

Crestone Peak Resources

DJ BASIN

S18-T2N-R67W (KUGEL)

KUGEL 1N-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 1N-18H-H267 - Slot KUGEL 1N
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 1N-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	13,455.49	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	100.00	91.00	1,093.18	1,092.98	5,406.588	CC
BRETT 1 - HS RESOURCES - NO SURVEYS	200.00	191.00	1,093.62	1,092.90	1,518.948	ES
BRETT 1 - HS RESOURCES - NO SURVEYS	12,900.00	5,037.00	2,736.72	2,669.64	40.801	SF
BRETT 2 - HS RESOURCES WELL - NO SURVEYS	100.00	79.00	2,823.40	2,823.20	10,000.000	CC
BRETT 2 - HS RESOURCES WELL - NO SURVEYS	200.00	179.00	2,823.82	2,823.12	4,047.335	ES
BRETT 2 - HS RESOURCES WELL - NO SURVEYS	13,455.49	5,035.00	3,245.43	3,164.97	40.339	SF
BRETT 3 - KMG WELL - NO SURVEY	13,384.30	5,040.00	2,419.17	2,353.23	36.691	CC
BRETT 3 - KMG WELL - NO SURVEY	13,400.00	5,040.00	2,419.22	2,353.06	36.569	ES
BRETT 3 - KMG WELL - NO SURVEY	13,455.49	5,040.00	2,420.21	2,353.28	36.161	SF
BRETT 4 - KMG WELL - GYRO	128.98	120.46	1,656.46	1,656.22	6,869.853	CC, ES
BRETT 4 - KMG WELL - GYRO	12,300.00	7,500.00	2,442.42	2,367.96	32.803	SF
DREW 1 - KMG WELL - GYRO	101.65	71.24	3,304.28	3,304.15	10,000.000	CC, ES
DREW 1 - KMG WELL - GYRO	13,455.49	7,214.32	4,222.38	4,135.13	48.396	SF
DREW GAS UNIT-TRUE 1 - KMG WELL - GYRO	12,638.60	7,306.67	1,813.93	1,733.44	22.536	CC, ES
DREW GAS UNIT-TRUE 1 - KMG WELL - GYRO	12,900.00	7,300.62	1,832.66	1,749.80	22.118	SF
FARNSWORTH 9-18A - KMG WELL - GYRO	11,651.77	7,259.87	820.77	753.06	12.122	CC, ES
FARNSWORTH 9-18A - KMG WELL - GYRO	11,700.00	7,260.38	822.18	754.09	12.074	SF
GTF RED V 6-16JI - KMG WELL - GYRO	7,362.55	6,361.65	5,045.30	5,006.70	130.711	CC, ES
GTF RED V 6-16JI - KMG WELL - GYRO	7,600.00	6,577.30	5,084.61	5,045.06	128.541	SF
GTF RED V 6-4D - KMG WELL - GYRO	7,337.02	6,321.78	5,795.87	5,753.85	137.930	CC, ES
GTF RED V 6-4D - KMG WELL - GYRO	7,600.00	6,549.92	5,841.70	5,798.66	135.747	SF
GTF RED V6-16 - KMG WELL - GYRO	7,359.66	6,352.78	5,100.48	5,061.51	130.905	CC, ES
GTF RED V6-16 - KMG WELL - GYRO	7,600.00	6,604.35	5,139.79	5,099.85	128.678	SF
HSR-OWEN 15-18A - KMG WELL - SURVEYS	100.00	85.23	1,606.86	1,606.70	9,795.548	CC, ES
HSR-OWEN 15-18A - KMG WELL - SURVEYS	13,455.49	7,686.92	2,429.52	2,320.91	22.369	SF
KUGEL 1 - EXTRACTION WELL - GYRO	3,126.12	2,844.73	624.55	609.85	42.490	CC, ES
KUGEL 1 - EXTRACTION WELL - GYRO	9,800.00	7,258.19	1,340.03	1,288.79	26.151	SF
KUGEL 1-18 - CPR WELL - GYRO	1,180.16	1,138.18	3,270.78	3,267.58	1,021.717	CC
KUGEL 1-18 - CPR WELL - GYRO	1,200.00	1,155.55	3,270.79	3,267.52	998.394	ES
KUGEL 1-18 - CPR WELL - GYRO	11,800.00	7,177.74	4,593.58	4,530.33	72.623	SF
KUGEL 12-18 - KMG WELL - GYRO	0.00	0.00	2,601.16			
KUGEL 12-18 - KMG WELL - GYRO	12,000.00	7,253.82	3,921.84	3,853.97	57.785	SF
KUGEL 1A-18H-H267 - OH - PLAN #3 (6.11)	743.70	736.41	81.16	78.71	33.226	CC, ES
KUGEL 1A-18H-H267 - OH - PLAN #3 (6.11)	7,700.00	11,146.92	2,871.51	2,777.12	30.423	SF
KUGEL 1B-18H-H267 - OH - PLAN #3 (6.11)	775.45	768.13	65.86	63.31	25.855	CC, ES
KUGEL 1B-18H-H267 - OH - PLAN #3 (6.11)	800.00	790.89	66.40	63.76	25.163	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 1N-18H-H267 - Slot KUGEL 1N
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 1N-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 1C-18H-H267 - OH - PLAN #2 (6.11)	798.42	791.43	51.31	48.68	19.563	CC
KUGEL 1C-18H-H267 - OH - PLAN #2 (6.11)	800.00	792.90	51.31	48.68	19.521	ES, SF
KUGEL 1D-18H-H267 - OH - PLAN #2 (6.11)	812.01	805.69	37.81	35.14	14.187	CC, ES, SF
KUGEL 1E-18H-H267 - OH - PLAN #2 (6.11)	814.62	807.81	28.24	25.57	10.581	CC, ES, SF
KUGEL 1F-18H-H267 - OH - PLAN #2 (6.11)	627.63	625.18	37.23	35.22	18.519	CC, ES, SF
KUGEL 1G-18H-H267 - OH - PLAN #2 (6.11)	773.78	768.87	17.93	15.42	7.121	CC, ES, SF
KUGEL 1H-18H-H267 - OH - PLAN #3 (6.11)	578.56	577.77	20.27	18.44	11.086	CC, ES
KUGEL 1H-18H-H267 - OH - PLAN #3 (6.11)	600.00	598.42	21.06	19.15	11.023	SF
KUGEL 1I-18H-H267 - OH - PLAN #3 (6.11)	676.92	673.96	12.81	10.64	5.905	CC, ES, SF
KUGEL 1J-18H-H267 - OH - PLAN #2 (6.11)	475.25	475.44	12.04	10.58	8.242	CC, ES, SF
KUGEL 1K-18H-H267 - OH - PLAN #2 (6.11)	478.92	478.46	8.98	7.50	6.070	CC, ES, SF
KUGEL 1L-18H-H267 - OH - PLAN #2 (6.11)	573.07	571.80	6.35	4.55	3.518	CC, ES
KUGEL 1L-18H-H267 - OH - PLAN #2 (6.11)	13,455.49	13,893.73	372.41	223.05	2.493	SF
KUGEL 1M-18H-H267 - OH - PLAN #2 (6.11)	463.24	462.77	3.13	1.71	2.211	CC, ES
KUGEL 1M-18H-H267 - OH - PLAN #2 (6.11)	13,455.49	13,775.05	260.98	101.93	1.641	SF
KUGEL 21-18 - CPR WELL - GYRO	2,972.64	2,725.21	3,015.17	3,001.76	224.723	CC
KUGEL 21-18 - CPR WELL - GYRO	3,000.00	2,746.64	3,015.22	3,001.58	221.081	ES
KUGEL 21-18 - CPR WELL - GYRO	10,300.00	7,200.00	3,853.10	3,799.94	72.478	SF
KUGEL 2-18 - CPR WELL - GYRO	1,931.97	1,802.09	484.29	476.95	65.926	CC, ES
KUGEL 2-18 - CPR WELL - GYRO	10,400.00	7,261.66	1,397.94	1,343.01	25.449	SF
KUGEL 22-18 - CPR WELL - GYRO	510.21	543.16	2,449.93	2,448.28	1,485.350	CC, ES
KUGEL 22-18 - CPR WELL - GYRO	11,900.00	7,143.53	3,776.54	3,709.86	56.638	SF
KUGEL 31-18 - CPR WELL - GYRO	3,530.83	3,141.59	1,891.23	1,873.01	103.828	CC
KUGEL 31-18 - CPR WELL - GYRO	3,600.00	3,200.00	1,891.57	1,872.74	100.414	ES
KUGEL 31-18 - CPR WELL - GYRO	9,200.00	7,285.34	2,477.65	2,427.84	49.737	SF
KUGEL 32-18 - EXTRACTION WELL - NO SURVEYS	100.00	93.00	1,276.27	1,276.05	5,698.720	CC
KUGEL 32-18 - EXTRACTION WELL - NO SURVEYS	500.00	492.13	1,276.91	1,274.56	543.614	ES
KUGEL 32-18 - EXTRACTION WELL - NO SURVEYS	12,000.00	5,018.00	3,471.23	3,407.26	54.262	SF
KUGEL 41-18 - CPR WELL - GYRO	4,422.26	3,931.31	308.38	281.94	11.666	CC, ES
KUGEL 41-18 - CPR WELL - GYRO	4,500.00	3,999.35	310.71	283.60	11.460	SF
KUGEL 42-18 - CPR WELL - GYRO	987.73	960.66	190.41	187.13	58.007	CC
KUGEL 42-18 - CPR WELL - GYRO	1,000.00	972.36	190.45	187.12	57.254	ES
KUGEL 42-18 - CPR WELL - GYRO	10,900.00	7,277.74	863.95	804.38	14.505	SF
KUGEL V18-3 - KMG WELL - GYRO	2,918.38	2,685.86	3,035.47	3,022.47	233.578	CC
KUGEL V18-3 - KMG WELL - GYRO	3,000.00	2,733.70	3,035.92	3,022.30	222.802	ES
KUGEL V18-3 - KMG WELL - GYRO	10,500.00	7,200.00	3,941.73	3,887.51	72.700	SF
LINCOLN 2 - LINCOLN 2 - HS RESOURCES WELL	100.00	72.00	2,912.76	2,912.57	10,000.000	CC
LINCOLN 2 - LINCOLN 2 - HS RESOURCES WELL	200.00	172.00	2,913.04	2,912.37	4,373.982	ES
LINCOLN 2 - LINCOLN 2 - HS RESOURCES WELL	13,455.49	5,010.00	4,469.61	4,384.80	52.701	SF
LISA 1 - KMG WELL - GYRO	117.31	96.09	2,756.80	2,756.63	10,000.000	CC
LISA 1 - KMG WELL - GYRO	200.00	174.61	2,756.95	2,756.50	6,115.213	ES
LISA 1 - KMG WELL - GYRO	13,000.00	7,252.07	3,852.90	3,772.09	47.676	SF
LISA 2 - KMG WELL - GYRO	120.44	105.49	3,370.85	3,370.66	10,000.000	CC
LISA 2 - KMG WELL - GYRO	200.00	181.96	3,370.96	3,370.49	7,202.845	ES
LISA 2 - KMG WELL - GYRO	13,455.49	7,233.91	3,691.24	3,600.85	40.840	SF
ROCKY MOUNTAIN FUEL 12 - HS RESOURCES WELL	13,455.49	5,100.00	3,383.50	3,305.88	43.588	CC, ES, SF
ROCKY MTN FUEL D 8 - HS RESOURCES WELL - NO	13,455.49	5,026.00	4,192.68	4,109.53	50.423	CC, ES, SF
STREAR V 06-23D - KMG WELL - GYRO	7,355.61	6,466.28	6,055.87	6,015.12	148.632	CC, ES
STREAR V 06-23D - KMG WELL - GYRO	7,600.00	6,750.14	6,095.25	6,053.53	146.124	SF
STREAR V 06-63HN - KMG WELL - SURVEYS	7,371.14	6,416.68	5,410.37	5,361.85	111.516	CC, ES
STREAR V 06-63HN - KMG WELL - SURVEYS	7,600.00	6,639.00	5,446.13	5,396.34	109.381	SF
WANDELL 1 - CPR WELL - GYRO	7,353.32	6,458.51	3,746.92	3,705.31	90.054	CC, ES
WANDELL 1 - CPR WELL - GYRO	7,600.00	6,671.35	3,788.31	3,745.69	88.874	SF

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Cathedral Energy Services

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S18-T2N-R67W (KUGEL)						
WANDELL 21-7 - CPR WELL - GYRO	7,293.85	6,367.55	4,832.76	4,784.63	100.406	CC
WANDELL 21-7 - CPR WELL - GYRO	7,300.00	6,374.16	4,832.78	4,784.61	100.318	ES
WANDELL 21-7 - CPR WELL - GYRO	7,500.00	6,584.17	4,855.23	4,806.18	98.968	SF
WANDELL 22-7 - CPR WELL - SURVEYS	7,259.33	6,669.80	4,004.51	3,944.11	66.299	CC, ES
WANDELL 22-7 - CPR WELL - SURVEYS	7,500.00	6,899.14	4,030.90	3,969.54	65.693	SF
WANDELL 24-7 - CPR WELL - SURVEYS	2,617.51	2,239.41	3,022.95	3,009.63	226.939	CC
WANDELL 24-7 - CPR WELL - SURVEYS	2,700.00	2,297.00	3,023.28	3,009.26	215.613	ES
WANDELL 24-7 - CPR WELL - SURVEYS	7,600.00	6,889.71	3,422.28	3,354.26	50.312	SF
WANDELL 31-7 - CPR WELL - SURVEYS	7,324.09	6,481.82	4,499.19	4,441.52	78.010	CC, ES
WANDELL 31-7 - CPR WELL - SURVEYS	7,600.00	6,842.78	4,543.91	4,484.59	76.610	SF
WANDELL 32-7 - CPR WELL - GYRO	7,296.43	6,376.89	3,314.33	3,266.82	69.769	CC
WANDELL 32-7 - CPR WELL - GYRO	7,300.00	6,380.33	3,314.33	3,266.80	69.731	ES
WANDELL 32-7 - CPR WELL - GYRO	7,500.00	6,556.35	3,338.05	3,289.61	68.910	SF
WANDELL 33-7 - CPR WELL - SURVEYS	7,253.44	6,605.85	2,448.00	2,379.27	35.616	CC, ES
WANDELL 33-7 - CPR WELL - SURVEYS	7,500.00	6,832.77	2,472.22	2,401.99	35.201	SF
WANDELL 34-7 - CPR WELL - GYRO	4,023.02	3,507.74	1,932.25	1,909.63	85.408	CC
WANDELL 34-7 - CPR WELL - GYRO	4,200.00	3,669.91	1,933.15	1,908.83	79.489	ES
WANDELL 34-7 - CPR WELL - GYRO	7,300.00	6,585.97	2,167.67	2,115.69	41.697	SF
WANDELL 4-0-7 - CPR WELL - SURVEYS	7,325.60	6,706.94	5,263.98	5,194.20	75.444	CC, ES
WANDELL 4-0-7 - CPR WELL - SURVEYS	7,500.00	6,869.72	5,282.46	5,212.04	75.022	SF
WANDELL 41-7 - CPR WELL - SURVEYS	7,369.87	6,543.23	4,084.54	4,045.37	104.267	CC, ES
WANDELL 41-7 - CPR WELL - SURVEYS	7,600.00	6,725.43	4,122.40	4,082.28	102.751	SF
WANDELL 42-7 - CPR WELL - SURVEYS	7,362.54	6,655.13	2,569.36	2,516.07	48.215	CC, ES
WANDELL 42-7 - CPR WELL - SURVEYS	7,500.00	6,790.90	2,582.09	2,527.91	47.658	SF
WANDELL 43-7 - CPR WELL - SURVEYS	7,343.29	6,889.76	1,429.89	1,369.10	23.522	CC, ES
WANDELL 43-7 - CPR WELL - SURVEYS	7,400.00	6,938.98	1,431.89	1,370.71	23.402	SF
WANDELL 4-4-7 - CPR WELL - SURVEYS	7,239.11	6,728.07	3,361.57	3,301.45	55.909	CC, ES
WANDELL 4-4-7 - CPR WELL - SURVEYS	7,400.00	6,884.29	3,371.80	3,310.88	55.347	SF
WANDELL 4-6-7 - CPR WELL - SURVEYS	2,008.64	1,314.41	2,156.15	2,147.04	236.641	CC, ES
WANDELL 4-6-7 - CPR WELL - SURVEYS	7,400.00	6,889.99	2,580.15	2,503.34	33.592	SF
WANDELL 6-0-7 - CPR WELL - SURVEYS	7,355.52	6,568.93	4,742.70	4,688.73	87.876	CC, ES
WANDELL 6-0-7 - CPR WELL - SURVEYS	7,600.00	6,831.20	4,781.95	4,726.64	86.463	SF
WANDELL 6-4-7 - CPR WELL - SURVEYS	7,310.95	6,836.01	2,228.96	2,160.37	32.498	CC, ES
WANDELL 6-4-7 - CPR WELL - SURVEYS	7,500.00	7,014.96	2,248.96	2,179.20	32.241	SF
WANDELL 6-8-7 - CPR WELL - SURVEYS	5,259.41	4,860.85	1,189.48	1,143.52	25.878	CC
WANDELL 6-8-7 - CPR WELL - SURVEYS	5,300.00	4,892.54	1,189.71	1,143.40	25.690	ES
WANDELL 6-8-7 - CPR WELL - SURVEYS	8,600.00	7,377.57	1,558.08	1,492.87	23.895	SF
WANDELL 8-2-7 - CPR WELL - SURVEYS	7,382.38	6,652.00	3,162.09	3,107.04	57.440	CC, ES
WANDELL 8-2-7 - CPR WELL - SURVEYS	7,600.00	6,851.55	3,195.35	3,139.26	56.972	SF
WANDELL 8-4-7 - CPR WELL - SURVEYS	7,373.40	6,872.39	1,954.77	1,898.69	34.860	CC, ES
WANDELL 8-4-7 - CPR WELL - SURVEYS	7,500.00	6,990.96	1,966.21	1,909.51	34.675	SF
WANDELL E UNIT 1 - CPR WELL - NO SURVEYS	7,012.75	6,171.92	1,044.41	990.57	19.399	CC, ES
WANDELL E UNIT 1 - CPR WELL - NO SURVEYS	7,300.00	6,439.39	1,063.78	1,007.77	18.993	SF

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

Cathedral Energy Services

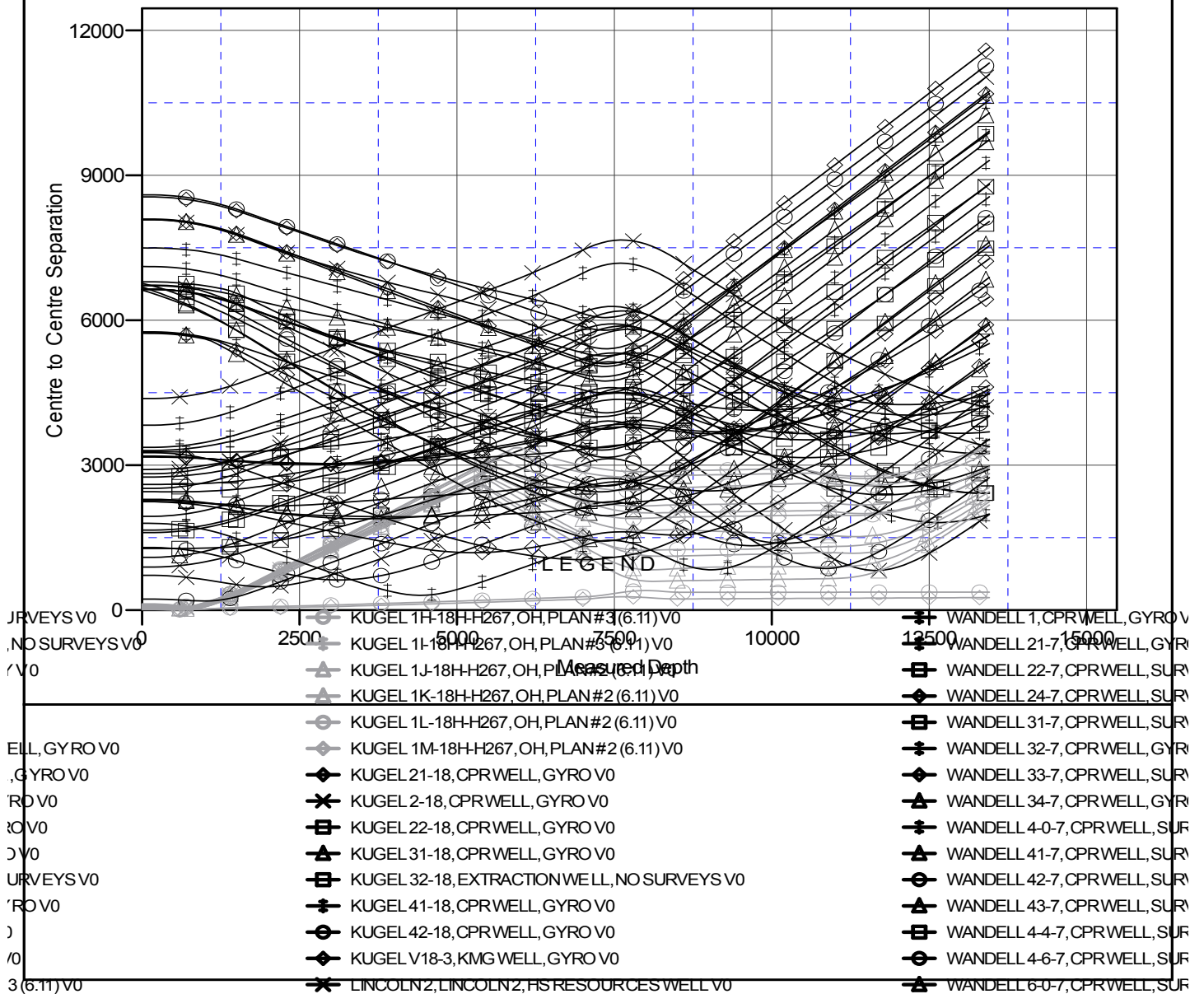
Anticollision Summary Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well KUGEL 1N-18H-H267 - Slot KUGEL 1N
Project:	DJ BASIN	TVD Reference:	23' KB @ 4976.00usft
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Reference Well:	KUGEL 1N-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 1N-18H-H267 - Slot KUGEL 1N
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.37°

Ladder Plot

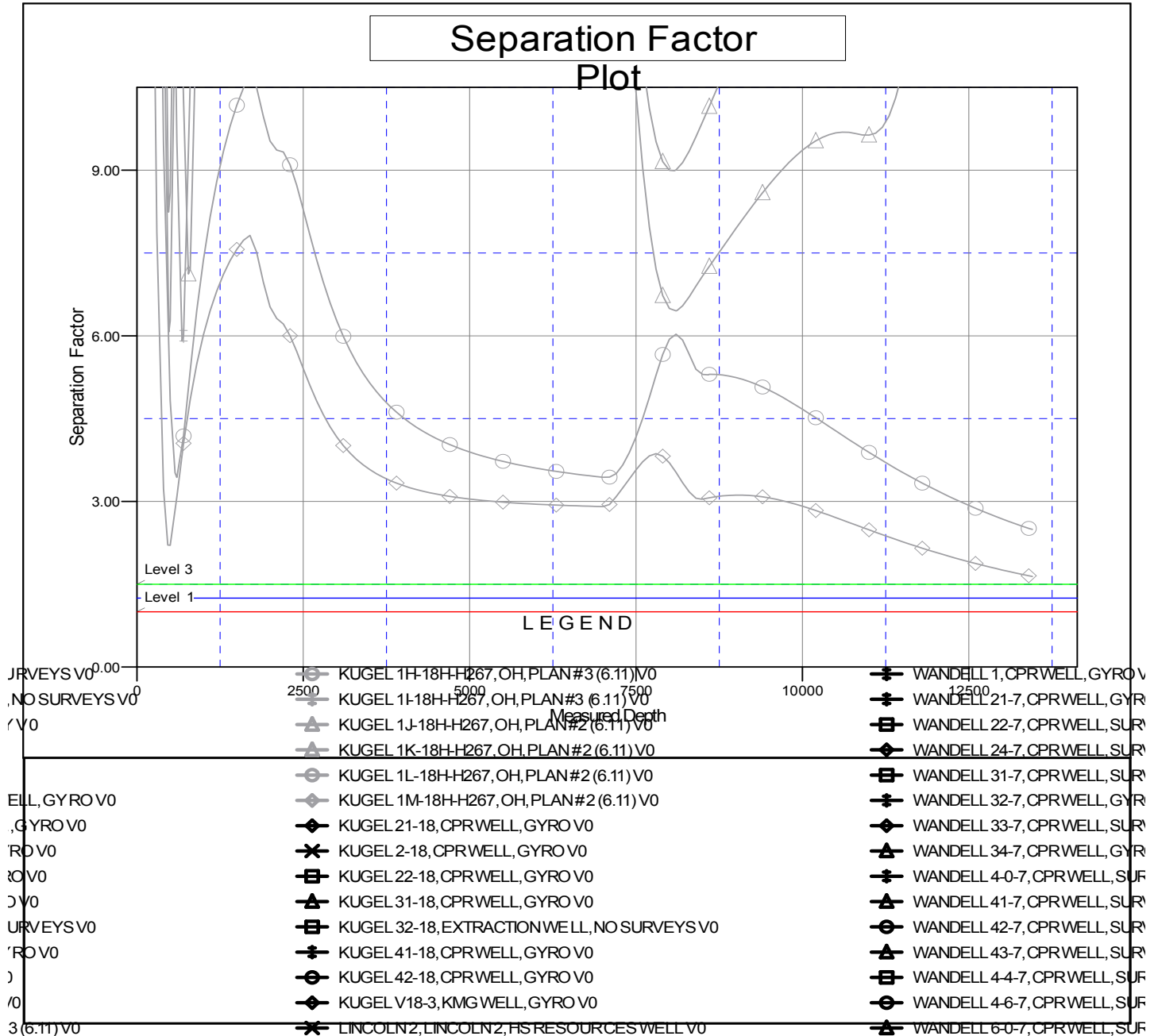


Cathedral Energy Services
Anticollision Summary Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well KUGEL 1N-18H-H267 - Slot KUGEL 1N
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 1N-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 1N-18H-H267 - Slot KUGEL 1N
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.37°



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