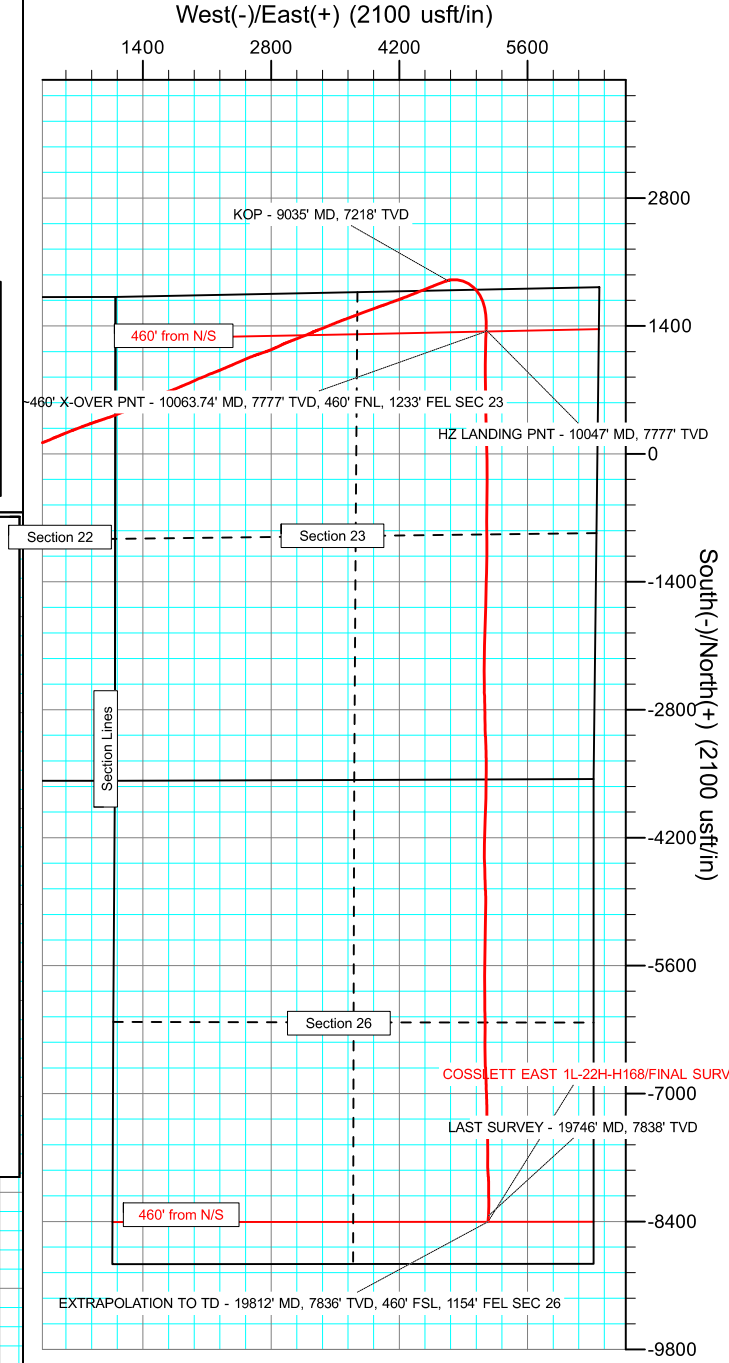
WELL DETAILS: COSSLETT EAST 1L-22H-H168

+N/-S	+E/-W	Northing	Easting	5181.00 Latitude	Longitude	Slot
0.00	0.00	1257557.71	3144483.12	40.039230°N	104.983972°W	

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
9035.00	41.79	74.27	7218.16	1896.98	4729.67	862.24	5099.83	KOP - 9035' MD, 7218' TVD
10047.00	87.07	182.92	7776.68	1356.02	5147.58	1541.97	5905.70	HZ LANDING PNT - 10047' MD, 7777' TVD
10063.74	87.44	182.68	7777.48	1339.31	5146.77	1555.76	5922.43	~460' X-OVER PNT - 10063.74' MD, 7777' TVD, 460' FNL, 1233' FEL SEC 23
19746.00	90.99	183.38	7837.50	-8337.51	5172.92	9811.82	15602.10	LAST SURVEY - 19746' MD, 7838' TVD
19812.00	90.99	183.38	7836.36	-8403.39	5169.03	9865.89	15668.10	EXTRAPOLATION TO TD - 19812' MD, 7836' TVD, 460' FSL, 1154' FEL SEC 26

SHL:
 1715' FNL, 1098' FEL
 Sec 22-T1N-R68W
 ~460' X-OVER PNT:
 460' FNL, 1233' FEL
 Sec 23-T1N-R68W
 BHL:
 460' FSL, 1154' FEL
 Sec 26-T1N-R68W



Civitas Resources

Survey Report

Company: CRESTONE PEAK RESOURCES	Local Co-ordinate Reference: Well COSSLETT EAST 1L-22H-H168
Project: WELD COUNTY	TVD Reference: KB 25' @ 5206.00usft
Site: SEC 22-T1N-R68W	MD Reference: KB 25' @ 5206.00usft
Well: COSSLETT EAST 1L-22H-H168	North Reference: True
Wellbore: OWB	Survey Calculation Method: Minimum Curvature
Design: FINAL SURVEY	Database: EDM

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

Site SEC 22-T1N-R68W			
Site Position:	Northing: 1,259,282.05 usft	Latitude: 40.043946°N	
From: Lat/Long	Easting: 3,145,574.24 usft	Longitude: 104.980039°W	
Position Uncertainty: 0.00 usft	Slot Radius: 13.200 in	Grid Convergence: 0.34 °	

Well COSSLETT EAST 1L-22H-H168			
Well Position +N/-S	0.00 usft	Northing: 1,257,557.71 usft	Latitude: 40.039230°N
+E/-W	0.00 usft	Easting: 3,144,483.12 usft	Longitude: 104.983972°W
Position Uncertainty	0.00 usft	Wellhead Elevation: usft	Ground Level: 5,181.00 usft

Wellbore OWB					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	5/19/2023	7.73	66.26	51,535.81651608

Design FINAL SURVEY				
Audit Notes:				
Version: 1.0	Phase: ACTUAL	Tie On Depth: 0.00		
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	148.40

Survey Program		Date 6/1/2023		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
130.00	2,491.00	SURFACE SURVEY (OWB)	MWD OWSG	OWSG MWD - Standard
2,619.00	19,812.00	FINAL SURVEY (OWB)	MWD OWSG	OWSG MWD - Standard

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
130.00	0.65	68.74	130.00	0.27	0.69	0.13	0.50	0.50	0.00
221.00	1.24	71.30	220.98	0.77	2.10	0.44	0.65	0.65	2.81
312.00	3.21	78.24	311.91	1.61	5.53	1.53	2.18	2.16	7.63
403.00	4.54	61.92	402.70	3.82	11.20	2.61	1.88	1.46	-17.93
497.00	5.15	44.53	496.37	8.58	17.44	1.83	1.68	0.65	-18.50
557.00	4.51	51.64	556.16	11.96	21.18	0.91	1.46	-1.07	11.85
685.00	5.36	63.69	683.69	17.74	30.49	0.87	1.04	0.66	9.41
780.00	7.94	72.15	778.04	21.71	40.71	2.83	2.90	2.72	8.91
876.00	10.01	75.23	872.86	25.87	55.09	6.83	2.21	2.16	3.21

Civitas Resources

Survey Report

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Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Well:	COSSLETT EAST 1L-22H-H168	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)
971.00	12.72	72.12	965.99	31.19	73.03	11.70	2.92	2.85	-3.27
1,066.00	14.97	70.72	1,058.23	38.46	94.57	16.79	2.39	2.37	-1.47
1,161.00	17.86	70.22	1,149.34	47.44	119.87	22.40	3.05	3.04	-0.53
1,256.00	19.44	68.16	1,239.35	58.25	148.25	28.06	1.80	1.66	-2.17
1,350.00	21.16	66.27	1,327.51	70.90	178.30	33.03	1.96	1.83	-2.01
1,446.00	23.58	66.76	1,416.28	85.45	211.82	38.19	2.53	2.52	0.51
1,541.00	25.87	68.13	1,502.57	100.67	248.51	44.46	2.48	2.41	1.44
1,635.00	28.25	68.66	1,586.27	116.41	288.27	51.88	2.54	2.53	0.56
1,731.00	29.36	67.79	1,670.39	133.57	331.22	59.77	1.24	1.16	-0.91
1,825.00	30.08	66.64	1,752.03	151.62	374.18	66.90	0.98	0.77	-1.22
1,920.00	31.52	66.72	1,833.63	170.88	418.85	73.90	1.52	1.52	0.08
2,015.00	33.47	67.68	1,913.75	190.64	465.90	81.72	2.12	2.05	1.01
2,111.00	34.84	68.00	1,993.19	210.97	515.82	90.56	1.44	1.43	0.33
2,205.00	36.31	68.11	2,069.64	231.41	566.54	99.73	1.57	1.56	0.12
2,300.00	38.68	68.21	2,145.01	252.91	620.21	109.53	2.50	2.49	0.11
2,395.00	40.83	69.37	2,218.04	274.88	676.85	120.49	2.39	2.26	1.22
2,491.00	41.39	69.31	2,290.37	297.15	735.91	132.46	0.58	0.58	-0.06
2,619.00	39.23	70.19	2,387.98	325.82	813.59	148.74	1.75	-1.69	0.69
2,809.00	44.21	71.72	2,529.75	366.99	933.09	176.29	2.68	2.62	0.81
2,904.00	42.85	71.52	2,598.63	387.62	995.18	191.25	1.44	-1.43	-0.21
3,094.00	42.21	68.64	2,738.66	431.35	1,115.91	217.25	1.08	-0.34	-1.52
3,188.00	42.55	67.46	2,808.09	455.03	1,174.68	227.87	0.92	0.36	-1.26
3,283.00	40.58	66.36	2,879.17	479.74	1,232.66	237.20	2.21	-2.07	-1.16
3,378.00	41.06	65.16	2,951.06	505.24	1,289.28	245.15	0.97	0.51	-1.26
3,473.00	41.60	65.38	3,022.40	531.48	1,346.26	252.65	0.59	0.57	0.23
3,568.00	42.09	64.85	3,093.17	558.15	1,403.75	260.06	0.64	0.52	-0.56
3,757.00	38.93	64.21	3,236.85	610.92	1,514.59	273.18	1.69	-1.67	-0.34
3,852.00	38.49	66.47	3,310.98	635.71	1,568.57	280.35	1.56	-0.46	2.38
3,969.00	38.77	66.72	3,402.38	664.72	1,635.60	290.75	0.27	0.24	0.21
4,065.00	39.30	69.31	3,476.96	687.35	1,691.66	300.85	1.79	0.55	2.70
4,254.00	40.02	66.81	3,622.47	732.43	1,803.52	321.06	0.93	0.38	-1.32
4,349.00	40.95	67.19	3,694.72	756.52	1,860.30	330.28	1.01	0.98	0.40
4,444.00	41.06	66.86	3,766.41	780.85	1,917.68	339.63	0.26	0.12	-0.35
4,538.00	41.41	66.73	3,837.10	805.27	1,974.63	348.67	0.38	0.37	-0.14
4,634.00	41.66	66.79	3,908.96	830.38	2,033.12	357.92	0.26	0.26	0.06
4,729.00	41.07	67.45	3,980.26	854.80	2,090.96	367.43	0.77	-0.62	0.69
4,824.00	40.72	67.40	4,052.07	878.67	2,148.39	377.18	0.37	-0.37	-0.05
4,919.00	41.25	69.21	4,123.79	901.70	2,206.28	387.90	1.37	0.56	1.91
5,015.00	40.90	66.18	4,196.17	925.63	2,264.62	398.09	2.11	-0.36	-3.16
5,110.00	41.77	67.45	4,267.50	950.32	2,322.30	407.27	1.27	0.92	1.34
5,205.00	42.36	66.31	4,338.03	975.32	2,380.83	416.65	1.02	0.62	-1.20
5,300.00	42.40	65.83	4,408.20	1,001.29	2,439.36	425.19	0.34	0.04	-0.51
5,395.00	42.64	66.62	4,478.22	1,027.17	2,498.12	433.93	0.62	0.25	0.83

Civitas Resources

Survey Report

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Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Well:	COSSLETT EAST 1L-22H-H168	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)	
5,489.00	41.35	67.83	4,548.08	1,051.52	2,556.10	443.57	1.62	-1.37	1.29	
5,584.00	40.73	69.23	4,619.74	1,074.36	2,614.14	454.53	1.17	-0.65	1.47	
5,678.00	41.93	72.06	4,690.33	1,094.91	2,672.70	467.70	2.36	1.28	3.01	
5,774.00	42.86	71.21	4,761.22	1,115.31	2,734.13	482.51	1.14	0.97	-0.89	
5,869.00	42.34	68.01	4,831.16	1,137.70	2,794.39	495.02	2.34	-0.55	-3.37	
5,964.00	42.25	65.09	4,901.44	1,163.13	2,853.03	504.07	2.07	-0.09	-3.07	
6,059.00	41.04	63.71	4,972.43	1,190.40	2,909.96	510.68	1.60	-1.27	-1.45	
6,154.00	39.38	67.89	5,044.99	1,215.56	2,965.85	518.53	3.33	-1.75	4.40	
6,249.00	40.60	69.62	5,117.78	1,237.67	3,022.76	529.51	1.74	1.28	1.82	
6,344.00	41.43	68.14	5,189.46	1,260.14	3,080.91	540.84	1.34	0.87	-1.56	
6,439.00	40.54	67.99	5,261.17	1,283.41	3,138.70	551.30	0.94	-0.94	-0.16	
6,533.00	41.58	68.04	5,332.05	1,306.53	3,195.96	561.60	1.11	1.11	0.05	
6,628.00	42.97	65.96	5,402.34	1,331.51	3,254.77	571.14	2.08	1.46	-2.19	
6,723.00	39.85	69.05	5,473.59	1,355.59	3,312.78	581.02	3.93	-3.28	3.25	
6,819.00	40.23	68.29	5,547.09	1,378.05	3,370.31	592.03	0.65	0.40	-0.79	
6,913.00	41.14	67.64	5,618.37	1,401.04	3,427.11	602.20	1.07	0.97	-0.69	
7,007.00	39.92	67.48	5,689.82	1,424.36	3,483.57	611.93	1.30	-1.30	-0.17	
7,102.00	39.84	69.21	5,762.72	1,446.84	3,540.18	622.44	1.17	-0.08	1.82	
7,197.00	41.46	69.05	5,834.79	1,468.88	3,598.00	633.96	1.71	1.71	-0.17	
7,293.00	40.75	70.34	5,907.13	1,490.79	3,657.19	646.31	1.15	-0.74	1.34	
7,387.00	41.93	68.37	5,977.71	1,512.69	3,715.28	658.09	1.87	1.26	-2.10	
7,482.00	41.70	69.32	6,048.51	1,535.55	3,774.35	669.57	0.71	-0.24	1.00	
7,577.00	41.57	70.65	6,119.52	1,557.15	3,833.65	682.24	0.94	-0.14	1.40	
7,672.00	41.55	69.26	6,190.60	1,578.75	3,892.85	694.86	0.97	-0.02	-1.46	
7,766.00	40.32	69.31	6,261.61	1,600.54	3,950.46	706.48	1.31	-1.31	0.05	
7,861.00	41.25	71.94	6,333.55	1,621.11	4,008.99	719.63	2.06	0.98	2.77	
7,955.00	41.48	69.18	6,404.10	1,641.78	4,067.56	732.70	1.96	0.24	-2.94	
8,050.00	40.75	69.61	6,475.68	1,663.77	4,126.03	744.61	0.82	-0.77	0.45	
8,145.00	40.60	71.38	6,547.73	1,684.44	4,184.39	757.58	1.22	-0.16	1.86	
8,241.00	41.10	68.02	6,620.35	1,706.23	4,243.26	769.87	2.35	0.52	-3.50	
8,336.00	40.93	68.72	6,692.04	1,729.21	4,301.21	780.65	0.52	-0.18	0.74	
8,526.00	41.48	68.09	6,834.98	1,775.28	4,417.59	802.39	0.36	0.29	-0.33	
8,621.00	41.29	68.72	6,906.26	1,798.39	4,475.98	813.29	0.48	-0.20	0.66	
8,715.00	40.96	67.01	6,977.07	1,821.68	4,533.25	823.46	1.25	-0.35	-1.82	
8,810.00	41.05	68.42	7,048.76	1,845.32	4,590.92	833.54	0.98	0.09	1.48	
8,906.00	40.83	69.71	7,121.28	1,867.80	4,649.67	845.18	0.91	-0.23	1.34	
9,001.00	41.57	69.00	7,192.76	1,889.86	4,708.22	857.06	0.92	0.78	-0.75	
9,035.00	41.79	74.27	7,218.16	1,896.98	4,729.67	862.24	10.33	0.64	15.51	
KOP - 9035' MD, 7218' TVD										
9,095.00	42.75	83.38	7,262.61	1,904.75	4,769.18	876.32	10.33	1.60	15.18	
9,190.00	42.37	96.33	7,332.72	1,904.94	4,833.14	909.67	9.22	-0.40	13.63	
9,285.00	44.16	109.02	7,402.02	1,890.60	4,896.37	955.01	9.34	1.88	13.36	
9,381.00	43.83	121.22	7,471.21	1,862.42	4,956.52	1,010.53	8.83	-0.34	12.71	

Civitas Resources

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Well:	COSSLETT EAST 1L-22H-H168	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)	
9,475.00	46.02	132.24	7,537.87	1,822.74	5,009.48	1,072.07	8.59	2.33	11.72	
9,570.00	50.52	143.90	7,601.21	1,770.02	5,056.50	1,141.62	10.30	4.74	12.27	
9,666.00	54.34	155.16	7,659.85	1,704.53	5,094.81	1,217.46	10.10	3.98	11.73	
9,761.00	62.64	164.93	7,709.54	1,628.51	5,122.08	1,296.51	12.36	8.74	10.28	
9,857.00	71.25	169.25	7,747.12	1,542.49	5,141.69	1,380.04	9.88	8.97	4.50	
9,952.00	82.91	180.08	7,768.38	1,450.59	5,150.07	1,462.71	16.54	12.27	11.40	
10,047.00	87.07	182.92	7,776.68	1,356.02	5,147.58	1,541.97	5.30	4.38	2.99	
HZ LANDING PNT - 10047' MD, 7777' TVD										
10,063.74	87.44	182.68	7,777.48	1,339.31	5,146.77	1,555.76	2.64	2.21	-1.44	
-460' X-OVER PNT - 10063.74' MD, 7777' TVD, 460' FNL, 1233' FEL SEC 23										
10,141.00	89.15	181.57	7,779.78	1,262.15	5,143.90	1,619.99	2.64	2.21	-1.44	
10,237.00	90.16	180.58	7,780.36	1,166.17	5,142.10	1,700.80	1.47	1.05	-1.03	
10,428.00	91.09	180.62	7,778.27	975.19	5,140.10	1,862.42	0.49	0.49	0.02	
10,522.00	91.72	180.53	7,775.97	881.22	5,139.16	1,941.96	0.68	0.67	-0.10	
10,617.00	91.32	179.31	7,773.45	786.26	5,139.29	2,022.92	1.35	-0.42	-1.28	
10,712.00	92.16	178.66	7,770.56	691.32	5,140.97	2,104.67	1.12	0.88	-0.68	
10,807.00	91.04	179.09	7,767.91	596.38	5,142.84	2,186.51	1.26	-1.18	0.45	
10,902.00	91.85	178.74	7,765.51	501.43	5,144.64	2,268.33	0.93	0.85	-0.37	
10,997.00	90.05	178.96	7,763.94	406.46	5,146.54	2,350.21	1.91	-1.89	0.23	
11,092.00	91.31	178.81	7,762.81	311.49	5,148.39	2,432.08	1.34	1.33	-0.16	
11,188.00	89.08	178.72	7,762.49	215.52	5,150.46	2,514.91	2.32	-2.32	-0.09	
11,283.00	90.28	178.03	7,763.02	120.56	5,153.15	2,597.20	1.46	1.26	-0.73	
11,378.00	91.51	178.38	7,761.53	25.62	5,156.13	2,679.62	1.35	1.29	0.37	
11,473.00	89.91	179.27	7,760.36	-69.35	5,158.08	2,761.54	1.93	-1.68	0.94	
11,568.00	91.21	179.82	7,759.43	-164.34	5,158.83	2,842.84	1.49	1.37	0.58	
11,663.00	88.64	180.36	7,759.55	-259.33	5,158.68	2,923.67	2.76	-2.71	0.57	
11,758.00	89.31	179.77	7,761.25	-354.31	5,158.58	3,004.52	0.94	0.71	-0.62	
11,853.00	89.43	180.49	7,762.30	-449.31	5,158.36	3,085.32	0.77	0.13	0.76	
11,948.00	90.29	180.34	7,762.53	-544.30	5,157.67	3,165.87	0.92	0.91	-0.16	
12,044.00	90.71	181.39	7,761.69	-640.29	5,156.22	3,246.87	1.18	0.44	1.09	
12,234.00	89.99	179.85	7,760.53	-830.27	5,154.17	3,407.61	0.89	-0.38	-0.81	
12,329.00	88.99	178.56	7,761.37	-925.25	5,155.48	3,489.20	1.72	-1.05	-1.36	
12,518.00	89.08	180.77	7,764.56	-1,114.21	5,156.59	3,650.73	1.17	0.05	1.17	
12,708.00	88.91	181.80	7,767.89	-1,304.13	5,152.33	3,810.26	0.55	-0.09	0.54	
12,803.00	89.76	181.98	7,768.99	-1,399.07	5,149.20	3,889.49	0.91	0.89	0.19	
12,898.00	91.02	182.42	7,768.35	-1,494.00	5,145.55	3,968.43	1.40	1.33	0.46	
12,993.00	89.04	180.42	7,768.30	-1,588.96	5,143.20	4,048.08	2.96	-2.08	-2.11	
13,089.00	90.32	181.31	7,768.83	-1,684.94	5,141.75	4,129.08	1.62	1.33	0.93	
13,184.00	88.73	180.80	7,769.62	-1,779.92	5,140.00	4,209.06	1.76	-1.67	-0.54	
13,279.00	89.15	180.21	7,771.38	-1,874.90	5,139.16	4,289.52	0.76	0.44	-0.62	
13,375.00	90.73	182.74	7,771.48	-1,970.86	5,136.69	4,369.96	3.11	1.65	2.64	
13,469.00	88.32	182.85	7,772.26	-2,064.73	5,132.11	4,447.52	2.57	-2.56	0.12	
13,564.00	88.60	182.44	7,774.81	-2,159.60	5,127.72	4,526.03	0.52	0.29	-0.43	
13,659.00	89.23	179.60	7,776.61	-2,254.56	5,126.03	4,606.02	3.06	0.66	-2.99	

Civitas Resources

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1L-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Well:	COSSLETT EAST 1L-22H-H168	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)	
13,754.00	89.30	179.75	7,777.83	-2,349.55	5,126.57	4,687.21	0.17	0.07	0.16	
13,945.00	89.13	179.16	7,780.45	-2,540.52	5,128.39	4,850.83	0.32	-0.09	-0.31	
14,039.00	89.38	178.93	7,781.67	-2,634.50	5,129.96	4,931.70	0.36	0.27	-0.24	
14,134.00	90.57	178.48	7,781.71	-2,729.47	5,132.10	5,013.72	1.34	1.25	-0.47	
14,324.00	91.38	179.35	7,778.48	-2,919.41	5,135.70	5,177.38	0.63	0.43	0.46	
14,419.00	89.33	178.47	7,777.89	-3,014.38	5,137.51	5,259.22	2.35	-2.16	-0.93	
14,514.00	88.98	176.85	7,779.29	-3,109.29	5,141.39	5,342.09	1.74	-0.37	-1.71	
14,609.00	87.73	177.89	7,782.02	-3,204.15	5,145.74	5,425.17	1.71	-1.32	1.09	
14,799.00	90.95	179.90	7,784.20	-3,394.06	5,149.40	5,588.86	2.00	1.69	1.06	
14,894.00	90.63	180.69	7,782.89	-3,489.05	5,148.92	5,669.51	0.90	-0.34	0.83	
14,989.00	92.27	179.64	7,780.49	-3,584.02	5,148.64	5,750.25	2.05	1.73	-1.11	
15,179.00	90.22	182.03	7,776.36	-3,773.93	5,145.87	5,910.56	1.66	-1.08	1.26	
15,274.00	90.38	182.53	7,775.86	-3,868.85	5,142.09	5,989.43	0.55	0.17	0.53	
15,464.00	88.51	182.05	7,777.70	-4,058.68	5,134.50	6,147.14	1.02	-0.98	-0.25	
15,558.00	89.37	181.21	7,779.44	-4,152.63	5,131.83	6,225.76	1.28	0.91	-0.89	
15,653.00	87.47	180.67	7,782.06	-4,247.57	5,130.27	6,305.82	2.08	-2.00	-0.57	
15,749.00	87.75	180.57	7,786.07	-4,343.48	5,129.23	6,386.97	0.31	0.29	-0.10	
15,844.00	88.92	178.70	7,788.83	-4,438.44	5,129.84	6,468.16	2.32	1.23	-1.97	
15,939.00	89.84	178.33	7,789.85	-4,533.40	5,132.30	6,550.34	1.04	0.97	-0.39	
16,034.00	88.07	178.29	7,791.59	-4,628.34	5,135.10	6,632.67	1.86	-1.86	-0.04	
16,129.00	88.76	177.67	7,794.22	-4,723.24	5,138.45	6,715.26	0.98	0.73	-0.65	
16,224.00	86.24	177.97	7,798.36	-4,818.07	5,142.06	6,797.92	2.67	-2.65	0.32	
16,318.00	86.72	180.98	7,804.13	-4,911.88	5,142.92	6,878.28	3.24	0.51	3.20	
16,413.00	86.69	180.40	7,809.59	-5,006.72	5,141.78	6,958.45	0.61	-0.03	-0.61	
16,507.00	88.33	181.15	7,813.68	-5,100.61	5,140.50	7,037.77	1.92	1.74	0.80	
16,603.00	89.35	181.43	7,815.62	-5,196.57	5,138.34	7,118.37	1.10	1.06	0.29	
16,698.00	87.53	180.68	7,818.20	-5,291.51	5,136.60	7,198.32	2.07	-1.92	-0.79	
16,792.00	88.12	180.66	7,821.77	-5,385.44	5,135.50	7,277.75	0.63	0.63	-0.02	
16,887.00	86.65	180.72	7,826.11	-5,480.33	5,134.35	7,357.97	1.55	-1.55	0.06	
16,982.00	87.50	180.08	7,830.95	-5,575.20	5,133.69	7,438.44	1.12	0.89	-0.67	
17,077.00	88.10	180.70	7,834.60	-5,670.13	5,133.05	7,518.95	0.91	0.63	0.65	
17,173.00	89.12	180.56	7,836.93	-5,766.09	5,131.99	7,600.14	1.07	1.06	-0.15	
17,268.00	87.84	179.83	7,839.45	-5,861.06	5,131.67	7,680.85	1.55	-1.35	-0.77	
17,363.00	87.94	179.20	7,842.95	-5,955.99	5,132.47	7,762.14	0.67	0.11	-0.66	
17,458.00	87.77	179.54	7,846.50	-6,050.92	5,133.51	7,843.54	0.40	-0.18	0.36	
17,553.00	87.09	178.09	7,850.76	-6,145.80	5,135.48	7,925.38	1.68	-0.72	-1.53	
17,648.00	88.83	179.86	7,854.15	-6,240.71	5,137.17	8,007.12	2.61	1.83	1.86	
17,839.00	89.95	180.85	7,856.18	-6,431.69	5,135.99	8,169.17	0.78	0.59	0.52	
17,933.00	89.92	178.86	7,856.29	-6,525.69	5,136.23	8,249.35	2.12	-0.03	-2.12	
18,028.00	91.02	178.89	7,855.51	-6,620.67	5,138.09	8,331.23	1.16	1.16	0.03	
18,122.00	90.40	178.11	7,854.34	-6,714.63	5,140.55	8,412.55	1.06	-0.66	-0.83	
18,218.00	90.31	176.42	7,853.75	-6,810.51	5,145.13	8,496.62	1.76	-0.09	-1.76	
18,313.00	90.18	178.92	7,853.34	-6,905.42	5,149.00	8,579.49	2.64	-0.14	2.63	

Civitas Resources

Survey Report

Company: CRESTONE PEAK RESOURCES	Local Co-ordinate Reference: Well COSSLETT EAST 1L-22H-H168
Project: WELD COUNTY	TVD Reference: KB 25' @ 5206.00usft
Site: SEC 22-T1N-R68W	MD Reference: KB 25' @ 5206.00usft
Well: COSSLETT EAST 1L-22H-H168	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)
18,407.00	91.02	178.33	7,852.36	-6,999.39	5,151.25	8,660.71	1.09	0.89	-0.63
18,502.00	92.76	178.02	7,849.22	-7,094.29	5,154.28	8,743.12	1.86	1.83	-0.33
18,598.00	91.55	179.41	7,845.61	-7,190.19	5,156.43	8,825.93	1.92	-1.26	1.45
18,692.00	90.51	179.17	7,843.92	-7,284.17	5,157.59	8,906.59	1.14	-1.11	-0.26
18,788.00	90.01	178.18	7,843.49	-7,380.14	5,159.81	8,989.50	1.16	-0.52	-1.03
18,883.00	89.92	177.18	7,843.55	-7,475.06	5,163.66	9,072.36	1.06	-0.09	-1.05
18,979.00	90.99	180.77	7,842.78	-7,571.02	5,165.37	9,155.00	3.90	1.11	3.74
19,074.00	90.97	180.50	7,841.16	-7,666.01	5,164.32	9,235.35	0.28	-0.02	-0.28
19,169.00	91.17	179.69	7,839.38	-7,760.99	5,164.16	9,316.17	0.88	0.21	-0.85
19,265.00	91.19	175.49	7,837.41	-7,856.86	5,168.20	9,399.94	4.37	0.02	-4.37
19,359.00	89.41	177.45	7,836.91	-7,950.67	5,173.99	9,482.88	2.82	-1.89	2.09
19,454.00	90.12	181.12	7,837.30	-8,045.65	5,175.17	9,564.40	3.93	0.75	3.86
19,549.00	89.58	177.69	7,837.55	-8,140.63	5,176.16	9,645.82	3.65	-0.57	-3.61
19,644.00	89.72	181.25	7,838.13	-8,235.61	5,177.04	9,727.18	3.75	0.15	3.75
19,746.00	90.99	183.38	7,837.50	-8,337.51	5,172.92	9,811.82	2.43	1.25	2.09
LAST SURVEY - 19746' MD, 7838' TVD									
19,812.00	90.99	183.38	7,836.36	-8,403.39	5,169.03	9,865.89	0.00	0.00	0.00
EXTRAPOLATION TO TD - 19812' MD, 7836' TVD, 460' FSL, 1154' FEL SEC 26									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LP-COSSLETT E 1L-H1 - hit/miss target - Shape	0.00	0.00	7,770.00	1,339.31	5,169.41	1,258,927.03	3,149,644.46	40.042905°N	104.965509°W
- actual wellpath misses target center by 23.81usft at 10062.28usft MD (7777.41 TVD, 1340.77 N, 5146.83 E)									
- Point									
PBHL-COSSLETT E 1L- - hit/miss target - Shape	0.00	0.00	7,890.00	-8,403.95	5,136.71	1,249,184.10	3,149,668.46	40.016159°N	104.965633°W
- actual wellpath misses target center by 62.63usft at 19812.00usft MD (7836.36 TVD, -8403.39 N, 5169.03 E)									
- Point									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,035.00	7,218.16	1,896.98	4,729.67	KOP - 9035' MD, 7218' TVD
10,047.00	7,776.68	1,356.02	5,147.58	HZ LANDING PNT - 10047' MD, 7777' TVD
10,063.74	7,777.48	1,339.31	5,146.77	~460' X-OVER PNT - 10063.74' MD, 7777' TVD, 460' FNL, 1233' FEL SEC 23
19,746.00	7,837.50	-8,337.51	5,172.92	LAST SURVEY - 19746' MD, 7838' TVD
19,812.00	7,836.36	-8,403.39	5,169.03	EXTRAPOLATION TO TD - 19812' MD, 7836' TVD, 460' FSL, 1154' FEL SEC 2

Checked By: _____ Approved By: _____ Date: _____