

CRESTONE PEAK RESOURCES

ARAPAHOE COUNTY

SEC 10-T4S-R65W

PROSPER FARMS 4-65 11-12 4AH

OWB

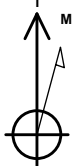
Design: FINAL SURVEY

Standard Survey Report

04 January, 2023

Project: ARAPAHOE COUNTY
Site: SEC 10-T4S-R65W
Well: PROSPER FARMS 4-65 11-12 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



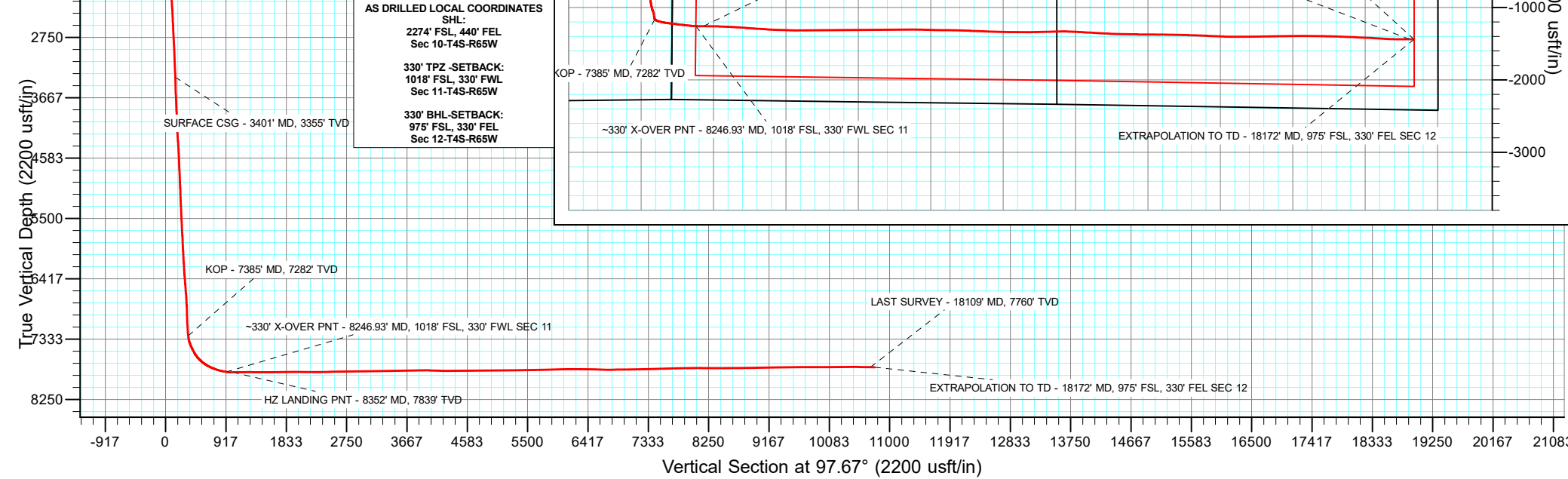
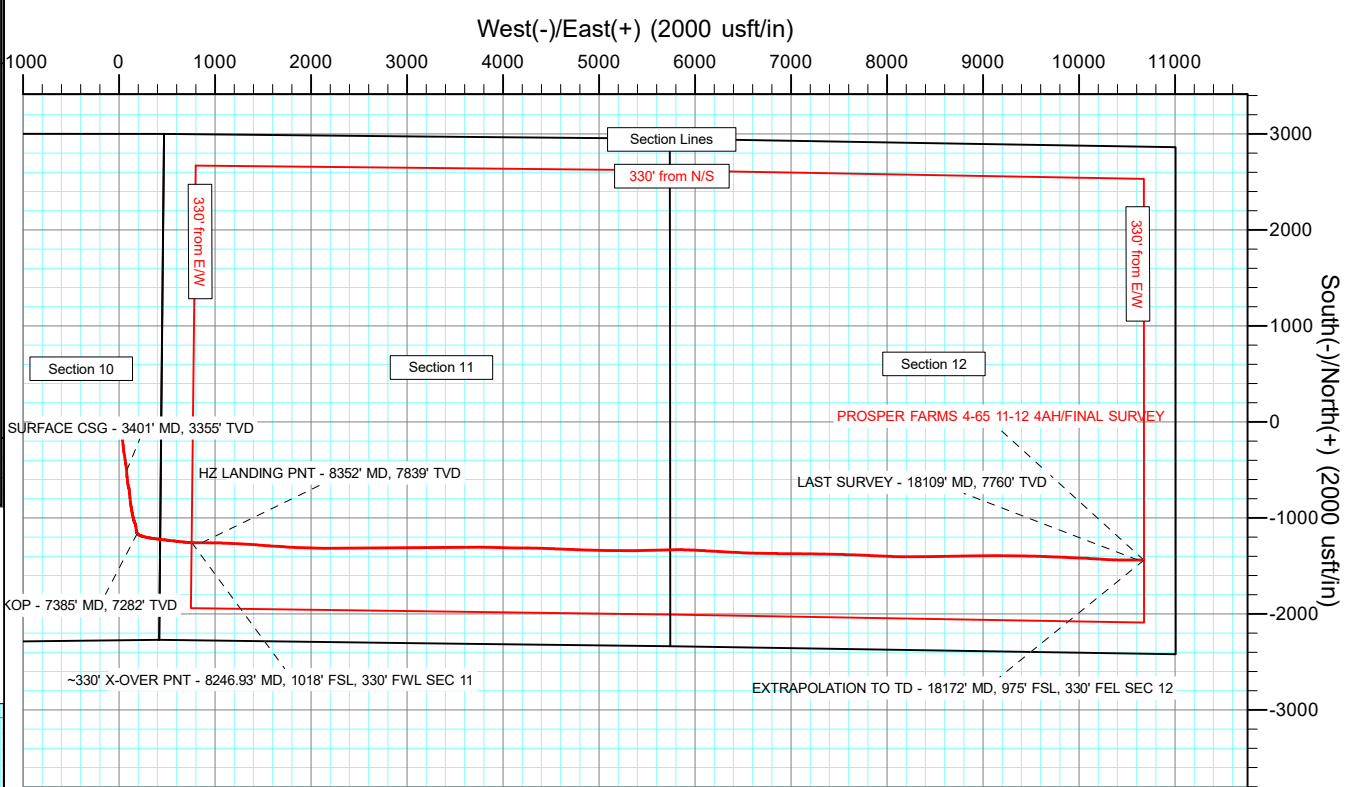
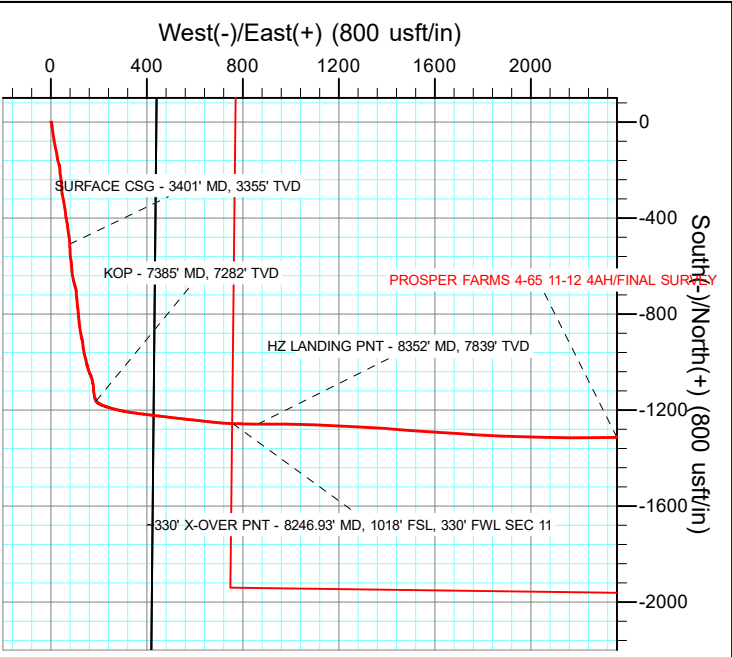
Azimuths to True North
Magnetic North: 7.61°
Magnetic Field
Strength: 51484.7nT
Dip Angle: 66.08°
Date: 7/21/2022
Model: IGRF2020

WELL DETAILS: PROSPER FARMS 4-65 11-12 4AH

5683.00					Slot
+N/-S	+E/-W	Northing	Easting	Latitude	
0.00	0.00	1687326.67	3241250.84	39.717388°N	104.642398°W

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
3401.00	10.20	177.20	3354.67	-508.62	79.24	146.43	518.09	SURFACE CSG - 3401' MD, 3355' TVD
7385.00	9.67	147.81	7282.15	-1161.60	189.11	342.48	1183.83	KOP - 7385' MD, 7282' TVD
8246.93	81.01	92.11	7830.60	-1255.81	757.90	918.76	1765.93	~330' X-OVER PNT - 8246.93' MD, 1018' FSL, 330' FWL SEC 11
8352.00	90.56	90.40	7838.64	-1257.81	862.51	1022.70	1870.49	HZ LANDING PNT - 8352' MD, 7839' TVD
18109.00	88.76	90.35	7759.50	-1437.62	10612.78	10709.71	11625.79	LAST SURVEY - 18109' MD, 7760' TVD
18172.00	88.76	90.35	7760.87	-1438.01	10675.77	10772.18	11688.77	EXTRAPOLATION TO TD - 18172' MD, 975' FSL, 330' FEL SEC 12



Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well PROSPER FARMS 4-65 11-12 4AH
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5708.00usft
Site:	SEC 10-T4S-R65W	MD Reference:	KB 25' @ 5708.00usft
Well:	PROSPER FARMS 4-65 11-12 4AH	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 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	PROSPER FARMS 4-65 11-12 4AH					
Well Position	+N/-S	0.00 usft	Northing:	1,687,326.67 usft	Latitude:	39.717388°N
	+E/-W	0.00 usft	Easting:	3,241,250.84 usft	Longitude:	104.642398°W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	5,683.00 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	7/21/2022	7.61	66.08	51,484.71091952

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	97.67	

Survey Program	Date	1/4/2023			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
182.00	3,401.00	SURFACE SURVEY (OWB)	MWD OWSG	OWSG MWD - Standard	
3,507.00	18,172.00	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	
182.00	0.50	53.50	182.00	0.47	0.64	0.57	0.27	0.27	0.00	
287.00	0.90	133.30	286.99	0.18	1.61	1.57	0.90	0.38	76.00	
377.00	1.50	146.10	376.97	-1.28	2.78	2.92	0.73	0.67	14.22	
469.00	3.00	172.50	468.90	-4.67	3.76	4.35	1.94	1.63	28.70	
558.00	5.10	175.10	557.67	-10.92	4.41	5.82	2.37	2.36	2.92	
648.00	7.80	169.60	647.10	-20.92	5.85	8.59	3.07	3.00	-6.11	
740.00	9.20	173.90	738.08	-34.37	7.76	12.28	1.67	1.52	4.67	
832.00	10.10	171.60	828.78	-49.66	9.72	16.26	1.06	0.98	-2.50	
924.00	10.30	171.00	919.33	-65.77	12.18	20.85	0.25	0.22	-0.65	

Survey Report

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Site:	SEC 10-T4S-R65W	MD Reference:	KB 25' @ 5708.00usft
Well:	PROSPER FARMS 4-65 11-12 4AH	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)
1,016.00	12.10	169.00	1,009.57	-83.36	15.31	26.30	2.00	1.96	-2.17
1,105.00	12.80	168.50	1,096.48	-102.18	19.06	32.53	0.80	0.79	-0.56
1,197.00	13.40	168.50	1,186.08	-122.61	23.21	39.37	0.65	0.65	0.00
1,289.00	13.00	172.10	1,275.65	-143.30	26.76	45.65	0.99	-0.43	3.91
1,377.00	11.50	165.10	1,361.65	-161.59	30.38	51.68	2.40	-1.70	-7.95
1,468.00	10.70	163.60	1,450.95	-178.46	35.10	58.60	0.93	-0.88	-1.65
1,557.00	9.30	176.70	1,538.61	-193.57	37.84	63.34	2.99	-1.57	14.72
1,649.00	8.50	176.50	1,629.50	-207.78	38.69	66.08	0.87	-0.87	-0.22
1,740.00	9.20	171.00	1,719.42	-221.67	40.23	69.47	1.21	0.77	-6.04
1,830.00	9.80	171.10	1,808.18	-236.35	42.54	73.71	0.67	0.67	0.11
1,922.00	11.00	174.00	1,898.67	-252.81	44.67	78.02	1.42	1.30	3.15
2,014.00	12.00	177.40	1,988.82	-271.10	46.03	81.80	1.31	1.09	3.70
2,104.00	12.10	177.40	2,076.84	-289.87	46.88	85.15	0.11	0.11	0.00
2,194.00	11.10	167.60	2,165.01	-307.75	49.17	89.81	2.45	-1.11	-10.89
2,283.00	11.60	167.50	2,252.27	-324.86	52.94	95.83	0.56	0.56	-0.11
2,374.00	9.80	172.50	2,341.68	-341.47	55.93	101.02	2.22	-1.98	5.49
2,462.00	9.90	169.40	2,428.39	-356.33	58.30	105.35	0.61	0.11	-3.52
2,554.00	9.60	173.60	2,519.06	-371.73	60.61	109.69	0.84	-0.33	4.57
2,644.00	9.90	173.90	2,607.76	-386.88	62.27	113.36	0.34	0.33	0.33
2,736.00	9.50	168.60	2,698.45	-402.18	64.61	117.72	1.06	-0.43	-5.76
2,827.00	9.90	168.30	2,788.15	-417.21	67.68	122.77	0.44	0.44	-0.33
2,920.00	8.30	173.40	2,879.97	-431.70	70.08	127.08	1.93	-1.72	5.48
3,013.00	8.60	173.40	2,971.96	-445.28	71.65	130.45	0.32	0.32	0.00
3,104.00	9.20	171.70	3,061.87	-459.24	73.48	134.13	0.72	0.66	-1.87
3,197.00	9.50	170.30	3,153.63	-474.16	75.85	138.46	0.40	0.32	-1.51
3,290.00	9.80	175.30	3,245.32	-489.61	77.79	142.45	0.96	0.32	5.38
3,380.00	9.90	175.60	3,333.99	-504.96	79.01	145.71	0.12	0.11	0.33
3,401.00	10.20	177.20	3,354.67	-508.62	79.24	146.43	1.95	1.43	7.62
SURFACE CSG - 3401' MD, 3355' TVD									
3,507.00	10.05	177.81	3,459.02	-527.23	80.05	149.71	0.17	-0.14	0.58
3,602.00	8.79	178.28	3,552.73	-542.77	80.58	152.32	1.33	-1.33	0.49
3,698.00	9.65	172.32	3,647.50	-558.08	81.88	155.65	1.34	0.90	-6.21
3,792.00	8.15	171.12	3,740.36	-572.47	83.96	159.63	1.61	-1.60	-1.28
3,887.00	9.67	173.42	3,834.21	-587.05	85.92	163.51	1.64	1.60	2.42
3,981.00	10.85	177.49	3,926.71	-603.73	87.21	167.02	1.47	1.26	4.33
4,076.00	9.34	174.46	4,020.24	-620.34	88.34	170.36	1.68	-1.59	-3.19
4,266.00	9.58	167.81	4,207.66	-651.14	93.17	179.26	0.59	0.13	-3.50
4,360.00	11.01	166.76	4,300.14	-667.52	96.88	185.12	1.53	1.52	-1.12
4,455.00	9.20	161.89	4,393.67	-683.57	101.32	191.66	2.11	-1.91	-5.13
4,549.00	8.94	169.18	4,486.49	-697.89	105.02	197.25	1.25	-0.28	7.76
4,645.00	10.93	177.33	4,581.05	-714.31	106.85	201.25	2.53	2.07	8.49
4,740.00	9.07	173.84	4,674.61	-730.75	108.07	204.65	2.06	-1.96	-3.67
4,835.00	12.41	174.36	4,767.93	-748.36	109.88	208.80	3.52	3.52	0.55

Survey Report

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Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5708.00usft
Site:	SEC 10-T4S-R65W	MD Reference:	KB 25' @ 5708.00usft
Well:	PROSPER FARMS 4-65 11-12 4AH	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)
4,930.00	10.93	174.15	4,860.96	-767.48	111.80	213.25	1.56	-1.56	-0.22
5,025.00	8.87	172.79	4,954.54	-783.71	113.64	217.24	2.18	-2.17	-1.43
5,120.00	11.66	175.81	5,048.02	-800.55	115.26	221.09	2.99	2.94	3.18
5,216.00	9.75	174.55	5,142.34	-818.32	116.74	224.93	2.00	-1.99	-1.31
5,310.00	8.12	172.81	5,235.20	-832.83	118.33	228.44	1.76	-1.73	-1.85
5,406.00	10.14	173.41	5,329.98	-847.96	120.14	232.27	2.11	2.10	0.62
5,501.00	9.32	170.67	5,423.61	-863.85	122.35	236.57	0.99	-0.86	-2.88
5,596.00	8.65	170.50	5,517.44	-878.49	124.78	240.93	0.71	-0.71	-0.18
5,691.00	7.45	168.96	5,611.51	-891.58	127.14	245.02	1.28	-1.26	-1.62
5,786.00	9.01	162.70	5,705.53	-904.73	130.53	250.14	1.89	1.64	-6.59
5,881.00	11.60	175.34	5,799.00	-921.36	133.52	255.32	3.60	2.73	13.31
5,976.00	10.26	172.15	5,892.27	-939.26	135.45	259.62	1.55	-1.41	-3.36
6,072.00	8.36	169.81	5,987.00	-954.60	137.85	264.05	2.02	-1.98	-2.44
6,167.00	9.75	166.51	6,080.82	-969.22	140.95	269.07	1.56	1.46	-3.47
6,262.00	8.02	163.57	6,174.68	-983.40	144.70	274.68	1.88	-1.82	-3.09
6,357.00	9.55	169.45	6,268.56	-997.50	148.02	279.85	1.87	1.61	6.19
6,452.00	12.40	165.13	6,361.81	-1,015.11	152.08	286.23	3.12	3.00	-4.55
6,641.00	7.78	155.49	6,547.85	-1,046.39	162.60	300.83	2.59	-2.44	-5.10
6,736.00	9.94	158.09	6,641.72	-1,059.84	168.33	308.30	2.31	2.27	2.74
6,831.00	9.82	169.30	6,735.32	-1,075.41	172.89	314.91	2.03	-0.13	11.80
6,926.00	7.50	164.47	6,829.23	-1,089.35	176.06	319.90	2.56	-2.44	-5.08
7,021.00	7.90	179.74	6,923.38	-1,101.85	177.75	323.25	2.19	0.42	16.07
7,116.00	9.54	175.01	7,017.28	-1,116.23	178.46	325.87	1.88	1.73	-4.98
7,211.00	10.45	170.56	7,110.84	-1,132.57	180.56	330.13	1.26	0.96	-4.68
7,307.00	10.15	166.30	7,205.29	-1,149.37	183.99	335.78	0.85	-0.31	-4.44
7,385.00	9.67	147.81	7,282.15	-1,161.60	189.11	342.48	4.11	-0.62	-23.71
KOP - 7385' MD, 7282' TVD									
7,402.00	9.70	143.66	7,298.91	-1,163.96	190.72	344.39	4.11	0.19	-24.40
7,498.00	20.14	114.48	7,391.66	-1,177.38	210.63	365.92	13.08	10.87	-30.40
7,592.00	26.28	106.35	7,478.03	-1,189.95	245.37	402.03	7.35	6.53	-8.65
7,687.00	31.93	102.61	7,561.01	-1,201.37	290.11	447.88	6.25	5.95	-3.94
7,782.00	43.58	97.86	7,636.00	-1,211.37	347.27	505.87	12.63	12.26	-5.00
7,877.00	53.72	96.76	7,698.69	-1,220.38	417.92	577.09	10.71	10.67	-1.16
7,971.00	62.62	96.93	7,748.21	-1,229.89	497.13	656.86	9.47	9.47	0.18
8,066.00	70.20	96.14	7,786.20	-1,239.78	583.57	743.84	8.02	7.98	-0.83
8,161.00	76.22	96.32	7,813.63	-1,249.64	673.94	834.72	6.34	6.34	0.19
8,246.93	81.01	92.11	7,830.60	-1,255.81	757.90	918.76	7.35	5.57	-4.89
~330' X-OVER PNT - 8246.93' MD, 1018' FSL, 330' FWL SEC 11									
8,257.00	81.57	91.63	7,832.13	-1,256.13	767.85	928.67	7.35	5.60	-4.81
8,352.00	90.56	90.40	7,838.64	-1,257.81	862.51	1,022.70	9.55	9.46	-1.29
HZ LANDING PNT - 8352' MD, 7839' TVD									
8,448.00	91.80	90.00	7,836.66	-1,258.14	958.49	1,117.87	1.36	1.29	-0.42
8,542.00	90.35	91.57	7,834.90	-1,259.43	1,052.46	1,211.17	2.27	-1.54	1.67
8,637.00	89.47	92.82	7,835.05	-1,263.07	1,147.39	1,305.73	1.61	-0.93	1.32

Survey Report

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Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5708.00usft
Site:	SEC 10-T4S-R65W	MD Reference:	KB 25' @ 5708.00usft
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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)	
8,827.00	90.52	92.94	7,835.06	-1,272.61	1,337.15	1,495.06	0.56	0.55	0.06	
8,921.00	89.65	94.78	7,834.92	-1,278.94	1,430.93	1,588.85	2.17	-0.93	1.96	
9,015.00	91.33	94.53	7,834.12	-1,286.57	1,524.61	1,682.71	1.81	1.79	-0.27	
9,111.00	89.78	92.67	7,833.19	-1,292.60	1,620.41	1,778.46	2.52	-1.61	-1.94	
9,206.00	91.52	94.66	7,832.11	-1,298.67	1,715.20	1,873.21	2.78	1.83	2.09	
9,301.00	89.85	92.96	7,830.98	-1,304.98	1,809.98	1,967.98	2.51	-1.76	-1.79	
9,396.00	89.29	91.31	7,831.69	-1,308.52	1,904.91	2,062.53	1.83	-0.59	-1.74	
9,584.00	89.65	91.95	7,833.43	-1,313.87	2,092.82	2,249.48	0.39	0.19	0.34	
9,679.00	90.45	89.65	7,833.35	-1,315.19	2,187.80	2,343.79	2.56	0.84	-2.42	
9,775.00	90.82	89.39	7,832.28	-1,314.39	2,283.79	2,438.81	0.47	0.39	-0.27	
9,870.00	91.53	89.50	7,830.33	-1,313.47	2,378.77	2,532.82	0.76	0.75	0.12	
9,965.00	92.50	89.61	7,826.99	-1,312.73	2,473.71	2,626.81	1.03	1.02	0.12	
10,059.00	89.72	89.22	7,825.17	-1,311.77	2,567.67	2,719.80	2.99	-2.96	-0.41	
10,154.00	90.35	89.15	7,825.12	-1,310.42	2,662.66	2,813.76	0.67	0.66	-0.07	
10,342.00	90.39	90.37	7,823.90	-1,309.63	2,850.65	2,999.97	0.65	0.02	0.65	
10,436.00	90.98	90.12	7,822.78	-1,310.03	2,944.65	3,093.17	0.68	0.63	-0.27	
10,531.00	91.64	89.65	7,820.61	-1,309.84	3,039.62	3,187.27	0.85	0.69	-0.49	
10,626.00	92.76	89.66	7,816.96	-1,309.27	3,134.55	3,281.27	1.18	1.18	0.01	
10,721.00	90.68	89.71	7,814.11	-1,308.75	3,229.50	3,375.30	2.19	-2.19	0.05	
10,911.00	91.19	88.74	7,811.01	-1,306.18	3,419.45	3,563.21	0.58	0.27	-0.51	
11,101.00	90.02	89.70	7,809.00	-1,303.59	3,609.42	3,751.13	0.80	-0.62	0.51	
11,195.00	90.62	89.67	7,808.48	-1,303.08	3,703.42	3,844.22	0.64	0.64	-0.03	
11,290.00	90.27	90.91	7,807.74	-1,303.56	3,798.41	3,938.43	1.36	-0.37	1.31	
11,384.00	88.04	91.88	7,809.12	-1,305.85	3,892.36	4,031.85	2.59	-2.37	1.03	
11,479.00	88.11	91.31	7,812.32	-1,308.49	3,987.27	4,126.26	0.60	0.07	-0.60	
11,574.00	88.18	90.67	7,815.39	-1,310.13	4,082.21	4,220.57	0.68	0.07	-0.67	
11,668.00	90.42	90.57	7,816.54	-1,311.15	4,176.19	4,313.84	2.39	2.38	-0.11	
11,763.00	91.79	90.28	7,814.71	-1,311.85	4,271.17	4,408.06	1.47	1.44	-0.31	
11,857.00	90.55	92.11	7,812.79	-1,313.81	4,365.12	4,501.44	2.35	-1.32	1.95	
11,952.00	91.56	91.78	7,811.04	-1,317.04	4,460.05	4,595.95	1.12	1.06	-0.35	
12,048.00	89.25	92.66	7,810.36	-1,320.75	4,555.97	4,691.50	2.57	-2.41	0.92	
12,143.00	89.80	92.20	7,811.15	-1,324.78	4,650.88	4,786.10	0.75	0.58	-0.48	
12,237.00	91.32	92.02	7,810.23	-1,328.24	4,744.81	4,879.65	1.63	1.62	-0.19	
12,331.00	89.60	91.94	7,809.47	-1,331.49	4,838.74	4,973.18	1.83	-1.83	-0.09	
12,426.00	90.11	91.69	7,809.71	-1,334.50	4,933.70	5,067.68	0.60	0.54	-0.26	
12,521.00	90.52	91.46	7,809.19	-1,337.11	5,028.66	5,162.15	0.49	0.43	-0.24	
12,615.00	91.09	90.63	7,807.87	-1,338.82	5,122.63	5,255.51	1.07	0.61	-0.88	
12,711.00	92.02	90.19	7,805.27	-1,339.51	5,218.59	5,350.70	1.07	0.97	-0.46	
12,806.00	90.14	90.21	7,803.48	-1,339.84	5,313.57	5,444.87	1.98	-1.98	0.02	
12,901.00	90.69	89.65	7,802.79	-1,339.73	5,408.57	5,539.00	0.83	0.58	-0.59	
12,996.00	90.73	88.49	7,801.61	-1,338.18	5,503.55	5,632.93	1.22	0.04	-1.22	
13,091.00	91.46	86.61	7,799.79	-1,334.12	5,598.44	5,726.43	2.12	0.77	-1.98	
13,282.00	91.65	90.18	7,794.61	-1,328.78	5,789.26	5,914.83	1.87	0.10	1.87	

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well PROSPER FARMS 4-65 11-12 4AH
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5708.00usft
Site:	SEC 10-T4S-R65W	MD Reference:	KB 25' @ 5708.00usft
Well:	PROSPER FARMS 4-65 11-12 4AH	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)	
13,377.00	91.93	91.32	7,791.64	-1,330.02	5,884.21	6,009.09	1.24	0.29	1.20	
13,472.00	89.66	92.82	7,790.32	-1,333.45	5,979.13	6,103.62	2.86	-2.39	1.58	
13,566.00	89.88	92.86	7,790.70	-1,338.11	6,073.01	6,197.28	0.24	0.23	0.04	
13,662.00	91.00	93.47	7,789.96	-1,343.41	6,168.86	6,292.98	1.33	1.17	0.64	
13,757.00	88.44	93.51	7,790.43	-1,349.19	6,263.67	6,387.72	2.70	-2.69	0.04	
13,852.00	88.41	92.98	7,793.04	-1,354.57	6,358.48	6,482.40	0.56	-0.03	-0.56	
14,042.00	88.62	92.47	7,797.96	-1,363.60	6,548.21	6,671.63	0.29	0.11	-0.27	
14,137.00	90.62	91.02	7,798.59	-1,366.49	6,643.15	6,766.11	2.60	2.11	-1.53	
14,232.00	91.44	91.13	7,796.89	-1,368.27	6,738.12	6,860.47	0.87	0.86	0.12	
14,325.00	91.65	90.64	7,794.38	-1,369.71	6,831.07	6,952.78	0.57	0.23	-0.53	
14,421.00	89.82	90.51	7,793.15	-1,370.67	6,927.06	7,048.03	1.91	-1.91	-0.14	
14,515.00	89.48	90.18	7,793.72	-1,371.24	7,021.05	7,141.26	0.50	-0.36	-0.35	
14,610.00	92.50	90.79	7,792.08	-1,372.04	7,116.02	7,235.49	3.24	3.18	0.64	
14,705.00	91.14	90.72	7,789.06	-1,373.29	7,210.97	7,329.75	1.43	-1.43	-0.07	
14,800.00	92.26	90.96	7,786.24	-1,374.68	7,305.91	7,424.03	1.21	1.18	0.25	
14,895.00	90.81	91.47	7,783.70	-1,376.70	7,400.85	7,518.39	1.62	-1.53	0.54	
14,990.00	92.34	91.02	7,781.09	-1,378.76	7,495.79	7,612.76	1.68	1.61	-0.47	
15,085.00	90.50	91.99	7,778.73	-1,381.25	7,590.73	7,707.17	2.19	-1.94	1.02	
15,181.00	91.95	91.82	7,776.68	-1,384.44	7,686.65	7,802.66	1.52	1.51	-0.18	
15,276.00	89.87	92.73	7,775.17	-1,388.22	7,781.55	7,897.22	2.39	-2.19	0.96	
15,371.00	91.68	92.61	7,773.89	-1,392.64	7,876.44	7,991.85	1.91	1.91	-0.13	
15,466.00	89.74	92.77	7,772.71	-1,397.10	7,971.32	8,086.48	2.05	-2.04	0.17	
15,560.00	89.18	91.04	7,773.60	-1,400.22	8,065.26	8,180.00	1.93	-0.60	-1.84	
15,655.00	90.23	90.60	7,774.09	-1,401.58	8,160.25	8,274.31	1.20	1.11	-0.46	
15,845.00	89.37	89.84	7,774.75	-1,402.31	8,350.24	8,462.71	0.60	-0.45	-0.40	
15,940.00	90.79	89.46	7,774.62	-1,401.73	8,445.24	8,556.77	1.55	1.49	-0.40	
16,035.00	92.11	89.02	7,772.21	-1,400.47	8,540.20	8,650.71	1.46	1.39	-0.46	
16,130.00	88.54	89.55	7,771.67	-1,399.29	8,635.17	8,744.68	3.80	-3.76	0.56	
16,225.00	89.67	88.85	7,773.16	-1,397.96	8,730.15	8,838.63	1.40	1.19	-0.74	
16,321.00	91.37	88.40	7,772.29	-1,395.66	8,826.12	8,933.43	1.83	1.77	-0.47	
16,416.00	92.74	88.23	7,768.88	-1,392.87	8,921.01	9,027.10	1.45	1.44	-0.18	
16,510.00	90.86	89.58	7,765.93	-1,391.07	9,014.94	9,119.95	2.46	-2.00	1.44	
16,605.00	92.27	89.65	7,763.33	-1,390.43	9,109.90	9,213.98	1.49	1.48	0.07	
16,701.00	89.65	91.32	7,761.73	-1,391.25	9,205.87	9,309.20	3.24	-2.73	1.74	
16,795.00	90.65	91.04	7,761.48	-1,393.18	9,299.85	9,402.59	1.10	1.06	-0.30	
16,889.00	91.73	90.82	7,759.53	-1,394.71	9,393.82	9,495.92	1.17	1.15	-0.23	
16,984.00	89.31	91.39	7,758.66	-1,396.54	9,488.79	9,590.29	2.62	-2.55	0.60	
17,080.00	89.91	91.53	7,759.32	-1,398.98	9,584.75	9,685.72	0.64	0.62	0.15	
17,174.00	90.55	91.97	7,758.94	-1,401.86	9,678.71	9,779.22	0.83	0.68	0.47	
17,269.00	90.11	92.58	7,758.39	-1,405.63	9,773.63	9,873.80	0.79	-0.46	0.64	
17,364.00	90.66	92.69	7,757.76	-1,409.99	9,868.53	9,968.43	0.59	0.58	0.12	
17,460.00	89.38	92.43	7,757.72	-1,414.28	9,964.43	10,064.04	1.36	-1.33	-0.27	
17,554.00	90.10	92.40	7,758.15	-1,418.24	10,058.35	10,157.65	0.77	0.77	-0.03	
17,649.00	91.42	94.03	7,756.89	-1,423.57	10,153.18	10,252.35	2.21	1.39	1.72	

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well PROSPER FARMS 4-65 11-12 4AH
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5708.00usft
Site:	SEC 10-T4S-R65W	MD Reference:	KB 25' @ 5708.00usft
Well:	PROSPER FARMS 4-65 11-12 4AH	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)
17,744.00	90.10	93.12	7,755.63	-1,429.49	10,247.99	10,347.09	1.69	-1.39	-0.96
17,839.00	90.37	92.58	7,755.24	-1,434.22	10,342.87	10,441.75	0.64	0.28	-0.57
17,934.00	88.87	90.47	7,755.87	-1,436.74	10,437.82	10,536.20	2.72	-1.58	-2.22
18,030.00	88.80	90.16	7,757.82	-1,437.27	10,533.80	10,631.39	0.33	-0.07	-0.32
18,109.00	88.76	90.35	7,759.50	-1,437.62	10,612.78	10,709.71	0.25	-0.05	0.24
LAST SURVEY - 18109' MD, 7760' TVD									
18,172.00	88.76	90.35	7,760.87	-1,438.01	10,675.77	10,772.18	0.00	0.00	0.00
EXTRAPOLATION TO TD - 18172' MD, 975' FSL, 330' FEL SEC 12									

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 11-12 4A - actual wellpath misses target center by 43.55usft at 18171.50usft MD (7760.86 TVD, -1438.00 N, 10675.27 E) - Point	0.00	0.00	7,725.00	-1,413.31	10,676.20	1,686,014.21	3,251,939.84	39.713502°N	104.604449°W
LP-PF 4-65 11-12 4AH - actual wellpath misses target center by 26.23usft at 8250.45usft MD (7831.14 TVD, -1255.93 N, 761.38 E) - Point	0.00	0.00	7,850.00	-1,273.83	757.90	1,686,060.06	3,242,020.73	39.713891°N	104.639704°W

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
3,401.00	3,354.67	-508.62	79.24	SURFACE CSG - 3401' MD, 3355' TVD	
7,385.00	7,282.15	-1,161.60	189.11	KOP - 7385' MD, 7282' TVD	
8,246.93	7,830.60	-1,255.81	757.90	~330' X-OVER PNT - 8246.93' MD, 1018' FSL, 330' FWL SEC 11	
8,352.00	7,838.64	-1,257.81	862.51	HZ LANDING PNT - 8352' MD, 7839' TVD	
18,109.00	7,759.50	-1,437.62	10,612.78	LAST SURVEY - 18109' MD, 7760' TVD	
18,172.00	7,760.87	-1,438.01	10,675.77	EXTRAPOLATION TO TD - 18172' MD, 975' FSL, 330' FEL SEC 12	

Checked By: _____ Approved By: _____ Date: _____