

Crestone Peak Resources

DJ BASIN

S21-T2N-R68W

DREAM WEAVER South 3J-21H-N268

OH

PLAN #2

Anticollision Summary Report

19 April, 2018

Cathedral Energy Services

Anticollision Summary Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well DREAM WEAVER South 3J-21H-N268 - Slot DREAM WEAVER South 3J-21H-N268 SHL
Project:	DJ BASIN	TVD Reference:	23' KB @ 4924.00usft
Reference Site:	S21-T2N-R68W	MD Reference:	23' KB @ 4924.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	DREAM WEAVER South 3J-21H-N268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Reference	PLAN #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 2,237.05 usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	4/19/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	2,000.00	PLAN #2 (OH)	VESSI_GYROFLEX	VESSI Gyroflex Gyro
2,001.00	19,242.38	PLAN #2 (OH)	MWD+HDGM	OWSG MWD + HDGM

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 North 3A-21H-N268 - OH - PLAN #1	200.00	200.00	242.86	242.37	495.298	CC, ES
DREAM WEAVER North 3A-21H-N268 - OH - PLAN #1	6,200.00	5,720.30	2,214.14	2,183.37	71.974	SF
DREAM WEAVER North 3B-21H-N268 - OH - PLAN #1	707.04	699.37	223.98	221.71	98.718	CC, ES
DREAM WEAVER North 3B-21H-N268 - OH - PLAN #1	9,500.00	7,163.95	2,218.53	2,161.34	38.792	SF
DREAM WEAVER North 3C-21H-N268 - OH - PLAN #1	782.01	775.13	207.13	204.60	81.805	CC
DREAM WEAVER North 3C-21H-N268 - OH - PLAN #1	800.00	792.08	207.14	204.55	79.843	ES
DREAM WEAVER North 3C-21H-N268 - OH - PLAN #1	9,400.00	7,050.00	2,038.64	1,984.97	37.988	SF
DREAM WEAVER North 3D-21H-N268 - OH - PLAN #1	863.09	857.59	189.91	187.09	67.373	CC, ES
DREAM WEAVER North 3D-21H-N268 - OH - PLAN #1	9,200.00	7,150.00	1,784.77	1,733.01	34.477	SF
DREAM WEAVER North 3E-21H-N268 - OH - PLAN #1	927.94	923.23	175.00	171.95	57.420	CC, ES
DREAM WEAVER North 3E-21H-N268 - OH - PLAN #1	7,300.00	8,403.08	1,338.73	1,292.16	28.747	SF
DREAM WEAVER North 3F-21H-N268 - OH - PLAN #1	965.57	960.87	162.53	159.35	51.112	CC, ES
DREAM WEAVER North 3F-21H-N268 - OH - PLAN #1	8,800.00	7,379.25	1,273.88	1,225.75	26.467	SF
DREAM WEAVER North 3G-21H-N268 - OH - PLAN #1	1,049.02	1,045.80	148.89	145.41	42.842	CC, ES
DREAM WEAVER North 3G-21H-N268 - OH - PLAN #1	7,400.00	8,416.59	911.09	864.60	19.597	SF
DREAM WEAVER North 3H-21H-N268 - OH - PLAN #1	1,096.76	1,094.10	138.30	134.66	37.955	CC
DREAM WEAVER North 3H-21H-N268 - OH - PLAN #1	1,100.00	1,097.32	138.31	134.65	37.838	ES
DREAM WEAVER North 3H-21H-N268 - OH - PLAN #1	7,362.85	8,346.22	658.66	611.92	14.091	SF
DREAM WEAVER North 3I-21H-N268 - OH - PLAN #1	924.38	929.51	80.73	77.65	26.276	CC, ES
DREAM WEAVER North 3I-21H-N268 - OH - PLAN #1	7,525.88	8,328.98	277.24	231.14	6.013	SF
DREAM WEAVER North 3J-21H-N268 - OH - PLAN #1	902.50	908.22	71.04	68.05	23.702	CC
DREAM WEAVER North 3J-21H-N268 - OH - PLAN #1	7,900.00	8,133.24	89.03	44.23	1.987	ES, SF
DREAM WEAVER North 3K-21H-N268 - OH - PLAN #1	7,435.04	8,315.74	56.20	9.78	1.211	Level 2, CC, ES, SF
DREAM WEAVER South 3A-21H-N268 - OH - PLAN #1	103.36	103.36	109.29	109.14	737.479	CC, ES
DREAM WEAVER South 3A-21H-N268 - OH - PLAN #1	19,243.37	19,287.83	2,153.99	1,782.15	5.793	SF
DREAM WEAVER South 3B-21H-N268 - OH - PLAN #1	103.36	103.36	97.14	96.99	655.481	CC, ES
DREAM WEAVER South 3B-21H-N268 - OH - PLAN #1	19,243.37	19,370.45	1,729.65	1,355.98	4.629	SF
DREAM WEAVER South 3C-21H-N268 - OH - PLAN #1	103.41	103.41	85.00	84.85	572.888	CC, ES
DREAM WEAVER South 3C-21H-N268 - OH - PLAN #1	19,243.37	19,090.64	1,854.07	1,485.49	5.030	SF
DREAM WEAVER South 3D-21H-N268 - OH - PLAN #1	200.00	200.00	72.86	72.37	148.590	CC, ES
DREAM WEAVER South 3D-21H-N268 - OH - PLAN #1	18,900.00	18,700.00	1,412.81	1,055.28	3.952	SF
DREAM WEAVER South 3E-21H-N268 - OH - PLAN #1	702.34	701.02	53.76	51.51	23.886	CC, ES
DREAM WEAVER South 3E-21H-N268 - OH - PLAN #1	19,243.37	19,013.28	1,192.39	827.11	3.264	SF
DREAM WEAVER South 3F-21H-N268 - OH - PLAN #1	200.00	200.00	48.57	48.08	99.059	CC, ES

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

Cathedral Energy Services

Anticollision Summary Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well DREAM WEAVER South 3J-21H-N268 - Slot DREAM WEAVER South 3J-21H-N268 SHL
Project:	DJ BASIN	TVD Reference:	23' KB @ 4924.00usft
Reference Site:	S21-T2N-R68W	MD Reference:	23' KB @ 4924.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	DREAM WEAVER South 3J-21H-N268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	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 3F-21H-N268 - OH - PLAN #1	19,243.37	19,230.92	969.75	598.31	2.611	SF
DREAM WEAVER South 3G-21H-N268 - OH - PLAN #1	610.58	609.98	32.26	30.33	16.743	CC, ES
DREAM WEAVER South 3G-21H-N268 - OH - PLAN #1	19,243.37	19,092.32	796.67	429.90	2.172	SF
DREAM WEAVER South 3H-21H-N268 - OH - PLAN #1	535.55	535.14	21.69	20.02	13.028	CC, ES
DREAM WEAVER South 3H-21H-N268 - OH - PLAN #1	19,243.37	19,012.19	568.87	222.73	1.643	SF
DREAM WEAVER South 3I-21H-N268 - OH - PLAN #2	476.58	476.41	10.97	9.51	7.526	CC
DREAM WEAVER South 3I-21H-N268 - OH - PLAN #2	19,243.37	19,096.57	222.36	-89.82	0.712	Level 1, ES, SF
DREAM WEAVER South 3K-21H-N268 - OH - PLAN #2	356.43	356.54	11.39	10.35	10.984	CC
DREAM WEAVER South 3K-21H-N268 - OH - PLAN #2	400.00	400.08	11.53	10.34	9.710	ES
DREAM WEAVER South 3K-21H-N268 - OH - PLAN #2	19,243.37	19,076.22	275.23	16.56	1.064	Level 2, SF

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Project:	DJ BASIN	TVD Reference:	23' KB @ 4924.00usft
Reference Site:	S21-T2N-R68W	MD Reference:	23' KB @ 4924.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	DREAM WEAVER South 3J-21H-N268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Summary						
Offset Well - Wellbore - Design						
S32-T2N-R68W						
Anderson 22-32 - KPK WELL - NO SURVEYS						Out of range
Anderson 32-32 - CPR WELL - SURVEYS						Out of range
Anderson 41-32 - CPR - GYRO						Out of range
Anderson 4-2-32 - CPR WELL - SURVEYS						Out of range
Anderson 6-4-32 - CPR WELL - SURVEYS						Out of range
Anderson Trust 1 - KPK - NO SURVEYS						Out of range
Anderson Trust 1 A - CPR WELL - GYRO						Out of range
Anderson Trust 2-A - CPR WELL - NO SURVEYS						Out of range
Anderson Trust 32-2 - CPR WELL - GYRO						Out of range
Anderson Trust 32-8 - CPR WELL - GYRO						Out of range
Anderson Trust C 1 - CPR WELL - SURVEYS						Out of range
Anderson Trust C Unit 2 - CPR WELL - GYRO						Out of range
Brown 22-5 - CPR WELL - GYRO						Out of range
Brown 31-5 - CPR WELL - SURVEYS						Out of range
Brown 41-5 - CPR WELL - SURVEYS						Out of range
Brown 5-3 - CPR WELL - GYRO						Out of range
Brown 5-5 - CPR WELL - GYRO						Out of range
Brown C Unit 1 - CPR WELL - GYRO						Out of range
Brown C Unit 2 - CPR WELL - GYRO						Out of range
Bryant 10-30 - KMG WELL - SURVEYS						Out of range
Bryant 16-30 - KMG WELL - SURVEYS						Out of range
Bryant 20-30 - KMG WELL - SURVEYS						Out of range
Bryant 23-30 - KMG WELL - SURVEYS						Out of range
Bryant 24-30 - KMG WELL - SURVEYS						Out of range
Bryant 33-29 - KMG WELL - SURVEYS						Out of range
Bryant 36-30 - KMG WELL - SURVEYS						Out of range
Bryant 8-30 - KMG WELL - SURVEYS						Out of range
Bryant Federal 37-30 - KMG WELL - SURVEYS						Out of range
Bulthaup 1-6 - KMG WELL - GYRO						Out of range
Bulthaup 16-6 - KMG WELL - SURVEYS						Out of range
Bulthaup 17-6 - KMG WELL - SURVEYS						Out of range
Bulthaup 24-6 - KMG WELL - SURVEYS						Out of range
Bulthaup 27-6 - KMG WELL - SURVEYS						Out of range
Bulthaup 39-6 - KMG WELL - SURVEYS						Out of range
Bulthaup 40-6 - KMG WELL - SURVEYS						Out of range
Bulthaup 8-6 - KMG WELL - GYRO						Out of range
Bulthaup 9-6 - KMG WELL - SURVEYS						Out of range
Canino 1-X - HUGHES CW - NO SURVEYS						Out of range
Champlin 86 Amoco F 6 - KPK - NO SURVEYS						Out of range
Champlin 86 N 1 - KMG WELL - GYRO						Out of range
Champlin Amoco 86 F 7 - KPK WELL - SURVEYS						Out of range
Cinque 1 - FOUNDATION WELL - NO SURVEYS						Out of range
Cinque 2 - FOUNDATION WELL - NO SURVEYS						Out of range
Cinque 4 - FOUNDATION WELL - NO SURVEYS						Out of range
FILE 3A-32H-K268 - OH - FINAL						Out of range
FILE 3B-32H-K268 - OH - FINAL						Out of range
FILE 3C-32H-K268 - OH - FINAL						Out of range
FILE 3D-32H-K268 - OH - FINAL						Out of range
FILE 3E-32H-K268 - OH - FINAL						Out of range
FILE 3F-32H-K268 - OH - FINAL						Out of range
FILE 3G-32H-K268 - OH - FINAL						Out of range

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

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Project:	DJ BASIN	TVD Reference:	23' KB @ 4924.00usft
Reference Site:	S21-T2N-R68W	MD Reference:	23' KB @ 4924.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	DREAM WEAVER South 3J-21H-N268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Summary						
Offset Well - Wellbore - Design						
S32-T2N-R68W						
FILE 3H-32H-K268 - OH - FINAL						Out of range
FILE 3Q-32H-K268 - OH - FINAL						Out of range
FILE 3R-32H-K268 - OH - FINAL						Out of range
FILE 3S-32H-K268 - OH - FINAL						Out of range
FILE 3T-32H-K268 - OH - FINAL						Out of range
FILE FED 3I-32H-K268 - OH - FINAL						Out of range
FILE FED 3J-32H-K268 - OH - FINAL						Out of range
FILE FED 3K-32H-K268 - OH - FINAL						Out of range
FILE FED 3K-32H-K268 - OH - PLAN #4						Out of range
FILE FED 3L-32H-K268 - OH - FINAL						Out of range
FILE FED 3M-32H-K268 - OH - FINAL						Out of range
FILE FED 3N-32H-K268 - OH - FINAL						Out of range
FILE FED 3O-32H-K268 - OH - FINAL						Out of range
FILE FED 3P-32H-K268 - OH - FINAL						Out of range
Foster 33-5 - CPR WELL - SURVEYS						Out of range
Foster 43-5 - CPR WELL - SURVEYS						Out of range
Foster 4-5 - CPR WELL - SURVEYS						Out of range
Foster 4-6-5 - CPR WELL - SURVEYS						Out of range
Foster 6-4-5 - CPR - SURVEYS						Out of range
Foster 6-4-5X - CPR WELL - SURVEYS						Out of range
Foster 6-8-5 - CPR WELL - SURVEYS						Out of range
Foster 8-8-5 - CPR WELL - SURVEYS						Out of range
Foster E Unit 1 - CPR - GYRO						Out of range
Gene 11-5 - KERR-MCGEE - GYRO						Out of range
Hankins 1 - KPK WELL - NO SURVEYS						Out of range
Hauck 17-29 - KMG WELL - SURVEYS						Out of range
Hauck 24-29 - KMG WELL - SURVEYS						Out of range
Hauck 7-29 - KMG WELL - SURVEYS						Out of range
HSR-Bryant 9-30A - KMG WELL - GYRO						Out of range
HSR-Williams 10-20 - KMG WELL - GYRO						Out of range
HWY52 4A-32H-O268 - OH - FINAL						Out of range
HWY52 4B-32H-O268 - OH - FINAL						Out of range
HWY52 4C-32H-O268 - OH - FINAL						Out of range
HWY52 4D-32H-O268 - OH - FINAL						Out of range
HWY52 4E-32H-O268 - OH - FINAL						Out of range
HWY52 4F-32H-O268 - OH - FINAL						Out of range
HWY52 4G-32H-O268 - OH - FINAL						Out of range
HWY52 4H-32H-O268 - OH - FINAL						Out of range
HWY52 4I-32H-O268 - OH - FINAL						Out of range
HWY52 4J-32H-O268 - OH - FINAL						Out of range
HWY52 4K-32H-O268 - OH - FINAL						Out of range
HWY52 4L-32H-O268 - OH - FINAL						Out of range
HWY52 4M-32H-O268 - OH - FINAL						Out of range
HWY52 4N-32H-O268 - OH - FINAL						Out of range
HWY52 4O-32H-O268 - OH - FINAL						Out of range
HWY52 4P-32H-O268 - OH - FINAL						Out of range
HWY52 4Q-32H-O268 - OH - FINAL						Out of range
HWY52 4R-32H-O268 - OH - FINAL						Out of range
HWY52 4S-32H-O268 - OH - FINAL						Out of range
HWY52 4T-32H-O268 - OH - FINAL						Out of range
HWY52 4U-32H-O268 - OH - FINAL						Out of range

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

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Anticollision Summary Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well DREAM WEAVER South 3J-21H-N268 - Slot DREAM WEAVER South 3J-21H-N268 SHL
Project:	DJ BASIN	TVD Reference:	23' KB @ 4924.00usft
Reference Site:	S21-T2N-R68W	MD Reference:	23' KB @ 4924.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	DREAM WEAVER South 3J-21H-N268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Summary						
Offset Well - Wellbore - Design						
S32-T2N-R68W						
HWY52 4V-32H-O268 - OH - FINAL						Out of range
HWY52 4W-32H-O268 - OH - FINAL						Out of range
Jack Hein Unit 1 - HS RESOURCES WELL - NO SURVE						Out of range
John Lamar 1 - KPK WELL - NO SURVEYS						Out of range
Johnson 32-30 - KPK WELL - NO SURVEYS						Out of range
Johnson 7-30A - KMG WELL - GYRO						Out of range
Kenneth Koch 1 - KPK WELL - NO SURVEYS						Out of range
Kenyon 34-19 - CPR WELL - SURVEYS						Out of range
Kenyon 4-8-19 - CPR WELL - SURVEYS						Out of range
Kenyon 8-4-19 - CPR WELL - SURVEYS						Out of range
Kenyon 8-6-19 - CPR WELL - SURVEYS						Out of range
Kenyon 8-8-19 - CPR WELL - SURVEYS						Out of range
Koch 41-6 - KPK WELL - NO SURVEYS						Out of range
Koch Kenneth E A-1 - KMG WELL - SURVEY						Out of range
Milton H Nelson H-1 - KMG WELL - GYRO						Out of range
Milton H Nelson I1 - KMG WELL - GYRO						Out of range
Milton H Nelson L1 - KMG WELL - GYRO						Out of range
Milton Nelson K1 - KMG WELL - GYRO						Out of range
Nelson 1 - TEXAS TEA - NO SURVEYS						Out of range
Nelson 1-A - TEXAS TEA WELL - NO SURVEYS						Out of range
Nelson 2 - TEXAS TEA WELL - NO SURVEYS						Out of range
Nelson 3 - TEXAS TEA WELL - NO SURVEYS						Out of range
Nelson 4 - TEXAS TEA WELL - NO SURVEYS						Out of range
Nelson 5 - TEXAS TEA WELL - NO SURVEYS						Out of range
Nelson D2 - KPK WELL - NO SURVEYS						Out of range
Nelson E Unit 1 - CPR WELL - GYRO						Out of range
Nelson E Unit 2 - CPR WELL - GYRO						Out of range
NOAA Federal 11-32 - CPR WELL - GYRO						Out of range
Oskarson 2-8-33 - CPR WELL - SURVEYS	19,243.37	7,738.36	1,074.17	868.87	5.232	CC, ES, SF
Oskarson 13-33 - CPR - GYRO	17,792.59	7,576.82	2,031.48	1,855.84	11.567	CC
Oskarson 13-33 - CPR - GYRO	17,800.00	7,576.79	2,031.49	1,855.76	11.560	ES
Oskarson 13-33 - CPR - GYRO	18,000.00	7,575.84	2,042.04	1,864.36	11.493	SF
Oskarson 23-33 - CPR WELL - GYRO	17,484.03	7,659.33	481.33	315.62	2.905	CC, ES
Oskarson 23-33 - CPR WELL - GYRO	17,500.00	7,658.98	481.60	315.71	2.903	SF
Oskarson 4 - HRM - NO SURVEYS						Out of range
Oskarson 4-4-33 - CPR WELL - SURVEYS	17,092.38	8,114.39	151.46	-33.18	0.820	Level 1, CC, ES, SF
Oskarson 4-6-33 - CPR WELL - SURVEYS	18,329.78	7,883.35	162.86	-23.79	0.873	Level 1, CC, ES, SF
Oskarson 4-8-33 - CPR WELL - SURVEYS	19,243.37	7,923.66	426.43	338.47	4.848	CC, ES, SF
Oskarson E Unit 1 - CPR WELL - GYRO	18,767.32	7,614.31	1,537.74	1,351.27	8.247	CC
Oskarson E Unit 1 - CPR WELL - GYRO	18,800.00	7,613.66	1,538.08	1,351.18	8.229	ES
Oskarson E Unit 1 - CPR WELL - GYRO	18,900.00	7,611.66	1,543.45	1,355.71	8.221	SF
Paquette 13-5 - KMG WELL - GYRO						Out of range
Paquette 14-5 - KERR-MCGEE - GYRO						Out of range
Rasmussen 10-29 - KMG WELL - SURVEYS						Out of range
Rasmussen 14-29 - KMG WELL - SURVEYS						Out of range
Rasmussen 16-29 - KMG WELL - SURVEYS						Out of range
Rasmussen 19-29 - KMG WELL - SURVEYS						Out of range
Rasmussen 20-29 - KMG WELL - SURVEYS						Out of range
Rasmussen 22-29 - KMG WELL - SURVEYS						Out of range
Rasmussen 23-29 - KMG WELL - SURVEYS						Out of range
Rasmussen 25-29 - KMG WELL - SURVEYS						Out of range

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

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Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well DREAM WEAVER South 3J-21H-N268 - Slot DREAM WEAVER South 3J-21H-N268 SHL
Project:	DJ BASIN	TVD Reference:	23' KB @ 4924.00usft
Reference Site:	S21-T2N-R68W	MD Reference:	23' KB @ 4924.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	DREAM WEAVER South 3J-21H-N268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S32-T2N-R68W						
Rasmussen 36-29 - KMG WELL - SURVEYS						Out of range
Rasmussen 37-29 - KMG WELL - SURVEYS						Out of range
Rasmussen 39-29 - KMG WELL - SURVEYS						Out of range
Rasmussen Fed 35-29 - KMG WELL - SURVEYS						Out of range
Ray Nelson 0-4-32 - CPR WELL - SURVEYS						Out of range
Ray Nelson 12-32 - CPR WELL - GYRO						Out of range
Ray Nelson 13-32 - CPR WELL - SURVEYS						Out of range
Ray Nelson 14-32 - CPR WELL - SURVEYS						Out of range
Ray Nelson 23-32 - CPR WELL - GYRO						Out of range
Ray Nelson 24-32 - CPR WELL - SURVEYS						Out of range
Ray Nelson 2-4-32 - CPR WELL - SURVEYS						Out of range
Ray Nelson 33-32 - CPR WELL - SURVEYS						Out of range
Ray Nelson 34-32 - CPR WELL - SURVEYS						Out of range
Ray Nelson 44-32 - CPR WELL - SURVEYS						Out of range
Ray Nelson 4-4-32 - CPR WELL - SURVEYS						Out of range
Ray Nelson 4-6-32 - CPR WELL - SURVEYS						Out of range
Ray Nelson 8-8-32 - CPR WELL - SURVEYS						Out of range
Regnier Farms 32-19 - CPR WELL - GYRO						Out of range
Regnier Farms 33-19 - CPR WELL - GYRO						Out of range
Regnier Farms 42-19 - CPR WELL - GYRO						Out of range
Regnier Farms 43-19 - CPR WELL - SURVEYS						Out of range
Regnier Farms B 2 - CPR WELL - GYRO						Out of range
Regnier Farms B Unit 1 - CPR WELL - GYRO						Out of range
Sawdey Unit 2 - KMG WELL - GYRO						Out of range
Schriner 11-5 - KMG WELL - GYRO						Out of range
Schriner 12-5 - KMG WELL - GYRO						Out of range
SEC Four 12-4 - KMG WELL - SURVEYS						Out of range
SEC Four 13-4 - KMG WELL - SURVEYS						Out of range
SEC Four 14-4 - KMG WELL - SURVEYS						Out of range
SEC Four 21-4 - KMG WELL - SURVEYS	19,243.37	7,770.80	1,799.22	1,738.68	29.717	CC, ES, SF
SEC Four 22-4 - KMG WELL - SURVEYS						Out of range
SEC Four 31-4 - KMG WELL - SURVEYS						Out of range
SEC Four 32-4 - KMG WELL - SURVEYS						Out of range
SEC Four 33-4 - KMG WELL - SURVEYS						Out of range
SEC Four 3-4 - KMG WELL - SURVEYS	19,243.37	7,747.85	1,233.48	1,132.08	12.165	CC, ES, SF
SEC Four 35-4 - KMG WELL - SURVEYS						Out of range
SEC Four 4-4 - KMG WELL - SURVEYS	19,243.37	7,704.41	2,086.59	1,909.68	11.794	CC, ES, SF
SEC Four 5-4 - KMG WELL - SURVEYS						Out of range
SEC Four 6-4 - KMG WELL - SURVEYS						Out of range
Shaw 11-29A - KMG WELL - SURVEYS						Out of range
Shaw 12-29A - KMG - GYRO						Out of range
Shaw 15-20 - KPK - SURVEYS						Out of range
Shaw 16-20 - KPK - SURVEYS						Out of range
Tallgrass 1-8 - KMG - SURVEYS						Out of range
Tallgrass 2-8 - KMG - SURVEYS						Out of range
Tallgrass 3-8 - KMG - SURVEYS						Out of range
Tallgrass 4-8 - KMG - SURVEYS						Out of range
Tallgrass 5-8 - KMG - SURVEYS						Out of range
Tallgrass 6-8 - KMG WELL - SURVEYS						Out of range
Williams 10-20 - KMG WELL - SURVEYS						Out of range
Williams 11-20 - KMG WELL - 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

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well DREAM WEAVER South 3J-21H-N268 - Slot DREAM WEAVER South 3J-21H-N268 SHL
Project:	DJ BASIN	TVD Reference:	23' KB @ 4924.00usft
Reference Site:	S21-T2N-R68W	MD Reference:	23' KB @ 4924.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	DREAM WEAVER South 3J-21H-N268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S32-T2N-R68W						
Williams 13-20 - KMG WELL - SURVEYS						Out of range
Williams 14-20 - KMG WELL - SURVEYS						Out of range
Williams 16-20 - KMG WELL - SURVEYS						Out of range
Williams 18-29 - KMG WELL - SURVEYS						Out of range
Williams 23-20 - KMG WELL - SURVEYS						Out of range
Williams 24-20 - KMG WELL - SURVEYS						Out of range
Williams 24-20X - KMG WELL - SURVEYS						Out of range
Williams 25-20 - KMG WELL - SURVEYS						Out of range
Williams 35-20 - KMG WELL - SURVEYS						Out of range
Williams 36-20 - KMG WELL - SURVEYS						Out of range
Williams 39-20 - KMG WELL - SURVEYS						Out of range
Williams 4-29 - KMG WELL - SURVEYS						Out of range
Williams 7-20 - KMG WELL - SURVEYS						Out of range
Williams 8-20 - KMG WELL - SURVEYS						Out of range
Williams 9-20 - KMG WELL - SURVEYS						Out of range
Woolley 41-7 - CPR WELL - GYRO						Out of range
Woolley 42-7 KPK - KPK WELL - SURVEYS						Out of range

Cathedral Energy Services

Anticollision Summary Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well DREAM WEAVER South 3J-21H-N268 - Slot DREAM WEAVER South 3J-21H-N268 SHL
Project:	DJ BASIN	TVD Reference:	23' KB @ 4924.00usft
Reference Site:	S21-T2N-R68W	MD Reference:	23' KB @ 4924.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	DREAM WEAVER South 3J-21H-N268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

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
S7-T1N-R68W (Woolley-S/B/Morgan Hills)						
BAILEY 8-8-1 (EXISTING) - CPR WELL - SURVEYS						Out of range
BEARDEN 0-6-6 (EXISTING) - CPR WELL - SURVEYS						Out of range
BEARDEN 1 (EXISTING) - CPR WELL - GYRO						Out of range
BEARDEN 13-6 (EXISTING) - CPR WELL - SURVEYS						Out of range
BEARDEN 14-6 (EXISTING) - CPR WELL - SURVEYS						Out of range
BEARDEN 23-6 (EXISTING) - ENCANA WELL - GYRO						Out of range
BEARDEN 24-6 (EXISTING) - CPR WELL - CPR WELL						Out of range
BEARDEN 2-4-6 (EXISTING) - CPR WELL - SURVEYS						Out of range
BEARDEN 2-8-6 (EXISTING) - CPR WELL - SURVEYS						Out of range
BECKY 1 (EXISTING) - FOUNDATION WELL - NO SUR						Out of range
BECKY 2-6 (EXISTING) - EXTRACTION WELL - GYRO						Out of range
BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO SU						Out of range
BECKY 7-6 (EXISTING) - EXTRACTION WELL - GYRO						Out of range
BILLINGS 21-7 (EXISTING) - KPK WELL - SURVEYS						Out of range
BULTHAUP 10-6 (EXISTING) - KMG WELL - SURVEYS						Out of range
BULTHAUP 15-6 (EXISTING) - KMG WELL - GYRO						Out of range
BULTHAUP 17-6 (EXISTING) - KMG WELL - SURVEYS						Out of range
BULTHAUP 21-6 (EXISTING) - KMG WELL - SURVEYS						Out of range
BULTHAUP 23-6 (EXISTING) - KMG WELL - SURVEYS						Out of range
BULTHAUP 27-6 (EXISTING) - KMG WELL - SURVEYS						Out of range
CANYON CREEK 43-13 (EXISTING) - CPR WELL - SUR						Out of range
CANYON CREEK 8-6-13X (EXISTING) - CPR WELL - S						Out of range
CHAMPLIN-86-AMOCO 1 (EXISTING) - AMOCO - SURV						Out of range
COAL CREEK 6-0-19 (EXISTING) - CPR WELL - STK						Out of range
COAL CREEK 6-0-19 (EXISTING) - OH - SURVEYS						Out of range
COMMONS 28-19 (EXISTING) - KMG WELL - SURVEYS						Out of range
ERIE CHAMPLIN 18-9 (EXISTING) - EXISTING - SURVE						Out of range
ERIE CHAMPLIN B UNIT 1 - CPR WELL - GYRO						Out of range
ERIE CHAMPLIN B UNIT 2 - CPR WELL - GYRO						Out of range
I & J 7-6 (EXISTING) - KMG WELL - GYRO						Out of range
Morgan Hills 1A-7H-A168 - HZ - FINAL						Out of range
Morgan Hills 1B-7H-A168 - HZ - FINAL						Out of range
Morgan Hills 1C-7H-A168 - HZ - FINAL						Out of range
Morgan Hills 1D-7H-A168 - HZ - FINAL						Out of range
Morgan Hills 1E-7H-A168 - HZ - FINAL						Out of range
Morgan Hills 1F-7H-A168 - HZ - FINAL						Out of range
Morgan Hills 1G-7H-A168 - HZ - FINAL						Out of range
Morgan Hills 1H-7H-A168 - HZ - FINAL						Out of range
Morgan Hills 1I-7H-A168 - OH - FINAL						Out of range
SOSA 11-18 (EXISTING) - CPR WELL - SURVEYS						Out of range
SOSA 12-18 (EXISTING) - CPR WELL - SURVEYS						Out of range
SOSA 21-18 (EXISTING) - CPR WELL - SURVEYS						Out of range
SOSA 22-18 (EXISTING) - CPR WELL - SURVEYS						Out of range
SOSA A UNIT 1 (EXISTING) - CPR WELL - GYRO						Out of range
TALLGRASS 33-17 (EXISTING) - KMG WELL - SURVEY						Out of range
THOMAS 14-7(EXISTING) - CPR WELL - SURVEYS						Out of range
THOMAS 24-7 (EXISTING) - CPR WELL - SURVEYS						Out of range
THOMAS 2-8-7 (EXISTING) - CPR WELL - SURVEYS						Out of range
THOMAS 33-7 (EXISTING) - CPR WELL - SURVEYS						Out of range
THOMAS 7-12 (EXISTING) - CPR WELL - GYRO						Out of range
Thomas 7-14 (AL) - Existing - 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

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well DREAM WEAVER South 3J-21H-N268 - Slot DREAM WEAVER South 3J-21H-N268 SHL
Project:	DJ BASIN	TVD Reference:	23' KB @ 4924.00usft
Reference Site:	S21-T2N-R68W	MD Reference:	23' KB @ 4924.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	DREAM WEAVER South 3J-21H-N268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Summary						
Offset Well - Wellbore - Design						
S7-T1N-R68W (Woolley-S/B/Morgan Hills)						
THOMAS E UNIT 1 (EXISTING) - CPR WELL - GYRO						Out of range
THOMAS E UNIT 2 - VESSELS WELL - INC ONLY						Out of range
THOMAS K UNIT 1 (EXISTING) - EXISTING - NO SURV						Out of range
WHEELER G UNIT 1 - CPR - GYRO						Out of range
WIGGETT 13-1 - CPR - GYRO						Out of range
WIGGETT 8-2-13 (EXISTING) - CPR WELL - SURVEYS						Out of range
WOOLLEY 11-7 (EXISTING) - CPR WELL - SURVEYS						Out of range
WOOLLEY 12-7 (EXISTING) - CPR WELL - GYRO						Out of range
WOOLLEY 21-7 (EXISTING) - CPR WELL - GYRO						Out of range
WOOLLEY 22-7 (EXISTING) - CPR WELL - SURVEYS						Out of range
WOOLLEY 2-4-7 (EXISTING) - CPR WELL - SURVEYS						Out of range
WOOLLEY 4-0-7 (EXISTING) - CPR WELL - SURVEYS						Out of range
WOOLLEY 41-7 (EXISTING) - CPR WELL - GYRO						Out of range
WOOLLEY 42-7 (EXISTING) - CPR WELL - GYRO						Out of range
WOOLLEY 42-7 KPK (EXISTING) - KPK WELL - SURVE						Out of range
WOOLLEY A 1-7 (EXISTING) - CPR WELL - GYRO						Out of range
WOOLLEY F UNIT 1 (EXISTING) - CPR WELL - GYRO						Out of range
Woolley-Becky 2A-7H-E168 - Hz - FINAL						Out of range
Woolley-Becky 2B-7H-E168 - Hz - FINAL						Out of range
Woolley-Becky 2C-7H-E168 - Hz - FINAL						Out of range
Woolley-Becky 2D-7H-E168 - Hz - FINAL						Out of range
Woolley-Becky 2E-7H-E168 - Hz - FINAL						Out of range
Woolley-Becky 2F-7H-E168 - Hz - FINAL						Out of range
Woolley-Becky 2G-7H-E168 - Hz - FINAL						Out of range
Woolley-Becky 2H-7H-E168 - Hz - FINAL						Out of range
Woolley-Sosa 2A-7H-E168 - OH - FINAL						Out of range
Woolley-Sosa 2B-7H-E168 - HZ - FINAL						Out of range
Woolley-Sosa 2C-7H-E168 - HZ - FINAL						Out of range
Woolley-Sosa 2D-7H-E168 - HZ - FINAL						Out of range
Woolley-Sosa 2E-7H-E168 - HZ - FINAL						Out of range
Woolley-Sosa 2F-7H-E168 - HZ - FINAL						Out of range
Woolley-Sosa 2G-7H-E168 - HZ - FINAL						Out of range

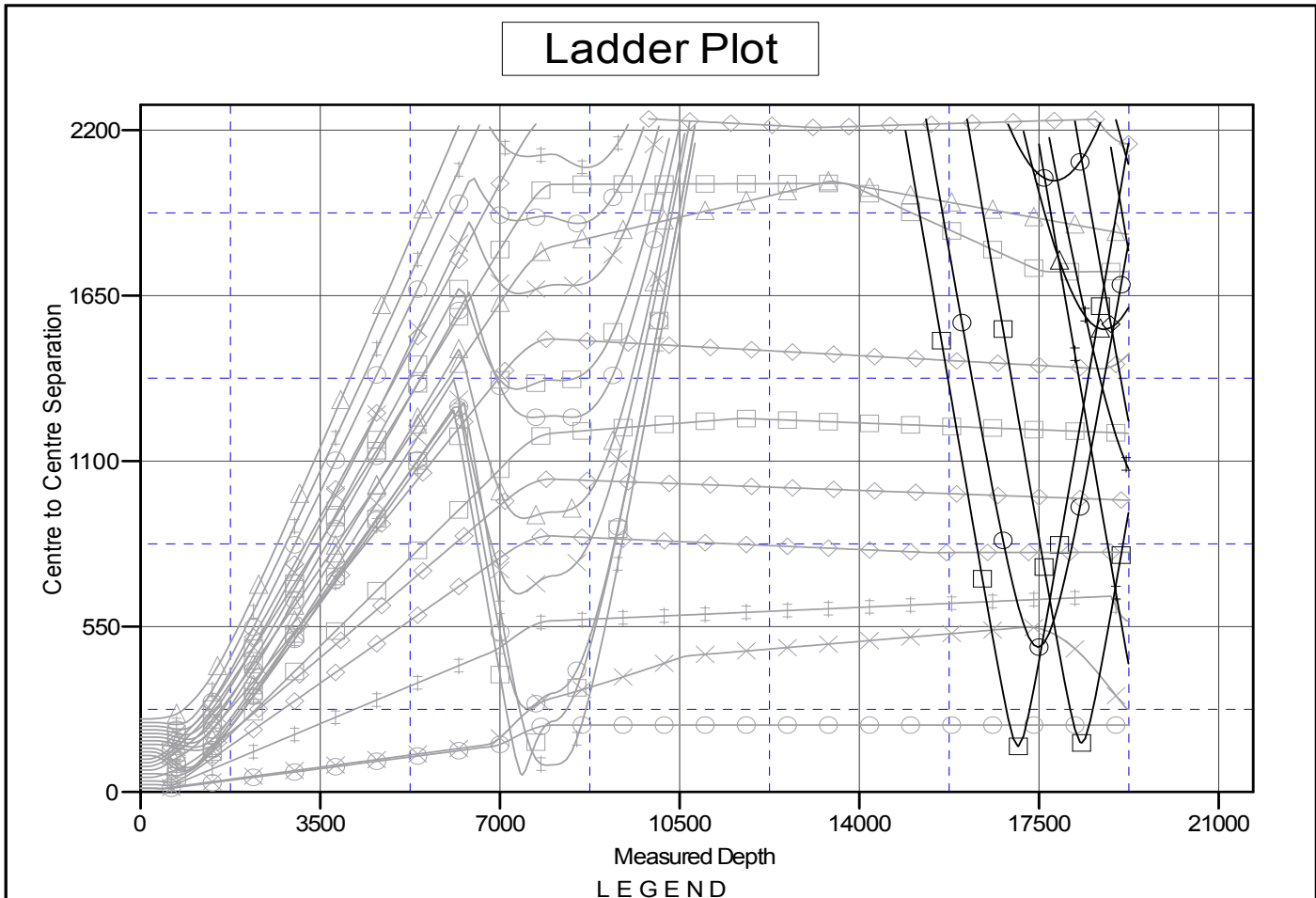
Cathedral Energy Services

Anticollision Summary Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well DREAM WEAVER South 3J-21H-N268 - Slot DREAM WEAVER South 3J-21H-N268 SHL
Project:	DJ BASIN	TVD Reference:	23' KB @ 4924.00usft
Reference Site:	S21-T2N-R68W	MD Reference:	23' KB @ 4924.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	DREAM WEAVER South 3J-21H-N268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

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

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



- | | | |
|---|---|---|
| 1WEAVERNorth 3A-21H-N268, OH, PLAN#1 V0 | ◆ DREAMWEAVERSouth 3A-21H-N268, OH, PLAN#1 V0 | ● Oskarson 13-33, CPR, GYRO V0 |
| 1WEAVERNorth 3B-21H-N268, OH, PLAN#1 V0 | ■ DREAMWEAVERSouth 3B-21H-N268, OH, PLAN#1 V0 | ● Oskarson 23-33, CPR WELL, GYRO V0 |
| 1WEAVERNorth 3C-21H-N268, OH, PLAN#1 V0 | ▲ DREAMWEAVERSouth 3C-21H-N268, OH, PLAN#1 V0 | ■ Oskarson 4-4-33, CPR WELL, SURVEYS V0 |
| 1WEAVERNorth 3D-21H-N268, OH, PLAN#1 V0 | ◆ DREAMWEAVERSouth 3D-21H-N268, OH, PLAN#1 V0 | ■ Oskarson 4-6-33, CPR WELL, SURVEYS V0 |
| 1WEAVERNorth 3E-21H-N268, OH, PLAN#1 V0 | ■ DREAMWEAVERSouth 3E-21H-N268, OH, PLAN#1 V0 | ◆ Oskarson 4-8-33, CPR WELL, SURVEYS V0 |
| 1WEAVERNorth 3F-21H-N268, OH, PLAN#1 V0 | ◆ DREAMWEAVERSouth 3F-21H-N268, OH, PLAN#1 V0 | ▲ Oskarson E Unit 1, CPR WELL, GYRO V0 |
| 1WEAVERNorth 3G-21H-N268, OH, PLAN#1 V0 | ◆ DREAMWEAVERSouth 3G-21H-N268, OH, PLAN#1 V0 | ◆ SEC Four 21-4, KMG WELL, SURVEYS V0 |
| 1WEAVERNorth 3H-21H-N268, OH, PLAN#1 V0 | ◆ DREAMWEAVERSouth 3H-21H-N268, OH, PLAN#1 V0 | ◆ SEC Four 3-4, KMG WELL, SURVEYS V0 |
| 1WEAVERNorth 3I-21H-N268, OH, PLAN#1 V0 | ● DREAMWEAVERSouth 3I-21H-N268, OH, PLAN#2 V0 | ◆ SEC Four 4-4, KMG WELL, SURVEYS V0 |
| 1WEAVERNorth 3J-21H-N268, OH, PLAN#1 V0 | ◆ DREAMWEAVERSouth 3K-21H-N268, OH, PLAN#2 V0 | |

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

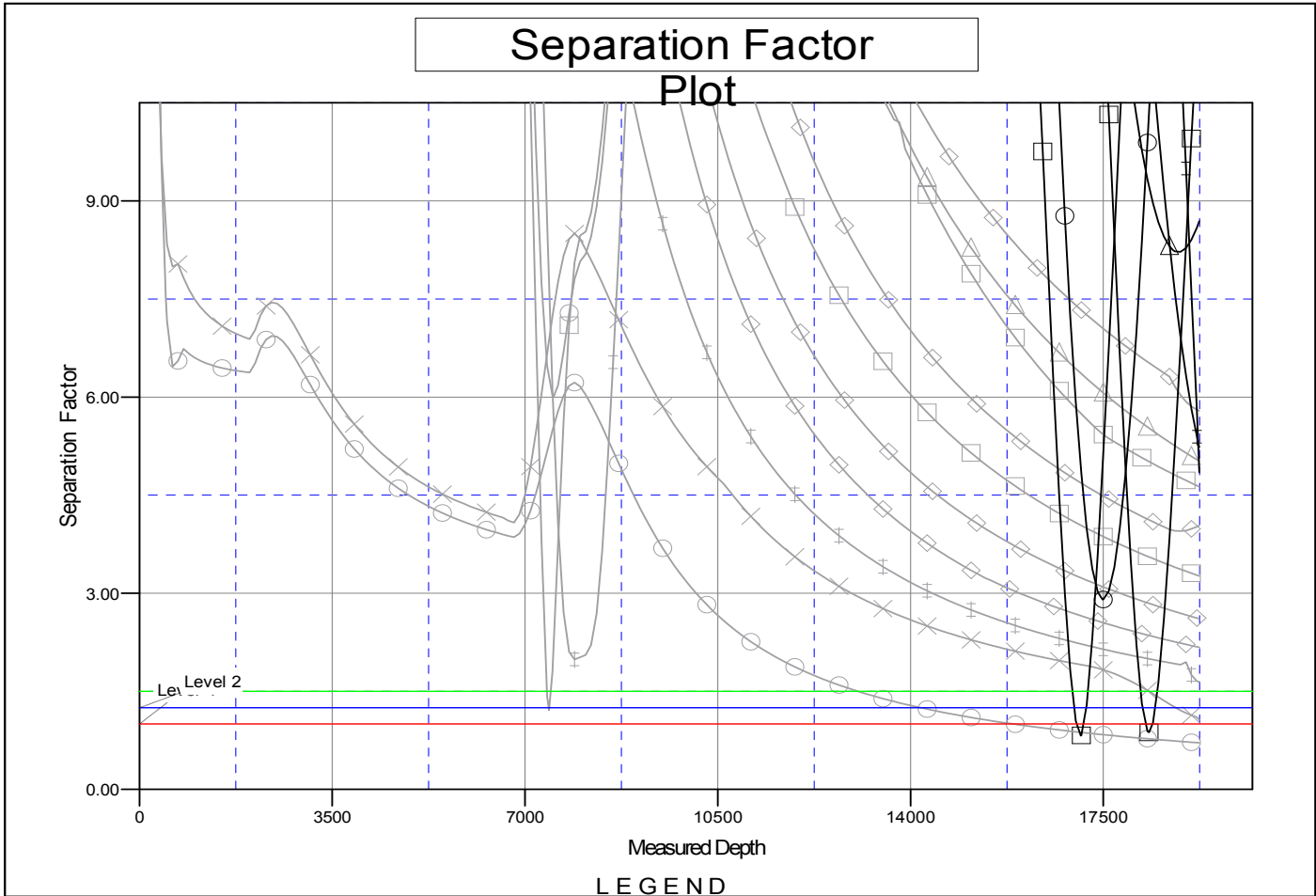
Cathedral Energy Services

Anticollision Summary Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well DREAM WEAVER South 3J-21H-N268 - Slot DREAM WEAVER South 3J-21H-N268 SHL
Project:	DJ BASIN	TVD Reference:	23' KB @ 4924.00usft
Reference Site:	S21-T2N-R68W	MD Reference:	23' KB @ 4924.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	DREAM WEAVER South 3J-21H-N268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA EDM 5000 Multi Users DB
Reference Design:	PLAN #2	Offset TVD Reference:	Offset Datum

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

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



LEGEND

- | | | |
|---|---|---|
| 1WEAVERNorth 3A-21H-N268, OH, PLAN#1 V0 | ◆ DREAMWEAVERSouth 3A-21H-N268, OH, PLAN#1 V0 | ● Oskarson 13-33, CPR, GYRO V0 |
| 1WEAVERNorth 3B-21H-N268, OH, PLAN#1 V0 | ◆ DREAMWEAVERSouth 3B-21H-N268, OH, PLAN#1 V0 | ● Oskarson 23-33, CPR WELL, GYRO V0 |
| 1WEAVERNorth 3C-21H-N268, OH, PLAN#1 V0 | ▲ DREAMWEAVERSouth 3C-21H-N268, OH, PLAN#1 V0 | ■ Oskarson 4-4-33, CPR WELL, SURVEYS V0 |
| 1WEAVERNorth 3D-21H-N268, OH, PLAN#1 V0 | ◆ DREAMWEAVERSouth 3D-21H-N268, OH, PLAN#1 V0 | ■ Oskarson 4-6-33, CPR WELL, SURVEYS V0 |
| 1WEAVERNorth 3E-21H-N268, OH, PLAN#1 V0 | ◆ DREAMWEAVERSouth 3E-21H-N268, OH, PLAN#1 V0 | ◆ Oskarson 4-8-33, CPR WELL, SURVEYS V0 |
| 1WEAVERNorth 3F-21H-N268, OH, PLAN#1 V0 | ◆ DREAMWEAVERSouth 3F-21H-N268, OH, PLAN#1 V0 | ▲ Oskarson E Unit 1, CPR WELL, GYRO V0 |
| 1WEAVERNorth 3G-21H-N268, OH, PLAN#1 V0 | ◆ DREAMWEAVERSouth 3G-21H-N268, OH, PLAN#1 V0 | ◆ SEC Four 21-4, KMG WELL, SURVEYS V0 |
| 1WEAVERNorth 3H-21H-N268, OH, PLAN#1 V0 | ◆ DREAMWEAVERSouth 3H-21H-N268, OH, PLAN#1 V0 | ◆ SEC Four 3-4, KMG WELL, SURVEYS V0 |
| 1WEAVERNorth 3I-21H-N268, OH, PLAN#1 V0 | ○ DREAMWEAVERSouth 3I-21H-N268, OH, PLAN#2 V0 | ◆ SEC Four 4-4, KMG WELL, SURVEYS V0 |
| 1WEAVERNorth 3J-21H-N268, OH, PLAN#1 V0 | ◆ DREAMWEAVERSouth 3K-21H-N268, OH, PLAN#2 V0 | |

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