

CRESTONE PEAK RESOURCES

ARAPAHOE COUNTY

SEC 15-T4S-R65W

PROSPER FARMS 4-65 14-13 3BH

OWB

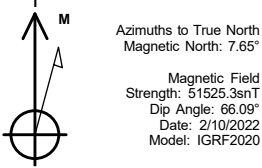
Design: FINAL SURVEY

Standard Survey Report

02 November, 2022

Project: ARAPAHOE COUNTY
Site: SEC 15-T4S-R65W
Well: PROSPER FARMS 4-65 14-13 3BH
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

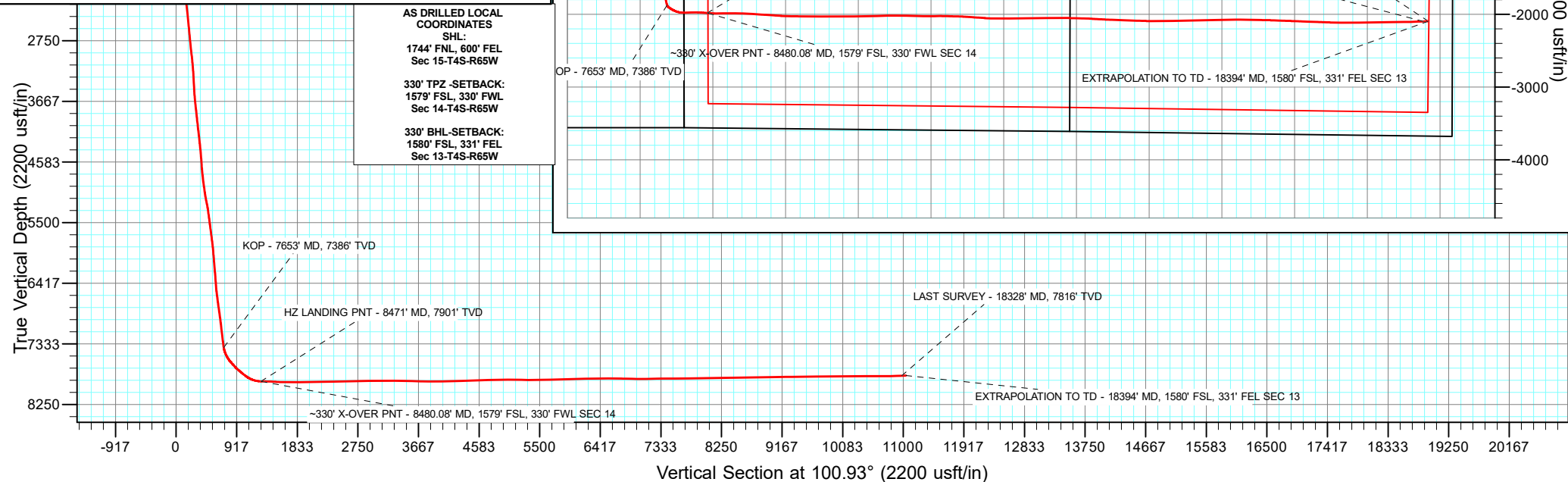
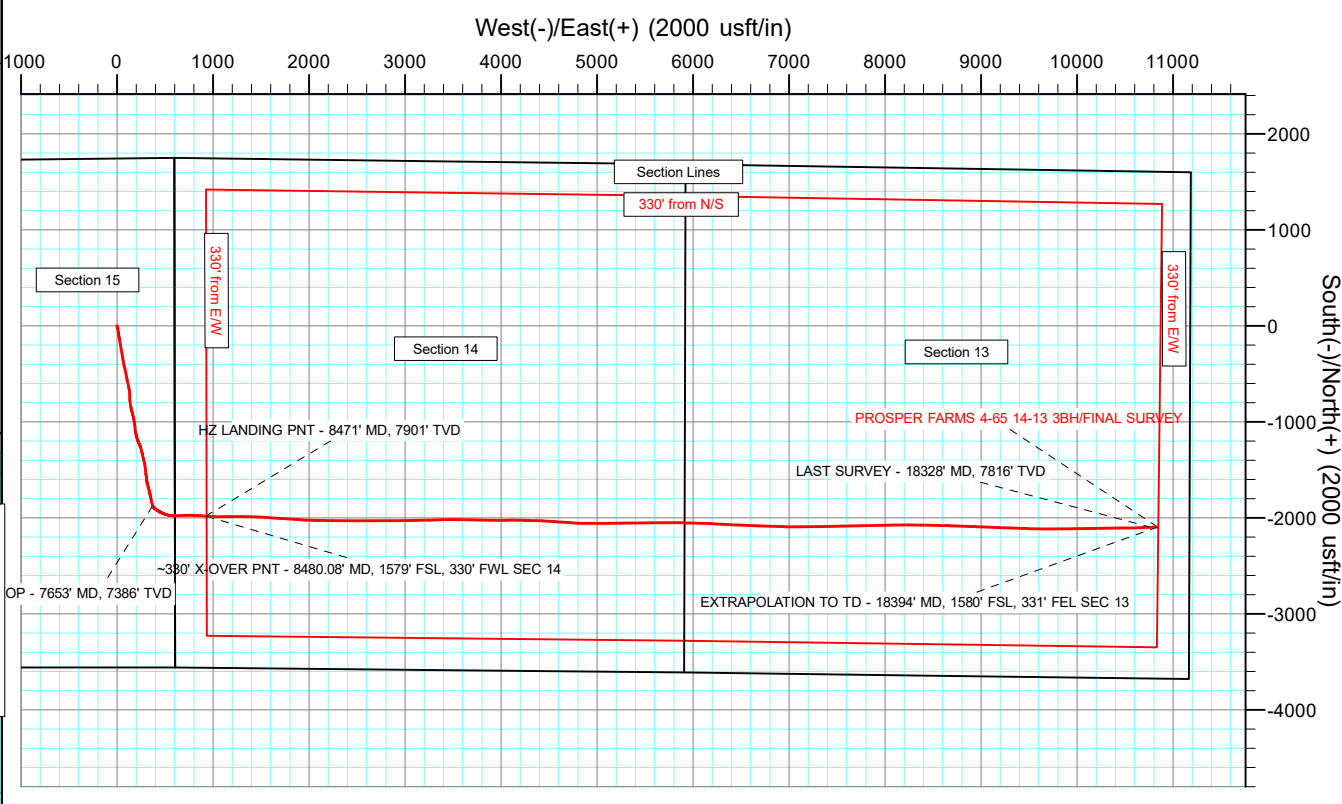
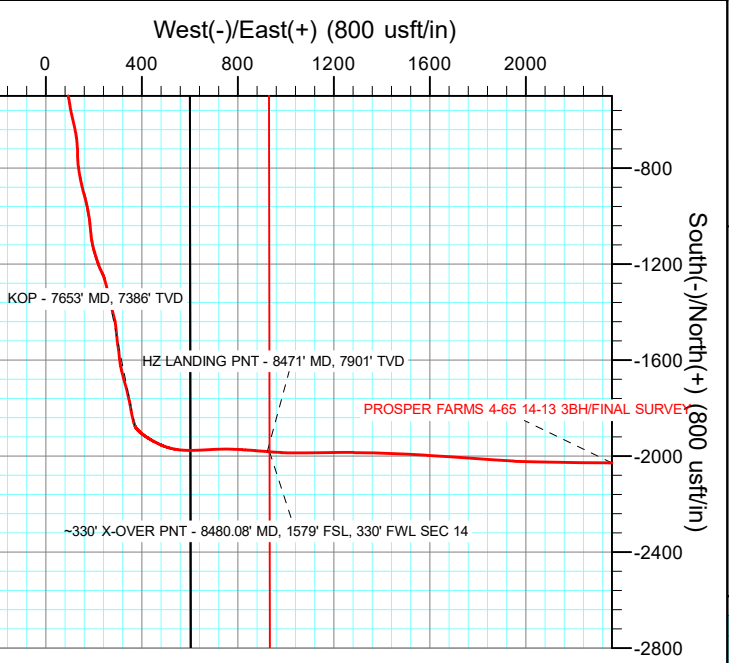


WELL DETAILS: PROSPER FARMS 4-65 14-13 3BH

+N/-S	+E/-W	Northing	Easting	5693.40 Latitude	Longitude	Slot
0.00	0.00	1683305.14	3241110.14	39.706352°N	104.643033°W	

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
7653.00	15.35	158.68	7386.35	-1873.99	371.78	720.44	1921.59	KOP - 7653' MD, 7386' TVD
8471.00	87.47	94.43	7900.52	-1980.75	923.46	1282.35	2505.66	HZ LANDING PNT - 8471' MD, 7901' TVD
8480.08	88.58	94.40	7900.83	-1981.45	932.50	1291.36	2514.69	~330' X-OVER PNT - 8480.08' MD, 1579' FSL, 330' FWL SEC 14
18328.00	93.36	87.68	7815.65	-2096.36	10773.54	10975.60	12360.33	LAST SURVEY - 18328' MD, 7816' TVD
18394.00	93.36	87.68	7811.78	-2093.69	10839.38	11039.73	12426.22	EXTRAPOLATION TO TD - 18394' MD, 1580' FSL, 331' FEL SEC 13



Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well PROSPER FARMS 4-65 14-13 3BH
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5718.40usft
Site:	SEC 15-T4S-R65W	MD Reference:	KB 25' @ 5718.40usft
Well:	PROSPER FARMS 4-65 14-13 3BH	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 3BH					
Well Position	+N/-S	0.00 usft	Northing:	1,683,305.13 usft	Latitude:	39.706352°N
	+E/-W	0.00 usft	Easting:	3,241,110.14 usft	Longitude:	104.643033°W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	5,693.40 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	2/10/2022	7.65	66.09	51,525.27875416

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		100.93

Survey Program	Date	11/2/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
210.00	3,395.00	SURFACE SURVEY (OWB)	MWD OWSG	OWSG MWD - Standard	
3,489.00	18,394.00	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	
210.00	0.60	277.60	210.00	0.15	-1.09	-1.10	0.29	0.29	0.00	
302.00	0.90	319.00	301.99	0.75	-2.04	-2.15	0.65	0.33	45.00	
376.00	1.00	188.90	375.98	0.56	-2.52	-2.58	2.33	0.14	-175.81	
463.00	3.50	156.50	462.91	-2.63	-1.58	-1.05	3.11	2.87	-37.24	
550.00	5.90	152.30	549.61	-9.03	1.56	3.24	2.78	2.76	-4.83	
638.00	7.20	158.20	637.04	-18.15	5.71	9.05	1.66	1.48	6.70	
725.00	8.80	169.60	723.19	-29.76	8.93	14.42	2.58	1.84	13.10	
812.00	10.00	173.20	809.03	-43.81	11.03	19.14	1.54	1.38	4.14	
899.00	11.60	173.10	894.48	-59.99	12.98	24.12	1.84	1.84	-0.11	

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well PROSPER FARMS 4-65 14-13 3BH
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5718.40usft
Site:	SEC 15-T4S-R65W	MD Reference:	KB 25' @ 5718.40usft
Well:	PROSPER FARMS 4-65 14-13 3BH	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)
986.00	12.40	171.80	979.58	-77.92	15.36	29.86	0.97	0.92	-1.49
1,074.00	14.10	173.40	1,065.23	-97.92	17.94	36.18	1.98	1.93	1.82
1,161.00	15.40	166.70	1,149.37	-119.69	21.81	44.12	2.46	1.49	-7.70
1,248.00	16.60	169.00	1,233.00	-143.14	26.84	53.50	1.56	1.38	2.64
1,335.00	17.40	170.70	1,316.20	-168.17	31.32	62.64	1.08	0.92	1.95
1,423.00	15.20	170.60	1,400.66	-192.54	35.33	71.20	2.50	-2.50	-0.11
1,510.00	16.00	171.50	1,484.45	-215.65	38.96	79.15	0.96	0.92	1.03
1,597.00	16.70	171.60	1,567.93	-239.88	42.56	87.28	0.81	0.80	0.11
1,684.00	16.00	169.50	1,651.41	-264.03	46.57	95.80	1.05	-0.80	-2.41
1,771.00	16.50	168.80	1,734.94	-287.94	51.16	104.84	0.62	0.57	-0.80
1,858.00	17.70	168.90	1,818.09	-313.04	56.10	114.45	1.38	1.38	0.11
1,946.00	17.00	170.80	1,902.09	-338.87	60.74	123.90	1.02	-0.80	2.16
2,033.00	18.20	171.10	1,985.01	-364.85	64.87	132.89	1.38	1.38	0.34
2,120.00	16.80	170.40	2,067.99	-390.67	69.07	141.91	1.63	-1.61	-0.80
2,207.00	14.90	165.20	2,151.68	-413.88	74.02	151.17	2.72	-2.18	-5.98
2,295.00	14.30	165.90	2,236.84	-435.36	79.56	160.69	0.71	-0.68	0.80
2,382.00	14.40	166.20	2,321.12	-456.29	84.76	169.76	0.14	0.11	0.34
2,469.00	14.20	168.00	2,405.43	-477.23	89.56	178.44	0.56	-0.23	2.07
2,556.00	14.70	169.08	2,489.67	-498.51	93.87	186.71	0.65	0.57	1.24
2,643.00	14.50	170.20	2,573.86	-520.08	97.81	194.67	0.40	-0.23	1.29
2,730.00	15.50	171.50	2,657.90	-542.31	101.39	202.40	1.21	1.15	1.49
2,817.00	14.90	167.30	2,741.86	-564.72	105.56	210.75	1.44	-0.69	-4.83
2,905.00	15.05	167.25	2,826.87	-586.90	110.57	219.87	0.17	0.17	-0.06
2,992.00	15.20	167.20	2,910.86	-609.04	115.59	229.00	0.17	0.17	-0.06
3,079.00	15.10	167.60	2,994.83	-631.23	120.55	238.08	0.17	-0.11	0.46
3,166.00	15.50	170.10	3,078.75	-653.75	124.98	246.70	0.89	0.46	2.87
3,253.00	13.90	172.60	3,162.90	-675.56	128.33	254.12	1.98	-1.84	2.87
3,341.00	13.60	175.50	3,248.38	-696.36	130.50	260.20	0.85	-0.34	3.30
3,395.00	13.30	175.30	3,300.90	-708.88	131.51	263.56	0.56	-0.56	-0.37
3,489.00	13.32	180.58	3,392.38	-730.49	132.29	268.42	1.29	0.02	5.62
3,584.00	13.51	177.69	3,484.79	-752.52	132.62	272.93	0.73	0.20	-3.04
3,678.00	16.35	174.79	3,575.60	-776.67	134.27	279.13	3.12	3.02	-3.09
3,867.00	17.36	169.30	3,756.49	-830.87	141.92	296.92	1.00	0.53	-2.90
4,057.00	13.73	166.58	3,939.52	-880.67	152.42	316.67	1.95	-1.91	-1.43
4,151.00	13.72	163.29	4,030.83	-902.20	158.21	326.44	0.83	-0.01	-3.50
4,246.00	16.61	166.32	4,122.52	-926.19	164.66	337.33	3.15	3.04	3.19
4,341.00	14.98	166.68	4,213.93	-951.33	170.70	348.03	1.72	-1.72	0.38
4,434.00	17.47	170.70	4,303.22	-976.81	175.73	357.79	2.94	2.68	4.32
4,529.00	14.48	168.80	4,394.54	-1,002.54	180.34	367.20	3.19	-3.15	-2.00
4,623.00	16.69	175.22	4,485.08	-1,027.52	183.75	375.29	2.98	2.35	6.83
4,718.00	14.19	172.90	4,576.65	-1,052.68	186.33	382.59	2.71	-2.63	-2.44
4,813.00	13.46	176.62	4,668.90	-1,075.27	188.42	388.92	1.21	-0.77	3.92
4,908.00	18.47	169.35	4,760.21	-1,101.11	191.85	397.20	5.67	5.27	-7.65

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well PROSPER FARMS 4-65 14-13 3BH
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5718.40usft
Site:	SEC 15-T4S-R65W	MD Reference:	KB 25' @ 5718.40usft
Well:	PROSPER FARMS 4-65 14-13 3BH	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)
5,003.00	15.03	167.32	4,851.17	-1,127.93	197.34	407.67	3.67	-3.62	-2.14
5,097.00	17.61	162.47	4,941.38	-1,153.38	204.30	419.33	3.10	2.74	-5.16
5,192.00	15.53	162.76	5,032.43	-1,179.24	212.40	432.19	2.19	-2.19	0.31
5,287.00	19.53	159.37	5,123.00	-1,206.26	221.77	446.51	4.34	4.21	-3.57
5,382.00	19.34	152.93	5,212.60	-1,235.13	234.52	464.51	2.26	-0.20	-6.78
5,476.00	18.57	165.42	5,301.54	-1,263.49	245.38	480.55	4.38	-0.82	13.29
5,571.00	17.65	165.33	5,391.83	-1,292.06	252.83	493.28	0.97	-0.97	-0.09
5,665.00	15.91	164.23	5,481.83	-1,318.25	259.94	505.23	1.88	-1.85	-1.17
5,759.00	19.11	168.12	5,571.46	-1,345.71	266.62	516.99	3.62	3.40	4.14
5,854.00	18.26	167.34	5,661.45	-1,375.45	273.08	528.98	0.93	-0.89	-0.82
5,949.00	16.67	165.50	5,752.07	-1,403.17	279.75	540.79	1.77	-1.67	-1.94
6,043.00	15.08	165.33	5,842.48	-1,428.05	286.23	551.86	1.69	-1.69	-0.18
6,138.00	15.77	172.96	5,934.07	-1,452.82	290.94	561.19	2.25	0.73	8.03
6,232.00	14.86	173.77	6,024.73	-1,477.48	293.81	568.68	0.99	-0.97	0.86
6,326.00	16.12	175.02	6,115.32	-1,502.46	296.25	575.82	1.39	1.34	1.33
6,421.00	15.65	171.90	6,206.69	-1,528.29	299.20	583.61	1.03	-0.49	-3.28
6,516.00	13.48	171.27	6,298.63	-1,551.92	302.69	591.52	2.29	-2.28	-0.66
6,611.00	13.89	174.22	6,390.94	-1,574.21	305.52	598.52	0.85	0.43	3.11
6,705.00	15.49	173.67	6,481.86	-1,597.91	308.04	605.49	1.71	1.70	-0.59
6,800.00	19.06	168.51	6,572.57	-1,625.73	312.53	615.18	4.09	3.76	-5.43
6,895.00	15.95	165.53	6,663.16	-1,653.58	318.88	626.70	3.41	-3.27	-3.14
6,989.00	18.52	165.91	6,752.93	-1,680.57	325.75	638.55	2.74	2.73	0.40
7,083.00	17.65	162.90	6,842.29	-1,708.67	333.57	651.57	1.36	-0.93	-3.20
7,178.00	18.26	168.22	6,932.66	-1,737.01	340.84	664.08	1.84	0.64	5.60
7,273.00	16.13	165.90	7,023.41	-1,764.38	347.10	675.41	2.36	-2.24	-2.44
7,367.00	18.47	171.07	7,113.16	-1,791.76	352.59	686.00	2.98	2.49	5.50
7,461.00	17.35	168.17	7,202.61	-1,820.19	357.78	696.48	1.52	-1.19	-3.09
7,556.00	17.52	166.51	7,293.24	-1,847.96	364.02	707.88	0.55	0.18	-1.75
7,650.00	15.13	160.06	7,383.45	-1,873.25	371.50	720.02	3.19	-2.54	-6.86
7,653.00	15.35	158.68	7,386.35	-1,873.99	371.78	720.44	14.20	7.38	-46.16
KOP - 7653' MD, 7386' TVD									
7,745.00	24.82	131.49	7,472.83	-1,898.23	390.75	743.66	14.20	10.29	-29.55
7,839.00	34.56	122.01	7,554.44	-1,925.52	428.25	785.66	11.47	10.36	-10.09
7,933.00	43.65	114.35	7,627.35	-1,953.10	480.56	842.24	10.94	9.67	-8.15
8,028.00	44.87	98.59	7,695.59	-1,971.68	543.76	907.82	11.63	1.28	-16.59
8,122.00	50.66	89.09	7,758.83	-1,976.07	613.04	976.67	9.68	6.16	-10.11
8,216.00	53.88	85.72	7,816.36	-1,972.65	687.27	1,048.92	4.45	3.43	-3.59
8,311.00	65.22	91.39	7,864.45	-1,970.83	768.97	1,128.78	12.99	11.94	5.97
8,405.00	79.38	94.60	7,892.96	-1,975.59	858.15	1,217.25	15.41	15.06	3.41
8,471.00	87.47	94.43	7,900.52	-1,980.75	923.46	1,282.35	12.26	12.25	-0.26
HZ LANDING PNT - 8471' MD, 7901' TVD									
8,480.08	88.58	94.40	7,900.83	-1,981.45	932.50	1,291.36	12.26	12.25	-0.26
~330' X-OVER PNT - 8480.08' MD, 1579' FSL, 330' FWL SEC 14									
8,500.00	91.02	94.35	7,900.90	-1,982.97	952.36	1,311.15	12.26	12.25	-0.26

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well PROSPER FARMS 4-65 14-13 3BH
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5718.40usft
Site:	SEC 15-T4S-R65W	MD Reference:	KB 25' @ 5718.40usft
Well:	PROSPER FARMS 4-65 14-13 3BH	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)
8,594.00	87.37	89.53	7,902.22	-1,986.15	1,046.26	1,403.94	6.43	-3.88	-5.13
8,688.00	87.22	88.96	7,906.66	-1,984.91	1,140.14	1,495.89	0.63	-0.16	-0.61
8,783.00	88.08	90.31	7,910.55	-1,984.31	1,235.06	1,588.97	1.68	0.91	1.42
8,972.00	91.22	92.00	7,911.71	-1,988.12	1,423.99	1,775.19	1.89	1.66	0.89
9,067.00	91.01	93.00	7,909.86	-1,992.26	1,518.88	1,869.14	1.08	-0.22	1.05
9,162.00	90.53	93.89	7,908.58	-1,997.97	1,613.69	1,963.32	1.06	-0.51	0.94
9,256.00	89.98	93.68	7,908.16	-2,004.17	1,707.49	2,056.59	0.63	-0.59	-0.22
9,350.00	90.63	93.87	7,907.66	-2,010.36	1,801.28	2,149.86	0.72	0.69	0.20
9,445.00	89.51	94.30	7,907.55	-2,017.13	1,896.04	2,244.18	1.26	-1.18	0.45
9,540.00	91.10	91.97	7,907.04	-2,022.32	1,990.89	2,338.29	2.97	1.67	-2.45
9,634.00	91.77	90.70	7,904.69	-2,024.51	2,084.83	2,430.94	1.53	0.71	-1.35
9,729.00	91.36	91.16	7,902.09	-2,026.05	2,179.78	2,524.46	0.65	-0.43	0.48
9,918.00	91.09	90.05	7,898.05	-2,028.05	2,368.72	2,710.36	0.60	-0.14	-0.59
10,012.00	92.03	90.24	7,895.49	-2,028.29	2,462.69	2,802.66	1.02	1.00	0.20
10,107.00	90.76	90.26	7,893.18	-2,028.70	2,557.66	2,895.98	1.34	-1.34	0.02
10,202.00	91.79	89.65	7,891.07	-2,028.63	2,652.63	2,989.22	1.26	1.08	-0.64
10,297.00	89.48	90.12	7,890.01	-2,028.44	2,747.62	3,082.45	2.48	-2.43	0.49
10,392.00	89.13	89.51	7,891.17	-2,028.13	2,842.61	3,175.66	0.74	-0.37	-0.64
10,486.00	91.55	89.92	7,890.61	-2,027.66	2,936.60	3,267.85	2.61	2.57	0.44
10,581.00	88.52	89.10	7,890.55	-2,026.85	3,031.58	3,360.96	3.30	-3.19	-0.86
10,675.00	88.27	88.86	7,893.18	-2,025.18	3,125.53	3,452.89	0.37	-0.27	-0.26
10,770.00	88.44	87.65	7,895.91	-2,022.28	3,220.45	3,545.53	1.29	0.18	-1.27
10,865.00	88.14	87.92	7,898.74	-2,018.61	3,315.33	3,638.00	0.42	-0.32	0.28
10,959.00	89.49	89.56	7,900.69	-2,016.55	3,409.29	3,729.85	2.26	1.44	1.74
11,054.00	89.16	89.92	7,901.81	-2,016.12	3,504.28	3,823.04	0.51	-0.35	0.38
11,149.00	90.87	91.34	7,901.78	-2,017.16	3,599.27	3,916.50	2.34	1.80	1.49
11,244.00	90.38	91.09	7,900.75	-2,019.18	3,694.24	4,010.13	0.58	-0.52	-0.26
11,339.00	90.52	91.41	7,900.00	-2,021.25	3,789.21	4,103.78	0.37	0.15	0.34
11,433.00	92.03	90.14	7,897.91	-2,022.52	3,883.18	4,196.28	2.10	1.61	-1.35
11,527.00	91.65	90.43	7,894.89	-2,022.99	3,977.13	4,288.61	0.51	-0.40	0.31
11,622.00	92.90	88.95	7,891.12	-2,022.47	4,072.05	4,381.71	2.04	1.32	-1.56
11,811.00	91.36	92.34	7,884.09	-2,024.60	4,260.87	4,567.51	1.97	-0.81	1.79
11,906.00	92.67	91.05	7,880.75	-2,027.41	4,355.77	4,661.22	1.93	1.38	-1.36
12,000.00	91.39	92.78	7,877.42	-2,030.55	4,449.65	4,753.99	2.29	-1.36	1.84
12,095.00	89.98	94.56	7,876.29	-2,036.63	4,544.44	4,848.22	2.39	-1.48	1.87
12,190.00	90.02	92.79	7,876.29	-2,042.72	4,639.24	4,942.45	1.86	0.04	-1.86
12,285.00	91.46	95.42	7,875.06	-2,049.52	4,733.98	5,036.76	3.16	1.52	2.77
12,379.00	88.82	90.38	7,874.83	-2,054.27	4,827.82	5,129.80	6.05	-2.81	-5.36
12,474.00	88.55	90.49	7,877.01	-2,054.99	4,922.79	5,223.18	0.31	-0.28	0.12
12,569.00	88.36	90.93	7,879.57	-2,056.17	5,017.75	5,316.64	0.50	-0.20	0.46
12,664.00	90.42	88.62	7,880.58	-2,055.80	5,112.73	5,409.83	3.26	2.17	-2.43
12,758.00	91.71	89.43	7,878.84	-2,054.20	5,206.70	5,501.79	1.62	1.37	0.86
12,853.00	92.30	88.98	7,875.51	-2,052.88	5,301.63	5,594.75	0.78	0.62	-0.47

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well PROSPER FARMS 4-65 14-13 3BH
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5718.40usft
Site:	SEC 15-T4S-R65W	MD Reference:	KB 25' @ 5718.40usft
Well:	PROSPER FARMS 4-65 14-13 3BH	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)	
12,948.00	90.31	90.36	7,873.35	-2,052.33	5,396.60	5,687.89	2.55	-2.09	1.45	
13,042.00	91.08	88.72	7,872.21	-2,051.58	5,490.59	5,780.02	1.93	0.82	-1.74	
13,137.00	91.72	89.20	7,869.89	-2,049.86	5,585.54	5,872.93	0.84	0.67	0.51	
13,232.00	92.73	88.91	7,866.20	-2,048.29	5,680.45	5,965.82	1.11	1.06	-0.31	
13,326.00	90.94	90.90	7,863.19	-2,048.14	5,774.40	6,058.03	2.85	-1.90	2.12	
13,421.00	91.76	90.74	7,860.95	-2,049.49	5,869.36	6,151.53	0.88	0.86	-0.17	
13,516.00	89.98	91.30	7,859.51	-2,051.19	5,964.33	6,245.10	1.96	-1.87	0.59	
13,611.00	90.86	91.67	7,858.81	-2,053.65	6,059.30	6,338.80	1.00	0.93	0.39	
13,705.00	89.56	92.34	7,858.47	-2,056.94	6,153.23	6,431.66	1.56	-1.38	0.71	
13,800.00	91.45	93.68	7,857.63	-2,061.92	6,248.09	6,525.75	2.44	1.99	1.41	
13,989.00	88.44	92.22	7,857.81	-2,071.65	6,436.82	6,712.89	1.77	-1.59	-0.77	
14,084.00	88.75	92.40	7,860.14	-2,075.48	6,531.71	6,806.79	0.38	0.33	0.19	
14,179.00	88.74	92.02	7,862.22	-2,079.14	6,626.62	6,900.66	0.40	-0.01	-0.40	
14,274.00	89.40	92.28	7,863.76	-2,082.70	6,721.54	6,994.54	0.75	0.69	0.27	
14,369.00	90.72	91.94	7,863.66	-2,086.20	6,816.47	7,088.41	1.43	1.39	-0.36	
14,463.00	91.87	91.42	7,861.54	-2,088.96	6,910.40	7,181.16	1.34	1.22	-0.55	
14,558.00	90.22	90.43	7,859.81	-2,090.49	7,005.37	7,274.70	2.03	-1.74	-1.04	
14,653.00	91.72	90.97	7,858.20	-2,091.65	7,100.35	7,368.17	1.68	1.58	0.57	
14,747.00	89.94	88.53	7,856.84	-2,091.24	7,194.33	7,460.37	3.21	-1.89	-2.60	
14,842.00	90.02	89.41	7,856.87	-2,089.53	7,289.31	7,553.30	0.93	0.08	0.93	
15,031.00	90.99	87.62	7,855.20	-2,084.63	7,478.23	7,737.86	1.08	0.51	-0.95	
15,126.00	90.08	89.82	7,854.32	-2,082.51	7,573.19	7,830.70	2.51	-0.96	2.32	
15,220.00	90.35	89.97	7,853.96	-2,082.34	7,667.19	7,922.96	0.33	0.29	0.16	
15,315.00	91.10	89.41	7,852.76	-2,081.83	7,762.18	8,016.13	0.99	0.79	-0.59	
15,410.00	92.00	87.95	7,850.19	-2,079.64	7,857.12	8,108.93	1.80	0.95	-1.54	
15,504.00	90.74	88.18	7,847.95	-2,076.47	7,951.04	8,200.54	1.36	-1.34	0.24	
15,599.00	91.11	87.25	7,846.41	-2,072.68	8,045.95	8,293.01	1.05	0.39	-0.98	
15,693.00	90.74	89.63	7,844.89	-2,070.12	8,139.89	8,384.77	2.56	-0.39	2.53	
15,788.00	90.96	91.31	7,843.48	-2,070.90	8,234.88	8,478.17	1.78	0.23	1.77	
15,883.00	90.49	90.94	7,842.28	-2,072.76	8,329.85	8,571.78	0.63	-0.49	-0.39	
15,977.00	89.82	91.24	7,842.03	-2,074.55	8,423.83	8,664.39	0.78	-0.71	0.32	
16,072.00	90.93	91.79	7,841.41	-2,077.06	8,518.80	8,758.11	1.30	1.17	0.58	
16,167.00	91.91	90.64	7,839.05	-2,079.08	8,613.74	8,851.72	1.59	1.03	-1.21	
16,262.00	90.02	91.98	7,837.45	-2,081.25	8,708.70	8,945.36	2.44	-1.99	1.41	
16,356.00	91.41	92.84	7,836.28	-2,085.20	8,802.60	9,038.31	1.74	1.48	0.91	
16,451.00	92.05	91.31	7,833.41	-2,088.64	8,897.49	9,132.13	1.75	0.67	-1.61	
16,545.00	89.81	92.04	7,831.89	-2,091.39	8,991.44	9,224.89	2.51	-2.38	0.78	
16,640.00	89.77	92.77	7,832.23	-2,095.37	9,086.35	9,318.84	0.77	-0.04	0.77	
16,735.00	90.93	92.09	7,831.65	-2,099.40	9,181.26	9,412.79	1.42	1.22	-0.72	
16,829.00	91.90	91.65	7,829.33	-2,102.47	9,275.18	9,505.59	1.13	1.03	-0.47	
16,924.00	89.44	92.32	7,828.22	-2,105.76	9,370.11	9,599.42	2.68	-2.59	0.71	
17,018.00	90.03	91.93	7,828.66	-2,109.24	9,464.04	9,692.31	0.75	0.63	-0.41	
17,113.00	91.60	91.21	7,827.30	-2,111.85	9,558.99	9,786.03	1.82	1.65	-0.76	

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well PROSPER FARMS 4-65 14-13 3BH
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5718.40usft
Site:	SEC 15-T4S-R65W	MD Reference:	KB 25' @ 5718.40usft
Well:	PROSPER FARMS 4-65 14-13 3BH	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)	
17,208.00	90.41	90.28	7,825.64	-2,113.08	9,653.97	9,879.51	1.59	-1.25	-0.98	
17,302.00	92.12	89.31	7,823.56	-2,112.75	9,747.94	9,971.72	2.09	1.82	-1.03	
17,397.00	89.11	91.06	7,822.54	-2,113.05	9,842.92	10,065.03	3.66	-3.17	1.84	
17,681.00	90.69	87.72	7,823.04	-2,110.03	10,126.85	10,343.24	1.30	0.56	-1.18	
17,775.00	89.86	88.72	7,822.59	-2,107.11	10,220.81	10,434.93	1.38	-0.88	1.06	
17,870.00	91.29	88.51	7,821.63	-2,104.81	10,315.77	10,527.74	1.52	1.51	-0.22	
17,965.00	89.94	89.93	7,820.62	-2,103.52	10,410.75	10,620.75	2.06	-1.42	1.49	
18,059.00	90.01	89.69	7,820.66	-2,103.21	10,504.75	10,712.98	0.27	0.07	-0.26	
18,153.00	89.85	88.98	7,820.77	-2,102.12	10,598.74	10,805.06	0.77	-0.17	-0.76	
18,248.00	91.90	87.84	7,819.32	-2,099.48	10,693.69	10,897.79	2.47	2.16	-1.20	
18,328.00	93.36	87.68	7,815.65	-2,096.36	10,773.54	10,975.60	1.84	1.82	-0.20	
LAST SURVEY - 18328' MD, 7816' TVD										
18,394.00	93.36	87.68	7,811.78	-2,093.69	10,839.38	11,039.73	0.00	0.00	0.00	
EXTRAPOLATION TO TD - 18394' MD, 1580' FSL, 331' FEL SEC 13										

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									
PBHL-PF4-65 3BH	0.00	0.00	7,820.00	-2,113.36	10,840.27	1,681,294.14	3,251,969.77	39.700544°N	104.604508°W
- actual wellpath misses target center by 21.33usft at 18393.61usft MD (7811.80 TVD, -2093.71 N, 10838.99 E)									
- Point									
LP-PF4-65 3BH	0.00	0.00	7,915.00	-2,000.17	932.50	1,681,313.86	3,242,061.46	39.700861°N	104.639719°W
- actual wellpath misses target center by 23.42usft at 8481.55usft MD (7900.86 TVD, -1981.56 N, 933.97 E)									
- Point									

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
7,653.00	7,386.35	-1,873.99	371.78	KOP - 7653' MD, 7386' TVD	
8,471.00	7,900.52	-1,980.75	923.46	HZ LANDING PNT - 8471' MD, 7901' TVD	
8,480.08	7,900.83	-1,981.45	932.50	~330' X-OVER PNT - 8480.08' MD, 1579' FSL, 330' FWL SEC 14	
18,328.00	7,815.65	-2,096.36	10,773.54	LAST SURVEY - 18328' MD, 7816' TVD	
18,394.00	7,811.78	-2,093.69	10,839.38	EXTRAPOLATION TO TD - 18394' MD, 1580' FSL, 331' FEL SEC 13	

Checked By: _____ Approved By: _____ Date: _____