

CRESTONE PEAK RESOURCES

ARAPAHOE COUNTY

SEC 10-T4S-R65W

PROSPER FARMS 4-65 11-12 1BH

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 1BH
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



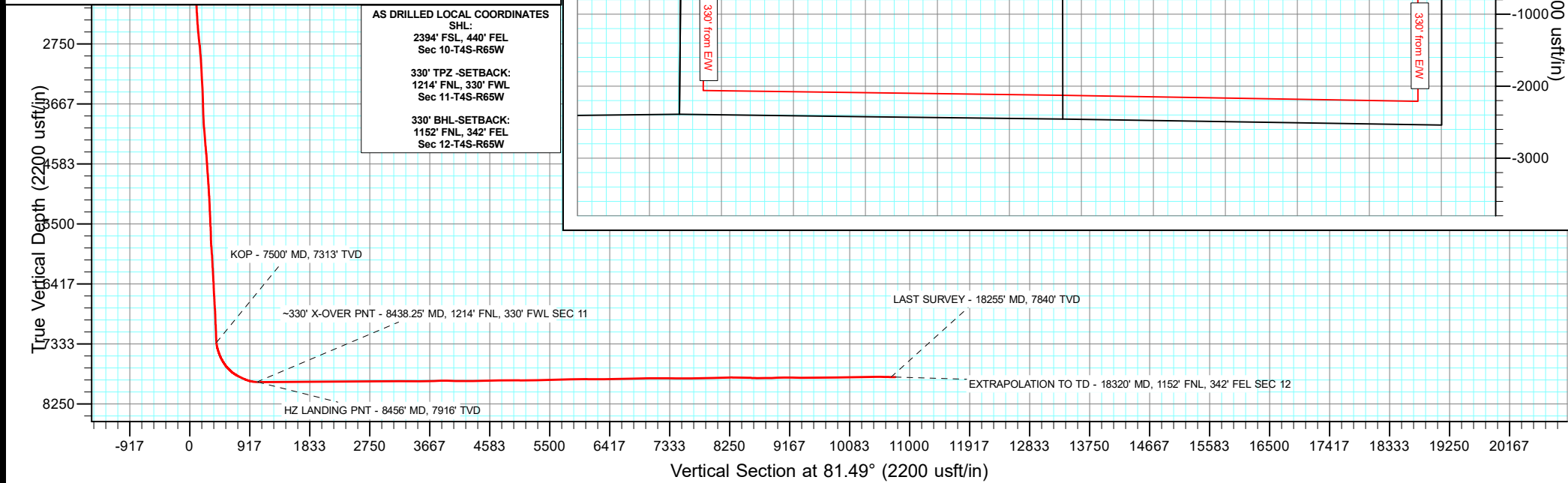
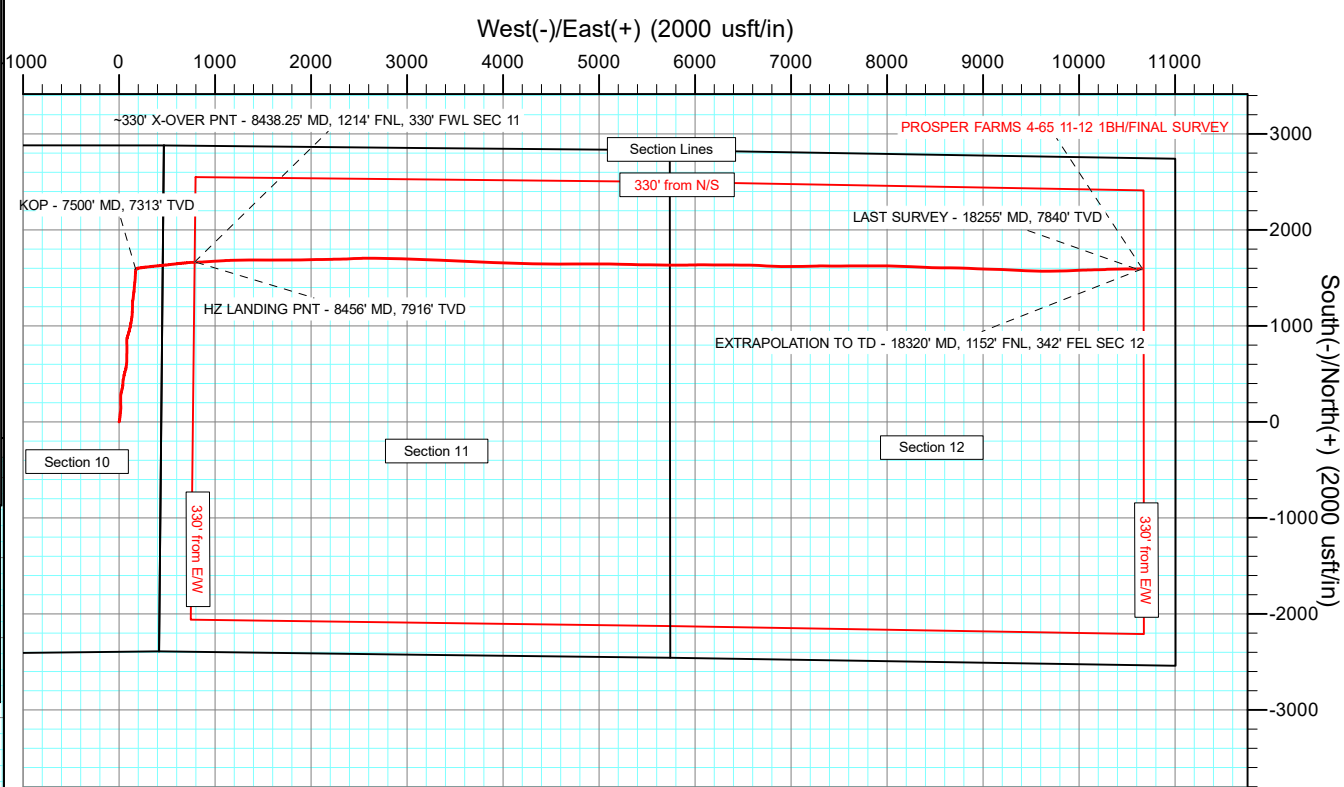
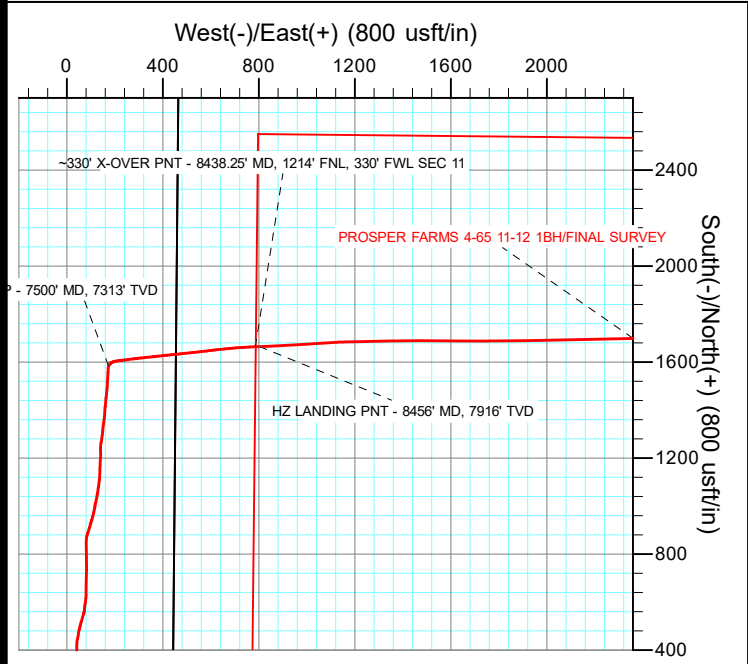
Azimuths to True North
Magnetic North: 7.61°
Magnetic Field
Strength: 51484.9nT
Dip Angle: 66.08°
Date: 7/21/2022
Model: IGRF2020

WELL DETAILS: PROSPER FARMS 4-65 11-12 1BH

5684.00						Slot
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	1687446.52	3241250.84	39.717717°N	104.642394°W	

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
7500.00	11.70	15.83	7313.15	1585.15	174.36	407.13	1603.07	KOP - 7500' MD, 7313' TVD
8438.25	87.53	87.89	7915.61	1664.30	785.94	1023.69	2226.78	~330' X-OVER PNT - 8438.25' MD, 1214' FNL, 330' FWL SEC 11
8456.00	88.23	87.85	7916.24	1664.95	803.67	1041.31	2244.50	HZ LANDING PNT - 8456' MD, 7916' TVD
18255.00	88.69	89.55	7839.77	1595.61	10596.80	10716.25	12041.90	LAST SURVEY - 18255' MD, 7840' TVD
18320.00	88.69	89.55	7841.26	1596.12	10661.78	10780.59	12106.88	EXTRAPOLATION TO TD - 18320' MD, 1152' FNL, 342' FEL SEC 12



Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well PROSPER FARMS 4-65 11-12 1BH
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5709.00usft
Site:	SEC 10-T4S-R65W	MD Reference:	KB 25' @ 5709.00usft
Well:	PROSPER FARMS 4-65 11-12 1BH	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 1BH					
Well Position	+N/-S	0.00 usft	Northing:	1,687,446.52 usft	Latitude:	39.717717°N
	+E/-W	0.00 usft	Easting:	3,241,250.84 usft	Longitude:	104.642394°W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	5,684.00 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	7/21/2022	7.61	66.08	51,484.87779976

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	81.49	

Survey Program	Date	1/4/2023			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
182.00	3,289.00	SURFACE SURVEY (OWB)	MWD OWSG	OWSG MWD - Standard	
3,407.00	18,320.00	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	1.00	30.50	181.99	1.37	0.81	1.00	0.55	0.55	0.00	
287.00	2.60	22.10	286.94	4.36	2.17	2.79	1.54	1.52	-8.00	
377.00	3.70	13.70	376.80	9.08	3.62	4.93	1.32	1.22	-9.33	
469.00	5.20	9.70	468.52	16.07	5.03	7.35	1.66	1.63	-4.35	
558.00	6.80	3.60	557.03	25.31	6.04	9.72	1.93	1.80	-6.85	
648.00	9.40	8.00	646.12	37.90	7.40	12.93	2.97	2.89	4.89	
740.00	10.90	7.50	736.68	53.97	9.58	17.46	1.63	1.63	-0.54	
831.00	11.90	4.10	825.89	71.86	11.37	21.89	1.32	1.10	-3.74	
924.00	13.20	7.00	916.66	91.96	13.35	26.82	1.55	1.40	3.12	

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Site:	SEC 10-T4S-R65W	MD Reference:	KB 25' @ 5709.00usft
Well:	PROSPER FARMS 4-65 11-12 1BH	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	14.50	6.10	1,005.99	113.84	15.86	32.54	1.43	1.41	-0.98
1,105.00	16.20	4.80	1,091.81	137.29	18.08	38.21	1.95	1.91	-1.46
1,197.00	15.20	358.50	1,180.38	162.14	18.84	42.64	2.15	-1.09	-6.85
1,288.00	15.60	356.80	1,268.12	186.28	17.84	45.23	0.66	0.44	-1.87
1,377.00	13.40	356.20	1,354.28	208.52	16.49	47.18	2.48	-2.47	-0.67
1,467.00	12.40	1.30	1,442.01	228.59	16.02	49.69	1.68	-1.11	5.67
1,557.00	13.20	359.00	1,529.77	248.53	16.06	52.68	1.05	0.89	-2.56
1,649.00	13.20	4.30	1,619.34	269.51	16.66	56.38	1.32	0.00	5.76
1,740.00	13.50	11.80	1,707.89	290.27	19.61	62.37	1.93	0.33	8.24
1,830.00	14.80	12.70	1,795.16	311.76	24.29	70.18	1.46	1.44	1.00
1,922.00	16.30	13.50	1,883.79	335.78	29.89	79.27	1.65	1.63	0.87
2,014.00	17.50	13.20	1,971.81	361.80	36.06	89.23	1.31	1.30	-0.33
2,104.00	15.00	6.30	2,058.22	386.56	40.43	97.22	3.51	-2.78	-7.67
2,194.00	14.80	0.10	2,145.20	409.63	41.73	101.92	1.78	-0.22	-6.89
2,283.00	12.10	4.70	2,231.75	430.30	42.51	105.75	3.26	-3.03	5.17
2,374.00	11.50	10.20	2,320.83	448.74	44.90	110.84	1.40	-0.66	6.04
2,462.00	11.50	10.70	2,407.06	465.99	48.08	116.54	0.11	0.00	0.57
2,554.00	11.70	12.70	2,497.18	484.10	51.83	122.94	0.49	0.22	2.17
2,644.00	13.70	13.90	2,584.98	503.35	56.40	130.30	2.24	2.22	1.33
2,736.00	14.90	17.30	2,674.13	525.22	62.54	139.61	1.59	1.30	3.70
2,827.00	14.90	17.30	2,762.07	547.56	69.49	149.80	0.00	0.00	0.00
2,920.00	16.30	4.20	2,851.67	572.00	74.01	157.88	4.07	1.51	-14.09
3,013.00	17.40	10.60	2,940.68	598.69	77.52	165.31	2.32	1.18	6.88
3,104.00	16.60	0.50	3,027.72	625.07	80.14	171.80	3.36	-0.88	-11.10
3,197.00	17.50	1.20	3,116.64	652.33	80.55	176.24	0.99	0.97	0.75
3,289.00	17.80	1.10	3,204.30	680.22	81.11	180.92	0.33	0.33	-0.11
3,407.00	17.28	2.10	3,316.82	715.77	82.10	187.16	0.51	-0.44	0.85
3,501.00	16.79	0.69	3,406.69	743.29	82.77	191.91	0.68	-0.52	-1.50
3,596.00	16.10	359.36	3,497.81	770.19	82.79	195.91	0.83	-0.73	-1.40
3,691.00	15.46	357.84	3,589.23	796.01	82.16	199.11	0.80	-0.67	-1.60
3,786.00	13.09	358.06	3,681.29	819.42	81.32	201.75	2.50	-2.49	0.23
3,880.00	11.25	1.90	3,773.17	839.22	81.27	204.62	2.14	-1.96	4.09
3,975.00	10.31	0.15	3,866.50	856.99	81.60	207.58	1.05	-0.99	-1.84
4,070.00	9.86	13.38	3,960.04	873.40	83.50	211.89	2.48	-0.47	13.93
4,165.00	11.96	18.33	4,053.32	890.66	88.48	219.37	2.42	2.21	5.21
4,260.00	11.06	16.77	4,146.41	908.73	94.20	227.71	1.00	-0.95	-1.64
4,354.00	10.01	15.17	4,238.82	925.25	98.94	234.84	1.16	-1.12	-1.70
4,449.00	11.66	18.26	4,332.13	942.34	104.11	242.48	1.84	1.74	3.25
4,543.00	13.88	14.02	4,423.80	962.30	109.82	251.08	2.56	2.36	-4.51
4,638.00	12.38	10.83	4,516.31	983.36	114.50	258.83	1.75	-1.58	-3.36
4,733.00	9.89	9.73	4,609.52	1,001.41	117.79	264.75	2.63	-2.62	-1.16
4,829.00	11.70	13.30	4,703.82	1,019.01	121.42	270.95	2.01	1.89	3.72
4,924.00	12.89	10.48	4,796.64	1,038.80	125.57	277.98	1.40	1.25	-2.97

Survey Report

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Site:	SEC 10-T4S-R65W	MD Reference:	KB 25' @ 5709.00usft
Well:	PROSPER FARMS 4-65 11-12 1BH	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)	
5,018.00	11.14	9.16	4,888.57	1,058.08	128.92	284.15	1.88	-1.86	-1.40	
5,114.00	12.59	8.09	4,982.52	1,077.59	131.87	289.96	1.53	1.51	-1.11	
5,209.00	11.40	7.44	5,075.44	1,097.15	134.54	295.50	1.26	-1.25	-0.68	
5,304.00	13.35	5.00	5,168.23	1,117.39	136.71	300.64	2.12	2.05	-2.57	
5,398.00	11.54	0.09	5,260.02	1,137.61	137.67	304.58	2.23	-1.93	-5.22	
5,494.00	13.27	3.77	5,353.78	1,158.20	138.41	308.36	1.98	1.80	3.83	
5,589.00	12.83	2.95	5,446.33	1,179.62	139.67	312.78	0.50	-0.46	-0.86	
5,684.00	12.78	2.73	5,538.96	1,200.65	140.72	316.93	0.07	-0.05	-0.23	
5,779.00	11.93	359.42	5,631.76	1,220.96	141.12	320.33	1.16	-0.89	-3.48	
5,875.00	11.47	358.66	5,725.77	1,240.43	140.79	322.89	0.51	-0.48	-0.79	
5,969.00	12.13	9.91	5,817.79	1,259.50	142.27	327.18	2.54	0.70	11.97	
6,065.00	14.91	8.92	5,911.13	1,281.64	145.93	334.07	2.91	2.90	-1.03	
6,160.00	13.47	6.30	6,003.23	1,304.72	149.03	340.56	1.66	-1.52	-2.76	
6,255.00	11.42	4.79	6,095.99	1,325.09	151.03	345.56	2.18	-2.16	-1.59	
6,350.00	12.36	8.77	6,188.95	1,344.51	153.37	350.74	1.31	0.99	4.19	
6,445.00	10.92	7.15	6,281.99	1,363.49	156.04	356.19	1.55	-1.52	-1.71	
6,541.00	12.65	4.70	6,375.97	1,382.99	158.03	361.05	1.88	1.80	-2.55	
6,635.00	10.88	2.76	6,467.99	1,402.11	159.30	365.14	1.93	-1.88	-2.06	
6,730.00	13.23	6.94	6,560.89	1,421.86	161.05	369.79	2.64	2.47	4.40	
6,825.00	11.69	4.49	6,653.65	1,442.25	163.12	374.85	1.71	-1.62	-2.58	
6,919.00	14.27	7.09	6,745.24	1,463.24	165.29	380.11	2.81	2.74	2.77	
7,015.00	12.84	4.96	6,838.57	1,485.61	167.68	385.78	1.58	-1.49	-2.22	
7,109.00	10.85	1.91	6,930.56	1,504.86	168.87	389.81	2.22	-2.12	-3.24	
7,204.00	11.23	4.66	7,023.80	1,523.02	169.92	393.54	0.68	0.40	2.89	
7,299.00	13.19	3.57	7,116.65	1,543.06	171.35	397.92	2.08	2.06	-1.15	
7,395.00	11.77	0.78	7,210.38	1,563.78	172.17	401.79	1.61	-1.48	-2.91	
7,490.00	11.93	9.47	7,303.36	1,583.15	173.91	406.39	1.88	0.17	9.15	
7,500.00	11.70	15.83	7,313.15	1,585.15	174.36	407.13	13.22	-2.26	63.62	
KOP - 7500' MD, 7313' TVD										
7,586.00	15.27	63.83	7,397.01	1,598.58	186.94	421.56	13.22	4.15	55.81	
7,681.00	20.49	83.94	7,487.48	1,605.86	214.75	450.14	8.44	5.49	21.17	
7,776.00	28.61	81.67	7,573.82	1,610.92	253.86	489.56	8.60	8.55	-2.39	
7,871.00	35.29	84.23	7,654.39	1,616.98	303.72	539.78	7.17	7.03	2.69	
7,965.00	45.21	83.76	7,726.04	1,623.36	364.05	600.38	10.56	10.55	-0.50	
8,059.00	55.78	84.20	7,785.76	1,630.93	436.07	672.74	11.25	11.24	0.47	
8,155.00	63.64	83.83	7,834.14	1,639.58	518.45	755.49	8.19	8.19	-0.39	
8,250.00	66.58	83.12	7,874.12	1,649.38	604.06	841.60	3.17	3.09	-0.75	
8,345.00	77.43	85.04	7,903.42	1,658.63	693.80	931.72	11.58	11.42	2.02	
8,438.25	87.53	87.89	7,915.61	1,664.30	785.94	1,023.69	11.25	10.83	3.05	
~330' X-OVER PNT - 8438.25' MD, 1214' FNL, 330' FWL SEC 11										
8,441.00	87.83	87.97	7,915.72	1,664.40	788.69	1,026.42	11.25	10.84	3.00	
8,456.00	88.23	87.85	7,916.24	1,664.95	803.67	1,041.31	2.78	2.66	-0.80	
HZ LANDING PNT - 8456' MD, 7916' TVD										
8,536.00	90.36	87.21	7,917.23	1,668.39	883.58	1,120.86	2.78	2.66	-0.80	

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Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5709.00usft
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Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
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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)
8,631.00	90.69	86.39	7,916.35	1,673.70	978.43	1,215.44	0.93	0.35	-0.86
8,726.00	90.79	85.98	7,915.13	1,680.02	1,073.21	1,310.12	0.44	0.11	-0.43
8,821.00	89.24	88.78	7,915.10	1,684.36	1,168.10	1,404.60	3.37	-1.63	2.95
9,010.00	91.41	88.84	7,914.03	1,688.28	1,357.04	1,592.05	1.15	1.15	0.03
9,104.00	90.12	89.92	7,912.78	1,689.30	1,451.03	1,685.14	1.79	-1.37	1.15
9,200.00	90.59	90.25	7,912.18	1,689.16	1,547.02	1,780.06	0.60	0.49	0.34
9,295.00	91.72	90.90	7,910.27	1,688.21	1,642.00	1,873.85	1.37	1.19	0.68
9,390.00	89.56	89.57	7,909.20	1,687.82	1,736.98	1,967.73	2.67	-2.27	-1.40
9,484.00	90.07	89.19	7,909.51	1,688.83	1,830.98	2,060.84	0.68	0.54	-0.40
9,673.00	89.75	89.05	7,909.81	1,691.74	2,019.95	2,248.16	0.18	-0.17	-0.07
9,768.00	90.43	88.74	7,909.66	1,693.57	2,114.94	2,342.37	0.79	0.72	-0.33
9,864.00	91.77	88.77	7,907.81	1,695.65	2,210.89	2,437.58	1.40	1.40	0.03
9,959.00	89.72	88.56	7,906.58	1,697.87	2,305.85	2,531.82	2.17	-2.16	-0.22
10,054.00	90.40	88.06	7,906.48	1,700.67	2,400.81	2,626.14	0.89	0.72	-0.53
10,148.00	91.27	87.18	7,905.11	1,704.57	2,494.72	2,719.59	1.32	0.93	-0.94
10,243.00	89.54	89.72	7,904.44	1,707.14	2,589.67	2,813.88	3.23	-1.82	2.67
10,337.00	90.25	89.63	7,904.61	1,707.67	2,683.67	2,906.92	0.76	0.76	-0.10
10,431.00	89.26	92.04	7,905.01	1,706.30	2,777.65	2,999.66	2.77	-1.05	2.56
10,525.00	90.53	91.90	7,905.18	1,703.07	2,871.59	3,092.09	1.36	1.35	-0.15
10,620.00	91.90	91.73	7,903.17	1,700.06	2,966.52	3,185.53	1.45	1.44	-0.18
10,715.00	89.03	92.41	7,902.40	1,696.63	3,061.44	3,278.90	3.10	-3.02	0.72
10,810.00	89.38	92.26	7,903.72	1,692.76	3,156.36	3,372.19	0.40	0.37	-0.16
10,904.00	90.22	91.95	7,904.04	1,689.31	3,250.29	3,464.58	0.95	0.89	-0.33
11,000.00	90.50	92.20	7,903.44	1,685.83	3,346.23	3,558.94	0.39	0.29	0.26
11,094.00	91.31	92.47	7,901.96	1,682.01	3,440.14	3,651.25	0.91	0.86	0.29
11,190.00	92.18	92.09	7,899.03	1,678.19	3,536.01	3,745.51	0.99	0.91	-0.40
11,284.00	91.21	93.27	7,896.25	1,673.79	3,629.87	3,837.68	1.62	-1.03	1.26
11,379.00	88.74	92.91	7,896.29	1,668.67	3,724.72	3,930.73	2.63	-2.60	-0.38
11,473.00	88.98	92.75	7,898.16	1,664.03	3,818.59	4,022.87	0.31	0.26	-0.17
11,568.00	89.66	92.33	7,899.29	1,659.82	3,913.49	4,116.10	0.84	0.72	-0.44
11,663.00	90.37	91.77	7,899.27	1,656.43	4,008.43	4,209.49	0.95	0.75	-0.59
11,757.00	91.49	91.31	7,897.74	1,653.90	4,102.38	4,302.03	1.29	1.19	-0.49
11,852.00	89.47	90.82	7,896.95	1,652.13	4,197.35	4,395.70	2.19	-2.13	-0.52
11,946.00	91.06	91.30	7,896.51	1,650.40	4,291.33	4,488.39	1.77	1.69	0.51
12,041.00	91.90	90.80	7,894.06	1,648.66	4,386.28	4,582.03	1.03	0.88	-0.53
12,137.00	90.29	90.66	7,892.22	1,647.43	4,482.25	4,676.77	1.68	-1.68	-0.15
12,232.00	90.88	90.31	7,891.25	1,646.63	4,577.25	4,770.59	0.72	0.62	-0.37
12,326.00	91.80	89.76	7,889.05	1,646.57	4,671.22	4,863.52	1.14	0.98	-0.59
12,420.00	88.93	89.88	7,888.46	1,646.87	4,765.21	4,956.52	3.06	-3.05	0.13
12,515.00	89.38	89.63	7,889.86	1,647.27	4,860.20	5,050.52	0.54	0.47	-0.26
12,610.00	89.81	89.03	7,890.53	1,648.38	4,955.19	5,144.63	0.78	0.45	-0.63
12,704.00	91.56	91.99	7,889.40	1,647.55	5,049.16	5,237.44	3.66	1.86	3.15
12,800.00	92.67	91.16	7,885.86	1,644.91	5,145.06	5,331.89	1.44	1.16	-0.86

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well PROSPER FARMS 4-65 11-12 1BH
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5709.00usft
Site:	SEC 10-T4S-R65W	MD Reference:	KB 25' @ 5709.00usft
Well:	PROSPER FARMS 4-65 11-12 1BH	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)	
12,895.00	90.82	90.79	7,882.97	1,643.29	5,240.00	5,425.54	1.99	-1.95	-0.39	
12,990.00	90.96	91.34	7,881.49	1,641.53	5,334.97	5,519.21	0.60	0.15	0.58	
13,085.00	91.08	90.57	7,879.80	1,639.95	5,429.94	5,612.90	0.82	0.13	-0.81	
13,180.00	91.76	91.02	7,877.45	1,638.63	5,524.90	5,706.62	0.86	0.72	0.47	
13,276.00	91.08	91.20	7,875.07	1,636.77	5,620.85	5,801.24	0.73	-0.71	0.19	
13,371.00	91.88	91.15	7,872.62	1,634.82	5,715.80	5,894.85	0.84	0.84	-0.05	
13,466.00	89.65	89.39	7,871.35	1,634.37	5,810.78	5,988.72	2.99	-2.35	-1.85	
13,561.00	89.31	89.02	7,872.21	1,635.69	5,905.77	6,082.85	0.53	-0.36	-0.39	
13,655.00	88.89	88.64	7,873.69	1,637.61	5,999.73	6,176.07	0.60	-0.45	-0.40	
13,751.00	90.59	90.86	7,874.12	1,638.03	6,095.72	6,271.06	2.91	1.77	2.31	
13,846.00	91.20	90.52	7,872.64	1,636.89	6,190.70	6,364.83	0.74	0.64	-0.36	
13,941.00	91.86	89.81	7,870.10	1,636.61	6,285.67	6,458.70	1.02	0.69	-0.75	
14,036.00	90.35	90.33	7,868.27	1,636.50	6,380.65	6,552.62	1.68	-1.59	0.55	
14,131.00	90.97	90.60	7,867.17	1,635.73	6,475.64	6,646.45	0.71	0.65	0.28	
14,226.00	92.19	91.04	7,864.55	1,634.37	6,570.59	6,740.15	1.37	1.28	0.46	
14,321.00	91.08	91.89	7,861.84	1,631.94	6,665.52	6,833.67	1.47	-1.17	0.89	
14,414.00	91.39	94.35	7,859.84	1,626.88	6,758.35	6,924.74	2.67	0.33	2.65	
14,510.00	90.27	91.33	7,858.45	1,622.12	6,854.21	7,018.83	3.35	-1.17	-3.15	
14,604.00	91.04	92.48	7,857.37	1,619.00	6,948.15	7,111.28	1.47	0.82	1.22	
14,699.00	89.05	88.07	7,857.30	1,618.54	7,043.12	7,205.13	5.09	-2.09	-4.64	
14,794.00	89.39	88.24	7,858.59	1,621.60	7,138.06	7,299.48	0.40	0.36	0.18	
14,889.00	89.91	87.99	7,859.17	1,624.73	7,233.01	7,393.84	0.61	0.55	-0.26	
14,984.00	88.87	90.33	7,860.18	1,626.12	7,327.99	7,487.98	2.70	-1.09	2.46	
15,079.00	89.45	89.97	7,861.58	1,625.87	7,422.97	7,581.88	0.72	0.61	-0.38	
15,174.00	90.45	89.93	7,861.66	1,625.95	7,517.97	7,675.85	1.05	1.05	-0.04	
15,270.00	92.00	89.91	7,859.61	1,626.09	7,613.95	7,770.79	1.61	1.61	-0.02	
15,365.00	91.68	89.94	7,856.56	1,626.21	7,708.90	7,864.71	0.34	-0.34	0.03	
15,460.00	91.39	90.25	7,854.01	1,626.05	7,803.86	7,958.60	0.45	-0.31	0.33	
15,555.00	92.16	89.70	7,851.07	1,626.10	7,898.82	8,052.52	1.00	0.81	-0.58	
15,649.00	91.47	90.06	7,848.09	1,626.29	7,992.77	8,145.46	0.83	-0.73	0.38	
15,744.00	90.99	91.66	7,846.05	1,624.87	8,087.73	8,239.17	1.76	-0.51	1.68	
15,840.00	88.47	92.73	7,846.51	1,621.19	8,183.65	8,333.49	2.85	-2.62	1.11	
15,934.00	88.57	92.61	7,848.93	1,616.81	8,277.52	8,425.67	0.17	0.11	-0.13	
16,029.00	89.03	92.32	7,850.92	1,612.73	8,372.41	8,518.91	0.57	0.48	-0.31	
16,124.00	87.87	91.92	7,853.49	1,609.22	8,467.31	8,612.24	1.29	-1.22	-0.42	
16,219.00	90.02	90.69	7,855.24	1,607.05	8,562.26	8,705.83	2.61	2.26	-1.29	
16,314.00	91.22	90.13	7,854.21	1,606.37	8,657.25	8,799.67	1.39	1.26	-0.59	
16,410.00	90.93	91.70	7,852.41	1,604.84	8,753.22	8,894.35	1.66	-0.30	1.64	
16,505.00	91.98	91.84	7,850.00	1,601.91	8,848.14	8,987.80	1.12	1.11	0.15	
16,599.00	90.87	93.21	7,847.66	1,597.77	8,942.02	9,080.03	1.88	-1.18	1.46	
16,694.00	88.88	91.83	7,847.87	1,593.59	9,036.92	9,173.26	2.55	-2.09	-1.45	
16,790.00	89.01	91.50	7,849.64	1,590.80	9,132.86	9,267.73	0.37	0.14	-0.34	
16,978.00	90.02	93.51	7,851.23	1,582.58	9,320.66	9,452.25	1.20	0.54	1.07	

Survey Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well PROSPER FARMS 4-65 11-12 1BH
Project:	ARAPAHOE COUNTY	TVD Reference:	KB 25' @ 5709.00usft
Site:	SEC 10-T4S-R65W	MD Reference:	KB 25' @ 5709.00usft
Well:	PROSPER FARMS 4-65 11-12 1BH	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)	
17,073.00	91.16	94.15	7,850.25	1,576.24	9,415.44	9,545.05	1.38	1.20	0.67	
17,169.00	91.09	90.87	7,848.37	1,572.04	9,511.32	9,639.24	3.42	-0.07	-3.42	
17,263.00	91.93	90.41	7,845.89	1,570.99	9,605.28	9,732.01	1.02	0.89	-0.49	
17,358.00	90.25	89.07	7,844.08	1,571.42	9,700.26	9,826.01	2.26	-1.77	-1.41	
17,453.00	90.18	88.20	7,843.72	1,573.68	9,795.23	9,920.27	0.92	-0.07	-0.92	
17,549.00	90.48	88.20	7,843.17	1,576.70	9,891.18	10,015.61	0.31	0.31	0.00	
17,643.00	91.22	87.56	7,841.78	1,580.17	9,985.10	10,109.01	1.04	0.79	-0.68	
17,738.00	90.42	88.04	7,840.42	1,583.82	10,080.02	10,203.42	0.98	-0.84	0.51	
17,833.00	91.52	88.53	7,838.81	1,586.66	10,174.96	10,297.74	1.27	1.16	0.52	
17,928.00	90.31	88.27	7,837.29	1,589.32	10,269.91	10,392.04	1.30	-1.27	-0.27	
18,023.00	90.51	88.01	7,836.61	1,592.40	10,364.86	10,486.39	0.35	0.21	-0.27	
18,119.00	88.95	89.42	7,837.07	1,594.55	10,460.83	10,581.62	2.19	-1.62	1.47	
18,214.00	88.85	89.65	7,838.89	1,595.32	10,555.81	10,675.67	0.26	-0.11	0.24	
18,255.00	88.69	89.55	7,839.77	1,595.61	10,596.80	10,716.25	0.46	-0.39	-0.24	
LAST SURVEY - 18255' MD, 7840' TVD										
18,320.00	88.69	89.55	7,841.26	1,596.12	10,661.78	10,780.59	0.00	0.00	0.00	
EXTRAPOLATION TO TD - 18320' MD, 1152' FNL, 342' FEL SEC 12										

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-PF 4-65 11-12 1B	0.00	0.00	7,845.00	1,578.43	10,674.05	1,689,125.63	3,251,909.45	39.722044°N	104.604448°W	
- actual wellpath misses target center by 21.85usft at 18320.00usft MD (7841.26 TVD, 1596.12 N, 10661.78 E)										
- Point										
LP-PF 4-65 11-12 1BH	0.00	0.00	7,920.00	1,708.08	785.94	1,689,161.93	3,242,020.61	39.722406°N	104.639600°W	
- actual wellpath misses target center by 43.96usft at 8440.01usft MD (7915.69 TVD, 1664.36 N, 787.69 E)										
- Point										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
7,500.00	7,313.15	1,585.15	174.36	KOP - 7500' MD, 7313' TVD	
8,438.25	7,915.61	1,664.30	785.94	~330' X-OVER PNT - 8438.25' MD, 1214' FNL, 330' FWL SEC 11	
8,456.00	7,916.24	1,664.95	803.67	HZ LANDING PNT - 8456' MD, 7916' TVD	
18,255.00	7,839.77	1,595.61	10,596.80	LAST SURVEY - 18255' MD, 7840' TVD	
18,320.00	7,841.26	1,596.12	10,661.78	EXTRAPOLATION TO TD - 18320' MD, 1152' FNL, 342' FEL SEC 12	

Checked By: _____ Approved By: _____ Date: _____