



Crestone Peak Resources

Sec 2 T2N-R67W

Echeverria Pad

ECHEVERRIA 2H-2H-D267

Wellbore #1

Plan: Design #1 23Apr18 kjs

Standard Planning Report - Geographic

14 May, 2018



Crestone Peak Resources

Well Name:

ECHEVERRIA 2H-2H-D267

Project Name:

Sec 2 T2N-R67W

Pad Name:

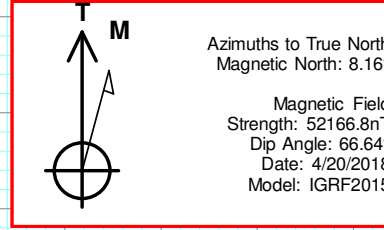
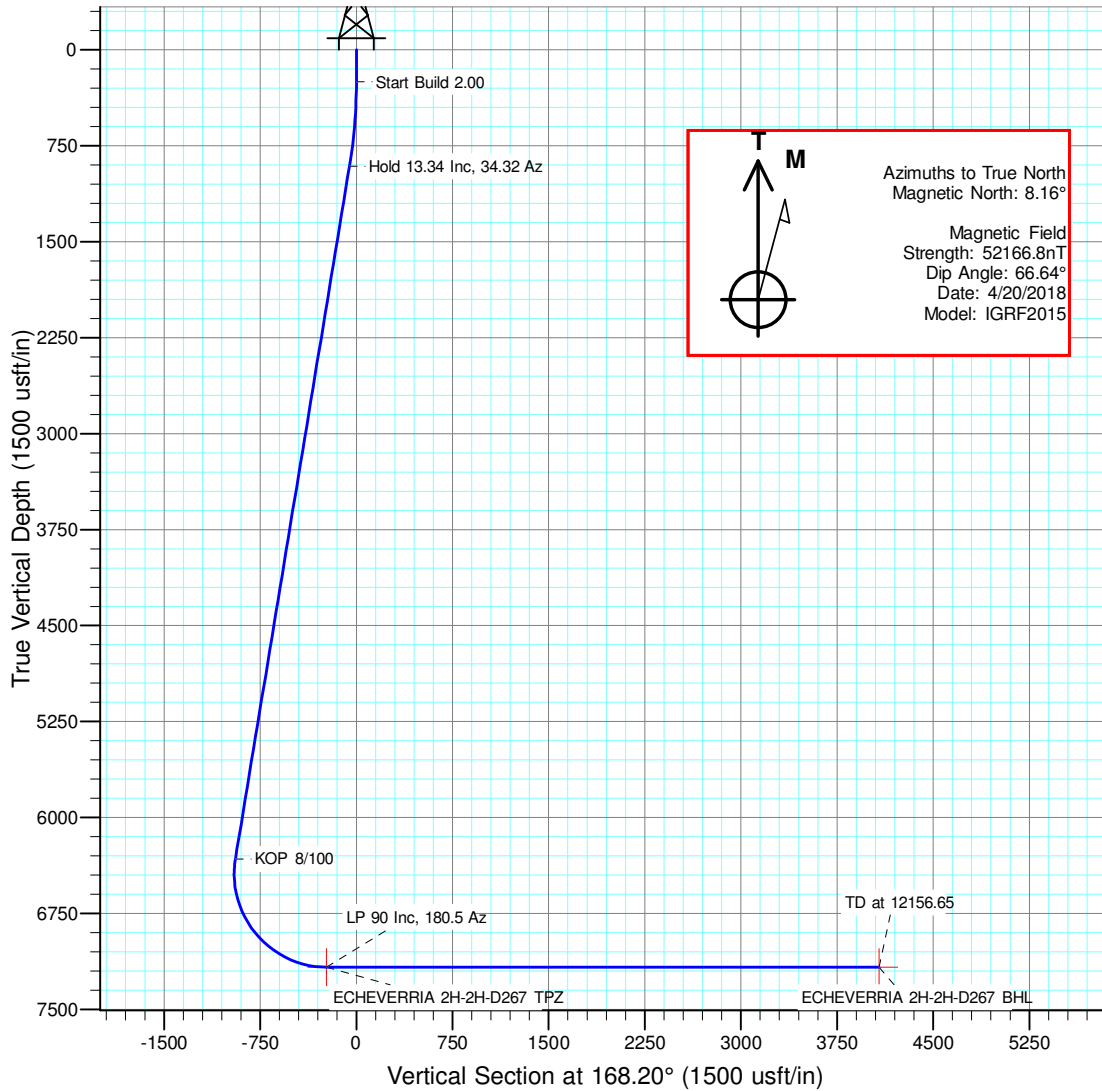
Echeverria Pad

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	Start Build 2.00
917.21	13.34	34.32	911.20	63.88	43.61	-53.61	77.35	Hold 13.34 Inc, 34.32 Az
6480.01	13.34	34.32	6323.81	1124.30	767.44	-943.57	1361.25	KOP 8/100
7743.21	90.00	180.50	7170.00	420.44	872.98	-233.01	2119.20	LP 90 Inc, 180.5 Az
12156.65	90.00	180.50	7170.00	-3992.83	834.28	4079.06	6532.64	TD at 12156.65

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
ECHEVERRIA 2H-2H-D267 BHL	7170.00	-3992.83	834.28	1302162.97	3178388.37	40.16106999	-104.86173500	Point
ECHEVERRIA 2H-2H-D267 TPZ	7170.00	420.44	872.98	1306576.40	3178395.44	40.17318499	-104.86159600	Point

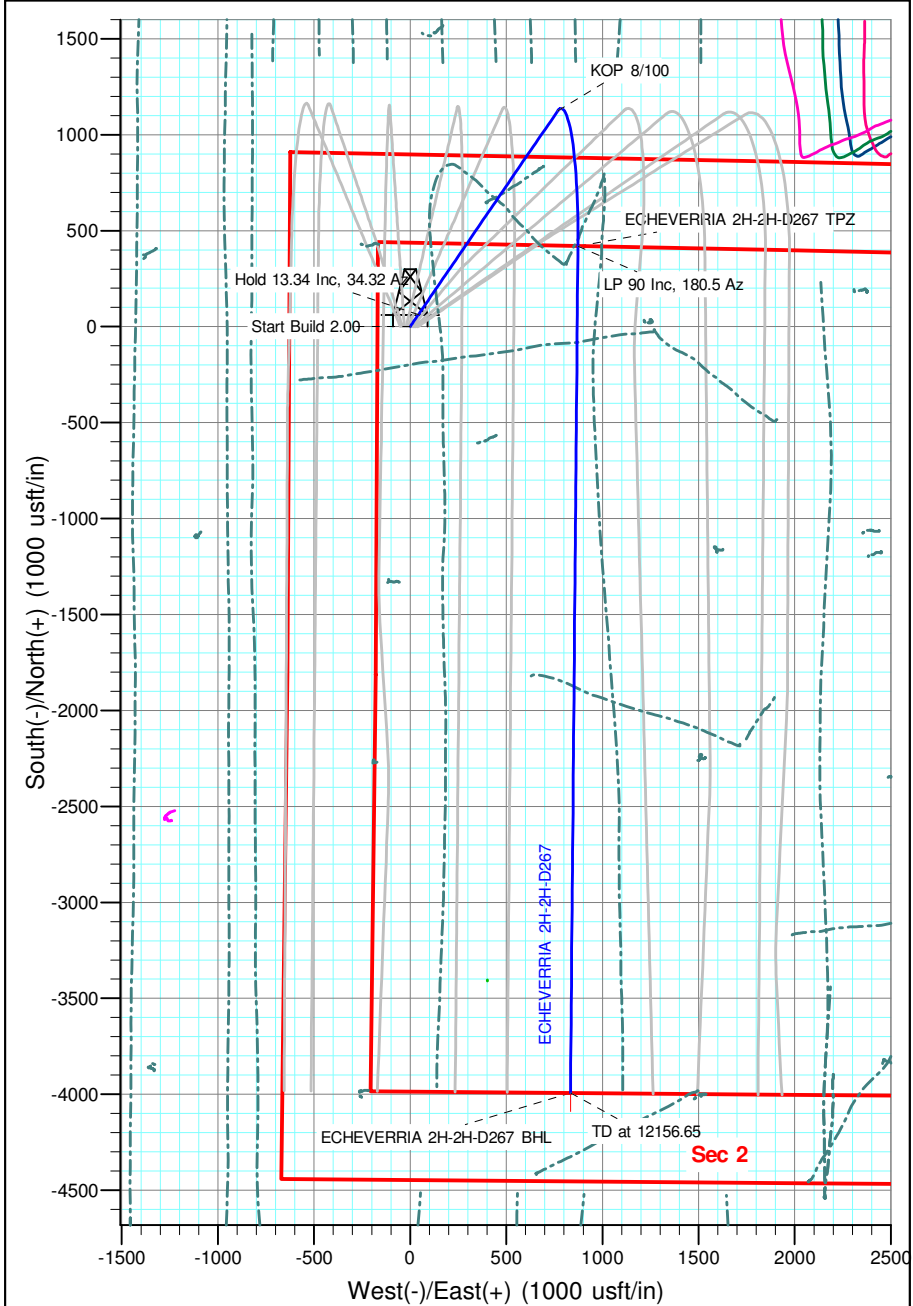


Geodetic Datum:

North American Datum 1983
US State Plane 1983, Colorado Northern Zone

Elevation:

Ground Elevation: 4882.00
KB Elevation: WELL @ 4905.00usft (Original Well Elev)



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well ECHEVERRIA 2H-2H-D267
Company:	Crestone Peak Resources	TVD Reference:	WELL @ 4905.00usft (Original Well Elev)
Project:	Sec 2 T2N-R67W	MD Reference:	WELL @ 4905.00usft (Original Well Elev)
Site:	Echeverria Pad	North Reference:	True
Well:	ECHEVERRIA 2H-2H-D267	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 23Apr18 kjs		

Project	Sec 2 T2N-R67W, Weld County, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		Echeverria Pad			
Site Position:		Northing:	1,306,149.76 usft	Latitude:	40.17203200
From:	Lat/Long	Easting:	3,177,475.48 usft	Longitude:	-104.86489900
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.41 °

Well	ECHEVERRIA 2H-2H-D267					
Well Position	+N/-S	0.00 usft	Northing:	1,306,149.71 usft	Latitude:	40.17203087
	+E/-W	0.00 usft	Easting:	3,177,525.50 usft	Longitude:	-104.86472000
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	4,882.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/20/2018	8.16	66.64	52,166.81833464

Design	Design #1 23Apr18 kjs			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	168.20

Plan Survey Tool Program	Date	5/11/2018		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	12,156.65 Design #1 23Apr18 kjs (Wellbore)	MWD	
			OWSG MWD - Standard	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00	
917.22	13.34	34.32	911.20	63.88	43.61	2.00	2.00	0.00	34.32	
6,480.01	13.34	34.32	6,323.81	1,124.30	767.44	0.00	0.00	0.00	0.00	
7,743.21	90.00	180.50	7,170.00	420.44	872.98	8.00	6.07	11.57	145.46	ECHEVERRIA 2H-2H
12,156.65	90.00	180.50	7,170.00	-3,992.83	834.28	0.00	0.00	0.00	0.00	ECHEVERRIA 2H-2H

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well ECHEVERRIA 2H-2H-D267
Company:	Crestone Peak Resources	TVD Reference:	WELL @ 4905.00usft (Original Well Elev)
Project:	Sec 2 T2N-R67W	MD Reference:	WELL @ 4905.00usft (Original Well Elev)
Site:	Echeverria Pad	North Reference:	True
Well:	ECHEVERRIA 2H-2H-D267	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 23Apr18 kjs		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	1,306,149.71	3,177,525.50	40.17203087	-104.86472000
100.00	0.00	0.00	100.00	0.00	0.00	1,306,149.71	3,177,525.50	40.17203087	-104.86472000
200.00	0.00	0.00	200.00	0.00	0.00	1,306,149.71	3,177,525.50	40.17203087	-104.86472000
250.00	0.00	0.00	250.00	0.00	0.00	1,306,149.71	3,177,525.50	40.17203087	-104.86472000
Start Build 2.00									
300.00	1.00	34.32	300.00	0.36	0.25	1,306,150.08	3,177,525.74	40.17203186	-104.86471912
400.00	3.00	34.32	399.93	3.24	2.21	1,306,152.97	3,177,527.69	40.17203977	-104.86471208
500.00	5.00	34.32	499.68	9.00	6.15	1,306,158.76	3,177,531.58	40.17205558	-104.86469800
600.00	7.00	34.32	599.13	17.64	12.04	1,306,167.44	3,177,537.41	40.17207928	-104.86467692
700.00	9.00	34.32	698.15	29.13	19.88	1,306,178.99	3,177,545.18	40.17211083	-104.86464884
800.00	11.00	34.32	796.63	43.47	29.67	1,306,193.40	3,177,554.86	40.17215020	-104.86461381
900.00	13.00	34.32	894.44	60.64	41.39	1,306,210.65	3,177,566.46	40.17219734	-104.86457187
917.21	13.34	34.32	911.20	63.88	43.61	1,306,213.91	3,177,568.65	40.17220623	-104.86456395
Hold 13.34 Inc, 34.32 Az									
1,000.00	13.34	34.32	991.75	79.66	54.38	1,306,229.76	3,177,579.31	40.17224956	-104.86452540
1,100.00	13.34	34.32	1,089.05	98.73	67.39	1,306,248.92	3,177,592.18	40.17230189	-104.86447884
1,200.00	13.34	34.32	1,186.35	117.79	80.40	1,306,268.08	3,177,605.06	40.17235421	-104.86443228
1,300.00	13.34	34.32	1,283.65	136.85	93.41	1,306,287.23	3,177,617.93	40.17240654	-104.86438571
1,400.00	13.34	34.32	1,380.95	155.91	106.43	1,306,306.39	3,177,630.81	40.17245887	-104.86433915
1,500.00	13.34	34.32	1,478.25	174.98	119.44	1,306,325.54	3,177,643.68	40.17251120	-104.86429258
1,600.00	13.34	34.32	1,575.55	194.04	132.45	1,306,344.70	3,177,656.56	40.17256353	-104.86424602
1,700.00	13.34	34.32	1,672.85	213.10	145.46	1,306,363.85	3,177,669.43	40.17261586	-104.86419946
1,800.00	13.34	34.32	1,770.15	232.17	158.47	1,306,383.01	3,177,682.31	40.17266819	-104.86415289
1,900.00	13.34	34.32	1,867.45	251.23	171.49	1,306,402.16	3,177,695.18	40.17272052	-104.86410633
2,000.00	13.34	34.32	1,964.75	270.29	184.50	1,306,421.32	3,177,708.06	40.17277285	-104.86405976
2,100.00	13.34	34.32	2,062.05	289.35	197.51	1,306,440.47	3,177,720.93	40.17282518	-104.86401320
2,200.00	13.34	34.32	2,159.35	308.42	210.52	1,306,459.63	3,177,733.81	40.17287751	-104.86396663
2,300.00	13.34	34.32	2,256.65	327.48	223.53	1,306,478.78	3,177,746.68	40.17292984	-104.86392007
2,400.00	13.34	34.32	2,353.95	346.54	236.55	1,306,497.94	3,177,759.56	40.17298216	-104.86387350
2,500.00	13.34	34.32	2,451.25	365.60	249.56	1,306,517.10	3,177,772.43	40.17303449	-104.86382694
2,600.00	13.34	34.32	2,548.55	384.67	262.57	1,306,536.25	3,177,785.31	40.17308682	-104.86378037
2,700.00	13.34	34.32	2,645.85	403.73	275.58	1,306,555.41	3,177,798.18	40.17313915	-104.86373381
2,800.00	13.34	34.32	2,743.15	422.79	288.59	1,306,574.56	3,177,811.06	40.17319148	-104.86368724
2,900.00	13.34	34.32	2,840.45	441.85	301.61	1,306,593.72	3,177,823.93	40.17324381	-104.86364068
3,000.00	13.34	34.32	2,937.75	460.92	314.62	1,306,612.87	3,177,836.81	40.17329614	-104.86359411
3,100.00	13.34	34.32	3,035.05	479.98	327.63	1,306,632.03	3,177,849.68	40.17334847	-104.86354755
3,200.00	13.34	34.32	3,132.35	499.04	340.64	1,306,651.18	3,177,862.56	40.17340080	-104.86350098
3,300.00	13.34	34.32	3,229.65	518.11	353.66	1,306,670.34	3,177,875.43	40.17345313	-104.86345442
3,400.00	13.34	34.32	3,326.95	537.17	366.67	1,306,689.49	3,177,888.31	40.17350545	-104.86340785
3,500.00	13.34	34.32	3,424.25	556.23	379.68	1,306,708.65	3,177,901.18	40.17355778	-104.86336129
3,600.00	13.34	34.32	3,521.55	575.29	392.69	1,306,727.80	3,177,914.06	40.17361011	-104.86331472
3,700.00	13.34	34.32	3,618.85	594.36	405.70	1,306,746.96	3,177,926.94	40.17366244	-104.86326815
3,800.00	13.34	34.32	3,716.15	613.42	418.72	1,306,766.12	3,177,939.81	40.17371477	-104.86322159
3,900.00	13.34	34.32	3,813.45	632.48	431.73	1,306,785.27	3,177,952.69	40.17376710	-104.86317502
4,000.00	13.34	34.32	3,910.75	651.54	444.74	1,306,804.43	3,177,965.56	40.17381943	-104.86312846
4,100.00	13.34	34.32	4,008.05	670.61	457.75	1,306,823.58	3,177,978.44	40.17387176	-104.86308189
4,200.00	13.34	34.32	4,105.35	689.67	470.76	1,306,842.74	3,177,991.31	40.17392409	-104.86303532
4,300.00	13.34	34.32	4,202.65	708.73	483.78	1,306,861.89	3,178,004.19	40.17397641	-104.86298876
4,400.00	13.34	34.32	4,299.95	727.79	496.79	1,306,881.05	3,178,017.06	40.17402874	-104.86294219
4,500.00	13.34	34.32	4,397.25	746.86	509.80	1,306,900.20	3,178,029.94	40.17408107	-104.86289563
4,600.00	13.34	34.32	4,494.55	765.92	522.81	1,306,919.36	3,178,042.81	40.17413340	-104.86284906
4,700.00	13.34	34.32	4,591.85	784.98	535.82	1,306,938.51	3,178,055.69	40.17418573	-104.86280249
4,800.00	13.34	34.32	4,689.15	804.05	548.84	1,306,957.67	3,178,068.56	40.17423806	-104.86275593
4,900.00	13.34	34.32	4,786.45	823.11	561.85	1,306,976.82	3,178,081.44	40.17429039	-104.86270936

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well ECHEVERRIA 2H-2H-D267
Company:	Crestone Peak Resources	TVD Reference:	WELL @ 4905.00usft (Original Well Elev)
Project:	Sec 2 T2N-R67W	MD Reference:	WELL @ 4905.00usft (Original Well Elev)
Site:	Echeverria Pad	North Reference:	True
Well:	ECHEVERRIA 2H-2H-D267	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 23Apr18 kjs		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,000.00	13.34	34.32	4,883.75	842.17	574.86	1,306,995.98	3,178,094.31	40.17434271	-104.86266279
5,100.00	13.34	34.32	4,981.05	861.23	587.87	1,307,015.14	3,178,107.19	40.17439504	-104.86261623
5,200.00	13.34	34.32	5,078.35	880.30	600.88	1,307,034.29	3,178,120.06	40.17444737	-104.86256966
5,300.00	13.34	34.32	5,175.65	899.36	613.90	1,307,053.45	3,178,132.94	40.17449970	-104.86252309
5,400.00	13.34	34.32	5,272.95	918.42	626.91	1,307,072.60	3,178,145.81	40.17455203	-104.86247653
5,500.00	13.34	34.32	5,370.25	937.48	639.92	1,307,091.76	3,178,158.69	40.17460436	-104.86242996
5,600.00	13.34	34.32	5,467.55	956.55	652.93	1,307,110.91	3,178,171.56	40.17465669	-104.86238339
5,700.00	13.34	34.32	5,564.85	975.61	665.94	1,307,130.07	3,178,184.44	40.17470901	-104.86233682
5,800.00	13.34	34.32	5,662.15	994.67	678.96	1,307,149.22	3,178,197.31	40.17476134	-104.86229026
5,900.00	13.34	34.32	5,759.45	1,013.73	691.97	1,307,168.38	3,178,210.19	40.17481367	-104.86224369
6,000.00	13.34	34.32	5,856.75	1,032.80	704.98	1,307,187.53	3,178,223.06	40.17486600	-104.86219712
6,100.00	13.34	34.32	5,954.05	1,051.86	717.99	1,307,206.69	3,178,235.94	40.17491833	-104.86215056
6,200.00	13.34	34.32	6,051.35	1,070.92	731.00	1,307,225.84	3,178,248.81	40.17497066	-104.86210399
6,300.00	13.34	34.32	6,148.65	1,089.98	744.02	1,307,245.00	3,178,261.69	40.17502298	-104.86205742
6,400.00	13.34	34.32	6,245.95	1,109.05	757.03	1,307,264.16	3,178,274.56	40.17507531	-104.86201085
6,480.01	13.34	34.32	6,323.81	1,124.30	767.44	1,307,279.48	3,178,284.87	40.17511718	-104.86197359
KOP 8/100									
6,500.00	12.06	38.66	6,343.30	1,127.84	770.04	1,307,283.04	3,178,287.45	40.17512689	-104.86196427
6,600.00	7.66	79.51	6,441.91	1,137.22	783.14	1,307,292.52	3,178,300.48	40.17515266	-104.86191739
6,700.00	9.96	131.74	6,540.88	1,132.67	796.17	1,307,288.06	3,178,313.53	40.17514017	-104.86187078
6,800.00	16.34	153.73	6,638.26	1,114.28	808.86	1,307,269.76	3,178,326.36	40.17508967	-104.86182535
6,900.00	23.70	163.00	6,732.18	1,082.40	820.98	1,307,237.96	3,178,338.71	40.17500214	-104.86178198
7,000.00	31.37	168.00	6,820.80	1,037.64	832.29	1,307,193.29	3,178,350.33	40.17487929	-104.86174153
7,100.00	39.16	171.17	6,902.39	980.89	842.56	1,307,136.62	3,178,361.01	40.17472351	-104.86170477
7,200.00	47.01	173.43	6,975.38	913.25	851.61	1,307,069.04	3,178,370.54	40.17453782	-104.86167242
7,300.00	54.89	175.18	7,038.33	836.03	859.24	1,306,991.88	3,178,378.73	40.17432585	-104.86164511
7,400.00	62.80	176.61	7,090.02	750.74	865.32	1,306,906.64	3,178,385.41	40.17409171	-104.86162338
7,500.00	70.72	177.86	7,129.45	659.04	869.72	1,306,814.97	3,178,390.47	40.17383997	-104.86160764
7,600.00	78.64	178.98	7,155.85	562.71	872.36	1,306,718.66	3,178,393.80	40.17357553	-104.86159820
7,700.00	86.57	180.05	7,168.71	463.62	873.19	1,306,619.58	3,178,395.34	40.17330353	-104.86159525
7,743.21	90.00	180.50	7,170.00	420.44	872.98	1,306,576.40	3,178,395.44	40.17318499	-104.86159600
LP 90 Inc, 180.5 Az - ECHEVERRIA 2H-2H-D267 TPZ									
7,800.00	90.00	180.50	7,170.00	363.65	872.48	1,306,519.61	3,178,395.35	40.17302910	-104.86159779
7,900.00	90.00	180.50	7,170.00	263.66	871.60	1,306,419.61	3,178,395.19	40.17275459	-104.86160094
8,000.00	90.00	180.50	7,170.00	163.66	870.73	1,306,319.61	3,178,395.03	40.17248009	-104.86160409
8,100.00	90.00	180.50	7,170.00	63.66	869.85	1,306,219.61	3,178,394.87	40.17220559	-104.86160724
8,200.00	90.00	180.50	7,170.00	-36.33	868.97	1,306,119.61	3,178,394.71	40.17193109	-104.86161039
8,300.00	90.00	180.50	7,170.00	-136.33	868.10	1,306,019.61	3,178,394.55	40.17165658	-104.86161354
8,400.00	90.00	180.50	7,170.00	-236.33	867.22	1,305,919.61	3,178,394.39	40.17138208	-104.86161669
8,500.00	90.00	180.50	7,170.00	-336.32	866.34	1,305,819.61	3,178,394.23	40.17110758	-104.86161984
8,600.00	90.00	180.50	7,170.00	-436.32	865.47	1,305,719.61	3,178,394.07	40.17083308	-104.86162299
8,700.00	90.00	180.50	7,170.00	-536.31	864.59	1,305,619.61	3,178,393.91	40.17055858	-104.86162614
8,800.00	90.00	180.50	7,170.00	-636.31	863.71	1,305,519.61	3,178,393.75	40.17028407	-104.86162929
8,900.00	90.00	180.50	7,170.00	-736.31	862.84	1,305,419.61	3,178,393.59	40.17000957	-104.86163243
9,000.00	90.00	180.50	7,170.00	-836.30	861.96	1,305,319.61	3,178,393.43	40.16973507	-104.86163558
9,100.00	90.00	180.50	7,170.00	-936.30	861.08	1,305,219.61	3,178,393.27	40.16946057	-104.86163873
9,200.00	90.00	180.50	7,170.00	-1,036.29	860.21	1,305,119.61	3,178,393.11	40.16918606	-104.86164188
9,300.00	90.00	180.50	7,170.00	-1,136.29	859.33	1,305,019.61	3,178,392.95	40.16891156	-104.86164503
9,400.00	90.00	180.50	7,170.00	-1,236.29	858.45	1,304,919.61	3,178,392.79	40.16863706	-104.86164818
9,500.00	90.00	180.50	7,170.00	-1,336.28	857.57	1,304,819.61	3,178,392.63	40.16836256	-104.86165133
9,600.00	90.00	180.50	7,170.00	-1,436.28	856.70	1,304,719.61	3,178,392.47	40.16808805	-104.86165448
9,700.00	90.00	180.50	7,170.00	-1,536.28	855.82	1,304,619.61	3,178,392.31	40.16781355	-104.86165763
9,800.00	90.00	180.50	7,170.00	-1,636.27	854.94	1,304,519.61	3,178,392.15	40.16753905	-104.86166078
9,900.00	90.00	180.50	7,170.00	-1,736.27	854.07	1,304,419.61	3,178,391.99	40.16726455	-104.86166393

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well ECHEVERRIA 2H-2H-D267
Company:	Crestone Peak Resources	TVD Reference:	WELL @ 4905.00usft (Original Well Elev)
Project:	Sec 2 T2N-R67W	MD Reference:	WELL @ 4905.00usft (Original Well Elev)
Site:	Echeverria Pad	North Reference:	True
Well:	ECHEVERRIA 2H-2H-D267	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 23Apr18 kjs		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
10,000.00	90.00	180.50	7,170.00	-1,836.26	853.19	1,304,319.61	3,178,391.82	40.16699004	-104.86166708	
10,100.00	90.00	180.50	7,170.00	-1,936.26	852.31	1,304,219.61	3,178,391.66	40.16671554	-104.86167023	
10,200.00	90.00	180.50	7,170.00	-2,036.26	851.44	1,304,119.61	3,178,391.50	40.16644104	-104.86167338	
10,300.00	90.00	180.50	7,170.00	-2,136.25	850.56	1,304,019.61	3,178,391.34	40.16616654	-104.86167653	
10,400.00	90.00	180.50	7,170.00	-2,236.25	849.68	1,303,919.61	3,178,391.18	40.16589203	-104.86167968	
10,500.00	90.00	180.50	7,170.00	-2,336.24	848.81	1,303,819.61	3,178,391.02	40.16561753	-104.86168283	
10,600.00	90.00	180.50	7,170.00	-2,436.24	847.93	1,303,719.61	3,178,390.86	40.16534303	-104.86168598	
10,700.00	90.00	180.50	7,170.00	-2,536.24	847.05	1,303,619.61	3,178,390.70	40.16506853	-104.86168913	
10,800.00	90.00	180.50	7,170.00	-2,636.23	846.18	1,303,519.61	3,178,390.54	40.16479402	-104.86169228	
10,900.00	90.00	180.50	7,170.00	-2,736.23	845.30	1,303,419.61	3,178,390.38	40.16451952	-104.86169542	
11,000.00	90.00	180.50	7,170.00	-2,836.23	844.42	1,303,319.61	3,178,390.22	40.16424502	-104.86169857	
11,100.00	90.00	180.50	7,170.00	-2,936.22	843.55	1,303,219.61	3,178,390.06	40.16397052	-104.86170172	
11,200.00	90.00	180.50	7,170.00	-3,036.22	842.67	1,303,119.61	3,178,389.90	40.16369601	-104.86170487	
11,300.00	90.00	180.50	7,170.00	-3,136.21	841.79	1,303,019.61	3,178,389.74	40.16342151	-104.86170802	
11,400.00	90.00	180.50	7,170.00	-3,236.21	840.92	1,302,919.61	3,178,389.58	40.16314701	-104.86171117	
11,500.00	90.00	180.50	7,170.00	-3,336.21	840.04	1,302,819.61	3,178,389.42	40.16287251	-104.86171432	
11,600.00	90.00	180.50	7,170.00	-3,436.20	839.16	1,302,719.61	3,178,389.26	40.16259800	-104.86171747	
11,700.00	90.00	180.50	7,170.00	-3,536.20	838.29	1,302,619.61	3,178,389.10	40.16232350	-104.86172062	
11,800.00	90.00	180.50	7,170.00	-3,636.19	837.41	1,302,519.61	3,178,388.94	40.16204900	-104.86172377	
11,900.00	90.00	180.50	7,170.00	-3,736.19	836.53	1,302,419.61	3,178,388.78	40.16177449	-104.86172692	
12,000.00	90.00	180.50	7,170.00	-3,836.19	835.66	1,302,319.61	3,178,388.62	40.16149999	-104.86173006	
12,100.00	90.00	180.50	7,170.00	-3,936.18	834.78	1,302,219.61	3,178,388.46	40.16122549	-104.86173321	
12,156.65	90.00	180.50	7,170.00	-3,992.83	834.28	1,302,162.97	3,178,388.37	40.16106999	-104.86173500	
TD at 12156.65 - ECHEVERRIA 2H-2H-D267 BHL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
ECHEVERRIA 2H-2H-D: - hit/miss target - Shape	0.00	0.41	7,170.00	420.44	872.98	1,306,576.40	3,178,395.44	40.17318499	-104.86159600	
ECHEVERRIA 2H-2H-D: - plan hits target center - Point	0.00	0.41	7,170.00	-3,992.83	834.28	1,302,162.96	3,178,388.37	40.16106999	-104.86173500	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
250.00	250.00	0.00	0.00	Start Build 2.00	
917.21	911.20	63.88	43.61	Hold 13.34 Inc, 34.32 Az	
6,480.01	6,323.81	1,124.30	767.44	KOP 8/100	
7,743.21	7,170.00	420.44	872.98	LP 90 Inc, 180.5 Az	
12,156.65	7,170.00	-3,992.83	834.28	TD at 12156.65	



Crestone Peak Resources

Sec 2 T2N-R67W

Echeverria Pad

ECHEVERRIA 2H-2H-D267

Wellbore #1

Design #1 23Apr18 kjs

Anticollision Summary Report

14 May, 2018

Anticollision Summary Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well ECHEVERRIA 2H-2H-D267
Project:	Sec 2 T2N-R67W	TVD Reference:	WELL @ 4905.00usft (Original Well Elev)
Reference Site:	Echeverria Pad	MD Reference:	WELL @ 4905.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	ECHEVERRIA 2H-2H-D267	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:	Design #1 23Apr18 kjs	Offset TVD Reference:	Offset Datum

Reference	Design #1 23Apr18 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	5/11/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	12,156.65	Design #1 23Apr18 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						
Echeverria Pad						
ECHEVERRIA 2C-2H-D267 - Wellbore #1 - Design #1 23	116.33	117.33	50.02	49.63	126.101	CC
ECHEVERRIA 2C-2H-D267 - Wellbore #1 - Design #1 23	200.00	200.99	50.02	49.03	50.197	ES
ECHEVERRIA 2C-2H-D267 - Wellbore #1 - Design #1 23	12,156.65	12,357.86	1,505.48	1,340.49	9.125	SF
ECHEVERRIA 2D-2H-D267 - Wellbore #1 - Design #1 23	200.00	200.00	40.24	39.25	40.525	CC, ES
ECHEVERRIA 2D-2H-D267 - Wellbore #1 - Design #1 23	12,156.65	12,131.81	1,349.43	1,183.58	8.136	SF
ECHEVERRIA 2E-2H-D267 - Wellbore #1 - Design #1 23	200.00	200.00	30.18	29.19	30.394	CC
ECHEVERRIA 2E-2H-D267 - Wellbore #1 - Design #1 23	300.00	299.96	30.46	28.75	17.821	ES
ECHEVERRIA 2E-2H-D267 - Wellbore #1 - Design #1 23	12,156.65	12,166.48	1,007.27	842.36	6.108	SF
ECHEVERRIA 2F-2H-D267 - Wellbore #1 - Design #1 23	200.00	200.00	20.12	19.13	20.263	CC
ECHEVERRIA 2F-2H-D267 - Wellbore #1 - Design #1 23	300.00	300.00	20.37	18.66	11.917	ES
ECHEVERRIA 2F-2H-D267 - Wellbore #1 - Design #1 23	12,156.65	12,331.40	638.88	478.59	3.986	SF
ECHEVERRIA 2G-2H-D267 - Wellbore #1 - Design #1 23	200.00	200.00	10.06	9.07	10.131	CC
ECHEVERRIA 2G-2H-D267 - Wellbore #1 - Design #1 23	300.00	300.00	10.31	8.60	6.033	ES
ECHEVERRIA 2G-2H-D267 - Wellbore #1 - Design #1 23	12,156.65	12,207.38	339.38	175.65	2.073	SF
ECHEVERRIA 2I-2H-D267 - Wellbore #1 - Design #1 23A	200.00	199.00	9.79	8.80	9.891	CC, ES
ECHEVERRIA 2I-2H-D267 - Wellbore #1 - Design #1 23A	12,156.65	12,276.52	437.19	275.10	2.697	SF
ECHEVERRIA 2J-2H-D267 - Wellbore #1 - Design #1 23	279.96	278.81	19.65	18.09	12.589	CC, ES
ECHEVERRIA 2J-2H-D267 - Wellbore #1 - Design #1 23	12,156.65	12,257.61	659.90	494.73	3.995	SF
ECHEVERRIA 2K-2H-D267 - Wellbore #1 - Design #1 23	200.00	199.00	29.90	28.91	30.224	CC
ECHEVERRIA 2K-2H-D267 - Wellbore #1 - Design #1 23	300.00	298.37	30.43	28.73	17.882	ES
ECHEVERRIA 2K-2H-D267 - Wellbore #1 - Design #1 23	12,156.65	12,404.88	978.26	814.42	5.971	SF
ECHEVERRIA 2L-2H-D267 - Wellbore #1 - Design #1 23	200.00	199.00	39.96	38.97	40.391	CC, ES
ECHEVERRIA 2L-2H-D267 - Wellbore #1 - Design #1 23	12,156.65	12,502.58	1,120.02	959.15	6.962	SF

Anticollision Summary Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well ECHEVERRIA 2H-2H-D267
Project:	Sec 2 T2N-R67W	TVD Reference:	WELL @ 4905.00usft (Original Well Elev)
Reference Site:	Echeverria Pad	MD Reference:	WELL @ 4905.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	ECHEVERRIA 2H-2H-D267	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:	Design #1 23Apr18 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 (Echeverria)						
BARCLAY 28C-11HZ - KMG - MWD	12,156.65	17,339.00	1,621.36	1,418.45	7.990	CC, ES, SF
BBKB 15N-35HZ - KMG - MWD	7,027.77	12,400.00	1,086.66	973.02	9.562	CC, ES
BBKB 15N-35HZ - KMG - MWD	7,100.00	12,400.00	1,090.50	975.86	9.512	SF
BBKB 16N-35HZ - KMG - MWD	7,087.01	12,431.00	532.81	461.38	7.460	CC, ES
BBKB 16N-35HZ - KMG - MWD	7,100.00	12,431.00	533.07	461.39	7.437	SF
BBKB 16N-A35HZ - KMG - MWD	7,100.00	12,450.00	536.60	484.93	10.385	SF
BBKB 16N-A35HZ - KMG - MWD	7,115.96	12,450.00	536.18	484.58	10.389	CC, ES
BBKB 25E-3HZ - KMG - MWD	7,125.95	12,763.06	1,308.23	1,194.89	11.543	CC, ES
BBKB 25E-3HZ - KMG - MWD	7,200.00	12,763.06	1,311.86	1,197.68	11.490	SF
BBKB 36E-35HZ - KMG - MWD	6,985.70	12,687.00	1,630.81	1,510.52	13.557	CC
BBKB 36E-35HZ - KMG - MWD	7,000.00	12,687.00	1,630.91	1,510.42	13.535	ES
BBKB 36E-35HZ - KMG - MWD	7,100.00	12,687.00	1,636.89	1,515.35	13.468	SF
BBKB 36N-35HZ - KMG - MWD	7,032.14	12,677.00	1,431.53	1,313.77	12.157	CC, ES
BBKB 36N-35HZ - KMG - MWD	7,100.00	12,677.00	1,434.16	1,315.59	12.096	SF
BBKB 37C-35HZ - KMG - MWD	7,162.28	12,762.00	762.94	680.15	9.216	CC, ES
BBKB 37C-35HZ - KMG - MWD	7,200.00	12,762.00	764.65	681.39	9.183	SF
BBKB 37N-35HZ - KMG - MWD	7,095.64	12,575.00	870.23	764.80	8.254	CC
BBKB 37N-35HZ - KMG - MWD	7,100.00	12,575.00	870.25	764.73	8.247	ES, SF
BBKB 38C-35HZ - KMG - MWD	7,209.50	12,652.00	673.57	613.12	11.141	CC, ES, SF
BBKB 38N-35HZ - KMG - MWD	7,151.68	12,437.00	831.20	729.74	8.192	CC, ES, SF
BUTTERBALL 40C-34HZ - KMG - MWD	7,300.00	13,021.89	1,728.02	1,593.03	12.801	SF
BUTTERBALL 40C-34HZ - KMG - MWD	12,156.65	8,185.38	1,647.58	1,533.19	14.402	CC, ES
BUTTERBALL 40N-34HZ - KMG - MWD	7,100.00	12,971.30	1,835.29	1,695.93	13.169	SF
BUTTERBALL 40N-34HZ - KMG - MWD	11,453.74	8,673.04	1,783.24	1,672.13	16.050	CC
BUTTERBALL 40N-34HZ - KMG - MWD	12,156.65	7,970.42	1,785.34	1,671.29	15.654	ES
BUTTERBALL 9N-34HZ - KMG - MWD	7,100.00	12,969.00	2,294.43	2,156.57	16.642	SF
BUTTERBALL 9N-34HZ - KMG - MWD	7,200.00	12,911.73	2,291.86	2,154.63	16.701	ES
BUTTERBALL 9N-34HZ - KMG - MWD	11,037.71	9,132.32	2,285.29	2,175.12	20.745	CC
ECHEVERRIA 0-2-2 - CPR - MWD	2,668.94	2,787.40	580.98	552.39	20.323	CC
ECHEVERRIA 0-2-2 - CPR - MWD	2,700.00	2,815.03	581.20	552.20	20.042	ES
ECHEVERRIA 0-2-2 - CPR - MWD	3,000.00	3,059.14	610.65	578.52	19.008	SF
ECHEVERRIA 1 - CPR - No Survey	11,571.31	7,154.00	438.15	352.27	5.102	CC, ES, SF
ECHEVERRIA 11-2 - CPR - Gyro	1,591.39	1,539.09	390.25	378.37	32.841	CC
ECHEVERRIA 11-2 - CPR - Gyro	1,600.00	1,547.44	390.26	378.30	32.640	ES
ECHEVERRIA 11-2 - CPR - Gyro	7,800.00	7,124.58	1,122.50	1,068.46	20.769	SF
ECHEVERRIA 1-2 - CPR - Gyro	8,773.38	7,113.42	508.37	449.77	8.676	CC, ES
ECHEVERRIA 1-2 - CPR - Gyro	8,800.00	7,113.61	509.06	450.38	8.675	SF
ECHEVERRIA 12-2 - CPR - Gyro	9,505.53	7,138.36	971.06	904.15	14.513	CC, ES
ECHEVERRIA 12-2 - CPR - Gyro	9,600.00	7,138.42	975.65	908.18	14.462	SF
ECHEVERRIA 13-2 - CPR - Gyro	10,433.28	7,139.89	1,019.36	939.45	12.756	CC, ES
ECHEVERRIA 13-2 - CPR - Gyro	10,500.00	7,139.87	1,021.54	941.20	12.715	SF
ECHEVERRIA 14-2 - CPR - Gyro	12,156.65	7,163.20	1,086.14	978.36	10.077	CC, ES, SF
ECHEVERRIA 2-0-2 - CPR - Gyro	5,075.08	4,925.95	88.92	46.16	2.080	CC
ECHEVERRIA 2-0-2 - CPR - Gyro	5,100.00	4,950.51	89.03	45.96	2.067	ES, SF
ECHEVERRIA 21-2 - CPR - Gyro	8,122.17	7,123.56	343.70	289.24	6.310	CC, ES, SF
ECHEVERRIA 22-2 - CPR - Gyro	9,330.36	7,119.26	737.93	673.28	11.416	CC, ES
ECHEVERRIA 22-2 - CPR - Gyro	9,500.00	7,118.29	757.17	689.77	11.234	SF
ECHEVERRIA 23-2 - CPR - Gyro	10,417.58	7,129.33	651.77	572.14	8.185	CC, ES
ECHEVERRIA 23-2 - CPR - Gyro	10,500.00	7,129.75	656.96	575.49	8.064	SF
ECHEVERRIA 24-2 - CPR - Gyro	12,156.65	7,139.34	639.77	532.81	5.982	CC, ES, SF
ECHEVERRIA 2-8-2 - CPR - MWD	12,156.65	7,249.17	459.52	385.25	6.187	CC, ES, SF
ECHEVERRIA 2A-2H - CPR - MWD	4,210.94	4,125.19	75.14	41.30	2.221	CC, ES, SF
ECHEVERRIA 2B-2H - CPR - MWD	7,566.80	7,198.64	137.49	83.29	2.537	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 ECHEVERRIA 2H-2H-D267
Project:	Sec 2 T2N-R67W	TVD Reference:	WELL @ 4905.00usft (Original Well Elev)
Reference Site:	Echeverria Pad	MD Reference:	WELL @ 4905.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	ECHEVERRIA 2H-2H-D267	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:	Design #1 23Apr18 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 (Echeverria)						
ECHEVERRIA 4-2-2 - CPR - MWD	8,635.80	7,218.22	1,043.15	983.61	17.521	CC, ES
ECHEVERRIA 4-2-2 - CPR - MWD	8,900.00	7,214.31	1,076.08	1,012.90	17.032	SF
ECHEVERRIA 4-4-2 - CPR - MWD	10,074.19	7,130.48	1,051.48	977.32	14.180	CC
ECHEVERRIA 4-4-2 - CPR - MWD	10,100.00	7,130.47	1,051.79	977.12	14.085	ES
ECHEVERRIA 4-4-2 - CPR - MWD	10,300.00	7,130.44	1,075.45	997.40	13.778	SF
ECHEVERRIA C-2-320-W - CPR - MWD	9,985.88	7,281.28	225.69	151.51	3.043	CC, ES, SF
ENDERSON 3-11 - KMG - Gyro	12,156.65	7,149.47	1,056.17	986.20	15.095	CC, ES, SF
GORDON RED V 10-1 - KMG - Gyro	12,156.65	7,234.22	2,269.92	2,166.57	21.964	CC, ES, SF
HSR-ENDERSON 4-11A - KMG - Gyro	12,156.65	7,183.48	1,342.58	1,246.66	13.998	CC, ES, SF
HSR-WITTEMEYER 7-2A - KMG - Gyro	9,348.93	7,112.06	1,523.21	1,458.30	23.469	CC, ES
HSR-WITTEMEYER 7-2A - KMG - Gyro	9,800.00	7,108.69	1,588.59	1,517.24	22.265	SF
KIYOTA 4A-35H-O367 - CPR - MWD	7,000.00	6,929.03	1,194.59	1,137.77	21.024	SF
KIYOTA 4A-35H-O367 - CPR - MWD	7,180.47	7,000.45	1,179.95	1,124.63	21.330	CC, ES
KIYOTA 4B-35H-O367 - CPR - MWD	7,100.00	7,044.23	1,350.45	1,294.10	23.966	SF
KIYOTA 4B-35H-O367 - CPR - MWD	7,261.38	7,063.92	1,338.16	1,282.85	24.194	CC, ES
KIYOTA 4C-35H-O367 - CPR - MWD	7,100.00	7,085.00	1,426.50	1,371.48	25.926	SF
KIYOTA 4C-35H-O367 - CPR - MWD	7,179.60	7,085.00	1,423.32	1,368.65	26.034	CC, ES
KIYOTA 4D-35H-O367 - CPR - MWD	7,100.00	7,127.00	1,535.01	1,479.73	27.770	SF
KIYOTA 4D-35H-O367 - CPR - MWD	7,242.51	7,127.00	1,525.29	1,470.57	27.873	CC, ES
MATSUSHIMA 35-13L - KMG - Gyro	6,061.05	5,860.12	769.43	719.18	15.311	CC
MATSUSHIMA 35-13L - KMG - Gyro	6,200.00	5,995.64	770.15	718.69	14.964	ES
MATSUSHIMA 35-13L - KMG - Gyro	6,600.00	6,384.93	786.33	731.61	14.368	SF
PANCOST 10-2 - KMG - MWD	10,492.40	7,254.08	1,642.63	1,558.67	19.565	CC
PANCOST 10-2 - KMG - MWD	10,500.00	7,254.12	1,642.64	1,558.52	19.528	ES
PANCOST 10-2 - KMG - MWD	10,900.00	7,256.13	1,692.44	1,601.13	18.535	SF
PANCOST 23-2 - KMG - MWD	11,337.86	7,261.00	1,131.93	1,036.77	11.895	CC, ES
PANCOST 23-2 - KMG - MWD	11,500.00	7,260.71	1,143.48	1,045.23	11.639	SF
PANCOST 36-2 - KMG - MWD	12,156.65	7,411.17	1,321.17	1,207.70	11.643	CC, ES, SF
PENNINGTON 28N-2HZ - KMG - MWD	12,156.65	7,499.00	1,318.09	1,208.93	12.074	CC, ES, SF
PENNINGTON 28N-2HZX - KMG - MWD	7,921.24	11,763.00	1,265.71	1,153.88	11.318	CC, ES, SF
RICHARDSON V 3-16 - KMG - Gyro	12,025.84	7,134.90	2,166.48	2,061.30	20.597	CC, ES
RICHARDSON V 3-16 - KMG - Gyro	12,156.65	7,134.13	2,170.43	2,063.75	20.346	SF
RICHARDSON V 3-1JI - KMG - Gyro	331.27	349.85	1,381.86	1,379.83	681.508	CC
RICHARDSON V 3-1JI - KMG - Gyro	400.00	416.65	1,382.13	1,379.62	551.709	ES
RICHARDSON V 3-1JI - KMG - Gyro	8,100.00	7,169.97	2,272.29	2,217.54	41.506	SF
RICHARDSON V 3-2 - KMG - No Survey	200.00	207.00	2,724.72	2,723.85	3,142.729	CC
RICHARDSON V 3-2 - KMG - No Survey	300.00	307.00	2,724.95	2,723.55	1,941.227	ES
RICHARDSON V 3-2 - KMG - No Survey	10,100.00	7,177.00	4,119.67	4,063.99	73.998	SF
RICHARDSON V 3-8 - KMG - Gyro	0.00	0.00	1,524.82			
RICHARDSON V 3-8 - KMG - Gyro	300.00	293.70	1,525.65	1,523.94	894.152	ES
RICHARDSON V 3-8 - KMG - Gyro	9,700.00	7,191.31	2,009.89	1,942.08	29.639	SF
RICHARDSON V 3-9 - KMG - Gyro	10,711.25	7,228.42	2,096.05	2,011.47	24.782	CC, ES
RICHARDSON V 3-9 - KMG - Gyro	11,100.00	7,221.96	2,131.78	2,043.54	24.159	SF
ROLLIE J VINCENT 1 - Kauffman - Gyro	9,226.47	7,123.06	1,493.69	1,430.58	23.670	CC, ES
ROLLIE J VINCENT 1 - Kauffman - Gyro	9,700.00	7,122.45	1,566.95	1,497.32	22.505	SF
VOLLMAR 28N-11HZ - KMG - MWD	12,156.65	12,881.00	973.84	806.78	5.829	CC, ES, SF
VOLLMAR 29C-11HZ - KMG - MWD	12,156.65	13,082.00	646.48	527.11	5.416	CC, ES, SF
VOLLMAR 3N-11HZ - KMG - MWD	12,156.65	12,934.00	548.16	482.22	8.313	CC, ES, SF
VOLLMAR 4N-11HZ - KMG - MWD	12,156.65	13,131.00	942.20	759.79	5.165	CC, ES, SF
VYNCKIER 15-2A7952 - KMG - Gyro	11,986.83	7,132.66	1,622.00	1,517.38	15.503	CC
VYNCKIER 15-2A7952 - KMG - Gyro	12,000.00	7,132.88	1,622.05	1,517.14	15.461	ES
VYNCKIER 15-2A7952 - KMG - Gyro	12,156.65	7,135.58	1,630.86	1,522.90	15.106	SF
WITTEMEYER HSR 2-2 - KMG - Gyro	7,951.92	7,113.11	1,435.28	1,381.24	26.558	CC, ES, SF

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



Anticollision Summary Report

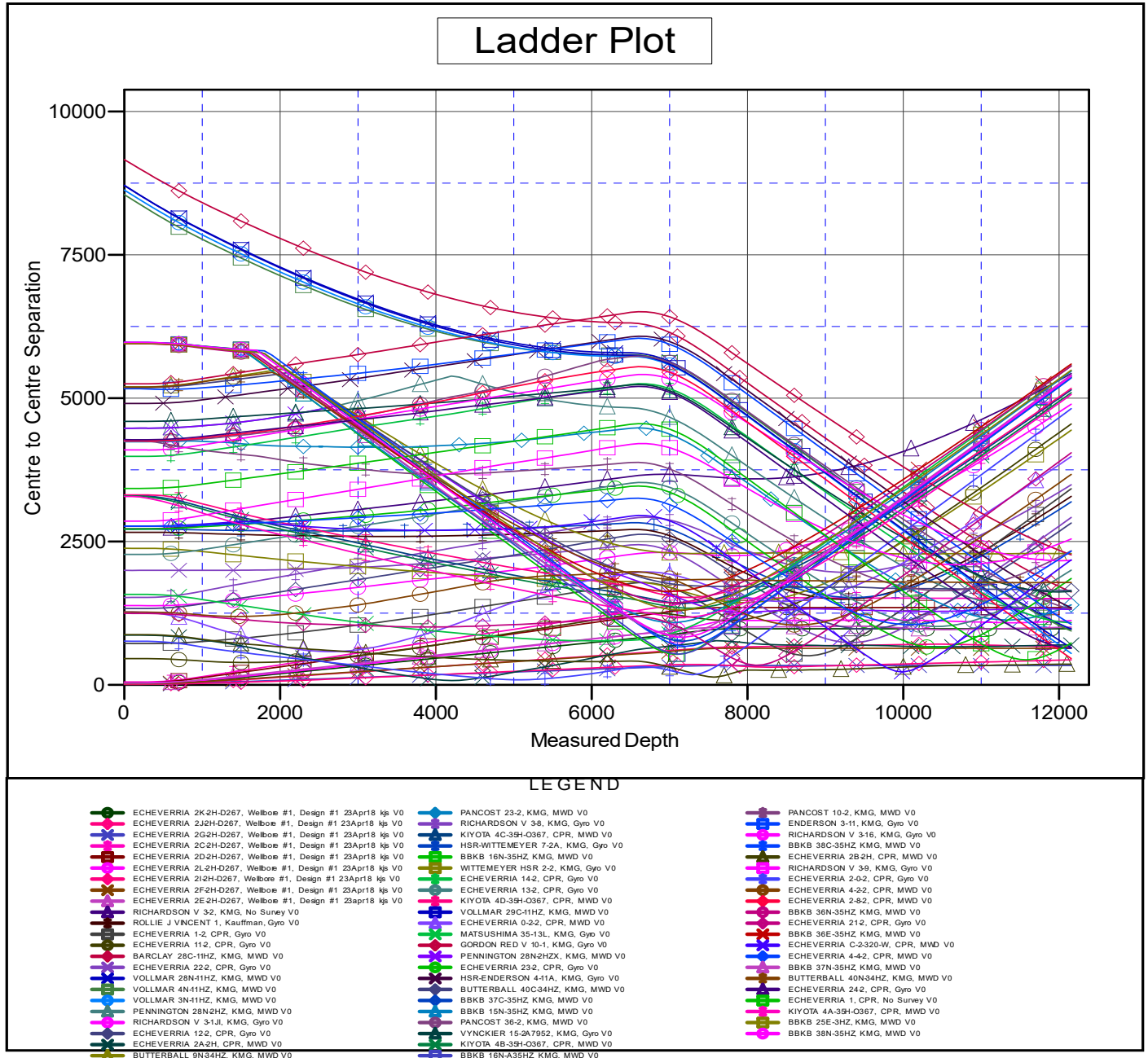
Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well ECHEVERRIA 2H-2H-D267
Project:	Sec 2 T2N-R67W	TVD Reference:	WELL @ 4905.00usft (Original Well Elev)
Reference Site:	Echeverria Pad	MD Reference:	WELL @ 4905.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	ECHEVERRIA 2H-2H-D267	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:	Design #1 23Apr18 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						

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well ECHEVERRIA 2H-2H-D267
Project:	Sec 2 T2N-R67W	TVD Reference:	WELL @ 4905.00usft (Original Well Elev)
Reference Site:	Echeverria Pad	MD Reference:	WELL @ 4905.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	ECHEVERRIA 2H-2H-D267	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:	Design #1 23Apr18 kjs	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4905.00usft (Original Well E
Offset Depths are relative to Offset Datum
Central Meridian is -105.50000000

Coordinates are relative to: ECHEVERRIA 2H-2H-D267
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.41°



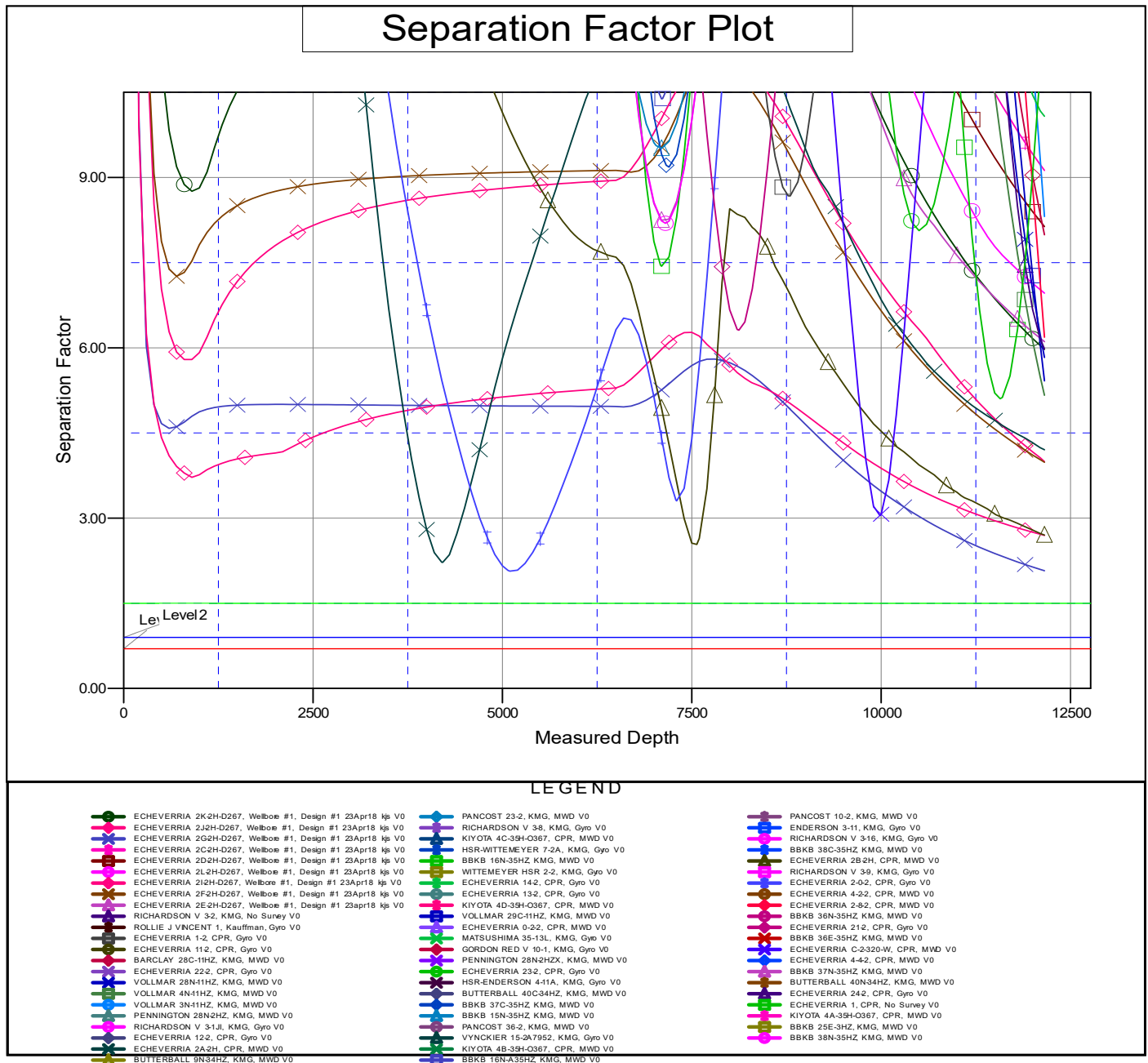
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Summary Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well ECHEVERRIA 2H-2H-D267
Project:	Sec 2 T2N-R67W	TVD Reference:	WELL @ 4905.00usft (Original Well Elev)
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Site Error:	0.00 usft	North Reference:	True
Reference Well:	ECHEVERRIA 2H-2H-D267	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:	Design #1 23Apr18 kjs	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4905.00usft (Original Well E
Offset Depths are relative to Offset Datum
Central Meridian is -105.50000000

Coordinates are relative to: ECHEVERRIA 2H-2H-D267
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.41°



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