

CRESTONE PEAK RESOURCES

ARAPAHOE COUNTY

SEC 15-T4S-R65W

PROSPER FARMS 4-65 14-13 4BH

OWB

Design: FINAL SURVEY

Standard Survey Report

02 November, 2022

Project: ARAPAHOE COUNTY
Site: SEC 15-T4S-R65W
Well: PROSPER FARMS 4-65 14-13 4BH
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



Azimuths to True North
Magnetic North: 7.65°
Magnetic Field
Strength: 51525.1nT
Dip Angle: 66.09°
Date: 2/10/2022
Model: IGRF2020

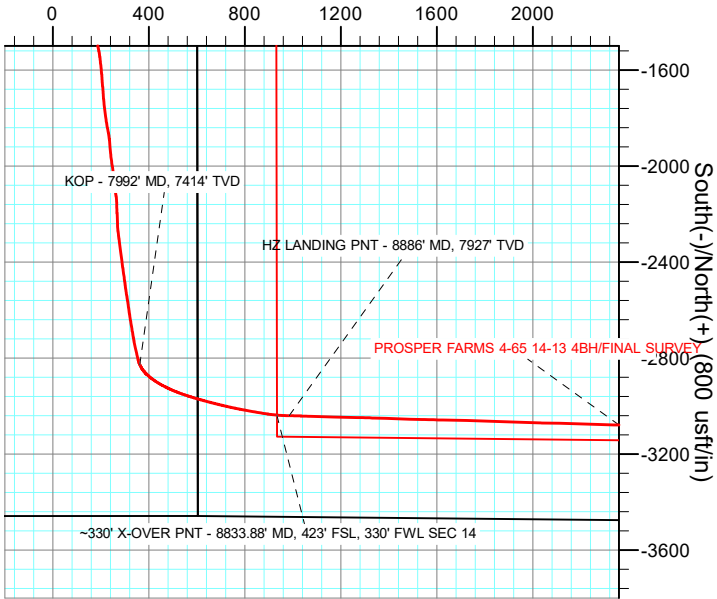
WELL DETAILS: PROSPER FARMS 4-65 14-13 4BH

+N/-S	+E/-W	Northing	Easting	5693.30	Latitude	Longitude	Slot
0.00	0.00	1683205.33	3241111.36		39.706078°N	104.643032°W	

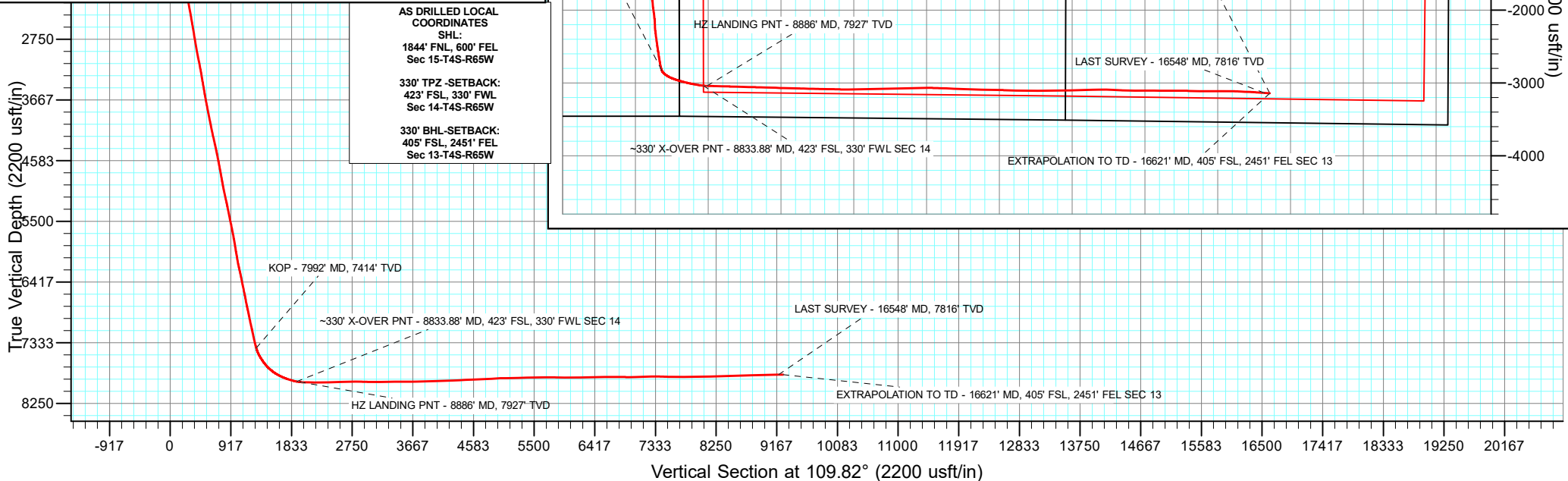
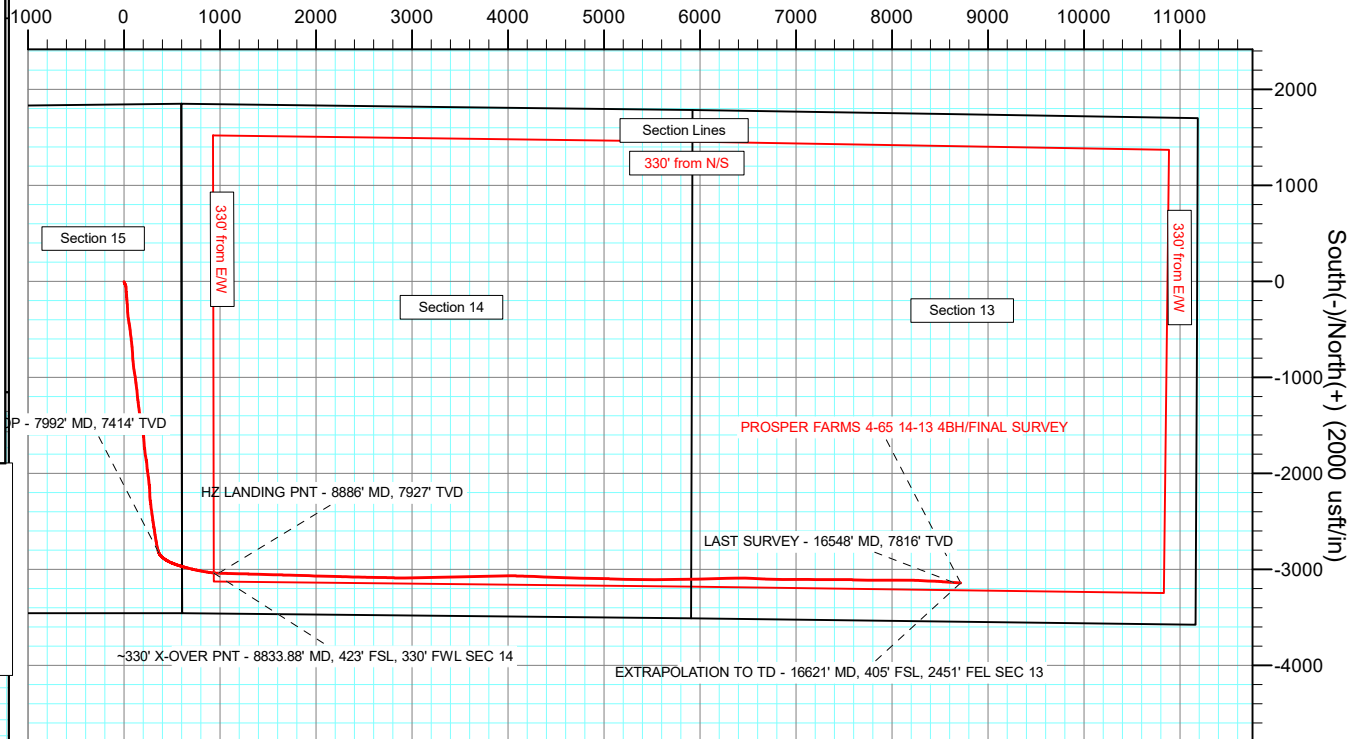
ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
7992.00	23.51	155.84	7413.52	-2827.60	363.00	1300.30	2853.87	KOP - 7992' MD, 7414' TVD
8833.88	79.46	94.98	7919.39	-3037.03	933.95	1908.44	3479.11	~330' X-OVER PNT - 8833.88' MD, 423' FSL, 330' FWL SEC 14
8886.00	84.00	91.12	7926.86	-3039.61	985.44	1957.76	3530.38	HZ LANDING PNT - 8886' MD, 7927' TVD
16548.00	89.35	93.62	7816.08	-3136.47	8641.65	9193.21	11189.55	LAST SURVEY - 16548' MD, 7816' TVD
16621.00	89.35	93.62	7816.91	-3141.08	8714.50	9263.31	11262.54	EXTRAPOLATION TO TD - 16621' MD, 405' FSL, 2451' FEL SEC 13

West(-)/East(+) (800 usft/in)



West(-)/East(+) (2000 usft/in)



Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well PROSPER FARMS 4-65 14-13 4BH
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5718.30usft
Site:	SEC 15-T4S-R65W	MD Reference:	KB 25' @ 5718.30usft
Well:	PROSPER FARMS 4-65 14-13 4BH	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDT_32Bit_ODBC

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 15-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	PROSPER FARMS 4-65 14-13 4BH					
Well Position	+N/-S	0.00 usft	Northing:	1,683,205.33 usft	Latitude:	39.706078°N
	+E/-W	0.00 usft	Easting:	3,241,111.36 usft	Longitude:	104.643032°W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	5,693.30 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	2/10/2022	7.65	66.09	51,525.13439282

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	109.82	

Survey Program	Date	11/2/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
303.00	3,676.00	SURFACE SURVEY (OWB)	MWD OWSG	OWSG MWD - Standard	
3,771.00	16,621.00	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)	
211.00	1.40	161.60	210.98	-2.33	0.78	1.52	0.00	0.00	0.00	
303.00	2.37	162.95	302.93	-5.22	1.69	3.36	1.06	1.05	1.47	
377.00	2.98	162.86	376.85	-8.52	2.71	5.44	0.82	0.82	-0.12	
464.00	5.09	166.64	463.63	-14.43	4.27	8.91	2.44	2.43	4.34	
551.00	5.66	151.17	550.25	-21.95	7.23	14.24	1.78	0.66	-17.78	
638.00	6.90	154.40	636.73	-30.42	11.55	21.18	1.48	1.43	3.71	
725.00	8.80	158.20	722.91	-41.31	16.28	29.33	2.26	2.18	4.37	
812.00	10.20	167.10	808.72	-55.00	20.48	37.91	2.33	1.61	10.23	
900.00	11.99	177.89	895.08	-71.73	22.55	45.54	3.11	2.03	12.26	
987.00	13.40	177.50	979.95	-90.84	23.32	52.74	1.62	1.62	-0.45	

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Site:	SEC 15-T4S-R65W	MD Reference:	KB 25' @ 5718.30usft
Well:	PROSPER FARMS 4-65 14-13 4BH	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDT_32Bit_ODBC

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)
1,074.00	15.10	178.90	1,064.27	-112.24	23.98	60.62	1.99	1.95	1.61
1,161.00	17.60	174.70	1,147.75	-136.67	25.41	70.25	3.18	2.87	-4.83
1,249.00	19.40	175.00	1,231.20	-164.48	27.92	82.04	2.05	2.05	0.34
1,336.00	21.50	173.90	1,312.71	-194.73	30.87	95.07	2.45	2.41	-1.26
1,423.00	24.10	176.60	1,392.91	-228.32	33.62	109.05	3.22	2.99	3.10
1,510.00	25.30	177.50	1,471.95	-264.62	35.48	123.11	1.45	1.38	1.03
1,597.00	25.90	177.80	1,550.40	-302.18	37.02	137.30	0.71	0.69	0.34
1,685.00	24.80	173.80	1,629.94	-339.74	39.76	152.60	2.31	-1.25	-4.55
1,772.00	24.40	173.10	1,709.04	-375.72	43.89	168.69	0.57	-0.46	-0.80
1,859.00	24.90	170.60	1,788.11	-411.63	49.04	185.71	1.33	0.57	-2.87
1,946.00	23.30	169.50	1,867.53	-446.62	55.16	203.34	1.91	-1.84	-1.26
2,033.00	25.20	172.30	1,946.85	-481.90	60.78	220.59	2.55	2.18	3.22
2,121.00	26.30	173.40	2,026.11	-519.83	65.53	237.92	1.36	1.25	1.25
2,208.00	26.50	173.60	2,104.04	-558.27	69.91	255.07	0.25	0.23	0.23
2,295.00	23.80	173.70	2,182.78	-595.01	74.00	271.38	3.10	-3.10	0.11
2,382.00	23.30	172.90	2,262.54	-629.53	78.05	286.90	0.68	-0.57	-0.92
2,469.00	22.80	173.30	2,342.59	-663.35	82.15	302.21	0.60	-0.57	0.46
2,557.00	22.40	175.30	2,423.83	-696.99	85.51	316.79	0.98	-0.45	2.27
2,644.00	22.80	176.10	2,504.15	-730.33	88.02	330.45	0.58	0.46	0.92
2,731.00	23.10	177.70	2,584.27	-764.20	89.85	343.66	0.80	0.34	1.84
2,818.00	23.10	176.50	2,664.29	-798.29	91.57	356.84	0.54	0.00	-1.38
2,905.00	21.80	173.90	2,744.70	-831.39	94.33	370.66	1.88	-1.49	-2.99
2,992.00	21.80	175.30	2,825.48	-863.56	97.37	384.43	0.60	0.00	1.61
3,079.00	21.70	172.30	2,906.29	-895.60	100.85	398.56	1.28	-0.11	-3.45
3,167.00	22.10	171.70	2,987.94	-928.10	105.42	413.88	0.52	0.45	-0.68
3,254.00	22.90	170.40	3,068.31	-960.98	110.61	429.91	1.08	0.92	-1.49
3,341.00	22.60	170.60	3,148.55	-994.17	116.16	446.39	0.36	-0.34	0.23
3,428.00	21.09	172.26	3,229.30	-1,026.17	121.00	461.79	1.88	-1.74	1.91
3,516.00	20.00	174.30	3,311.70	-1,056.83	124.63	475.60	1.48	-1.24	2.32
3,603.00	21.30	172.30	3,393.11	-1,087.30	128.22	489.32	1.70	1.49	-2.30
3,676.00	21.10	171.90	3,461.17	-1,113.45	131.85	501.59	0.34	-0.27	-0.55
3,771.00	21.23	175.07	3,549.76	-1,147.51	135.74	516.80	1.21	0.14	3.34
3,865.00	23.94	175.03	3,636.55	-1,183.48	138.85	531.93	2.88	2.88	-0.04
3,960.00	23.43	173.45	3,723.54	-1,221.44	142.68	548.40	0.86	-0.54	-1.66
4,055.00	22.24	172.12	3,811.10	-1,258.02	147.30	565.15	1.37	-1.25	-1.40
4,149.00	24.71	173.26	3,897.31	-1,295.16	152.04	582.21	2.67	2.63	1.21
4,244.00	24.06	172.38	3,983.84	-1,334.07	156.94	600.01	0.78	-0.68	-0.93
4,339.00	22.28	170.41	4,071.17	-1,371.03	162.51	617.78	2.04	-1.87	-2.07
4,432.00	22.31	169.67	4,157.22	-1,405.77	168.61	635.30	0.30	0.03	-0.80
4,527.00	23.30	166.53	4,244.80	-1,441.79	176.22	654.67	1.65	1.04	-3.31
4,621.00	23.94	169.55	4,330.92	-1,478.62	184.01	674.49	1.46	0.68	3.21
4,716.00	22.00	167.75	4,418.39	-1,514.97	191.28	693.66	2.17	-2.04	-1.89
4,811.00	24.32	173.86	4,505.74	-1,551.82	197.15	711.68	3.51	2.44	6.43

Survey Report

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Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5718.30usft
Site:	SEC 15-T4S-R65W	MD Reference:	KB 25' @ 5718.30usft
Well:	PROSPER FARMS 4-65 14-13 4BH	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDT_32Bit_ODBC

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)
4,906.00	23.12	173.38	4,592.71	-1,589.80	201.40	728.55	1.28	-1.26	-0.51
5,001.00	25.53	176.50	4,679.28	-1,628.77	204.80	744.96	2.87	2.54	3.28
5,095.00	23.15	174.15	4,764.92	-1,667.37	207.92	760.99	2.73	-2.53	-2.50
5,190.00	24.51	176.62	4,851.82	-1,705.62	210.98	776.84	1.78	1.43	2.60
5,285.00	22.28	173.11	4,939.01	-1,743.18	214.30	792.70	2.77	-2.35	-3.69
5,380.00	24.62	173.17	5,026.15	-1,780.71	218.82	809.67	2.46	2.46	0.06
5,474.00	24.30	170.97	5,111.72	-1,819.26	224.18	827.79	1.03	-0.34	-2.34
5,569.00	23.59	167.96	5,198.55	-1,857.15	231.22	847.26	1.49	-0.75	-3.17
5,663.00	25.57	175.54	5,284.05	-1,895.79	236.72	865.53	3.96	2.11	8.06
5,758.00	25.33	174.65	5,369.83	-1,936.46	240.21	882.61	0.48	-0.25	-0.94
5,852.00	24.02	172.35	5,455.24	-1,975.44	244.63	899.99	1.73	-1.39	-2.45
5,947.00	23.13	170.67	5,542.31	-2,013.02	250.23	918.00	1.17	-0.94	-1.77
6,041.00	24.37	173.21	5,628.35	-2,050.50	255.52	935.68	1.71	1.32	2.70
6,136.00	23.47	174.53	5,715.20	-2,088.79	259.64	952.54	1.10	-0.95	1.39
6,230.00	20.96	171.55	5,802.21	-2,124.06	263.89	968.50	2.93	-2.67	-3.17
6,328.00	22.41	178.76	5,893.29	-2,160.09	266.87	983.52	3.09	1.48	7.36
6,422.00	26.08	177.69	5,978.99	-2,198.66	268.09	997.75	3.93	3.90	-1.14
6,517.00	23.38	177.79	6,065.27	-2,238.37	269.66	1,012.69	2.84	-2.84	0.11
6,611.00	24.62	173.08	6,151.15	-2,276.45	272.74	1,028.50	2.43	1.32	-5.01
6,706.00	27.33	172.41	6,236.54	-2,317.72	278.01	1,047.45	2.87	2.85	-0.71
6,801.00	25.08	172.47	6,321.77	-2,359.30	283.53	1,066.74	2.37	-2.37	0.06
6,895.00	22.47	172.57	6,407.79	-2,396.87	288.46	1,084.12	2.78	-2.78	0.11
6,990.00	24.26	171.87	6,494.99	-2,434.19	293.57	1,101.58	1.91	1.88	-0.74
7,084.00	25.12	172.46	6,580.40	-2,473.09	298.92	1,119.81	0.95	0.91	0.63
7,179.00	21.47	172.30	6,667.64	-2,510.32	303.90	1,137.11	3.84	-3.84	-0.17
7,273.00	22.77	170.07	6,754.72	-2,545.29	309.34	1,154.09	1.65	1.38	-2.37
7,368.00	25.82	172.22	6,841.30	-2,583.91	315.31	1,172.80	3.34	3.21	2.26
7,462.00	22.42	171.36	6,927.08	-2,621.92	320.78	1,190.84	3.64	-3.62	-0.91
7,557.00	23.84	170.27	7,014.44	-2,658.76	326.74	1,208.94	1.56	1.49	-1.15
7,651.00	25.11	170.76	7,099.99	-2,697.17	333.16	1,228.00	1.37	1.35	0.52
7,746.00	21.54	168.20	7,187.22	-2,734.15	339.96	1,246.94	3.91	-3.76	-2.69
7,841.00	22.88	168.26	7,275.17	-2,769.30	347.29	1,265.75	1.41	1.41	0.06
7,935.00	24.16	166.27	7,361.36	-2,805.88	355.57	1,285.95	1.60	1.36	-2.12
7,992.00	23.51	155.84	7,413.52	-2,827.60	363.00	1,300.30	7.47	-1.14	-18.30
KOP - 7992' MD, 7414' TVD									
8,030.00	23.48	148.71	7,448.38	-2,840.99	370.03	1,311.46	7.47	-0.09	-18.76
8,125.00	31.86	130.86	7,532.58	-2,873.68	398.92	1,349.72	12.32	8.82	-18.79
8,220.00	34.89	121.26	7,611.96	-2,904.21	441.15	1,399.80	6.40	3.19	-10.11
8,314.00	42.96	113.76	7,685.07	-2,931.12	493.56	1,458.23	9.93	8.59	-7.98
8,409.00	50.00	108.05	7,750.47	-2,955.48	557.90	1,527.01	8.59	7.41	-6.01
8,503.00	59.36	105.23	7,804.77	-2,977.31	631.32	1,603.49	10.25	9.96	-3.00
8,598.00	65.74	103.32	7,848.54	-2,998.05	712.98	1,687.35	6.95	6.72	-2.01
8,693.00	72.01	100.54	7,882.77	-3,016.31	799.64	1,775.06	7.14	6.60	-2.93

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Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5718.30usft
Site:	SEC 15-T4S-R65W	MD Reference:	KB 25' @ 5718.30usft
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Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDT_32Bit_ODBC

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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)
8,787.00	75.36	98.89	7,909.17	-3,031.52	888.55	1,863.86	3.94	3.56	-1.76
8,833.88	79.46	94.98	7,919.39	-3,037.03	933.95	1,908.44	11.94	8.75	-8.33
~330' X-OVER PNT - 8833.88' MD, 423' FSL, 330' FWL SEC 14									
8,882.00	83.72	91.08	7,926.43	-3,039.54	981.46	1,953.99	11.94	8.85	-8.11
8,886.00	84.00	91.12	7,926.86	-3,039.61	985.44	1,957.76	7.04	6.97	1.02
HZ LANDING PNT - 8886' MD, 7927' TVD									
8,977.00	90.34	92.04	7,931.35	-3,042.12	1,076.25	2,044.03	7.04	6.97	1.01
9,072.00	88.74	91.40	7,932.11	-3,044.97	1,171.20	2,134.32	1.81	-1.68	-0.67
9,167.00	88.43	91.36	7,934.46	-3,047.26	1,266.14	2,224.42	0.33	-0.33	-0.04
9,261.00	91.93	91.77	7,934.16	-3,049.83	1,360.09	2,313.67	3.75	3.72	0.44
9,356.00	92.26	92.15	7,930.69	-3,053.07	1,454.97	2,404.03	0.53	0.35	0.40
9,450.00	92.23	91.28	7,927.01	-3,055.88	1,548.86	2,493.31	0.93	-0.03	-0.93
9,545.00	92.60	91.06	7,923.00	-3,057.82	1,643.75	2,583.24	0.45	0.39	-0.23
9,639.00	89.96	91.54	7,920.90	-3,059.95	1,737.70	2,672.34	2.85	-2.81	0.51
9,734.00	89.82	91.95	7,921.09	-3,062.85	1,832.65	2,762.65	0.46	-0.15	0.43
9,829.00	89.26	92.04	7,921.85	-3,066.15	1,927.59	2,853.09	0.60	-0.59	0.09
9,924.00	88.14	91.76	7,924.00	-3,069.30	2,022.51	2,943.45	1.22	-1.18	-0.29
10,018.00	89.76	90.83	7,925.73	-3,071.43	2,116.47	3,032.56	1.99	1.72	-0.99
10,113.00	90.04	92.37	7,925.89	-3,074.08	2,211.43	3,122.80	1.65	0.29	1.62
10,208.00	90.35	91.20	7,925.57	-3,077.04	2,306.38	3,213.13	1.27	0.33	-1.23
10,302.00	91.10	90.71	7,924.38	-3,078.60	2,400.36	3,302.07	0.95	0.80	-0.52
10,397.00	91.01	92.30	7,922.63	-3,081.10	2,495.31	3,392.24	1.68	-0.09	1.67
10,492.00	89.83	90.69	7,921.93	-3,083.58	2,590.27	3,482.41	2.10	-1.24	-1.69
10,587.00	90.70	90.90	7,921.49	-3,084.90	2,685.26	3,572.22	0.94	0.92	0.22
10,681.00	90.28	91.71	7,920.69	-3,087.04	2,779.23	3,661.35	0.97	-0.45	0.86
10,776.00	90.98	90.55	7,919.65	-3,088.91	2,874.20	3,751.33	1.43	0.74	-1.22
10,870.00	90.55	90.12	7,918.39	-3,089.46	2,968.19	3,839.94	0.65	-0.46	-0.46
10,965.00	92.43	88.73	7,915.92	-3,088.51	3,063.15	3,928.95	2.46	1.98	-1.46
11,060.00	91.77	88.96	7,912.44	-3,086.59	3,158.06	4,017.59	0.74	-0.69	0.24
11,155.00	91.60	87.90	7,909.65	-3,083.99	3,252.98	4,106.01	1.13	-0.18	-1.12
11,249.00	91.33	87.65	7,907.24	-3,080.34	3,346.88	4,193.10	0.39	-0.29	-0.27
11,344.00	93.05	89.46	7,903.61	-3,077.95	3,441.78	4,281.56	2.63	1.81	1.91
11,439.00	92.51	89.69	7,899.00	-3,077.24	3,536.66	4,370.59	0.62	-0.57	0.24
11,534.00	92.20	88.48	7,895.10	-3,075.73	3,631.57	4,459.36	1.31	-0.33	-1.27
11,628.00	92.13	89.32	7,891.55	-3,073.93	3,725.48	4,547.10	0.90	-0.07	0.89
11,723.00	92.18	88.62	7,887.98	-3,072.22	3,820.40	4,635.81	0.74	0.05	-0.74
11,817.00	92.20	87.86	7,884.39	-3,069.33	3,914.28	4,723.16	0.81	0.02	-0.81
11,912.00	93.06	89.78	7,880.03	-3,067.38	4,009.16	4,811.75	2.21	0.91	2.02
12,007.00	93.64	91.44	7,874.47	-3,068.39	4,103.99	4,901.30	1.85	0.61	1.75
12,102.00	92.06	91.88	7,869.75	-3,071.14	4,198.83	4,991.45	1.73	-1.66	0.46
12,197.00	90.22	93.08	7,867.86	-3,075.25	4,293.71	5,082.11	2.31	-1.94	1.26
12,291.00	90.85	92.16	7,866.98	-3,079.54	4,387.61	5,171.90	1.19	0.67	-0.98
12,386.00	91.49	92.14	7,865.04	-3,083.11	4,482.52	5,262.40	0.67	0.67	-0.02
12,481.00	91.43	92.01	7,862.62	-3,086.55	4,577.43	5,352.85	0.15	-0.06	-0.14

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well PROSPER FARMS 4-65 14-13 4BH
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5718.30usft
Site:	SEC 15-T4S-R65W	MD Reference:	KB 25' @ 5718.30usft
Well:	PROSPER FARMS 4-65 14-13 4BH	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDT_32Bit_ODBC

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)	
12,575.00	91.12	91.25	7,860.53	-3,089.22	4,671.37	5,442.13	0.87	-0.33	-0.81	
12,670.00	91.20	91.07	7,858.61	-3,091.14	4,766.33	5,532.12	0.21	0.08	-0.19	
12,765.00	90.53	91.48	7,857.17	-3,093.26	4,861.29	5,622.17	0.83	-0.71	0.43	
12,859.00	90.82	91.64	7,856.07	-3,095.81	4,955.25	5,711.43	0.35	0.31	0.17	
12,954.00	88.87	90.92	7,856.32	-3,097.94	5,050.22	5,801.49	2.19	-2.05	-0.76	
13,049.00	89.00	91.57	7,858.09	-3,100.00	5,145.18	5,891.53	0.70	0.14	0.68	
13,143.00	89.66	91.41	7,859.19	-3,102.44	5,239.14	5,980.75	0.72	0.70	-0.17	
13,238.00	89.15	91.87	7,860.17	-3,105.16	5,334.10	6,071.00	0.72	-0.54	0.48	
13,332.00	89.69	91.66	7,861.13	-3,108.06	5,428.05	6,160.37	0.62	0.57	-0.22	
13,427.00	91.56	88.82	7,860.09	-3,108.46	5,523.03	6,249.86	3.58	1.97	-2.99	
13,522.00	91.59	89.55	7,857.48	-3,107.11	5,617.98	6,338.73	0.77	0.03	0.77	
13,616.00	91.59	88.12	7,854.87	-3,105.20	5,711.92	6,426.45	1.52	0.00	-1.52	
13,711.00	91.81	89.07	7,852.05	-3,102.87	5,806.85	6,514.97	1.03	0.23	1.00	
13,806.00	90.89	89.41	7,849.81	-3,101.61	5,901.82	6,603.88	1.03	-0.97	0.36	
13,900.00	89.67	88.65	7,849.35	-3,100.02	5,995.80	6,691.76	1.53	-1.30	-0.81	
13,995.00	89.31	88.80	7,850.20	-3,097.90	6,090.77	6,780.39	0.41	-0.38	0.16	
14,090.00	88.49	88.15	7,852.02	-3,095.37	6,185.72	6,868.85	1.10	-0.86	-0.68	
14,184.00	90.09	88.40	7,853.19	-3,092.55	6,279.67	6,956.27	1.72	1.70	0.27	
14,279.00	91.97	89.08	7,851.48	-3,090.46	6,374.62	7,044.89	2.10	1.98	0.72	
14,374.00	92.09	91.48	7,848.11	-3,090.92	6,469.56	7,134.36	2.53	0.13	2.53	
14,468.00	92.97	92.74	7,843.97	-3,094.38	6,563.40	7,223.81	1.63	0.94	1.34	
14,563.00	89.34	92.71	7,842.05	-3,098.89	6,658.26	7,314.58	3.82	-3.82	-0.03	
14,657.00	88.51	92.06	7,843.81	-3,102.80	6,752.16	7,404.25	1.12	-0.88	-0.69	
14,752.00	87.23	91.05	7,847.35	-3,105.38	6,847.05	7,494.39	1.72	-1.35	-1.06	
14,846.00	89.70	89.50	7,849.86	-3,105.83	6,941.01	7,582.94	3.10	2.63	-1.65	
14,941.00	89.42	88.97	7,850.59	-3,104.56	7,036.00	7,671.87	0.63	-0.29	-0.56	
15,036.00	90.86	91.70	7,850.36	-3,105.12	7,130.98	7,761.41	3.25	1.52	2.87	
15,130.00	90.68	90.15	7,849.10	-3,106.63	7,224.96	7,850.34	1.66	-0.19	-1.65	
15,225.00	90.79	90.90	7,847.88	-3,107.50	7,319.95	7,939.99	0.80	0.12	0.79	
15,320.00	90.86	89.65	7,846.51	-3,107.96	7,414.93	8,029.51	1.32	0.07	-1.32	
15,414.00	90.67	89.42	7,845.26	-3,107.20	7,508.92	8,117.67	0.32	-0.20	-0.24	
15,509.00	91.45	92.25	7,843.50	-3,108.58	7,603.89	8,207.47	3.09	0.82	2.98	
15,603.00	91.73	91.03	7,840.89	-3,111.27	7,697.81	8,296.74	1.33	0.30	-1.30	
15,698.00	91.95	91.27	7,837.84	-3,113.18	7,792.74	8,386.70	0.34	0.23	0.25	
15,793.00	91.70	89.34	7,834.81	-3,113.68	7,887.69	8,476.19	2.05	-0.26	-2.03	
15,887.00	92.22	88.66	7,831.60	-3,112.04	7,981.62	8,564.00	0.91	0.55	-0.72	
15,981.00	90.70	90.90	7,829.20	-3,111.68	8,075.58	8,652.27	2.88	-1.62	2.38	
16,076.00	90.59	90.35	7,828.13	-3,112.72	8,170.56	8,741.98	0.59	-0.12	-0.58	
16,170.00	91.80	92.92	7,826.17	-3,115.40	8,264.50	8,831.26	3.02	1.29	2.73	
16,264.00	92.35	92.28	7,822.77	-3,119.66	8,358.34	8,920.98	0.90	0.59	-0.68	
16,359.00	93.25	92.81	7,818.13	-3,123.87	8,453.13	9,011.59	1.10	0.95	0.56	
16,453.00	89.95	94.43	7,815.50	-3,129.81	8,546.89	9,101.80	3.91	-3.51	1.72	
16,548.00	89.35	93.62	7,816.08	-3,136.47	8,641.65	9,193.21	1.06	-0.63	-0.85	
LAST SURVEY - 16548' MD, 7816' TVD										

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well PROSPER FARMS 4-65 14-13 4BH
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5718.30usft
Site:	SEC 15-T4S-R65W	MD Reference:	KB 25' @ 5718.30usft
Well:	PROSPER FARMS 4-65 14-13 4BH	North Reference:	True
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	FINAL SURVEY	Database:	EDT_32Bit_ODBC

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)
16,621.00	89.35	93.62	7,816.91	-3,141.08	8,714.50	9,263.31	0.00	0.00	0.00
EXTRAPOLATION TO TD - 16621' MD, 405' FSL, 2451' FEL SEC 13									

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-PF 4-65 4BH - actual wellpath misses target center by 28.58usft at 16621.00usft MD (7816.91 TVD, -3141.08 N, 8714.50 E) - Point	0.00	0.00	7,845.00	-3,146.14	8,715.93	1,680,141.57	3,249,856.51	39.697437°N	104.612058°W
LP-PF 4-65 4BH - actual wellpath misses target center by 23.09usft at 8835.18usft MD (7919.63 TVD, -3037.14 N, 935.22 E) - Point	0.00	0.00	7,920.00	-3,060.19	933.95	1,680,154.12	3,242,074.13	39.697677°N	104.639713°W

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
7,992.00	7,413.52	-2,827.60	363.00	KOP - 7992' MD, 7414' TVD	
8,833.88	7,919.39	-3,037.03	933.95	~330' X-OVER PNT - 8833.88' MD, 423' FSL, 330' FWL SEC 14	
8,886.00	7,926.86	-3,039.61	985.44	HZ LANDING PNT - 8886' MD, 7927' TVD	
16,548.00	7,816.08	-3,136.47	8,641.65	LAST SURVEY - 16548' MD, 7816' TVD	
16,621.00	7,816.91	-3,141.08	8,714.50	EXTRAPOLATION TO TD - 16621' MD, 405' FSL, 2451' FEL SEC 13	

Checked By: _____	Approved By: _____	Date: _____
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