



Crestone Peak Resources

Sec 4 T2N-R67W

Sheley Pad

SHELEY 3D-4H-M267

Wellbore #1

Plan #3 25Jun18 kjs

Anticollision Summary Report

29 June, 2018

Anticollision Summary Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SHELEY 3D-4H-M267
Project:	Sec 4 T2N-R67W	TVD Reference:	WELL @ 4932.00usft (Original Well Elev)
Reference Site:	Sheley Pad	MD Reference:	WELL @ 4932.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SHELEY 3D-4H-M267	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #3 25Jun18 kjs	Offset TVD Reference:	Offset Datum

Reference	Plan #3 25Jun18 kjs		
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 9,999.98 usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	6/29/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	12,613.32	Plan #3 25Jun18 kjs (Wellbore #1)	MWD	OWSG MWD - Standard

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						
Existing Wells (Sheley)						
AMES 1 - ENERGY MIN - No Survey	12,613.32	5,030.00	2,756.53	2,684.68	38.369	CC, ES, SF
BABCOCK 11N-33HZ - KMG - MWD	9,674.58	7,033.42	667.74	584.62	8.033	CC
BABCOCK 11N-33HZ - KMG - MWD	9,700.00	7,032.91	668.23	584.51	7.982	ES
BABCOCK 11N-33HZ - KMG - MWD	9,800.00	7,030.87	679.41	593.70	7.927	SF
BABCOCK 12N-33HZ - KMG - KMG	8,600.44	7,149.00	628.53	558.57	8.984	CC, ES
BABCOCK 12N-33HZ - KMG - KMG	8,700.00	7,149.00	636.37	563.77	8.765	SF
BABCOCK 13E-33HZ - KMG - MWD	8,770.03	7,150.00	619.48	547.52	8.608	CC
BABCOCK 13E-33HZ - KMG - MWD	8,800.00	7,150.00	620.21	547.40	8.519	ES
BABCOCK 13E-33HZ - KMG - MWD	8,900.00	7,150.00	632.97	557.60	8.398	SF
BABCOCK 14C-33HZ - KMG - MWD	10,038.42	7,085.72	640.04	546.20	6.821	CC, ES
BABCOCK 14C-33HZ - KMG - MWD	10,100.00	7,085.33	643.00	547.97	6.767	SF
BABCOCK 19N-33HZ - KMG - MWD	9,019.63	7,058.00	677.35	604.86	9.344	CC, ES
BABCOCK 19N-33HZ - KMG - MWD	9,200.00	7,058.00	700.95	623.97	9.106	SF
BABCOCK 22N-33HZ - KMG - MWD	9,471.91	7,058.00	677.02	595.97	8.353	CC
BABCOCK 22N-33HZ - KMG - MWD	9,500.00	7,058.00	677.61	595.83	8.286	ES
BABCOCK 22N-33HZ - KMG - MWD	9,600.00	7,058.00	689.04	605.02	8.202	SF
BABCOCK 23N-33HZ - KMG - MWD	10,269.51	6,974.00	721.21	627.10	7.663	CC, ES
BABCOCK 23N-33HZ - KMG - MWD	10,300.00	6,974.00	721.86	627.18	7.624	SF
BABCOCK 32N-33HZ - KMG - MWD	8,091.51	7,277.83	592.26	521.89	8.417	CC
BABCOCK 32N-33HZ - KMG - MWD	8,100.00	7,277.45	592.30	521.77	8.397	ES
BABCOCK 32N-33HZ - KMG - MWD	8,200.00	7,273.36	602.06	529.64	8.313	SF
BABCOCK 33C-33HZ - KMG - MWD	8,473.13	7,256.82	539.08	467.05	7.484	CC
BABCOCK 33C-33HZ - KMG - MWD	8,500.00	7,256.51	539.75	467.00	7.420	ES
BABCOCK 33C-33HZ - KMG - MWD	8,600.00	7,255.37	553.80	478.68	7.372	SF
BABCOCK 35C-33HZ - KMG - MWD	9,160.69	7,148.00	587.54	509.58	7.536	CC, ES
BABCOCK 35C-33HZ - KMG - MWD	9,300.00	7,148.00	603.83	522.41	7.416	SF
BARNES 2-4 - KAUFFMAN - Proposed	11,272.25	5,020.00	2,264.70	2,220.38	51.099	CC
BARNES 2-4 - KAUFFMAN - Proposed	11,300.00	5,020.00	2,264.87	2,220.20	50.709	ES
BARNES 2-4 - KAUFFMAN - Proposed	12,400.00	5,020.00	2,529.95	2,471.39	43.197	SF
BARNES 2-4X - KAUFFMAN - Proposed	11,299.43	5,022.00	2,261.86	2,217.28	50.739	CC
BARNES 2-4X - KAUFFMAN - Proposed	11,300.00	5,022.00	2,261.86	2,217.27	50.731	ES
BARNES 2-4X - KAUFFMAN - Proposed	12,400.00	5,022.00	2,515.41	2,457.15	43.180	SF
BARNES 34-4 - CPR - Gyro	11,287.07	7,254.28	1,399.05	1,267.15	10.607	CC
BARNES 34-4 - CPR - Gyro	11,300.00	7,253.80	1,399.10	1,266.91	10.584	ES
BARNES 34-4 - CPR - Gyro	11,500.00	7,246.58	1,415.13	1,279.44	10.429	SF
BUTTERBALL 12N-34HZ - KMG - MWD	12,613.32	9,662.95	1,155.02	1,069.71	13.538	CC, ES, SF
BUTTERBALL 22N-34HZ - KMG - MWD	12,613.32	9,751.00	1,477.44	1,392.50	17.394	CC, ES, SF

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

Anticollision Summary Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SHELEY 3D-4H-M267
Project:	Sec 4 T2N-R67W	TVD Reference:	WELL @ 4932.00usft (Original Well Elev)
Reference Site:	Sheley Pad	MD Reference:	WELL @ 4932.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SHELEY 3D-4H-M267	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #3 25Jun18 kjs	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						
Existing Wells (Sheley)						
BUTTERBALL 30C-10HZ - KMG - MWD	12,613.32	12,042.00	2,452.81	2,285.47	14.658	CC, ES, SF
BUTTERBALL 32C-34HZ - KMG - Proposed	12,613.32	9,920.30	809.61	720.23	9.058	CC, ES, SF
BUTTERBALL 40N-33HZ - KMG - Proposed	12,613.32	9,791.41	500.94	413.55	5.732	CC, ES, SF
Cowboy_21-5HZ - ?? - Proposed	11,883.03	21,398.20	1,510.31	1,346.49	9.220	CC
Cowboy_21-5HZ - ?? - Proposed	12,100.00	21,398.20	1,525.81	1,332.26	7.883	ES
Cowboy_21-5HZ - ?? - Proposed	12,613.32	21,398.20	1,677.61	1,420.58	6.527	SF
Cowboy_21-6HZ - ?? - Proposed	12,231.89	21,300.79	1,487.81	1,317.98	8.761	CC
Cowboy_21-6HZ - ?? - Proposed	12,400.00	21,300.79	1,497.28	1,305.83	7.821	ES
Cowboy_21-6HZ - ?? - Proposed	12,613.32	21,300.79	1,535.94	1,314.87	6.948	SF
Cowboy_21-7HZ - ?? - Proposed	12,000.00	21,613.46	1,659.94	1,441.93	7.614	SF
Cowboy_21-7HZ - ?? - Proposed	12,613.32	21,613.46	1,471.98	1,294.80	8.308	CC, ES
Cowboy_21-8HZ - ?? - Proposed	12,300.00	21,443.33	1,613.62	1,387.62	7.140	SF
Cowboy_21-8HZ - ?? - Proposed	12,613.32	21,443.33	1,493.86	1,290.16	7.334	CC, ES
HOMESTEAD 22-4 - KMG - MWD	9,200.00	7,749.67	723.49	629.22	7.675	SF
HOMESTEAD 22-4 - KMG - MWD	9,265.37	7,748.63	720.53	626.77	7.685	CC, ES
HSR-DODERO 6-4A - KMG - Gyro	9,810.03	7,211.81	1,494.32	1,398.55	15.604	CC, ES
HSR-DODERO 6-4A - KMG - Gyro	10,200.00	7,212.76	1,544.36	1,441.32	14.987	SF
HSR-RHOADES 8-5A - KMG - Gyro	7,300.00	6,922.88	1,182.79	1,124.18	20.179	SF
HSR-RHOADES 8-5A - KMG - Gyro	7,381.24	6,989.98	1,180.40	1,122.13	20.258	CC, ES
HSR-SATER 1-8A - KMG - Gyro	1,226.26	1,176.49	1,810.03	1,801.23	205.839	CC
HSR-SATER 1-8A - KMG - Gyro	1,400.00	1,339.52	1,810.85	1,800.44	173.954	ES
HSR-SATER 1-8A - KMG - Gyro	8,600.00	7,210.56	2,894.03	2,822.44	40.421	SF
HSR-STREAR 4-10A - KMG - Gyro	12,613.32	7,309.37	2,453.40	2,296.24	15.611	CC, ES, SF
LUHMAN 1 - CPR - Gyro	11,381.32	7,253.02	878.85	744.61	6.547	CC
LUHMAN 1 - CPR - Gyro	11,400.00	7,252.37	879.05	744.42	6.529	ES
LUHMAN 1 - CPR - Gyro	11,500.00	7,248.94	886.82	750.87	6.523	SF
LUHMAN 33-4 - CPR - Gyro	11,114.46	7,256.45	260.49	132.83	2.041	CC, ES, SF
LUHMAN 43-4 - CPR - Gyro	12,382.94	7,275.04	259.78	99.45	1.620	CC, ES
LUHMAN 43-4 - CPR - Gyro	12,400.00	7,275.03	260.34	99.59	1.620	SF
LUHMAN 44-4 - CPR - Gyro	12,613.32	7,280.06	1,260.49	1,094.06	7.574	CC, ES, SF
Luhman 6-4-4 - CPR - MWD	11,910.73	7,281.89	771.91	624.62	5.241	CC, ES
Luhman 6-4-4 - CPR - MWD	12,000.00	7,280.74	777.06	627.79	5.206	SF
MCCLAY 5-4A - KMG - Gyro	8,277.05	7,224.17	1,060.64	993.65	15.834	CC, ES
MCCLAY 5-4A - KMG - Gyro	8,400.00	7,226.44	1,067.74	1,000.13	15.792	SF
SATER 40N-5HZ - KMG - MWD	7,398.63	12,053.39	327.35	235.16	3.551	CC
SATER 40N-5HZ - KMG - MWD	7,400.00	12,053.62	327.35	234.90	3.541	ES
SATER 40N-5HZ - KMG - MWD	7,500.00	12,069.91	349.03	240.73	3.223	SF
SCOTT 1C-32HZ - KMG - MWD	7,100.00	6,768.66	656.51	599.21	11.456	SF
SCOTT 1C-32HZ - KMG - MWD	7,160.23	6,799.45	654.06	597.08	11.479	CC, ES
SCOTT 26N-32HZ - KMG - MWD	7,200.00	6,796.10	702.00	635.95	10.628	SF
SCOTT 26N-32HZ - KMG - MWD	7,374.48	6,864.00	690.31	626.83	10.874	CC, ES
SHELEY 1 - CPR - Gyro	9,220.68	7,254.81	624.95	542.04	7.538	CC, ES
SHELEY 1 - CPR - Gyro	9,300.00	7,253.39	629.96	545.50	7.459	SF
SHELEY 13-4 - CPR - Gyro	8,253.19	7,239.63	102.18	35.41	1.530	CC, ES, SF
SHELEY 14-4 - CPR - Gyro	100.00	77.94	99.74	99.47	359.702	CC, ES
SHELEY 14-4 - CPR - Gyro	9,000.00	7,237.29	1,462.55	1,382.95	18.372	SF
SHELEY 23-4 - CPR - Gyro	9,880.11	7,248.92	165.49	68.02	1.698	CC, ES, SF
SHELEY 24-4 - MACHII-ROSS PET CO - Gyro	307.46	289.90	1,135.61	1,133.87	654.691	CC, ES
SHELEY 24-4 - MACHII-ROSS PET CO - Gyro	10,100.00	7,263.74	1,336.04	1,234.74	13.189	SF
SHELEY 24-4 (2) - CPR - Gyro	304.06	288.70	1,293.69	1,291.97	752.199	CC, ES
SHELEY 24-4 (2) - CPR - Gyro	10,300.00	7,266.36	1,500.65	1,394.98	14.202	SF
SHELEY 3A-4H - CPR - MWD	336.18	329.77	69.94	68.11	38.108	CC
SHELEY 3A-4H - CPR - MWD	400.00	393.80	70.34	68.05	30.783	ES

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

Anticollision Summary Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SHELEY 3D-4H-M267
Project:	Sec 4 T2N-R67W	TVD Reference:	WELL @ 4932.00usft (Original Well Elev)
Reference Site:	Sheley Pad	MD Reference:	WELL @ 4932.00usft (Original Well Elev)
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Reference Wellbore	Wellbore #1	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #3 25Jun18 kjs	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						
Existing Wells (Sheley)						
SHELEY 3A-4H - CPR - MWD	12,613.32	11,667.40	1,055.73	790.65	3.983	SF
SHELEY 3B-4H - CPR - MWD	100.00	92.72	60.47	60.18	209.923	CC
SHELEY 3B-4H - CPR - MWD	12,613.32	11,749.26	259.78	-4.68	0.982	Level 3, ES, SF
Sheley 4-6-4 - CPR - MWD	10,534.20	7,401.75	601.56	487.40	5.269	CC, ES, SF
SPRAGUE 11-9 - CPR - Gyro	313.53	327.23	1,428.25	1,426.38	761.669	CC, ES
SPRAGUE 11-9 - CPR - Gyro	9,900.00	7,293.75	3,042.11	2,949.32	32.784	SF
SPRAGUE 31-9 - CPR - MWD	11,195.56	7,699.52	2,450.01	2,318.19	18.586	CC
SPRAGUE 31-9 - CPR - MWD	11,300.00	7,688.82	2,452.20	2,317.88	18.256	ES
SPRAGUE 31-9 - CPR - MWD	11,800.00	7,636.89	2,522.04	2,378.35	17.551	SF
SPRAGUE 3A-9H-N267 - CPR - MWD	8,314.86	12,788.00	1,679.44	1,597.48	20.492	CC
SPRAGUE 3A-9H-N267 - CPR - MWD	8,400.00	12,788.00	1,681.59	1,595.24	19.472	ES
SPRAGUE 3A-9H-N267 - CPR - MWD	9,300.00	12,788.00	1,947.05	1,817.80	15.064	SF
SPRAGUE 3AA-9H-N267 - CPR - MWD	8,121.89	12,991.00	1,652.67	1,569.85	19.956	CC
SPRAGUE 3AA-9H-N267 - CPR - MWD	8,200.00	12,991.00	1,654.51	1,567.79	19.078	ES
SPRAGUE 3AA-9H-N267 - CPR - MWD	9,100.00	12,991.00	1,920.42	1,791.70	14.919	SF
SPRAGUE 3B-9H-N267 - CPR - MWD	8,541.64	12,950.00	1,613.54	1,530.86	19.517	CC
SPRAGUE 3B-9H-N267 - CPR - MWD	8,600.00	12,950.00	1,614.59	1,528.89	18.839	ES
SPRAGUE 3B-9H-N267 - CPR - MWD	9,500.00	12,950.00	1,876.69	1,746.56	14.421	SF
SPRAGUE 3C-9H-N267 - CPR - MWD	8,813.07	12,655.00	1,589.25	1,505.93	19.074	CC
SPRAGUE 3C-9H-N267 - CPR - MWD	8,900.00	12,655.00	1,591.63	1,503.60	18.080	ES
SPRAGUE 3C-9H-N267 - CPR - MWD	9,700.00	12,655.00	1,819.99	1,690.53	14.058	SF
SPRAGUE 3D-9H-N267 - CPR - MWD	9,135.35	12,595.00	1,654.32	1,566.71	18.882	CC
SPRAGUE 3D-9H-N267 - CPR - MWD	9,200.00	12,595.00	1,655.59	1,564.97	18.270	ES
SPRAGUE 3D-9H-N267 - CPR - MWD	10,100.00	12,595.00	1,915.03	1,782.27	14.425	SF
SPRAGUE 3E-9HX1-N267 - CPR - MWD	9,548.02	12,714.00	1,556.61	1,466.09	17.197	CC
SPRAGUE 3E-9HX1-N267 - CPR - MWD	9,600.00	12,714.00	1,557.48	1,464.40	16.734	ES
SPRAGUE 3E-9HX1-N267 - CPR - MWD	10,400.00	12,714.00	1,774.51	1,639.57	13.150	SF
SPRAGUE 3F-9H-N267 - CPR - MWD	9,840.68	12,921.00	1,619.32	1,520.93	16.459	CC
SPRAGUE 3F-9H-N267 - CPR - MWD	9,900.00	12,921.00	1,620.41	1,519.80	16.106	ES
SPRAGUE 3F-9H-N267 - CPR - MWD	10,700.00	12,921.00	1,833.20	1,695.68	13.331	SF
SPRAGUE 3G-9H-N267 - CPR - MWD	10,209.91	12,696.00	1,582.48	1,475.06	14.732	CC
SPRAGUE 3G-9H-N267 - CPR - MWD	10,300.00	12,696.00	1,585.04	1,474.52	14.341	ES
SPRAGUE 3G-9H-N267 - CPR - MWD	11,000.00	12,696.00	1,768.75	1,627.03	12.481	SF
SPRAGUE 3H-9H-N267 - CPR - MWD	10,569.76	12,946.00	1,629.34	1,510.70	13.733	CC
SPRAGUE 3H-9H-N267 - CPR - MWD	10,600.00	12,946.00	1,629.62	1,510.26	13.652	ES
SPRAGUE 3H-9H-N267 - CPR - MWD	11,300.00	12,946.00	1,785.50	1,640.11	12.281	SF
SPRAGUE 3I-9H-N267 - CPR - MWD	10,939.84	12,836.00	1,597.52	1,466.65	12.207	CC, ES
SPRAGUE 3I-9H-N267 - CPR - MWD	11,600.00	12,836.00	1,728.55	1,577.84	11.469	SF
SPRAGUE 3J-9H-N267 - CPR - MWD	11,422.42	13,145.00	1,708.98	1,558.24	11.338	CC, ES
SPRAGUE 3J-9H-N267 - CPR - MWD	11,900.00	13,145.00	1,774.45	1,614.03	11.061	SF
SPRAGUE 41-9 - CPR - Gyro	12,563.61	7,285.40	2,320.37	2,155.26	14.054	CC
SPRAGUE 41-9 - CPR - Gyro	12,613.32	7,285.94	2,320.91	2,154.62	13.956	ES, SF
TOWNSEND 44-5 - CPR - Gyro	3,642.40	3,462.52	987.72	955.35	30.511	CC
TOWNSEND 44-5 - CPR - Gyro	3,700.00	3,514.47	987.98	955.03	29.992	ES
TOWNSEND 44-5 - CPR - Gyro	6,100.00	5,814.81	1,237.12	1,183.57	23.105	SF
WHISTON 10N-33HZ - KMG - MWD	10,931.81	7,112.16	466.00	362.16	4.488	CC, ES
WHISTON 10N-33HZ - KMG - MWD	11,000.00	7,116.42	470.93	364.52	4.426	SF
WHISTON 15N-33HZ - KMG - MWD	11,637.63	7,252.98	363.51	247.59	3.136	CC, ES, SF
WHISTON 16N-33HZ - KMG - MWD	12,160.52	7,267.63	392.71	268.22	3.155	CC, ES, SF
WHISTON 20N-33HZ - KMG - MWD	11,693.56	7,144.00	435.03	315.43	3.638	CC
WHISTON 20N-33HZ - KMG - MWD	11,700.00	7,144.00	435.07	315.33	3.633	ES, SF
WHISTON 23C-33HZ - KMG - MWD	10,714.46	7,299.45	251.57	150.30	2.484	CC, ES, SF
WHISTON 24C-33HZ - KMG - MWD	11,835.76	7,251.76	281.42	156.72	2.257	CC, ES, SF

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

Anticollision Summary Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SHELEY 3D-4H-M267
Project:	Sec 4 T2N-R67W	TVD Reference:	WELL @ 4932.00usft (Original Well Elev)
Reference Site:	Sheley Pad	MD Reference:	WELL @ 4932.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SHELEY 3D-4H-M267	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #3 25Jun18 kjs	Offset TVD Reference:	Offset Datum

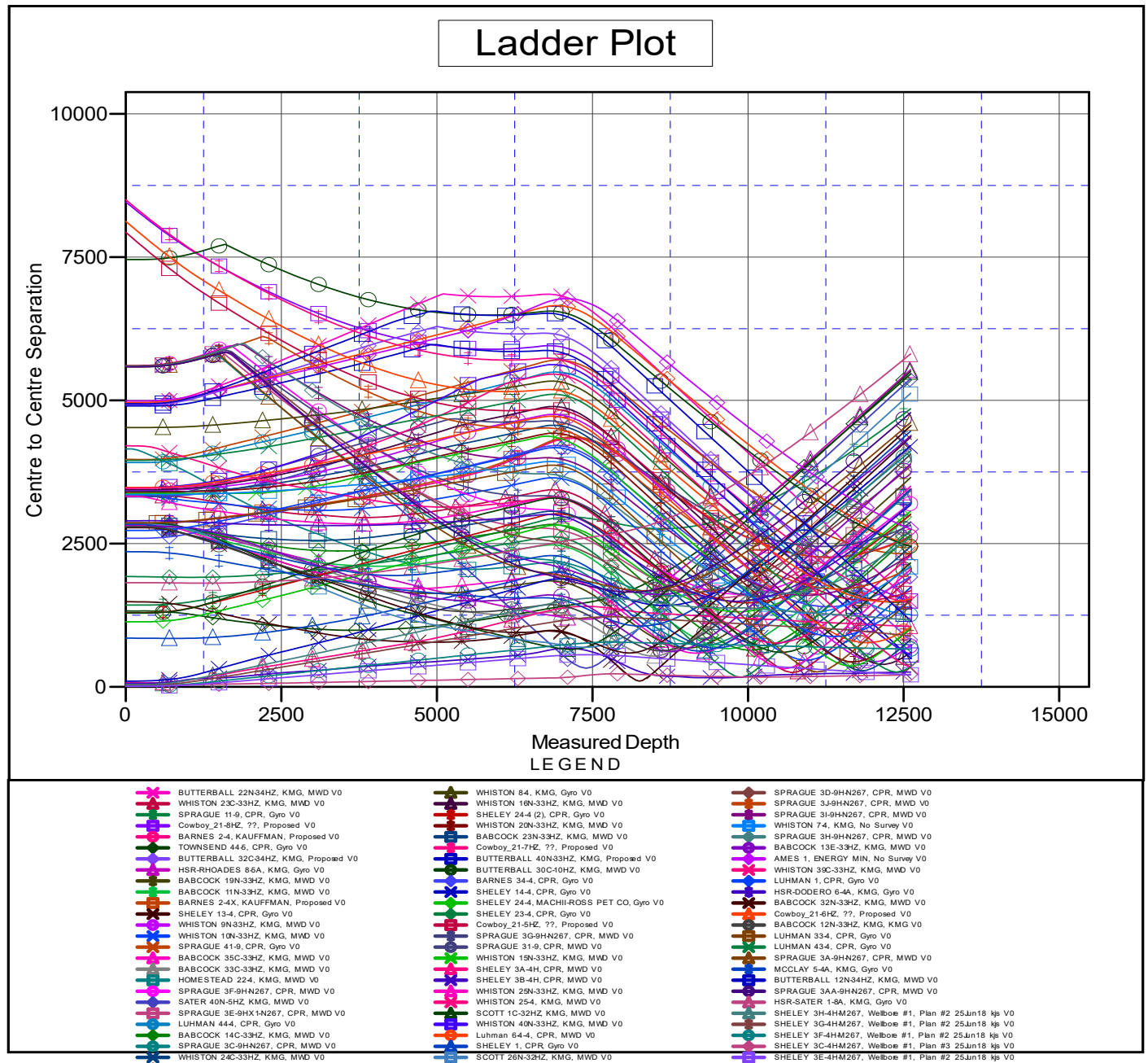
Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Existing Wells (Sheley)						
WHISTON 25-4 - KMG - MWD	10,450.38	7,499.60	767.44	649.18	6.489	CC
WHISTON 25-4 - KMG - MWD	10,500.00	7,498.37	769.04	648.95	6.403	ES
WHISTON 25-4 - KMG - MWD	10,600.00	7,496.00	781.88	659.05	6.365	SF
WHISTON 25N-33HZ - KMG - MWD	10,584.07	7,247.00	319.54	230.63	3.594	CC
WHISTON 25N-33HZ - KMG - MWD	10,600.00	7,247.00	319.94	230.12	3.562	ES, SF
WHISTON 39C-33HZ - KMG - MWD	12,613.32	7,430.00	342.02	191.83	2.277	CC, ES, SF
WHISTON 40N-33HZ - KMG - MWD	12,613.32	7,356.87	555.59	418.29	4.047	CC, ES, SF
WHISTON 7-4 - KMG - No Survey	10,948.50	7,260.00	1,290.52	1,179.32	11.606	CC
WHISTON 7-4 - KMG - No Survey	11,000.00	7,260.00	1,291.54	1,179.04	11.480	ES
WHISTON 7-4 - KMG - No Survey	11,200.00	7,260.00	1,314.80	1,198.49	11.305	SF
WHISTON 8-4 - KMG - Gyro	12,378.11	7,253.58	1,476.39	1,316.25	9.219	CC
WHISTON 8-4 - KMG - Gyro	12,400.00	7,253.61	1,476.56	1,315.79	9.185	ES
WHISTON 8-4 - KMG - Gyro	12,600.00	7,253.89	1,492.98	1,327.91	9.045	SF
WHISTON 9N-33HZ - KMG - MWD	12,036.57	7,146.00	441.33	318.49	3.593	CC, ES, SF
Sheley Pad						
SHELEY 3C-4H-M267 - Wellbore #1 - Plan #3 25Jun18 k	200.00	200.00	9.84	8.84	9.905	CC, ES
SHELEY 3C-4H-M267 - Wellbore #1 - Plan #3 25Jun18 k	12,500.00	12,691.67	208.06	10.97	1.056	Level 3, SF
SHELEY 3E-4H-M267 - Wellbore #1 - Plan #2 25Jun18 k	300.00	301.00	10.20	8.48	5.950	CC
SHELEY 3E-4H-M267 - Wellbore #1 - Plan #2 25Jun18 k	12,613.32	12,649.06	210.78	-2.64	0.988	Level 3, ES, SF
SHELEY 3F-4H-M267 - Wellbore #1 - Plan #2 25Jun18 k	300.00	302.00	20.04	18.32	11.668	CC, ES
SHELEY 3F-4H-M267 - Wellbore #1 - Plan #2 25Jun18 k	12,613.32	12,453.93	657.81	377.26	2.345	SF
SHELEY 3G-4H-M267 - Wellbore #1 - Plan #2 25Jun18 k	308.93	311.00	30.18	28.40	16.982	CC, ES
SHELEY 3G-4H-M267 - Wellbore #1 - Plan #2 25Jun18 k	12,613.32	12,598.33	891.14	613.33	3.208	SF
SHELEY 3H-4H-M267 - Wellbore #1 - Plan #2 25Jun18 k	115.99	117.99	40.07	39.67	100.732	CC
SHELEY 3H-4H-M267 - Wellbore #1 - Plan #2 25Jun18 k	300.00	301.80	40.31	38.60	23.581	ES
SHELEY 3H-4H-M267 - Wellbore #1 - Plan #2 25Jun18 k	12,613.32	12,358.76	1,170.39	893.11	4.221	SF

Anticollision Summary Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SHELEY 3D-4H-M267
Project:	Sec 4 T2N-R67W	TVD Reference:	WELL @ 4932.00usft (Original Well Elev)
Reference Site:	Sheley Pad	MD Reference:	WELL @ 4932.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SHELEY 3D-4H-M267	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #3 25Jun18 kjs	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4932.00usft (Original Well E
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000

Coordinates are relative to: SHELEY 3D-4H-M267
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.39°



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

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SHELEY 3D-4H-M267
Project:	Sec 4 T2N-R67W	TVD Reference:	WELL @ 4932.00usft (Original Well Elev)
Reference Site:	Sheley Pad	MD Reference:	WELL @ 4932.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SHELEY 3D-4H-M267	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan #3 25Jun18 kjs	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4932.00usft (Original Well E
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000

Coordinates are relative to: SHELEY 3D-4H-M267
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.39°

