

# **Crestone Peak Resources**

**DJ BASIN**

**S21-T2N-R68W**

**DREAM WEAVER North 3B-21H-N268**

**OH**

**PLAN #3**

## **Anticollision Summary Report**

**22 May, 2018**

# Cathedral Energy Services

## Anticollision Summary Report

<b>Company:</b>	Crestone Peak Resources	<b>Local Co-ordinate Reference:</b>	Well DREAM WEAVER North 3B-21H-N268 - Slot DREAM WEAVER North 3B-21H-N268 SHL
<b>Project:</b>	DJ BASIN	<b>TVD Reference:</b>	23' KB @ 4924.00usft (Original Well Elev)
<b>Reference Site:</b>	S21-T2N-R68W	<b>MD Reference:</b>	23' KB @ 4924.00usft (Original Well Elev)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	DREAM WEAVER North 3B-21H-N268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	PLAN #3	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	PLAN #3		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	MD Interval 100.00usft	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 1,788.73 usft	<b>Error Surface:</b>	Pedal Curve
<b>Warning Levels Evaluated at:</b>	2.00 Sigma	<b>Casing Method:</b>	Not applied

<b>Survey Tool Program</b>	<b>Date</b>	5/22/2018		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	2,000.00	PLAN #3 (OH)	VESSI_GYROFLEX	VESSI Gyroflex Gyro
2,001.00	19,884.15	PLAN #3 (OH)	MWD+HDGM	OWSG MWD + HDGM

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
S21-T2N-R68W						
DREAM WEAVER North 3A-21H-N268 - OH - PLAN #1	200.00	200.00	12.14	11.65	24.764	CC
DREAM WEAVER North 3A-21H-N268 - OH - PLAN #1	19,100.00	19,014.50	282.90	-48.28	0.854	Level 1, SF
DREAM WEAVER North 3A-21H-N268 - OH - PLAN #1	19,200.00	19,106.43	286.21	-48.76	0.854	Level 1, ES
DREAM WEAVER North 3C-21H-N268 - OH - PLAN #2	348.67	348.67	12.14	11.12	11.958	CC
DREAM WEAVER North 3C-21H-N268 - OH - PLAN #2	400.00	399.98	12.21	11.01	10.227	ES
DREAM WEAVER North 3C-21H-N268 - OH - PLAN #2	19,884.15	19,616.71	231.86	29.65	1.147	Level 2, SF
DREAM WEAVER North 3D-21H-N268 - OH - PLAN #1	368.80	368.79	24.27	23.19	22.356	CC
DREAM WEAVER North 3D-21H-N268 - OH - PLAN #1	19,884.15	19,722.49	352.46	-7.50	0.979	Level 1, ES, SF
DREAM WEAVER North 3E-21H-N268 - OH - PLAN #1	384.23	384.22	36.41	35.27	31.935	CC
DREAM WEAVER North 3E-21H-N268 - OH - PLAN #1	400.00	400.02	36.41	35.22	30.459	ES
DREAM WEAVER North 3E-21H-N268 - OH - PLAN #1	19,884.15	19,573.95	694.30	326.98	1.890	SF
DREAM WEAVER North 3F-21H-N268 - OH - PLAN #1	397.28	402.74	48.54	47.35	40.598	CC
DREAM WEAVER North 3F-21H-N268 - OH - PLAN #1	500.00	500.16	48.83	47.29	31.595	ES
DREAM WEAVER North 3F-21H-N268 - OH - PLAN #1	19,884.15	19,793.52	704.45	318.61	1.826	SF
DREAM WEAVER North 3G-21H-N268 - OH - PLAN #1	408.76	408.73	60.68	59.45	49.480	CC
DREAM WEAVER North 3G-21H-N268 - OH - PLAN #1	500.00	500.16	60.88	59.33	39.376	ES
DREAM WEAVER North 3G-21H-N268 - OH - PLAN #1	19,884.15	19,605.24	944.30	561.24	2.465	SF
DREAM WEAVER North 3H-21H-N268 - OH - PLAN #1	419.14	419.11	72.81	71.55	57.660	CC
DREAM WEAVER North 3H-21H-N268 - OH - PLAN #1	500.00	500.16	72.95	71.41	47.177	ES
DREAM WEAVER North 3H-21H-N268 - OH - PLAN #1	19,884.15	19,495.63	1,294.77	914.22	3.402	SF
DREAM WEAVER North 3I-21H-N268 - OH - PLAN #1	200.00	200.00	85.00	84.51	173.355	CC, ES
DREAM WEAVER North 3I-21H-N268 - OH - PLAN #1	19,884.15	19,633.61	1,620.18	1,234.41	4.200	SF
DREAM WEAVER North 3J-21H-N268 - OH - PLAN #1	200.00	200.00	97.14	96.65	198.119	CC, ES
DREAM WEAVER North 3J-21H-N268 - OH - PLAN #1	7,100.00	6,854.74	1,763.15	1,721.62	42.464	SF
DREAM WEAVER North 3K-21H-N268 - OH - PLAN #1	200.00	200.00	109.29	108.80	222.884	CC, ES
DREAM WEAVER North 3K-21H-N268 - OH - PLAN #1	6,600.00	6,335.16	1,760.72	1,723.09	46.794	SF
DREAM WEAVER South 3A-21H-N268 - OH - PLAN #1	685.17	698.63	73.73	71.46	32.448	CC, ES
DREAM WEAVER South 3A-21H-N268 - OH - PLAN #1	7,759.76	8,443.34	241.38	191.88	4.877	SF
DREAM WEAVER South 3B-21H-N268 - OH - PLAN #2	8,000.00	8,286.00	50.57	2.48	1.051	Level 2, ES, SF
DREAM WEAVER South 3B-21H-N268 - OH - PLAN #2	8,200.00	8,087.58	49.91	3.64	1.079	Level 2, CC
DREAM WEAVER South 3C-21H-N268 - OH - PLAN #1	737.08	752.69	102.41	99.94	41.592	CC, ES
DREAM WEAVER South 3C-21H-N268 - OH - PLAN #1	7,497.02	8,453.63	157.80	108.07	3.173	SF
DREAM WEAVER South 3D-21H-N268 - OH - PLAN #1	786.41	801.11	111.20	108.57	42.371	CC, ES
DREAM WEAVER South 3D-21H-N268 - OH - PLAN #1	7,500.00	8,507.11	498.97	449.71	10.130	SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Cathedral Energy Services

## Anticollision Summary Report

<b>Company:</b>	Crestone Peak Resources	<b>Local Co-ordinate Reference:</b>	Well DREAM WEAVER North 3B-21H-N268 - Slot DREAM WEAVER North 3B-21H-N268 SHL
<b>Project:</b>	DJ BASIN	<b>TVD Reference:</b>	23' KB @ 4924.00usft (Original Well Elev)
<b>Reference Site:</b>	S21-T2N-R68W	<b>MD Reference:</b>	23' KB @ 4924.00usft (Original Well Elev)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	DREAM WEAVER North 3B-21H-N268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	PLAN #3	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
S21-T2N-R68W						
DREAM WEAVER South 3E-21H-N268 - OH - PLAN #1	481.98	481.86	169.90	168.42	114.529	CC
DREAM WEAVER South 3E-21H-N268 - OH - PLAN #1	600.00	600.55	170.19	168.29	89.542	ES
DREAM WEAVER South 3E-21H-N268 - OH - PLAN #1	7,349.83	8,464.15	789.76	740.57	16.055	SF
DREAM WEAVER South 3F-21H-N268 - OH - PLAN #1	875.25	908.40	142.55	139.59	48.088	CC, ES
DREAM WEAVER South 3F-21H-N268 - OH - PLAN #1	7,500.00	8,582.60	976.82	928.25	20.113	SF
DREAM WEAVER South 3G-21H-N268 - OH - PLAN #1	987.25	1,001.74	187.37	184.05	56.464	CC, ES
DREAM WEAVER South 3G-21H-N268 - OH - PLAN #1	7,400.00	8,505.05	1,145.27	1,096.48	23.476	SF
DREAM WEAVER South 3H-21H-N268 - OH - PLAN #1	891.21	903.01	196.75	193.79	66.347	CC
DREAM WEAVER South 3H-21H-N268 - OH - PLAN #1	900.00	911.40	196.78	193.78	65.676	ES
DREAM WEAVER South 3H-21H-N268 - OH - PLAN #1	7,200.00	8,506.56	1,431.06	1,382.08	29.220	SF
DREAM WEAVER South 3I-21H-N268 - OH - PLAN #2	783.20	791.56	211.04	208.47	82.148	CC
DREAM WEAVER South 3I-21H-N268 - OH - PLAN #2	800.00	808.00	211.09	208.46	80.313	ES
DREAM WEAVER South 3I-21H-N268 - OH - PLAN #2	1,300.00	1,277.19	280.87	276.48	63.915	SF
DREAM WEAVER South 3J-21H-N268 - OH - PLAN #2	714.63	722.01	222.93	220.60	96.003	CC, ES
DREAM WEAVER South 3J-21H-N268 - OH - PLAN #2	5,500.00	5,176.63	1,773.68	1,747.82	68.574	SF
DREAM WEAVER South 3K-21H-N268 - OH - PLAN #2	641.80	648.23	235.51	233.44	114.075	CC, ES
DREAM WEAVER South 3K-21H-N268 - OH - PLAN #2	5,200.00	4,861.96	1,765.56	1,741.89	74.608	SF

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<b>Project:</b>	DJ BASIN	<b>TVD Reference:</b>	23' KB @ 4924.00usft (Original Well Elev)
<b>Reference Site:</b>	S21-T2N-R68W	<b>MD Reference:</b>	23' KB @ 4924.00usft (Original Well Elev)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	DREAM WEAVER North 3B-21H-N268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	PLAN #3	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
S21-T2N-R68W (OFFSETS)						
ARTHUR STROMQUIST 2 - KMG WELL - GYRO	10,493.11	7,523.57	77.40	16.23	1.265	Level 3, CC, ES, SF
BLISS 41-21 - KPK WELL - SURVEYS						Out of range
BOULDER CREEK 9-4K8 - SNYDER OIL - NO SURVEY						Out of range
BROWN C UNIT 1 - CPR WELL - GYRO						Out of range
CANINO 1 - HUGHES C W-SOTEXCO 1 - NO SURVEY						Out of range
CHAMPLIN 41-4/1-68/ 1 - KMG WELL - NO SURVEYS						Out of range
CHAMPLIN 86 AMOCO B 2 - KPK WELL - NO SURVEY						Out of range
CHAMPLIN 86 AMOCO UT/Q 1 - KMG WELL - GYRO						Out of range
CHAMPLIN 86 AMOCO-B 1 - KPK WELL - NO SURVEY						Out of range
CHAMPLIN 86 AMOCO-B 3 - KPK WELL - NO SURVEY						Out of range
CHAMPLIN 86 AMOCO-B 4 - KPK WELL - NO SURVEY						Out of range
CHAMPLIN 86 AMOCO-B 5 - KPK WELL - NO SURVEY						Out of range
CHAMPLIN 86 AMOCO-B 6 - KPK WELL - NO SURVEY						Out of range
CHAMPLIN 86 AMOCO-F 5 - KPK WELL - NO SURVEY						Out of range
CHAMPLIN 86 AMOCO-O 9 - KMG WELL - GYRO						Out of range
CHAMPLIN32-4/1-68/ 2 - KMG WELL - NO SURVEYS						Out of range
CHMPLN 86 AMOCO-F 1 - KPK WELL - NO SURVEYS						Out of range
COLCLASURE 42-21 - KPK WELL - NO SURVEYS						Out of range
COOLEY 11-16 - KMG WELL - SURVEYS	14,462.87	7,740.52	1,524.98	1,392.67	11.526	CC
COOLEY 11-16 - KMG WELL - SURVEYS	14,500.00	7,741.36	1,525.43	1,392.58	11.482	ES
COOLEY 11-16 - KMG WELL - SURVEYS	14,600.00	7,743.55	1,531.13	1,397.16	11.429	SF
COOLEY 12-16 - KMG WELL - SURVEYS	14,400.00	7,689.57	208.13	76.13	1.577	ES, SF
COOLEY 12-16 - KMG WELL - SURVEYS	14,408.01	7,689.65	207.98	76.38	1.580	CC
COOLEY 13-16 - KMG WELL - SURVEYS	12,938.01	7,598.89	83.73	-18.52	0.819	Level 1, CC, ES, SF
COOLEY 14-16 - KMG WELL - SURVEYS	12,971.96	7,654.92	1,662.16	1,559.02	16.116	CC, ES
COOLEY 14-16 - KMG WELL - SURVEYS	13,000.00	7,654.33	1,662.40	1,559.15	16.100	SF
COOLEY 22-16 - KMG WELL - SURVEYS	15,036.48	7,757.67	832.51	683.94	5.604	CC, ES, SF
COOLEY 23-16 - KMG WELL - SURVEYS						Out of range
COOLEY 35-16 - KMG WELL - SURVEYS	12,529.43	7,612.05	901.41	801.67	9.038	CC, ES, SF
COPPER 31-15 - KMG WELL - SURVEYS						Out of range
CPC 31-4 (1-68) 3 - ANADARKO WELL - NO SURVEYS						Out of range
CPC 42-4 (1-68) 4 - ANADARKO WELL - NO SURVEYS						Out of range
DOMENICO 1 - NOBLE WELL - GYRO						Out of range
DUCKWORTH 31-16 - CPR WELL - GYRO						Out of range
DUCKWORTH 32-16 - CPR WELL - SURVEYS						Out of range
DUCKWORTH 33-16 - CPR WELL - SURVEYS						Out of range
DUCKWORTH 41-16 - CPR WELL - SURVEYS						Out of range
DUCKWORTH 43-16 - CPR WELL - GYRO						Out of range
DUCKWORTH 44-16 - CPR WELL - SURVEYS						Out of range
DUCKWORTH 6-0-16 - CPR WELL - SURVEYS						Out of range
DUCKWORTH B UNIT 1 - CPR WELL - GYRO						Out of range
DUCKWORTH B UNIT 2 - CPR WELL - GYRO						Out of range
EAST RINN 0-4-15 - CPR WELL - SURVEYS						Out of range
EAST RINN 13-15 - CPR WELL - SURVEYS						Out of range
EDITH ANN 1 - CPR WELL - GYRO						Out of range
EDITH ANN 33-21 - CPR WELL - GYRO	0.00	0.00	1,691.63			
EDITH ANN 33-21 - CPR WELL - GYRO	1,000.00	997.07	1,775.77	1,772.44	534.075	SF
EDITH ANN 34-21 - CPR WELL - GYRO	308.31	304.76	1,461.56	1,460.69	1,680.507	CC, ES
EDITH ANN 34-21 - CPR WELL - GYRO	3,000.00	2,975.66	1,779.98	1,769.18	164.925	SF
EDITH ANN 4-21 - CPR WELL - SURVEYS						Out of range
EDITH ANN 44-21 - CPR WELL - GYRO						Out of range

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Cathedral Energy Services

## Anticollision Summary Report

<b>Company:</b>	Crestone Peak Resources	<b>Local Co-ordinate Reference:</b>	Well DREAM WEAVER North 3B-21H-N268 - Slot DREAM WEAVER North 3B-21H-N268 SHL
<b>Project:</b>	DJ BASIN	<b>TVD Reference:</b>	23' KB @ 4924.00usft (Original Well Elev)
<b>Reference Site:</b>	S21-T2N-R68W	<b>MD Reference:</b>	23' KB @ 4924.00usft (Original Well Elev)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	DREAM WEAVER North 3B-21H-N268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	PLAN #3	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
S21-T2N-R68W (OFFSETS)						
EDITH ANN 6-8-21 - CPR WELL - SURVEYS						Out of range
EDITH ANN 8-8-21 - CPR WELL - SURVEYS						Out of range
EDITH ANN-DUCKWORTH 4A-21H-O268 - CPR - FINAL						Out of range
EDITH ANN-DUCKWORTH 4B-21H-O268 - CPR - FINAL						Out of range
EDITH ANN-DUCKWORTH 4C-21H-O268 - CPR - FINA						Out of range
EDITH ANN-DUCKWORTH 4D-21H-O268 - CPR - FINA						Out of range
EDITH ANN-DUCKWORTH 4E-21H-O268 - CPR - FINAL						Out of range
EDITH ANN-DUCKWORTH 4F-21H-O268 - CPR - FINAL						Out of range
EDITH ANN-DUCKWORTH 4G-21H-O268 - CPR - FINA						Out of range
EDITH ANN-DUCKWORTH 4H-21H-O268 - CPR - FINA						Out of range
ERIE CORP 42-4 - KMG WELL - NO SURVEYS						Out of range
EVERIST 12-10 - KMG WELL - SURVEYS						Out of range
EVERIST 12-10X - KMG WELL - NO SURVEYS						Out of range
EVERIST 13-10 - KMG WELL - SURVEYS						Out of range
EVERIST 33-10 - KMG WELL - SURVEYS						Out of range
FAIRVIEW 1 - EXTRACTION WELL - NO SURVEYS						Out of range
FAIRVIEW 3 - EXTRACTION O&G LLC - SURVEYS						Out of range
FAIRVIEW 4 - EXTRACTION O&G LLC - SURVEYS						Out of range
FAIRVIEW 5 - EXTRACTION O&G LLC - SURVEYS						Out of range
FILE 1-17 - CPR WELL - SURVEYS						Out of range
FILE 31-17 - CPR WELL - SURVEYS						Out of range
FILE 32-17 - CPR WELL - SURVEYS						Out of range
FILE 41-17 - CPR WELL - SURVEYS	17,036.20	7,673.35	988.12	819.89	5.874	CC, ES
FILE 41-17 - CPR WELL - SURVEYS	17,100.00	7,675.42	990.17	821.14	5.858	SF
FILE 42-17 - CPR WELL - NO SURVEYS						Out of range
FILE 4-2-17 - CPR WELL - SURVEYS						Out of range
FILE 42-17X - CPR WELL - SURVEYS	15,590.93	7,755.08	991.92	841.99	6.616	CC
FILE 42-17X - CPR WELL - SURVEYS	15,600.00	7,754.93	991.96	841.69	6.601	ES
FILE 42-17X - CPR WELL - SURVEYS	15,700.00	7,753.23	997.90	844.48	6.504	SF
FILE 6-0-17 - CPR WELL - SURVEYS	17,585.14	7,656.32	1,757.49	1,577.26	9.751	CC
FILE 6-0-17 - CPR WELL - SURVEYS	17,600.00	7,655.57	1,757.56	1,577.04	9.736	ES
FILE 6-0-17 - CPR WELL - SURVEYS	17,800.00	7,645.30	1,770.56	1,587.36	9.665	SF
FILE 8-2-17 - CPR WELL - SURVEYS	16,235.86	7,801.46	516.42	360.96	3.322	CC, ES
FILE 8-2-17 - CPR WELL - SURVEYS	16,300.00	7,801.23	520.39	362.76	3.301	SF
FREDERICKS 13-27 - KMG WELL - NO SURVEYS						Out of range
FREDERICKS 13-27X - KMG WELL - SURVEYS						Out of range
GARVER U 34-5JI - KMG WELL - NO SURVEYS						Out of range
HINGLEY 1 - KPK WELL - NO SURVEYS						Out of range
HINGLEY 2 - KPK WELL - NO SUREYS						Out of range
HSR-STROMQUIST 14-21 - KMG WELL - GYRO	1,447.24	1,415.91	114.92	109.98	23.269	CC, ES
HSR-STROMQUIST 14-21 - KMG WELL - GYRO	1,600.00	1,563.73	120.91	115.44	22.072	SF
JACK A MLEYNEK 2 - KPK WELL - NO SURVEYS						Out of range
JACK MLEYNEK 1 - KPK WELL - NO SURVEYS						Out of range
JACK MLEYNEK 3 - KPK WELL - NO SURVEYS						Out of range
JACK MLEYNEK 4 - KPK WELL - NO SURVEYS						Out of range
JACK MLEYNEK 5 - KPK WELL - NO SURVEYS						Out of range
JILLSON 0-6-22 - CPR WELL - SURVEYS						Out of range
JILLSON 1 - KPK WELL - NO SURVEYS						Out of range
JILLSON 11-22 - CPR WELL - GYRO						Out of range
JILLSON 12-22 - CPR WELL - GYRO						Out of range
JILLSON 14-22 - CPR WELL - GYRO						Out of range

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Cathedral Energy Services

## Anticollision Summary Report

<b>Company:</b>	Crestone Peak Resources	<b>Local Co-ordinate Reference:</b>	Well DREAM WEAVER North 3B-21H-N268 - Slot DREAM WEAVER North 3B-21H-N268 SHL
<b>Project:</b>	DJ BASIN	<b>TVD Reference:</b>	23' KB @ 4924.00usft (Original Well Elev)
<b>Reference Site:</b>	S21-T2N-R68W	<b>MD Reference:</b>	23' KB @ 4924.00usft (Original Well Elev)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	DREAM WEAVER North 3B-21H-N268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	PLAN #3	<b>Offset TVD Reference:</b>	Offset Datum

### Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
S21-T2N-R68W (OFFSETS)						
JILLSON 3 - KPK WELL - NO SURVEYS						Out of range
JILLSON 5 - KPK WELL - NO SURVEYS						Out of range
JILLSON A 1 - KPK WELL - NO SURVEYS	300.00	275.99	1,570.84	1,569.94	1,747.568	CC, ES
JILLSON A 1 - KPK WELL - NO SURVEYS	2,000.00	1,940.95	1,788.35	1,781.41	257.558	SF
JILLSON A 2 - KPK WELL - NO SURVEYS	300.00	275.99	1,724.46	1,723.56	1,915.866	CC, ES
JILLSON A 2 - KPK WELL - NO SURVEYS	900.00	871.61	1,786.81	1,783.79	591.719	SF
JILLSON A 3 - KPK WELL - NO SURVEYS						Out of range
JILLSON A 4 - KPK WELL - NO SURVEYS						Out of range
JILLSON-EAST RINN 3A-22H-M268 - CPR WELL - SUR						Out of range
JILLSON-EAST RINN 3B-22H-M268 - CPR WELL - SUR						Out of range
JILLSON-EAST RINN 3C-22H-M268 - CPR WELL - SUR						Out of range
KENNEDY 1 - MACEY & MERSHON WELL - NO SURVE						Out of range
KENNEDY 31-21 - CPR WELL - GYRO						Out of range
KENNEDY 32-21 - CPR WELL - GYRO						Out of range
KENNEDY 41-21 - CPR WELL - GYRO						Out of range
KENNEDY 4-2-21 - CPR WELL - SURVEYS						Out of range
KENNEDY 6-0-21 - CPR WELL - SURVEYS						Out of range
KENNEDY 6-4-21 - CPR WELL - SURVEYS						Out of range
KENNEDY 8-0-21 - CPR WELL - SURVEYS						Out of range
KENNEDY GAS UNIT 1 - CPR WELL - GYRO						Out of range
LONGMONT 8-10K - TOP OPERATING WELL - NO SUR						Out of range
LONGMONT FARMS 1 - KPK WELL - NO SURVEYS						Out of range
LONGMONT FARMS 3 - KPK WELL - NO SURVEYS						Out of range
MAX SERAFINI 1 - KPK WELL - NO SURVEYS						Out of range
MAX SERAFINI C 1 - KPK WELL - NO SURVEYS						Out of range
MILES 1 - KPK WELL - NO SURVEYS						Out of range
MILES 33-3M - KMG WELL - GYRO						Out of range
MILES 4 - KPK WELL - NO SURVEYS						Out of range
MILES 5 - KPK WELL - NO SURVEYS						Out of range
MILES JOSEPHINE 1 - KPK WELL - NO SURVEYS						Out of range
MILES JOSEPHINE 2 - KPK WELL - NO SURVEYS						Out of range
MILES JOSEPHINE B 1 - KPK WELL - NO SURVEYS						Out of range
MILLER 12-27 - CPR WELL - GYRO						Out of range
MILTON NELSON 1 - KPK WELL - NO SURVEYS	300.00	281.00	830.52	829.59	893.131	CC, ES
MILTON NELSON 1 - KPK WELL - NO SURVEYS	5,200.00	4,960.00	1,769.38	1,745.15	73.019	SF
MILTON NELSON UN-C 1 - KPK WELL - NO SURVEYS	5,275.13	5,134.00	87.36	58.93	3.072	CC, ES
MILTON NELSON UN-C 1 - KPK WELL - NO SURVEYS	5,300.04	5,158.21	87.56	58.97	3.063	SF
MILTON NELSON UNIT 1 - KPK WELL - NO SURVEYS	1,196.87	1,168.40	539.28	534.73	118.335	CC
MILTON NELSON UNIT 1 - KPK WELL - NO SURVEYS	1,200.00	1,171.45	539.28	534.71	118.003	ES
MILTON NELSON UNIT 1 - KPK WELL - NO SURVEYS	5,100.00	4,961.80	1,065.56	1,041.00	43.382	SF
MLEYNEK 28-10M - KMG WELL - GYRO						Out of range
MLEYNEK U 28-10JI - KMG WELL - GYRO						Out of range
MLEYNEK U 28-15JI - KMG WELL - GYRO						Out of range
MORGAN-A 4 - KPK WELL - NO SURVEYS						Out of range
NELSON 42-33 /2-68/ 2 - ANADARKO WELL - NO SURV						Out of range
NELSON DUANE E 41-33 (2-68) 1 - CHAMPLIN PETRO						Out of range
NELSON DUANE E 41-33 (2-68) 1-X - KMG WELL - NO						Out of range
NELSON E UNIT 2 - CPR WELL - GYRO						Out of range
NELSON MILTON H 'D' 1 - KMG WELL - GYRO						Out of range
NELSON MILTON H 'M' 1 - KMG WELL - GYRO						Out of range
NELSON MILTON-F 1 - KPK WELL - NO SURVEYS						Out of range

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



# Cathedral Energy Services

## Anticollision Summary Report

<b>Company:</b>	Crestone Peak Resources	<b>Local Co-ordinate Reference:</b>	Well DREAM WEAVER North 3B-21H-N268 - Slot DREAM WEAVER North 3B-21H-N268 SHL
<b>Project:</b>	DJ BASIN	<b>TVD Reference:</b>	23' KB @ 4924.00usft (Original Well Elev)
<b>Reference Site:</b>	S21-T2N-R68W	<b>MD Reference:</b>	23' KB @ 4924.00usft (Original Well Elev)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	DREAM WEAVER North 3B-21H-N268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	PLAN #3	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
S21-T2N-R68W (OFFSETS)						
NORTH RINN 0-4-9 - CPR WELL - SURVEYS	19,884.15	7,847.34	574.93	414.94	3.593	CC, ES, SF
NORTH RINN 0-6-9 - CPR WELL - SURVEYS	19,037.32	7,626.55	459.87	263.46	2.341	CC, ES, SF
NORTH RINN 0-8-9 - CPR WELL - SURVEYS	17,723.26	7,759.65	437.16	252.17	2.363	CC, ES, SF
NORTH RINN 13-9 - CPR WELL - SURVEYS	19,700.00	7,605.13	217.18	5.25	1.025	Level 2, ES, SF
NORTH RINN 13-9 - CPR WELL - SURVEYS	19,705.75	7,605.13	217.10	5.41	1.026	Level 2, CC
NORTH RINN 14-9 - CPR WELL - SURVEYS	18,309.76	7,562.56	170.89	-15.00	0.919	Level 1, CC, ES, SF
NORTH RINN 24-9 - CPR WELL - SURVEYS	18,438.20	7,608.57	1,522.03	1,334.52	8.117	CC, ES
NORTH RINN 24-9 - CPR WELL - SURVEYS	18,500.00	7,609.10	1,523.28	1,335.57	8.115	SF
NORTH RINN 2-4-9 - CPR WELL - SURVEYS	19,884.15	7,664.47	970.40	764.14	4.705	CC, ES, SF
NORTH RINN 2-6-9 - CPR WELL - SURVEYS	18,963.80	7,499.05	587.30	393.91	3.037	CC, ES, SF
OSKARSON 1 - HRM RES II LLC - NO SURVEYS						Out of range
OSKARSON 2 - ENERVEST OP - NO SURVEYS						Out of range
OSKARSON 24-33 - CPR WELL - GYRO						Out of range
OSKARSON 2-8-33 - CPR WELL - SURVEYS						Out of range
OSKARSON 3 - HRM RES II LLC - NO SURVEYS						Out of range
OSKARSON-E 1 - CPR WELL - GYRO						Out of range
OSKARSON-E 2 - CPR WELL - NO SURVEYS						Out of range
RASMUSSEN 3 - PETERSON ENERGY - GYRO						Out of range
RASMUSSEN 1 - PETERSON - GYRO	4,714.90	4,650.62	1,594.71	1,572.41	71.510	CC
RASMUSSEN 1 - PETERSON - GYRO	4,800.00	4,727.57	1,594.95	1,572.10	69.781	ES
RASMUSSEN 1 - PETERSON - GYRO	5,300.00	4,967.00	1,621.54	1,596.04	63.578	SF
RASMUSSEN 11-28 - CPR WELL - SURVEYS	7,000.00	7,166.28	888.90	841.83	18.883	CC, ES
RASMUSSEN 11-28 - CPR WELL - SURVEYS	7,100.00	7,264.76	897.24	849.70	18.874	SF
RASMUSSEN 12-28 - CPR WELL - SURVEYS						Out of range
RASMUSSEN 2 - PETERSON ENERGY - NO SURVEYS						Out of range
RASMUSSEN 21-28 - CPR WELL - GYRO	5,071.93	4,960.99	1,483.09	1,458.49	60.285	CC
RASMUSSEN 21-28 - CPR WELL - GYRO	5,300.00	5,182.77	1,483.98	1,457.85	56.783	ES
RASMUSSEN 21-28 - CPR WELL - GYRO	7,100.00	6,944.22	1,559.95	1,522.21	41.330	SF
RASMUSSEN 22-28 - CPR WELL - GYRO						Out of range
RASMUSSEN 2-4-28 - CPR WELL - SURVEYS						Out of range
RASMUSSEN 31-28 - CPR WELL - GYRO						Out of range
RASMUSSEN 32-28 32-28 - CPR WELL - GYRO						Out of range
RASMUSSEN 4-0-28 - CPR WELL - SURVEYS	4,443.88	4,910.23	1,755.95	1,711.28	39.309	CC
RASMUSSEN 4-0-28 - CPR WELL - SURVEYS	4,500.00	4,951.41	1,756.31	1,711.01	38.771	ES
RASMUSSEN 4-0-28 - CPR WELL - SURVEYS	5,000.00	5,380.82	1,783.81	1,733.43	35.408	SF
RASMUSSEN 41-28 - CPR WELL - GYRO						Out of range
RASMUSSEN 42-28 - CPR WELL - SURVEYS						Out of range
RASMUSSEN 4-2-28 - CPR WELL - SURVEYS						Out of range
RASMUSSEN 4-4-28 - CPR WELL - SURVEYS						Out of range
RASMUSSEN 44-29 - KPK WELL - NO SURVEYS						Out of range
RASMUSSEN 4-A - PETERSON ENERGY - GYRO	5,298.27	4,960.00	1,233.20	1,209.34	51.690	CC
RASMUSSEN 4-A - PETERSON ENERGY - GYRO	5,300.00	4,960.00	1,233.20	1,209.33	51.675	ES
RASMUSSEN 4-A - PETERSON ENERGY - GYRO	5,500.00	4,960.00	1,249.59	1,225.11	51.054	SF
RASMUSSEN C" 2" - CPR WELL - GYRO						Out of range
RASMUSSEN-C-UNIT 1 - CPR WELL - GYRO	7,000.00	6,808.72	1,482.61	1,445.94	40.438	CC, ES
RASMUSSEN-C-UNIT 1 - CPR WELL - GYRO	7,100.00	6,909.55	1,492.68	1,455.38	40.020	SF
RODGERS 1 - KPK WELL - NO SURVEYS						Out of range
SAUNDERS TRUST 8-2K8 - EXTRACTION WELL - NO						Out of range
SCHLAGEL 2 - EXTRACTION WELL - NO SURVEYS						Out of range
SERAFINI E MAX GU 1 - KMG WELL - GYRO	13,357.25	7,522.12	636.61	532.98	6.143	CC, ES, SF
SERAFINI-B 2 - KPK WELL - NO SURVEYS						Out of range

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Cathedral Energy Services

## Anticollision Summary Report

<b>Company:</b>	Crestone Peak Resources	<b>Local Co-ordinate Reference:</b>	Well DREAM WEAVER North 3B-21H-N268 - Slot DREAM WEAVER North 3B-21H-N268 SHL
<b>Project:</b>	DJ BASIN	<b>TVD Reference:</b>	23' KB @ 4924.00usft (Original Well Elev)
<b>Reference Site:</b>	S21-T2N-R68W	<b>MD Reference:</b>	23' KB @ 4924.00usft (Original Well Elev)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	DREAM WEAVER North 3B-21H-N268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	PLAN #3	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
S21-T2N-R68W (OFFSETS)						
SHAW 1 - KPK WELL - NO SURVEYS						Out of range
SHAW 15-20 - KPK - SURVEYS						Out of range
SHAW 16-20 - KPK - SURVEYS	5,307.01	5,070.00	1,565.82	1,536.41	53.230	CC, ES
SHAW 16-20 - KPK - SURVEYS	5,400.00	5,070.00	1,568.58	1,538.98	52.991	SF
STROMQUIST 1 - KPK WELL - NO SURVEYS						Out of range
STROMQUIST 11-21 - KMG WELL - GYRO	340.50	334.81	853.43	852.45	865.283	CC, ES
STROMQUIST 11-21 - KMG WELL - GYRO	9,500.00	7,518.77	1,706.12	1,659.88	36.902	SF
STROMQUIST 13-21 - KMG WELL - GYRO	5,137.88	5,023.18	192.71	167.73	7.714	CC
STROMQUIST 13-21 - KMG WELL - GYRO	5,200.00	5,084.84	193.04	167.67	7.606	ES
STROMQUIST 13-21 - KMG WELL - GYRO	5,400.00	5,284.68	198.14	171.71	7.498	SF
STROMQUIST 22-21 - KMG WELL - SURVEYS	385.70	388.84	900.31	899.29	884.639	CC
STROMQUIST 22-21 - KMG WELL - SURVEYS	9,655.21	7,608.20	900.61	844.34	16.003	ES, SF
STROMQUIST 23-21 - KMG WELL - SURVEYS	991.15	980.11	566.22	562.42	149.177	CC
STROMQUIST 23-21 - KMG WELL - SURVEYS	1,000.00	988.62	566.24	562.41	147.739	ES
STROMQUIST 23-21 - KMG WELL - SURVEYS	5,900.00	5,776.51	1,774.56	1,748.86	69.035	SF
STROMQUIST 34-21 - KMG WELL - SURVEYS	7,236.07	7,138.27	513.18	476.84	14.121	CC, ES
STROMQUIST 34-21 - KMG WELL - SURVEYS	7,300.00	7,198.91	515.24	478.60	14.065	SF
STROMQUIST 35-21 - KMG WELL - SURVEYS	1,095.66	1,075.48	575.96	571.75	136.822	CC
STROMQUIST 35-21 - KMG WELL - SURVEYS	1,100.00	1,079.16	575.96	571.74	136.332	ES
STROMQUIST 35-21 - KMG WELL - SURVEYS	6,000.00	5,936.54	731.42	692.15	18.624	SF
TRAVELERS 28-11M - KMG WELL - GYRO						Out of range
TRAVELERS U 28-13DI - KMG WELL - GYRO						Out of range
UPRC 33-1M - KMG WELL - GYRO						Out of range
UPRR 43 PAN AM-B 7 - KPK WELL - NO SURVEYS						Out of range
WESTERN 3-21A - KMG WELL - GYRO	11,679.26	7,516.98	1,515.62	1,437.32	19.356	CC
WESTERN 3-21A - KMG WELL - GYRO	11,700.00	7,517.05	1,515.76	1,437.28	19.314	ES
WESTERN 3-21A - KMG WELL - GYRO	11,800.00	7,517.37	1,520.42	1,441.23	19.199	SF
WILDFLOWER 12-27 - KMG WELL - SURVEYS						Out of range
WILDFLOWER 33-27 - KMG WELL - SURVEYS						Out of range
WOOLEY UNIT 1 - KPK WELL - NO SURVEYS						Out of range



# Cathedral Energy Services

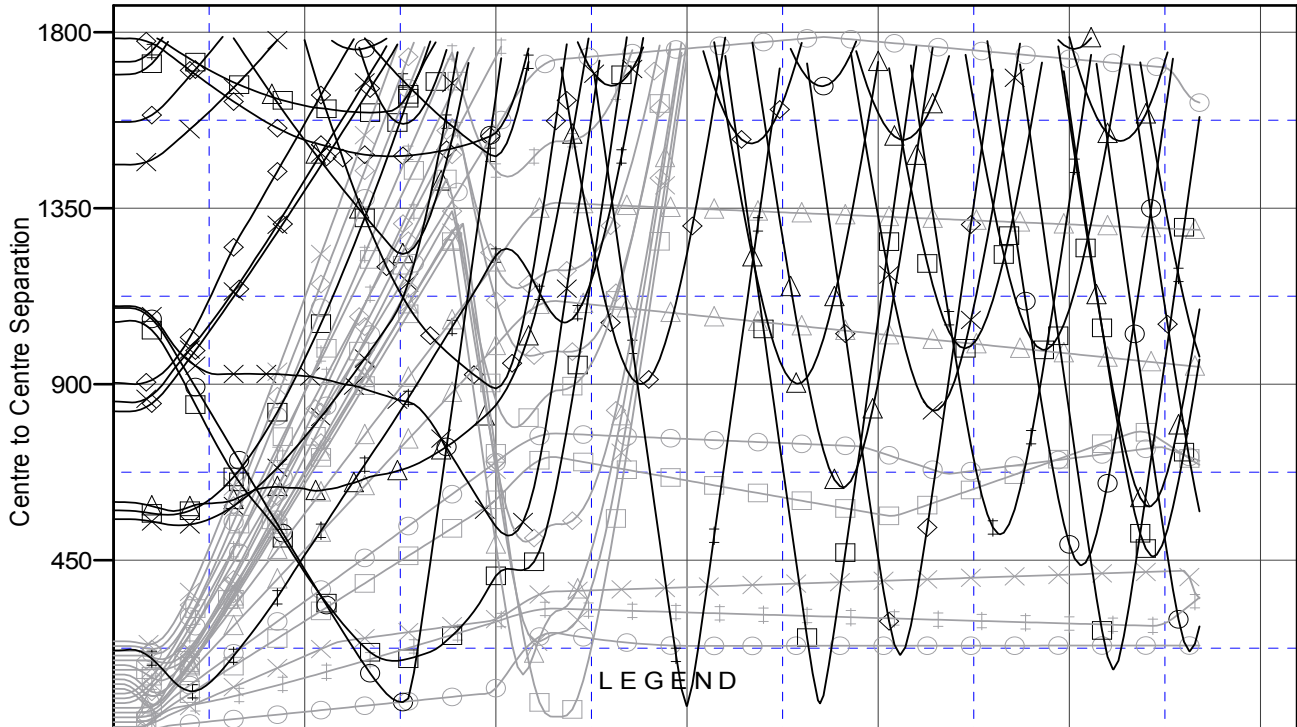
## Anticollision Summary Report

<b>Company:</b>	Crestone Peak Resources	<b>Local Co-ordinate Reference:</b>	Well DREAM WEAVER North 3B-21H-N268 - Slot DREAM WEAVER North 3B-21H-N268 SHL
<b>Project:</b>	DJ BASIN	<b>TVD Reference:</b>	23' KB @ 4924.00usft (Original Well Elev)
<b>Reference Site:</b>	S21-T2N-R68W	<b>MD Reference:</b>	23' KB @ 4924.00usft (Original Well Elev)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	DREAM WEAVER North 3B-21H-N268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	PLAN #3	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to 23' KB @ 4924.00usft ( Original Well E  
Offset Depths are relative to Offset Datum  
Central Meridian is -105.500000

Coordinates are relative to: DREAM WEAVER North 3B-21H-N268 - Slot DREAM  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 0.32°

### Ladder Plot



WEAVER North 3A-21H-N268, OH, PLAN#1 V0	ARTHUR STROMQUIST 2, KMG WELL, GYRO V0	NORTH RINN 0-8-9, CPR WELL, SURVEY
WEAVER North 3C-21H-N268, OH, PLAN#2 V0	COOLEY 11-16, KMG WELL, SURVEYS V0	NORTH RINN 13-9, CPR WELL, SURVEY
WEAVER North 3D-21H-N268, OH, PLAN#1 V0	COOLEY 12-16, KMG WELL, SURVEYS V0	NORTH RINN 14-9, CPR WELL, SURVEY
WEAVER North 3E-21H-N268, OH, PLAN#1 V0	COOLEY 13-16, KMG WELL, SURVEYS V0	NORTH RINN 24-9, CPR WELL, SURVEY
WEAVER North 3F-21H-N268, OH, PLAN#1 V0	COOLEY 14-16, KMG WELL, SURVEYS V0	NORTH RINN 2-4-9, CPR WELL, SURVEY
WEAVER North 3G-21H-N268, OH, PLAN#1 V0	COOLEY 22-16, KMG WELL, SURVEYS V0	NORTH RINN 2-6-9, CPR WELL, SURVEY
WEAVER North 3H-21H-N268, OH, PLAN#1 V0	COOLEY 35-16, KMG WELL, SURVEYS V0	RASMUSSEN 1, PETERSON, GYRO V0
WEAVER North 3I-21H-N268, OH, PLAN#1 V0	EDITH ANN 33-21, CPR WELL, GYRO V0	RASMUSSEN 11-28, CPR WELL, GYRO V0
WEAVER North 3J-21H-N268, OH, PLAN#1 V0	EDITH ANN 34-21, CPR WELL, GYRO V0	RASMUSSEN 21-28, CPR WELL, GYRO V0
WEAVER North 3K-21H-N268, OH, PLAN#1 V0	FILE 41-17, CPR WELL, SURVEYS V0	RASMUSSEN 4-0-28, CPR WELL, SURVEY
WEAVER South 3A-21H-N268, OH, PLAN#1 V0	FILE 42-17X, CPR WELL, SURVEYS V0	RASMUSSEN 4-A, PETERSON ENERGY
WEAVER South 3B-21H-N268, OH, PLAN#2 V0	FILE 6-0-17, CPR WELL, SURVEYS V0	RASMUSSEN-C-UNIT 1, CPR WELL, GYRO V0
WEAVER South 3C-21H-N268, OH, PLAN#1 V0	FILE 8-2-17, CPR WELL, SURVEYS V0	SERAFINIE MAX GU 1, KMG WELL, GYRO V0
WEAVER South 3D-21H-N268, OH, PLAN#1 V0	HSR-STROMQUIST 14-21, KMG WELL, GYRO V0	SHAW 16-20, KPK, SURVEYS V0
WEAVER South 3E-21H-N268, OH, PLAN#1 V0	JILLSON A 1, KPK WELL, NO SURVEYS V0	STROMQUIST 11-21, KMG WELL, GYRO V0

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

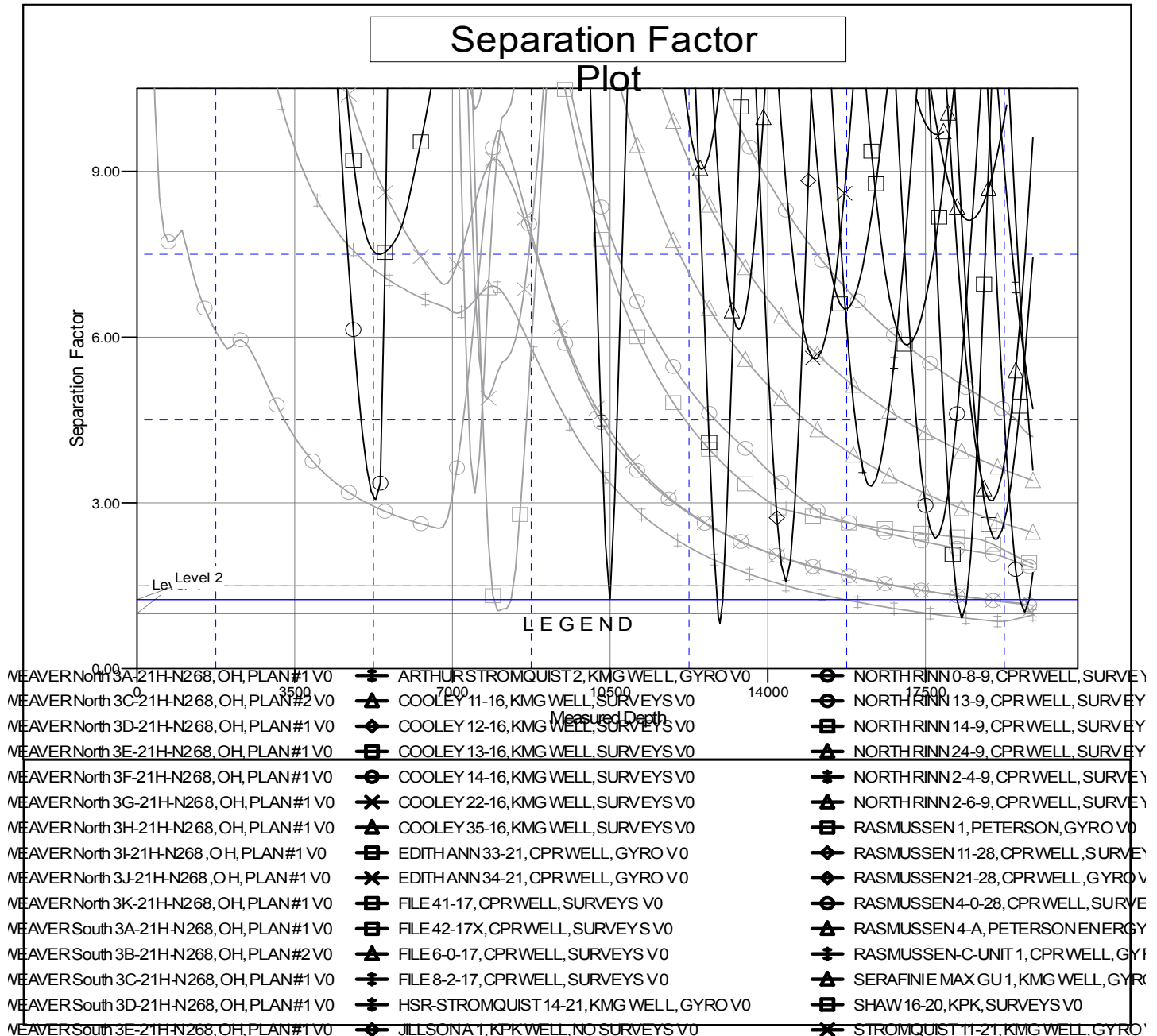
# Cathedral Energy Services

## Anticollision Summary Report

<b>Company:</b>	Crestone Peak Resources	<b>Local Co-ordinate Reference:</b>	Well DREAM WEAVER North 3B-21H-N268 - Slot DREAM WEAVER North 3B-21H-N268 SHL
<b>Project:</b>	DJ BASIN	<b>TVD Reference:</b>	23' KB @ 4924.00usft (Original Well Elev)
<b>Reference Site:</b>	S21-T2N-R68W	<b>MD Reference:</b>	23' KB @ 4924.00usft (Original Well Elev)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	DREAM WEAVER North 3B-21H-N268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	PLAN #3	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to 23' KB @ 4924.00usft (Original Well E  
Offset Depths are relative to Offset Datum  
Central Meridian is -105.500000

Coordinates are relative to: DREAM WEAVER North 3B-21H-N268 - Slot DREAM  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 0.32°



CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation