

Crestone Peak Resources

DJ BASIN

S18-T2N-R67W (KUGEL)

KUGEL 1M-18H-H267

OH

PLAN #2 (6.11)

Anticollision Summary Report

11 June, 2018

Cathedral Energy Services

Anticollision Summary Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well KUGEL 1M-18H-H267 - Slot KUGEL 1M
Project:	DJ BASIN	TVD Reference:	23' KB @ 4976.00usft
Reference Site:	S18-T2N-R67W (KUGEL)	MD Reference:	23' KB @ 4976.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	KUGEL 1M-18H-H267	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 (6.11)	Offset TVD Reference:	Offset Datum

Reference	PLAN #2 (6.11)		
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 ellipse separation of 1,000.00 usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	6/11/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	2,000.00	PLAN #2 (6.11) (OH)	VESSI_GYROFLEX	VESSI Gyroflex Gyro
2,001.00	13,775.05	PLAN #2 (6.11) (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
Offset Well - Wellbore - Design						
S18-T2N-R67W (KUGEL)						
BRETT 1 - HS RESOURCES - NO SURVEYS	200.00	191.00	1,102.89	1,102.17	1,533.011	CC
BRETT 1 - HS RESOURCES - NO SURVEYS	300.00	291.00	1,103.32	1,102.07	878.424	ES
BRETT 1 - HS RESOURCES - NO SURVEYS	13,200.00	5,037.00	2,689.94	2,621.51	39.311	SF
BRETT 2 - HS RESOURCES WELL - NO SURVEYS	200.00	179.00	2,832.14	2,831.44	4,062.893	CC
BRETT 2 - HS RESOURCES WELL - NO SURVEYS	300.00	279.00	2,832.56	2,831.32	2,297.084	ES
BRETT 2 - HS RESOURCES WELL - NO SURVEYS	13,775.05	5,035.00	3,123.16	3,042.03	38.496	SF
BRETT 3 - KMG WELL - NO SURVEY	13,710.38	5,040.00	2,409.23	2,342.76	36.246	CC
BRETT 3 - KMG WELL - NO SURVEY	13,775.05	5,040.00	2,410.10	2,342.68	35.747	ES, SF
BRETT 4 - KMG WELL - GYRO	161.36	146.37	1,662.21	1,661.87	4,845.868	CC
BRETT 4 - KMG WELL - GYRO	200.00	177.22	1,662.30	1,661.84	3,573.576	ES
BRETT 4 - KMG WELL - GYRO	12,500.00	7,539.70	2,174.97	2,098.56	28.467	SF
DREW 1 - KMG WELL - GYRO	138.48	107.15	3,308.44	3,308.21	10,000.000	CC
DREW 1 - KMG WELL - GYRO	200.00	160.06	3,308.52	3,308.10	7,788.150	ES
DREW 1 - KMG WELL - GYRO	13,775.05	7,292.82	3,983.86	3,893.94	44.304	SF
DREW GAS UNIT-TRUE 1 - KMG WELL - GYRO	12,968.66	7,385.34	1,567.96	1,484.45	18.776	CC
DREW GAS UNIT-TRUE 1 - KMG WELL - GYRO	13,000.00	7,384.67	1,568.27	1,484.41	18.701	ES
DREW GAS UNIT-TRUE 1 - KMG WELL - GYRO	13,200.00	7,380.41	1,584.93	1,499.42	18.534	SF
FARNSWORTH 9-18A - KMG WELL - GYRO	11,978.22	7,334.69	581.73	510.89	8.211	CC, ES
FARNSWORTH 9-18A - KMG WELL - GYRO	12,000.00	7,334.94	582.14	511.11	8.196	SF
GTF RED V 6-16JI - KMG WELL - GYRO	7,505.96	6,427.79	4,843.95	4,805.74	126.772	CC, ES
GTF RED V 6-16JI - KMG WELL - GYRO	7,700.00	6,612.19	4,870.00	4,831.07	125.083	SF
GTF RED V 6-4D - KMG WELL - GYRO	7,485.93	6,400.00	5,563.78	5,521.97	133.053	CC, ES
GTF RED V 6-4D - KMG WELL - GYRO	7,700.00	6,587.52	5,594.55	5,551.96	131.348	SF
GTF RED V6-16 - KMG WELL - GYRO	7,504.49	6,427.10	4,895.44	4,856.88	126.927	CC, ES
GTF RED V6-16 - KMG WELL - GYRO	7,700.00	6,640.42	4,921.03	4,881.74	125.234	SF
HSR-OWEN 15-18A - KMG WELL - SURVEYS	100.00	85.24	1,612.80	1,612.63	9,830.560	CC
HSR-OWEN 15-18A - KMG WELL - SURVEYS	200.00	184.36	1,612.87	1,612.42	3,569.092	ES
HSR-OWEN 15-18A - KMG WELL - SURVEYS	13,775.05	7,760.91	2,179.60	2,068.24	19.572	SF
KUGEL 1 - EXTRACTION WELL - GYRO	3,222.17	2,923.09	545.12	529.45	34.791	CC, ES
KUGEL 1 - EXTRACTION WELL - GYRO	10,100.00	7,335.95	1,111.66	1,057.53	20.536	SF
KUGEL 1-18 - CPR WELL - GYRO	1,650.81	1,549.54	3,251.33	3,246.31	646.933	CC
KUGEL 1-18 - CPR WELL - GYRO	1,700.00	1,591.58	3,251.42	3,246.18	620.338	ES
KUGEL 1-18 - CPR WELL - GYRO	11,800.00	7,394.21	4,243.75	4,179.49	66.047	SF
KUGEL 12-18 - KMG WELL - GYRO	0.00	0.00	2,600.03			
KUGEL 12-18 - KMG WELL - GYRO	12,100.00	7,326.26	3,620.13	3,550.86	52.259	SF
KUGEL 1A-18H-H267 - OH - PLAN #3 (6.11)	772.22	766.70	80.48	77.94	31.714	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 KUGEL 1M-18H-H267 - Slot KUGEL 1M
Project:	DJ BASIN	TVD Reference:	23' KB @ 4976.00usft
Reference Site:	S18-T2N-R67W (KUGEL)	MD Reference:	23' KB @ 4976.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	KUGEL 1M-18H-H267	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 (6.11)	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						
S18-T2N-R67W (KUGEL)						
KUGEL 1A-18H-H267 - OH - PLAN #3 (6.11)	7,900.00	11,297.25	2,652.08	2,552.64	26.670	SF
KUGEL 1B-18H-H267 - OH - PLAN #3 (6.11)	810.06	804.44	64.63	61.97	24.279	CC, ES
KUGEL 1B-18H-H267 - OH - PLAN #3 (6.11)	900.00	887.46	71.74	68.74	23.901	SF
KUGEL 1C-18H-H267 - OH - PLAN #2 (6.11)	838.21	832.84	49.20	46.45	17.858	CC, ES, SF
KUGEL 1D-18H-H267 - OH - PLAN #2 (6.11)	855.66	850.91	34.36	31.55	12.226	CC, ES, SF
KUGEL 1E-18H-H267 - OH - PLAN #2 (6.11)	861.94	856.54	23.71	20.88	8.389	CC, ES, SF
KUGEL 1F-18H-H267 - OH - PLAN #2 (6.11)	648.84	647.59	34.75	32.67	16.703	CC, ES
KUGEL 1F-18H-H267 - OH - PLAN #2 (6.11)	700.00	696.19	37.76	35.48	16.555	SF
KUGEL 1G-18H-H267 - OH - PLAN #2 (6.11)	830.28	826.28	11.47	8.77	4.241	CC, ES, SF
KUGEL 1H-18H-H267 - OH - PLAN #3 (6.11)	596.20	596.30	16.68	14.80	8.856	CC, ES
KUGEL 1H-18H-H267 - OH - PLAN #3 (6.11)	600.00	599.99	16.71	14.81	8.805	SF
KUGEL 1I-18H-H267 - OH - PLAN #3 (6.11)	724.82	722.65	7.62	5.29	3.271	CC, ES, SF
KUGEL 1J-18H-H267 - OH - PLAN #2 (6.11)	476.10	476.77	8.89	7.43	6.086	CC, ES, SF
KUGEL 1K-18H-H267 - OH - PLAN #2 (6.11)	458.32	458.31	11.66	10.26	8.323	CC, ES
KUGEL 1K-18H-H267 - OH - PLAN #2 (6.11)	8,225.93	10,577.59	371.27	273.06	3.780	SF
KUGEL 1L-18H-H267 - OH - PLAN #2 (6.11)	797.77	796.82	2.88	0.27	1.103	Level 2, CC
KUGEL 1L-18H-H267 - OH - PLAN #2 (6.11)	800.00	799.04	2.88	0.26	1.099	Level 2, ES
KUGEL 1L-18H-H267 - OH - PLAN #2 (6.11)	7,600.00	7,582.25	91.20	3.95	1.045	Level 2, SF
KUGEL 1N-18H-H267 - OH - PLAN #2 (6.11)	476.93	472.43	3.21	1.75	2.204	CC, ES
KUGEL 1N-18H-H267 - OH - PLAN #2 (6.11)	13,775.05	13,452.99	259.58	100.14	1.628	SF
KUGEL 21-18 - CPR WELL - GYRO	3,298.44	2,977.15	2,937.14	2,920.81	179.887	CC
KUGEL 21-18 - CPR WELL - GYRO	3,400.00	3,072.49	2,937.56	2,920.30	170.146	ES
KUGEL 21-18 - CPR WELL - GYRO	10,300.00	7,330.16	3,542.03	3,487.29	64.700	SF
KUGEL 2-18 - CPR WELL - GYRO	2,067.00	1,930.30	446.60	438.86	57.737	CC, ES
KUGEL 2-18 - CPR WELL - GYRO	10,600.00	7,346.96	1,155.09	1,097.73	20.138	SF
KUGEL 22-18 - CPR WELL - GYRO	716.47	739.47	2,445.43	2,443.07	1,035.145	CC
KUGEL 22-18 - CPR WELL - GYRO	800.00	819.31	2,445.62	2,442.96	920.229	ES
KUGEL 22-18 - CPR WELL - GYRO	12,000.00	7,237.12	3,478.53	3,410.35	51.019	SF
KUGEL 31-18 - CPR WELL - GYRO	3,830.72	3,400.61	1,794.40	1,773.14	84.431	CC
KUGEL 31-18 - CPR WELL - GYRO	3,900.00	3,456.53	1,794.79	1,772.89	81.958	ES
KUGEL 31-18 - CPR WELL - GYRO	9,500.00	7,366.58	2,251.78	2,199.37	42.965	SF
KUGEL 32-18 - EXTRACTION WELL - NO SURVEYS	780.74	770.71	1,273.01	1,269.16	330.651	CC
KUGEL 32-18 - EXTRACTION WELL - NO SURVEYS	900.00	887.44	1,273.24	1,268.75	283.476	ES
KUGEL 32-18 - EXTRACTION WELL - NO SURVEYS	12,200.00	5,018.00	3,324.42	3,259.18	50.953	SF
KUGEL 41-18 - CPR WELL - GYRO	4,441.19	3,932.44	184.70	157.64	6.826	CC, ES
KUGEL 41-18 - CPR WELL - GYRO	4,500.00	3,983.13	187.12	159.61	6.803	SF
KUGEL 42-18 - CPR WELL - GYRO	1,009.88	986.00	199.17	195.82	59.501	CC, ES
KUGEL 42-18 - CPR WELL - GYRO	11,200.00	7,353.18	627.57	564.99	10.028	SF
KUGEL V18-3 - KMG WELL - GYRO	3,179.18	2,856.37	2,960.83	2,945.59	194.344	CC
KUGEL V18-3 - KMG WELL - GYRO	3,300.00	2,963.47	2,961.42	2,945.09	181.398	ES
KUGEL V18-3 - KMG WELL - GYRO	10,500.00	7,266.46	3,621.81	3,566.23	65.163	SF
LINCOLN 2 - LINCOLN 2 - HS RESOURCES WELL	200.00	172.00	2,917.02	2,916.36	4,382.482	CC
LINCOLN 2 - LINCOLN 2 - HS RESOURCES WELL	300.00	272.00	2,917.28	2,916.08	2,432.114	ES
LINCOLN 2 - LINCOLN 2 - HS RESOURCES WELL	13,775.05	5,010.00	4,308.99	4,222.05	49.562	SF
LISA 1 - KMG WELL - GYRO	202.00	176.50	2,760.16	2,759.71	6,035.894	CC
LISA 1 - KMG WELL - GYRO	300.00	271.70	2,760.43	2,759.64	3,471.840	ES
LISA 1 - KMG WELL - GYRO	13,200.00	7,331.06	3,580.41	3,497.72	43.299	SF
LISA 2 - KMG WELL - GYRO	216.33	197.80	3,377.00	3,376.48	6,441.127	CC
LISA 2 - KMG WELL - GYRO	13,400.00	7,314.95	3,414.27	3,325.29	38.372	ES
LISA 2 - KMG WELL - GYRO	13,775.05	7,307.98	3,443.69	3,350.48	36.945	SF
ROCKY MOUNTAIN FUEL 12 - HS RESOURCES WELL	13,775.05	5,100.00	3,261.71	3,184.72	42.368	CC, ES, SF
ROCKY MTN FUEL D 8 - HS RESOURCES WELL - NO	13,775.05	5,026.00	4,036.32	3,952.79	48.326	CC, ES, SF
STREAR V 06-23D - KMG WELL - GYRO	7,504.68	6,564.68	5,836.96	5,796.54	144.398	CC, ES

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Cathedral Energy Services

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STREAR V 06-23D - KMG WELL - GYRO	7,700.00	6,792.00	5,862.34	5,821.22	142.551	SF
STREAR V 06-63HN - KMG WELL - SURVEYS	7,525.34	6,595.02	5,229.04	5,180.45	107.604	CC, ES
STREAR V 06-63HN - KMG WELL - SURVEYS	7,800.00	6,703.00	5,285.05	5,235.34	106.306	SF
WANDELL 1 - CPR WELL - GYRO	7,501.19	6,527.75	3,518.67	3,477.58	85.631	CC, ES
WANDELL 1 - CPR WELL - GYRO	7,700.00	6,721.54	3,545.71	3,503.85	84.713	SF
WANDELL 21-7 - CPR WELL - GYRO	7,454.79	6,463.22	4,572.87	4,523.92	93.410	CC, ES
WANDELL 21-7 - CPR WELL - GYRO	7,700.00	6,708.48	4,604.39	4,554.57	92.425	SF
WANDELL 22-7 - CPR WELL - SURVEYS	7,424.17	6,760.72	3,745.17	3,683.42	60.650	CC, ES
WANDELL 22-7 - CPR WELL - SURVEYS	7,600.00	6,932.87	3,758.93	3,696.50	60.210	SF
WANDELL 24-7 - CPR WELL - SURVEYS	3,026.77	2,537.56	2,958.63	2,941.38	171.564	CC
WANDELL 24-7 - CPR WELL - SURVEYS	4,500.00	4,023.77	2,976.30	2,939.96	81.905	ES
WANDELL 24-7 - CPR WELL - SURVEYS	8,000.00	7,183.97	3,255.58	3,184.81	46.000	SF
WANDELL 31-7 - CPR WELL - SURVEYS	7,482.89	6,606.19	4,254.10	4,196.15	73.410	CC, ES
WANDELL 31-7 - CPR WELL - SURVEYS	7,700.00	6,879.25	4,282.15	4,223.01	72.411	SF
WANDELL 32-7 - CPR WELL - GYRO	7,452.73	6,456.83	3,056.65	3,008.58	63.577	CC, ES
WANDELL 32-7 - CPR WELL - GYRO	7,600.00	6,592.73	3,069.07	3,020.32	62.945	SF
WANDELL 33-7 - CPR WELL - SURVEYS	7,415.82	6,681.09	2,192.94	2,122.02	30.921	CC, ES
WANDELL 33-7 - CPR WELL - SURVEYS	7,600.00	6,856.00	2,205.42	2,133.39	30.622	SF
WANDELL 34-7 - CPR WELL - GYRO	4,986.72	4,427.28	1,803.31	1,770.69	55.269	CC
WANDELL 34-7 - CPR WELL - GYRO	5,100.00	4,528.84	1,803.71	1,769.93	53.402	ES
WANDELL 34-7 - CPR WELL - GYRO	8,100.00	7,249.05	2,049.47	1,994.28	37.134	SF
WANDELL 4-0-7 - CPR WELL - SURVEYS	7,479.78	6,786.27	5,011.52	4,941.60	71.673	CC, ES
WANDELL 4-0-7 - CPR WELL - SURVEYS	7,600.00	6,904.68	5,020.31	4,949.98	71.382	SF
WANDELL 41-7 - CPR WELL - SURVEYS	7,512.17	6,596.42	3,880.36	3,841.73	100.446	CC, ES
WANDELL 41-7 - CPR WELL - SURVEYS	7,700.00	6,765.72	3,905.33	3,865.98	99.249	SF
WANDELL 42-7 - CPR WELL - SURVEYS	7,513.89	6,739.30	2,347.96	2,295.36	44.641	CC, ES
WANDELL 42-7 - CPR WELL - SURVEYS	7,700.00	6,916.51	2,371.75	2,318.14	44.246	SF
WANDELL 43-7 - CPR WELL - SURVEYS	7,497.70	6,958.33	1,171.69	1,110.87	19.266	CC
WANDELL 43-7 - CPR WELL - SURVEYS	7,500.00	6,960.37	1,171.69	1,110.86	19.261	ES
WANDELL 43-7 - CPR WELL - SURVEYS	7,600.00	7,052.30	1,178.26	1,116.86	19.190	SF
WANDELL 4-4-7 - CPR WELL - SURVEYS	7,408.85	6,825.12	3,106.47	3,044.62	50.229	CC, ES
WANDELL 4-4-7 - CPR WELL - SURVEYS	7,600.00	7,010.71	3,120.20	3,057.60	49.842	SF
WANDELL 4-6-7 - CPR WELL - SURVEYS	2,488.23	1,708.69	2,136.18	2,124.18	178.109	CC
WANDELL 4-6-7 - CPR WELL - SURVEYS	2,500.00	1,716.67	2,136.19	2,124.10	176.756	ES
WANDELL 4-6-7 - CPR WELL - SURVEYS	7,500.00	6,924.60	2,354.14	2,274.81	29.677	SF
WANDELL 6-0-7 - CPR WELL - SURVEYS	7,504.91	6,650.06	4,514.00	4,460.30	84.071	CC, ES
WANDELL 6-0-7 - CPR WELL - SURVEYS	7,700.00	6,872.03	4,538.89	4,484.19	82.975	SF
WANDELL 6-4-7 - CPR WELL - SURVEYS	7,469.42	6,918.92	1,969.03	1,900.00	28.522	CC, ES
WANDELL 6-4-7 - CPR WELL - SURVEYS	7,600.00	7,045.99	1,978.53	1,908.69	28.328	SF
WANDELL 6-8-7 - CPR WELL - SURVEYS	5,321.68	4,880.77	1,041.71	994.76	22.187	CC, ES
WANDELL 6-8-7 - CPR WELL - SURVEYS	8,900.00	7,452.71	1,337.01	1,269.55	19.820	SF
WANDELL 8-2-7 - CPR WELL - SURVEYS	7,527.91	6,730.43	2,976.49	2,921.62	54.251	CC, ES
WANDELL 8-2-7 - CPR WELL - SURVEYS	7,700.00	6,891.49	2,997.53	2,941.91	53.889	SF
WANDELL 8-4-7 - CPR WELL - SURVEYS	7,520.97	6,947.76	1,763.41	1,707.09	31.311	CC, ES
WANDELL 8-4-7 - CPR WELL - SURVEYS	7,600.00	7,024.55	1,767.83	1,711.16	31.196	SF
WANDELL E UNIT 1 - CPR WELL - NO SURVEYS	7,027.12	6,135.03	831.37	776.41	15.128	CC, ES
WANDELL E UNIT 1 - CPR WELL - NO SURVEYS	7,300.00	6,375.43	844.93	787.74	14.776	SF

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

Cathedral Energy Services

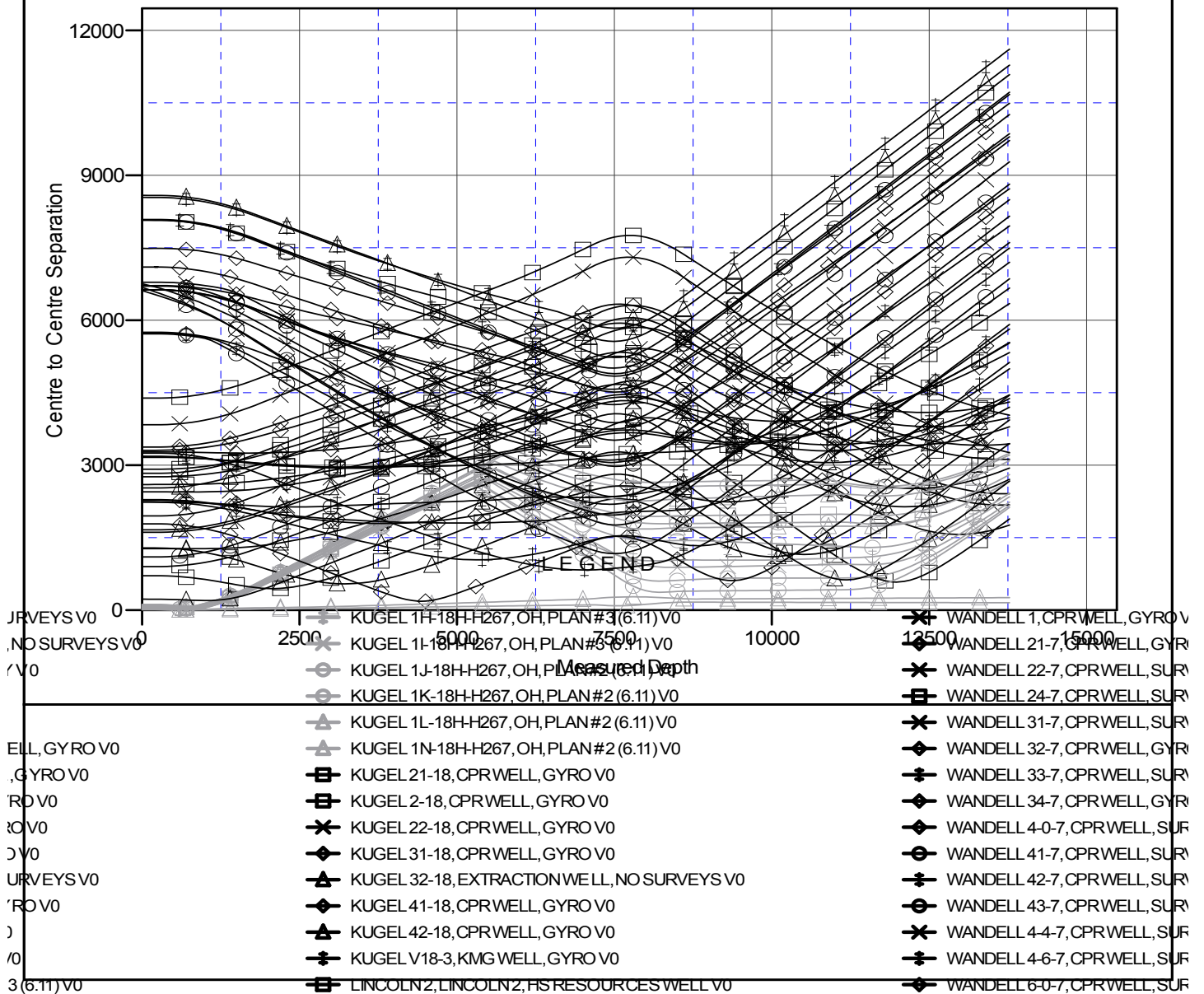
Anticollision Summary Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well KUGEL 1M-18H-H267 - Slot KUGEL 1M
Project:	DJ BASIN	TVD Reference:	23' KB @ 4976.00usft
Reference Site:	S18-T2N-R67W (KUGEL)	MD Reference:	23' KB @ 4976.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	KUGEL 1M-18H-H267	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 (6.11)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 23' KB @ 4976.00usft
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000

Coordinates are relative to: KUGEL 1M-18H-H267 - Slot KUGEL 1M
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.37°

Ladder Plot



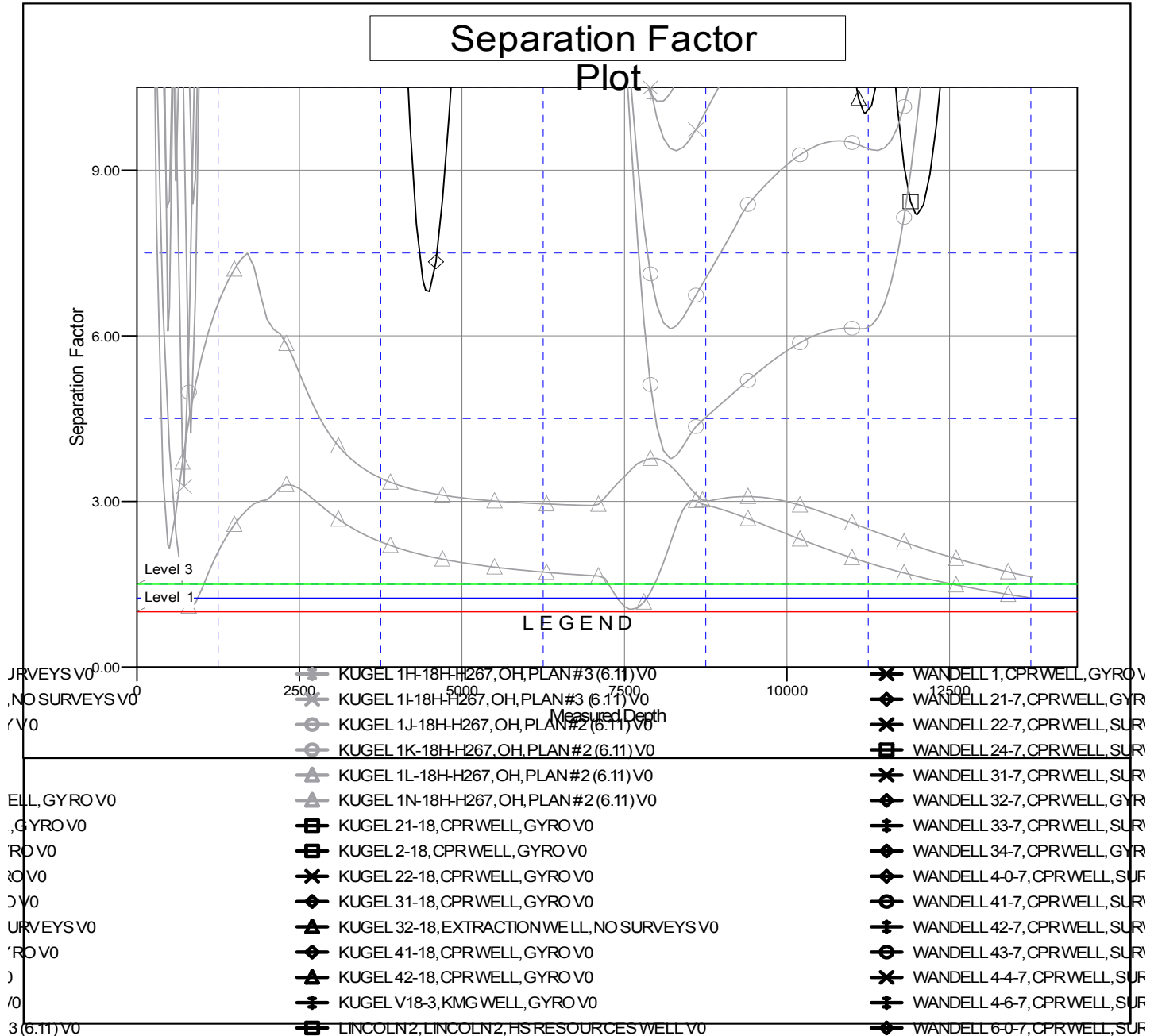
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Cathedral Energy Services
Anticollision Summary Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well KUGEL 1M-18H-H267 - Slot KUGEL 1M
Project:	DJ BASIN	TVD Reference:	23' KB @ 4976.00usft
Reference Site:	S18-T2N-R67W (KUGEL)	MD Reference:	23' KB @ 4976.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	KUGEL 1M-18H-H267	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 (6.11)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 23' KB @ 4976.00usft
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000

Coordinates are relative to: KUGEL 1M-18H-H267 - Slot KUGEL 1M
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.37°



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