

Crestone Peak Resources

DJ BASIN

S21-T2N-R68W

DREAM WEAVER South 3I-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 3I-21H-N268 - Slot DREAM WEAVER South 3I-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 3I-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	19,095.12	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	230.71	230.22	470.532	CC, ES
DREAM WEAVER North 3A-21H-N268 - OH - PLAN #1	9,300.00	7,050.00	2,214.01	2,156.35	38.398	SF
DREAM WEAVER North 3B-21H-N268 - OH - PLAN #1	776.92	768.21	212.45	209.93	84.427	CC, ES
DREAM WEAVER North 3B-21H-N268 - OH - PLAN #1	9,300.00	7,120.66	2,007.79	1,950.98	35.346	SF
DREAM WEAVER North 3C-21H-N268 - OH - PLAN #1	857.45	849.53	193.66	190.86	69.212	CC, ES
DREAM WEAVER North 3C-21H-N268 - OH - PLAN #1	9,000.00	7,050.00	1,759.99	1,708.29	34.046	SF
DREAM WEAVER North 3D-21H-N268 - OH - PLAN #1	941.28	935.06	173.96	170.87	56.246	CC, ES
DREAM WEAVER North 3D-21H-N268 - OH - PLAN #1	8,900.00	7,128.68	1,543.37	1,492.74	30.482	SF
DREAM WEAVER North 3E-21H-N268 - OH - PLAN #1	1,009.49	1,004.22	156.99	153.66	47.123	CC, ES
DREAM WEAVER North 3E-21H-N268 - OH - PLAN #1	8,600.00	7,218.24	1,201.29	1,154.79	25.834	SF
DREAM WEAVER North 3F-21H-N268 - OH - PLAN #1	1,053.94	1,048.70	143.33	139.84	41.115	CC, ES
DREAM WEAVER North 3F-21H-N268 - OH - PLAN #1	8,700.00	7,285.48	1,085.14	1,036.68	22.392	SF
DREAM WEAVER North 3G-21H-N268 - OH - PLAN #1	1,141.39	1,137.87	126.60	122.80	33.371	CC, ES
DREAM WEAVER North 3G-21H-N268 - OH - PLAN #1	8,300.00	7,471.85	747.15	702.47	16.723	SF
DREAM WEAVER North 3H-21H-N268 - OH - PLAN #1	1,205.22	1,202.48	113.99	109.98	28.373	CC, ES
DREAM WEAVER North 3I-21H-N268 - OH - PLAN #1	7,400.00	8,216.75	498.59	453.54	11.068	SF
DREAM WEAVER North 3I-21H-N268 - OH - PLAN #1	955.77	960.14	60.11	56.94	18.933	CC, ES
DREAM WEAVER North 3I-21H-N268 - OH - PLAN #1	7,716.79	8,025.31	119.95	76.19	2.741	SF
DREAM WEAVER North 3J-21H-N268 - OH - PLAN #1	924.03	928.92	50.99	47.92	16.636	CC
DREAM WEAVER North 3J-21H-N268 - OH - PLAN #1	8,304.97	7,550.21	71.95	26.64	1.588	ES, SF
DREAM WEAVER North 3K-21H-N268 - OH - PLAN #1	850.96	857.74	50.21	47.40	17.837	CC, ES
DREAM WEAVER North 3K-21H-N268 - OH - PLAN #1	7,526.74	8,127.49	219.11	174.64	4.927	SF
DREAM WEAVER South 3A-21H-N268 - OH - PLAN #1	103.36	103.36	97.14	96.99	655.475	CC, ES
DREAM WEAVER South 3A-21H-N268 - OH - PLAN #1	19,096.11	19,287.83	1,974.48	1,602.26	5.305	SF
DREAM WEAVER South 3B-21H-N268 - OH - PLAN #1	103.37	103.37	85.00	84.85	573.477	CC, ES
DREAM WEAVER South 3B-21H-N268 - OH - PLAN #1	19,096.11	19,370.09	1,560.53	1,188.17	4.191	SF
DREAM WEAVER South 3C-21H-N268 - OH - PLAN #1	103.42	103.42	72.86	72.71	490.881	CC, ES
DREAM WEAVER South 3C-21H-N268 - OH - PLAN #1	19,096.11	19,090.64	1,667.12	1,296.91	4.503	SF
DREAM WEAVER South 3D-21H-N268 - OH - PLAN #1	200.00	200.00	60.71	60.22	123.824	CC, ES
DREAM WEAVER South 3D-21H-N268 - OH - PLAN #1	18,700.00	18,700.00	1,228.33	869.81	3.426	SF
DREAM WEAVER South 3E-21H-N268 - OH - PLAN #1	762.19	760.40	40.28	37.82	16.379	CC, ES
DREAM WEAVER South 3E-21H-N268 - OH - PLAN #1	19,096.11	19,013.28	999.09	629.74	2.705	SF
DREAM WEAVER South 3F-21H-N268 - OH - PLAN #1	200.00	200.00	36.43	35.94	74.293	CC, ES
DREAM WEAVER South 3F-21H-N268 - OH - PLAN #1	19,096.11	19,230.92	806.32	438.87	2.194	SF

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 3I-21H-N268 - Slot DREAM WEAVER South 3I-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 3I-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 3G-21H-N268 - OH - PLAN #1	655.56	654.92	20.24	18.15	9.708	CC, ES
DREAM WEAVER South 3G-21H-N268 - OH - PLAN #1	19,096.11	19,091.91	609.66	238.58	1.643	SF
DREAM WEAVER South 3H-21H-N268 - OH - PLAN #1	577.77	577.50	10.51	8.70	5.794	CC
DREAM WEAVER South 3H-21H-N268 - OH - PLAN #1	19,096.11	19,012.19	357.29	-3.05	0.992	Level 1, ES, SF
DREAM WEAVER South 3J-21H-N268 - OH - PLAN #2	476.41	476.58	10.97	9.51	7.526	CC
DREAM WEAVER South 3J-21H-N268 - OH - PLAN #2	19,096.11	19,242.91	222.36	-89.81	0.712	Level 1, ES, SF
DREAM WEAVER South 3K-21H-N268 - OH - PLAN #2	418.80	419.05	22.64	21.38	18.019	CC
DREAM WEAVER South 3K-21H-N268 - OH - PLAN #2	19,096.11	19,076.22	338.11	-22.35	0.938	Level 1, ES, 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 3I-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						
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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Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well DREAM WEAVER South 3I-21H-N268 - Slot DREAM WEAVER South 3I-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 3I-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 3I-21H-N268 - Slot DREAM WEAVER South 3I-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 3I-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
S32-T2N-R68W						
HWY52 4V-32H-O268 - OH - FINAL						Out of range
HWY52 4W-32H-O268 - OH - FINAL	18,439.08	8,351.00	2,186.50	1,984.35	10.817	CC
HWY52 4W-32H-O268 - OH - FINAL	18,500.00	8,351.00	2,187.35	1,984.28	10.771	ES
HWY52 4W-32H-O268 - OH - FINAL	18,800.00	8,188.13	2,203.75	1,997.41	10.680	SF
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	19,096.11	7,599.86	913.39	713.61	4.572	CC, ES, SF
Oskarson 13-33 - CPR - GYRO	17,647.00	7,437.53	1,853.35	1,677.91	10.564	CC, ES
Oskarson 13-33 - CPR - GYRO	17,800.00	7,436.90	1,859.66	1,682.56	10.501	SF
Oskarson 23-33 - CPR WELL - GYRO	17,340.09	7,523.68	305.62	139.91	1.844	CC, ES, SF
Oskarson 4 - HRM - NO SURVEYS						Out of range
Oskarson 4-4-33 - CPR WELL - SURVEYS	16,947.33	7,976.69	326.07	141.49	1.767	CC, ES, SF
Oskarson 4-6-33 - CPR WELL - SURVEYS	18,182.64	7,744.80	336.62	150.15	1.805	CC, ES, SF
Oskarson 4-8-33 - CPR WELL - SURVEYS	19,096.11	7,787.38	509.61	378.80	3.896	CC, ES, SF
Oskarson E Unit 1 - CPR WELL - GYRO	18,623.46	7,463.35	1,362.93	1,176.44	7.308	CC, ES
Oskarson E Unit 1 - CPR WELL - GYRO	18,700.00	7,461.67	1,365.07	1,177.69	7.285	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
Rasmussen 36-29 - 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 3I-21H-N268 - Slot DREAM WEAVER South 3I-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 3I-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 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	19,096.11	7,639.75	1,812.39	1,746.45	27.484	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	19,096.11	7,622.45	1,175.09	1,095.52	14.768	CC, ES, SF
SEC Four 35-4 - KMG WELL - SURVEYS						Out of range
SEC Four 4-4 - KMG WELL - SURVEYS	19,096.11	7,565.12	1,945.00	1,774.58	11.413	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
Williams 13-20 - 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 3I-21H-N268 - Slot DREAM WEAVER South 3I-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 3I-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 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 3I-21H-N268 - Slot DREAM WEAVER South 3I-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 3I-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 3I-21H-N268 - Slot DREAM WEAVER South 3I-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 3I-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

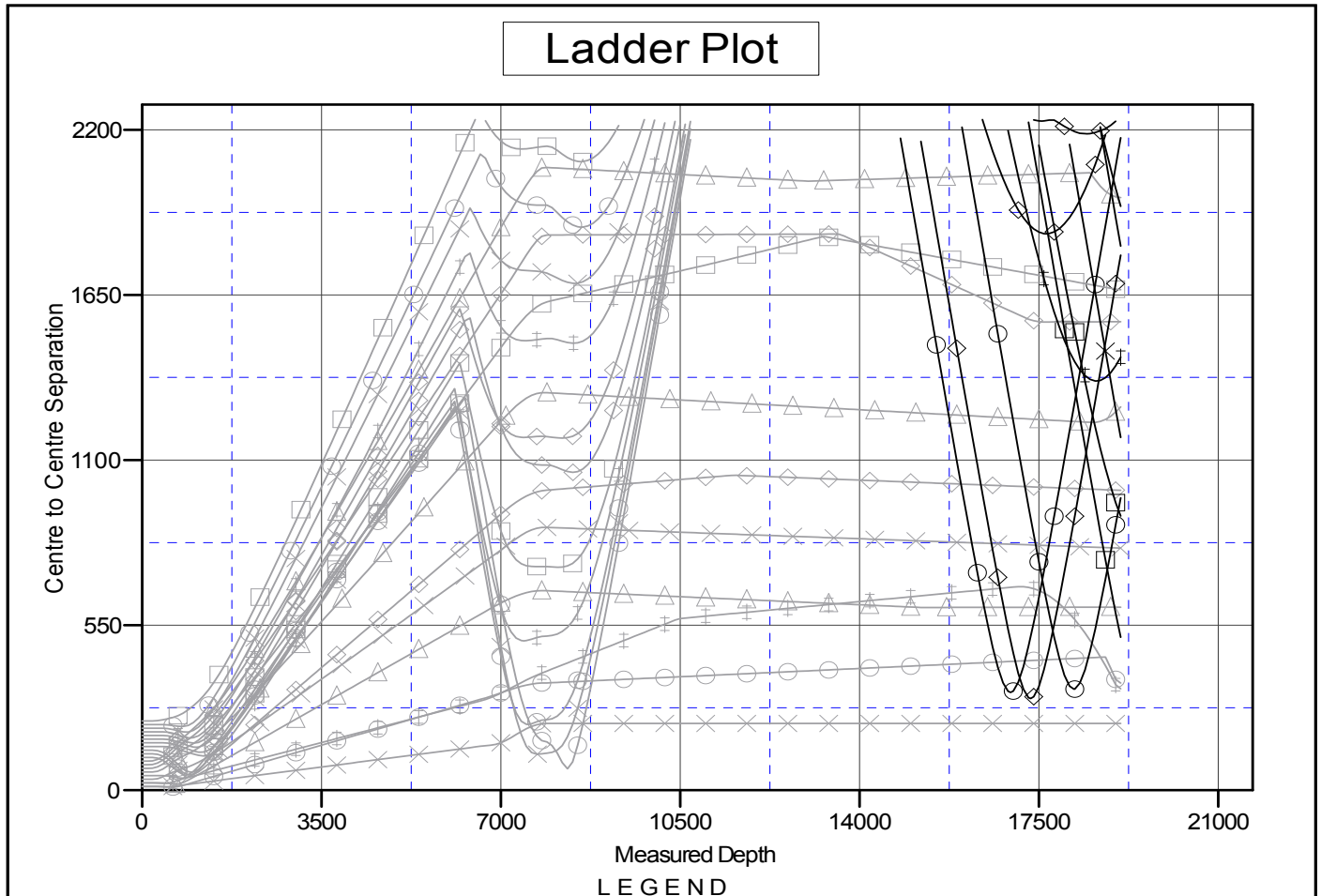
Cathedral Energy Services

Anticollision Summary Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well DREAM WEAVER South 3I-21H-N268 - Slot DREAM WEAVER South 3I-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 3I-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 3I-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 2-8-33, CPR WELL, SURVEYS V0 |
| 1WEAVERNorth 3B-21H-N268, OH, PLAN#1 V0 | ◆ DREAMWEAVERSouth 3B-21H-N268, OH, PLAN#1 V0 | ◆ Oskarson 13-33, CPR, GYRO V0 |
| 1WEAVERNorth 3C-21H-N268, OH, PLAN#1 V0 | ▣ DREAMWEAVERSouth 3C-21H-N268, OH, PLAN#1 V0 | ◆ Oskarson 23-33, CPR WELL, GYRO V0 |
| 1WEAVERNorth 3D-21H-N268, OH, PLAN#1 V0 | ▲ DREAMWEAVERSouth 3D-21H-N268, OH, PLAN#1 V0 | ● Oskarson 4-4-33, CPR WELL, SURVEYS V0 |
| 1WEAVERNorth 3E-21H-N268, OH, PLAN#1 V0 | ◆ DREAMWEAVERSouth 3E-21H-N268, OH, PLAN#1 V0 | ● Oskarson 4-6-33, CPR WELL, SURVEYS V0 |
| 1WEAVERNorth 3F-21H-N268, OH, PLAN#1 V0 | × DREAMWEAVERSouth 3F-21H-N268, OH, PLAN#1 V0 | ■ Oskarson 4-8-33, CPR WELL, SURVEYS V0 |
| 1WEAVERNorth 3G-21H-N268, OH, PLAN#1 V0 | ▲ DREAMWEAVERSouth 3G-21H-N268, OH, PLAN#1 V0 | ◆ Oskarson E Unit 1, CPR WELL, GYRO V0 |
| 1WEAVERNorth 3H-21H-N268, OH, PLAN#1 V0 | ● DREAMWEAVERSouth 3H-21H-N268, OH, PLAN#1 V0 | × SEC Four 21-4, KMG WELL, SURVEYS V0 |
| 1WEAVERNorth 3I-21H-N268, OH, PLAN#1 V0 | × DREAMWEAVERSouth 3I-21H-N268, OH, PLAN#2 V0 | × SEC Four 3-4, KMG WELL, SURVEYS V0 |
| 1WEAVERNorth 3J-21H-N268, OH, PLAN#1 V0 | ■ DREAMWEAVERSouth 3J-21H-N268, OH, PLAN#2 V0 | × SEC Four 4-4, KMG WELL, SURVEYS V0 |

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

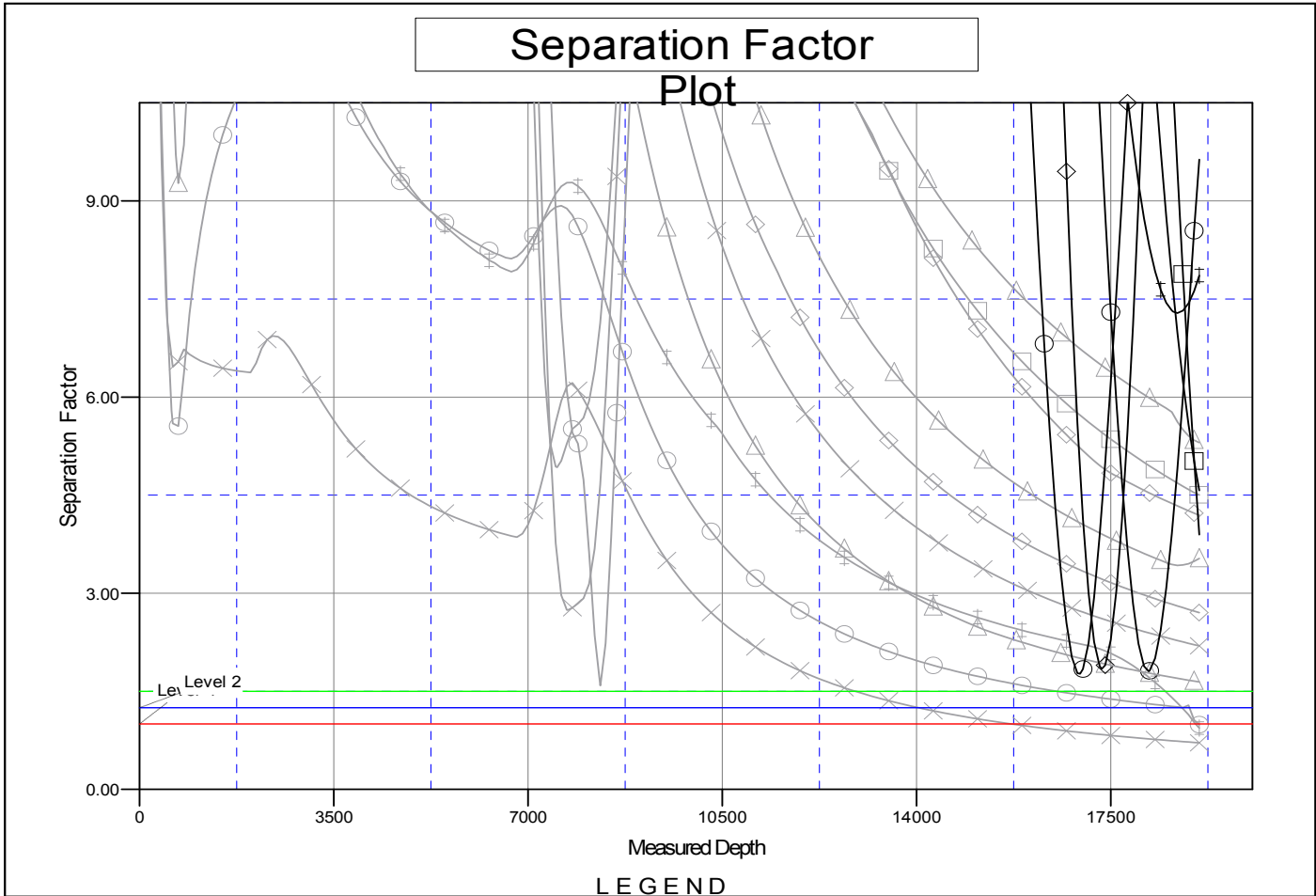
Cathedral Energy Services

Anticollision Summary Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well DREAM WEAVER South 3I-21H-N268 - Slot DREAM WEAVER South 3I-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 3I-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 3I-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 2-8-33, CPR WELL, SURVEYS V0
1WEAVERNorth 3B-21H-N268, OH, PLAN#1 V0	◆ DREAMWEAVERSouth 3B-21H-N268, OH, PLAN#1 V0	◆ Oskarson 13-33, CPR, GYRO V0
1WEAVERNorth 3C-21H-N268, OH, PLAN#1 V0	□ DREAMWEAVERSouth 3C-21H-N268, OH, PLAN#1 V0	◆ Oskarson 23-33, CPR WELL, GYRO V0
1WEAVERNorth 3D-21H-N268, OH, PLAN#1 V0	▲ DREAMWEAVERSouth 3D-21H-N268, OH, PLAN#1 V0	● Oskarson 4-4-33, CPR WELL, SURVEYS V0
1WEAVERNorth 3E-21H-N268, OH, PLAN#1 V0	◆ DREAMWEAVERSouth 3E-21H-N268, OH, PLAN#1 V0	● Oskarson 4-6-33, CPR WELL, SURVEYS V0
1WEAVERNorth 3F-21H-N268, OH, PLAN#1 V0	× DREAMWEAVERSouth 3F-21H-N268, OH, PLAN#1 V0	■ Oskarson 4-8-33, CPR WELL, SURVEYS V0
1WEAVERNorth 3G-21H-N268, OH, PLAN#1 V0	▲ DREAMWEAVERSouth 3G-21H-N268, OH, PLAN#1 V0	× Oskarson E Unit 1, CPR WELL, GYRO V0
1WEAVERNorth 3H-21H-N268, OH, PLAN#1 V0	● DREAMWEAVERSouth 3H-21H-N268, OH, PLAN#1 V0	× SEC Four 21-4, KMG WELL, SURVEYS V0
1WEAVERNorth 3I-21H-N268, OH, PLAN#1 V0	× DREAMWEAVERSouth 3I-21H-N268, OH, PLAN#2 V0	× SEC Four 3-4, KMG WELL, SURVEYS V0
1WEAVERNorth 3J-21H-N268, OH, PLAN#1 V0	▲ DREAMWEAVERSouth 3K-21H-N268, OH, PLAN#2 V0	× SEC Four 4-4, KMG WELL, SURVEYS V0

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