



## **Crestone Peak Resources**

**DJ BASIN**

**Kugel Pad Sec.18-T2N-R67W**

**Kugel 1K-18H-H267**

**Kugel 1K-18H-H267 Wellbore #1**

**Survey: Survey #1**

## **Standard Survey Report**

**18 July, 2019**



**CRESTONE PEAK**  
RESOURCES

<b>Company:</b>	Crestone Peak Resources	<b>Local Co-ordinate Reference:</b>	Well Kugel 1K-18H-H267
<b>Project:</b>	DJ BASIN	<b>TVD Reference:</b>	WELL @ 4976.0ft (Ensign 153 RKB - 23')
<b>Site:</b>	Kugel Pad Sec.18-T2N-R67W	<b>MD Reference:</b>	WELL @ 4976.0ft (Ensign 153 RKB - 23')
<b>Well:</b>	Kugel 1K-18H-H267	<b>North Reference:</b>	True
<b>Wellbore:</b>	Kugel 1K-18H-H267 Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	US_EDM

Project		DJ BASIN	
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site	Kugel Pad Sec.18-T2N-R67W				
Site Position:		Northing:	1,294,300.39 usft	Latitude:	40.139825
From:	Lat/Long	Easting:	3,160,349.57 usft	Longitude:	-104.926457
Position Uncertainty:	0.0 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.37 °

Well	Kugel 1K-18H-H267					
Well Position	+N/-S	0.0 ft	Northing:	1,294,200.56 usft	Latitude:	40.139551
	+E/-W	0.0 ft	Easting:	3,160,350.22 usft	Longitude:	-104.926457
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	4,953.0 ft

Wellbore	Kugel 1K-18H-H267 Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	7/10/2019	8.30	66.52	52,036

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	3.04	

Survey Program		Date	7/18/2019		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
114.0	15,195.0	Survey #1 (Kugel 1K-18H-H267 Wellbore	MWD+HDGM	OWSG MWD + HDGM	

Survey										
	Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	1.0	0.00	236.69	1.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL 2218'FNL & 682'FEL, Sec.18										
	114.0	0.18	236.69	114.0	-0.1	-0.1	-0.1	0.16	0.16	0.00
	205.0	1.85	111.45	205.0	-0.7	1.1	-0.7	2.15	1.84	-137.63
	297.0	5.01	98.70	296.8	-1.9	6.5	-1.5	3.51	3.43	-13.86
	387.0	5.89	100.28	386.4	-3.3	14.9	-2.5	0.99	0.98	1.76
	470.0	6.42	114.52	468.9	-6.0	23.3	-4.7	1.94	0.64	17.16
	532.0	7.48	126.86	530.5	-9.8	29.7	-8.2	2.94	1.71	19.90
	615.0	8.30	140.23	612.7	-17.7	37.8	-15.6	2.41	0.99	16.11
	697.0	8.51	153.61	693.8	-27.7	44.3	-25.3	2.39	0.26	16.32

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<b>Well:</b>	Kugel 1K-18H-H267	<b>North Reference:</b>	True
<b>Wellbore:</b>	Kugel 1K-18H-H267 Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	US_EDM

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
780.0	8.13	160.65	776.0	-38.7	49.0	-36.0	1.31	-0.46	8.48
867.0	7.06	165.30	862.2	-49.7	52.4	-46.8	1.42	-1.23	5.34
950.0	6.08	166.16	944.6	-58.9	54.7	-55.9	1.19	-1.18	1.04
1,036.0	6.36	167.25	1,030.1	-67.9	56.9	-64.8	0.35	0.33	1.27
1,126.0	6.93	169.94	1,119.5	-78.2	58.9	-74.9	0.72	0.63	2.99
1,216.0	5.76	168.61	1,209.0	-87.9	60.8	-84.6	1.31	-1.30	-1.48
1,306.0	6.46	169.62	1,298.5	-97.3	62.6	-93.9	0.79	0.78	1.12
1,396.0	5.99	169.26	1,387.9	-106.9	64.4	-103.4	0.52	-0.52	-0.40
1,486.0	6.31	170.83	1,477.4	-116.4	66.0	-112.8	0.40	0.36	1.74
1,576.0	5.21	166.41	1,567.0	-125.3	67.8	-121.5	1.32	-1.22	-4.91
1,666.0	4.74	150.86	1,656.6	-132.5	70.5	-128.6	1.58	-0.52	-17.28
1,755.0	5.54	149.05	1,745.3	-139.4	74.5	-135.2	0.92	0.90	-2.03
1,845.0	5.55	155.81	1,834.8	-147.1	78.6	-142.7	0.73	0.01	7.51
1,935.0	5.05	157.41	1,924.5	-154.7	81.9	-150.2	0.58	-0.56	1.78
2,025.0	5.30	161.51	2,014.1	-162.3	84.7	-157.6	0.50	0.28	4.56
2,115.0	6.75	169.97	2,103.6	-171.5	86.9	-166.6	1.89	1.61	9.40
2,205.0	7.69	175.51	2,192.9	-182.7	88.3	-177.7	1.30	1.04	6.16
2,294.0	7.65	172.46	2,281.1	-194.5	89.6	-189.5	0.46	-0.04	-3.43
2,354.0	7.74	167.71	2,340.5	-202.4	91.0	-197.3	1.07	0.15	-7.92
2,464.0	6.86	161.05	2,449.7	-215.8	94.7	-210.5	1.11	-0.80	-6.05
2,553.0	6.07	152.97	2,538.1	-225.1	98.5	-219.5	1.35	-0.89	-9.08
2,643.0	7.74	151.39	2,627.4	-234.6	103.6	-228.8	1.87	1.86	-1.76
2,732.0	7.56	159.30	2,715.6	-245.4	108.5	-239.3	1.20	-0.20	8.89
2,821.0	6.68	158.77	2,804.0	-255.7	112.5	-249.3	0.99	-0.99	-0.60
2,910.0	7.47	155.08	2,892.3	-265.7	116.8	-259.2	1.02	0.89	-4.15
2,999.0	6.51	154.55	2,980.6	-275.5	121.4	-268.7	1.08	-1.08	-0.60
3,088.0	5.80	153.67	3,069.1	-284.1	125.6	-277.1	0.80	-0.80	-0.99
3,177.0	5.54	158.59	3,157.7	-292.2	129.1	-284.9	0.62	-0.29	5.53
3,277.0	4.31	163.34	3,257.3	-300.3	132.0	-292.8	1.29	-1.23	4.75
3,366.0	4.84	159.47	3,346.0	-307.0	134.2	-299.4	0.69	0.60	-4.35
3,455.0	6.60	167.91	3,434.6	-315.5	136.6	-307.8	2.19	1.98	9.48
3,544.0	7.91	166.85	3,522.9	-326.5	139.1	-318.6	1.48	1.47	-1.19
3,633.0	6.60	166.68	3,611.1	-337.4	141.7	-329.4	1.47	-1.47	-0.19
3,722.0	7.39	156.48	3,699.5	-347.6	145.1	-339.4	1.65	0.89	-11.46
3,811.0	6.16	156.66	3,787.9	-357.3	149.3	-348.8	1.38	-1.38	0.20
3,900.0	6.95	156.66	3,876.3	-366.6	153.3	-357.9	0.89	0.89	0.00
3,989.0	5.98	157.19	3,964.7	-375.8	157.3	-366.9	1.09	-1.09	0.60
4,078.0	7.39	152.44	4,053.1	-385.2	161.7	-376.0	1.70	1.58	-5.34
4,167.0	6.95	157.19	4,141.4	-395.2	166.4	-385.8	0.83	-0.49	5.34
4,257.0	5.80	165.10	4,230.9	-404.6	169.7	-395.0	1.60	-1.28	8.79
4,346.0	6.51	155.25	4,319.3	-413.5	173.0	-403.8	1.43	0.80	-11.07
4,435.0	5.80	158.94	4,407.8	-422.3	176.7	-412.3	0.91	-0.80	4.15
4,523.0	7.30	162.64	4,495.3	-431.8	180.0	-421.6	1.77	1.70	4.20

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<b>Well:</b>	Kugel 1K-18H-H267	<b>North Reference:</b>	True
<b>Wellbore:</b>	Kugel 1K-18H-H267 Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	US_EDM

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,613.0	6.95	164.75	4,584.6	-442.5	183.1	-432.2	0.49	-0.39	2.34
4,702.0	5.89	171.25	4,673.0	-452.2	185.2	-441.8	1.44	-1.19	7.30
4,791.0	5.89	156.84	4,761.5	-460.9	187.7	-450.3	1.66	0.00	-16.19
4,880.0	6.77	147.34	4,850.0	-469.5	192.4	-458.7	1.53	0.99	-10.67
4,969.0	7.30	146.11	4,938.3	-478.7	198.3	-467.5	0.62	0.60	-1.38
5,058.0	6.95	144.00	5,026.6	-487.7	204.7	-476.2	0.49	-0.39	-2.37
5,147.0	6.86	154.02	5,115.0	-496.8	210.1	-485.0	1.36	-0.10	11.26
5,236.0	7.47	153.14	5,203.3	-506.8	215.1	-494.7	0.70	0.69	-0.99
5,325.0	5.72	151.91	5,291.7	-515.9	219.8	-503.5	1.97	-1.97	-1.38
5,414.0	6.77	155.60	5,380.2	-524.5	224.0	-511.9	1.26	1.18	4.15
5,504.0	6.51	160.53	5,469.6	-534.2	227.9	-521.3	0.70	-0.29	5.48
5,593.0	6.60	164.04	5,558.0	-543.9	231.0	-530.8	0.46	0.10	3.94
5,682.0	6.33	155.60	5,646.4	-553.2	234.5	-540.0	1.11	-0.30	-9.48
5,771.0	6.86	158.42	5,734.8	-562.7	238.4	-549.2	0.70	0.60	3.17
5,860.0	7.47	153.32	5,823.1	-572.8	243.0	-559.1	0.99	0.69	-5.73
5,949.0	7.39	149.98	5,911.4	-582.9	248.5	-568.9	0.49	-0.09	-3.75
6,038.0	7.03	147.52	5,999.7	-592.4	254.2	-578.1	0.53	-0.40	-2.76
6,127.0	6.60	158.94	6,088.1	-601.8	259.0	-587.2	1.59	-0.48	12.83
6,217.0	6.86	161.05	6,177.4	-611.7	262.6	-596.9	0.40	0.29	2.34
6,306.0	7.39	156.13	6,265.8	-622.0	266.7	-607.0	0.91	0.60	-5.53
6,395.0	7.21	153.14	6,354.0	-632.2	271.5	-616.9	0.47	-0.20	-3.36
6,484.0	2.37	140.66	6,442.7	-638.6	275.2	-623.1	5.53	-5.44	-14.02
6,573.0	3.43	29.22	6,531.6	-637.7	277.7	-622.1	5.43	1.19	-125.21
6,662.0	7.47	10.59	6,620.2	-629.7	280.0	-614.0	4.90	4.54	-20.93
6,752.0	11.70	3.73	6,709.0	-614.8	281.7	-599.0	4.86	4.70	-7.62
6,841.0	18.29	1.62	6,794.9	-591.8	282.7	-576.0	7.43	7.40	-2.37
6,930.0	26.64	3.38	6,877.0	-557.9	284.2	-542.0	9.41	9.38	1.98
7,019.0	34.56	2.32	6,953.6	-512.7	286.4	-496.8	8.92	8.90	-1.19
7,108.0	41.24	4.26	7,023.8	-458.1	289.7	-442.1	7.62	7.51	2.18
7,197.0	49.33	5.31	7,086.4	-395.2	295.0	-379.0	9.13	9.09	1.18
7,286.0	57.77	2.50	7,139.2	-323.8	299.7	-307.5	9.82	9.48	-3.16
7,376.0	64.98	3.73	7,182.3	-245.0	304.1	-228.5	8.10	8.01	1.37
7,465.0	72.02	2.68	7,214.9	-162.4	308.7	-145.8	7.99	7.91	-1.18
7,554.0	76.59	1.62	7,238.9	-76.8	311.9	-60.1	5.26	5.13	-1.19
7,643.0	82.83	2.15	7,254.8	10.7	314.8	27.4	7.04	7.01	0.60
7,667.7	84.49	1.95	7,257.6	35.2	315.6	51.9	6.77	6.72	-0.80
TPZ - 2179'FNL, 365'FEL, Sec.18									
7,701.9	86.79	1.68	7,260.2	69.3	316.7	86.0	6.77	6.72	-0.80
TPZ 2145'FNL & 360'FEL, Sec.18									
7,732.0	88.81	1.44	7,261.3	99.4	317.5	116.1	6.77	6.72	-0.79
7,821.0	89.34	1.27	7,262.8	188.3	319.6	205.0	0.63	0.60	-0.19
7,910.0	89.43	1.09	7,263.7	277.3	321.5	294.0	0.23	0.10	-0.20
7,999.0	88.81	1.44	7,265.1	366.3	323.4	382.9	0.80	-0.70	0.39
8,088.0	89.08	2.85	7,266.7	455.2	326.8	471.9	1.61	0.30	1.58

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Survey									
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8,178.0	89.60	1.09	7,267.8	545.1	329.9	561.9	2.04	0.58	-1.96
8,267.0	91.98	0.92	7,266.5	634.1	331.4	650.8	2.68	2.67	-0.19
8,356.0	91.80	0.57	7,263.6	723.1	332.6	739.7	0.44	-0.20	-0.39
8,445.0	90.84	0.39	7,261.5	812.0	333.3	828.6	1.10	-1.08	-0.20
8,534.0	90.04	0.57	7,260.9	901.0	334.1	917.5	0.92	-0.90	0.20
8,623.0	91.89	0.21	7,259.4	990.0	334.7	1,006.4	2.12	2.08	-0.40
8,712.0	92.15	359.86	7,256.2	1,078.9	334.7	1,095.2	0.49	0.29	-0.39
8,801.0	92.24	359.51	7,252.8	1,167.9	334.2	1,184.0	0.41	0.10	-0.39
8,890.0	92.15	359.16	7,249.4	1,256.8	333.2	1,272.7	0.41	-0.10	-0.39
8,979.0	92.59	358.98	7,245.7	1,345.7	331.8	1,361.4	0.53	0.49	-0.20
9,068.0	91.80	0.57	7,242.3	1,434.7	331.4	1,450.2	1.99	-0.89	1.79
9,157.0	91.63	0.39	7,239.7	1,523.6	332.2	1,539.1	0.28	-0.19	-0.20
9,247.0	90.31	1.62	7,238.1	1,613.6	333.7	1,629.0	2.00	-1.47	1.37
9,336.0	90.22	1.62	7,237.7	1,702.5	336.2	1,718.0	0.10	-0.10	0.00
9,425.0	90.13	1.62	7,237.4	1,791.5	338.8	1,807.0	0.10	-0.10	0.00
9,514.0	90.13	1.27	7,237.2	1,880.5	341.0	1,895.9	0.39	0.00	-0.39
9,603.0	89.96	1.09	7,237.2	1,969.5	342.8	1,984.9	0.28	-0.19	-0.20
9,692.0	89.69	0.92	7,237.4	2,058.4	344.4	2,073.8	0.36	-0.30	-0.19
9,781.0	89.69	1.09	7,237.9	2,147.4	346.0	2,162.8	0.19	0.00	0.19
9,871.0	89.34	0.74	7,238.7	2,237.4	347.4	2,252.7	0.55	-0.39	-0.39
9,935.6	89.91	0.10	7,239.1	2,302.0	347.9	2,317.2	1.33	0.89	-0.99
Kugel 1K 2302 TGT									
9,960.0	90.13	359.86	7,239.1	2,326.4	347.9	2,341.6	1.33	0.89	-0.99
10,049.0	90.40	359.16	7,238.7	2,415.4	347.1	2,430.4	0.84	0.30	-0.79
10,138.0	90.40	359.69	7,238.1	2,504.4	346.2	2,519.2	0.60	0.00	0.60
10,227.0	90.48	358.63	7,237.4	2,593.4	344.9	2,608.0	1.19	0.09	-1.19
10,316.0	89.96	1.09	7,237.0	2,682.4	344.7	2,696.9	2.83	-0.58	2.76
10,405.0	89.69	1.09	7,237.3	2,771.4	346.4	2,785.8	0.30	-0.30	0.00
10,494.0	89.69	0.74	7,237.8	2,860.3	347.8	2,874.8	0.39	0.00	-0.39
10,583.0	89.60	0.39	7,238.3	2,949.3	348.7	2,963.7	0.41	-0.10	-0.39
10,673.0	89.52	0.04	7,239.0	3,039.3	349.0	3,053.6	0.40	-0.09	-0.39
10,762.0	89.87	359.34	7,239.5	3,128.3	348.5	3,142.4	0.88	0.39	-0.79
10,851.0	89.78	1.09	7,239.8	3,217.3	348.9	3,231.3	1.97	-0.10	1.97
10,940.0	89.69	0.92	7,240.2	3,306.3	350.4	3,320.3	0.22	-0.10	-0.19
11,029.0	90.22	0.92	7,240.3	3,395.3	351.9	3,409.2	0.60	0.60	0.00
11,118.0	91.19	0.57	7,239.2	3,484.3	353.0	3,498.1	1.16	1.09	-0.39
11,207.0	89.87	2.50	7,238.3	3,573.2	355.4	3,587.1	2.63	-1.48	2.17
11,296.0	90.31	2.15	7,238.2	3,662.2	359.0	3,676.1	0.63	0.49	-0.39
11,386.0	90.22	1.80	7,237.8	3,752.1	362.1	3,766.0	0.40	-0.10	-0.39
11,475.0	90.04	1.27	7,237.6	3,841.1	364.5	3,855.0	0.63	-0.20	-0.60
11,564.0	90.40	0.74	7,237.2	3,930.1	366.1	3,944.0	0.72	0.40	-0.60
11,653.0	90.84	0.74	7,236.3	4,019.1	367.2	4,032.9	0.49	0.49	0.00
11,742.0	89.87	1.09	7,235.7	4,108.0	368.6	4,121.8	1.16	-1.09	0.39

<b>Company:</b>	Crestone Peak Resources	<b>Local Co-ordinate Reference:</b>	Well Kugel 1K-18H-H267
<b>Project:</b>	DJ BASIN	<b>TVD Reference:</b>	WELL @ 4976.0ft (Ensign 153 RKB - 23')
<b>Site:</b>	Kugel Pad Sec.18-T2N-R67W	<b>MD Reference:</b>	WELL @ 4976.0ft (Ensign 153 RKB - 23')
<b>Well:</b>	Kugel 1K-18H-H267	<b>North Reference:</b>	True
<b>Wellbore:</b>	Kugel 1K-18H-H267 Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	US_EDM

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,831.0	89.52	1.09	7,236.2	4,197.0	370.3	4,210.8	0.39	-0.39	0.00
11,920.0	89.87	0.92	7,236.7	4,286.0	371.9	4,299.7	0.44	0.39	-0.19
12,009.0	90.31	0.57	7,236.5	4,375.0	373.0	4,388.6	0.63	0.49	-0.39
12,099.0	90.31	0.21	7,236.1	4,465.0	373.7	4,478.5	0.40	0.00	-0.40
12,188.0	90.40	0.04	7,235.5	4,554.0	373.9	4,567.4	0.22	0.10	-0.19
12,277.0	90.04	359.69	7,235.2	4,643.0	373.6	4,656.3	0.56	-0.40	-0.39
12,366.0	90.40	359.34	7,234.8	4,732.0	372.9	4,745.1	0.56	0.40	-0.39
12,455.0	89.78	0.57	7,234.7	4,821.0	372.8	4,834.0	1.55	-0.70	1.38
12,544.0	89.34	0.57	7,235.4	4,910.0	373.7	4,922.9	0.49	-0.49	0.00
12,633.0	89.87	0.21	7,236.0	4,999.0	374.3	5,011.8	0.72	0.60	-0.40
12,722.0	90.13	0.74	7,236.0	5,088.0	375.0	5,100.7	0.66	0.29	0.60
12,811.0	90.66	0.92	7,235.4	5,177.0	376.3	5,189.6	0.63	0.60	0.20
12,900.0	91.10	1.27	7,234.0	5,265.9	378.0	5,278.6	0.63	0.49	0.39
12,960.0	90.80	0.80	7,233.0	5,325.9	379.1	5,338.5	0.93	-0.49	-0.79
Kugel 1K 5326 TGT									
12,989.0	90.66	0.57	7,232.6	5,354.9	379.5	5,367.5	0.93	-0.49	-0.79
13,078.0	89.34	1.27	7,232.6	5,443.9	380.9	5,456.4	1.68	-1.48	0.79
13,168.0	89.52	1.27	7,233.5	5,533.9	382.9	5,546.4	0.20	0.20	0.00
13,257.0	89.69	1.44	7,234.1	5,622.8	385.0	5,635.4	0.27	0.19	0.19
13,346.0	90.48	1.44	7,234.0	5,711.8	387.2	5,724.3	0.89	0.89	0.00
13,435.0	88.90	2.32	7,234.5	5,800.8	390.1	5,813.3	2.03	-1.78	0.99
13,524.0	88.20	1.27	7,236.7	5,889.7	392.9	5,902.2	1.42	-0.79	-1.18
13,614.0	87.76	359.69	7,239.9	5,979.6	393.7	5,992.1	1.82	-0.49	-1.76
13,703.0	88.72	358.63	7,242.6	6,068.6	392.4	6,080.8	1.61	1.08	-1.19
13,792.0	89.60	359.69	7,244.0	6,157.6	391.1	6,169.6	1.55	0.99	1.19
13,881.0	89.96	359.51	7,244.3	6,246.5	390.5	6,258.5	0.45	0.40	-0.20
13,970.0	90.48	359.16	7,244.0	6,335.5	389.4	6,347.3	0.70	0.58	-0.39
14,059.0	91.80	359.69	7,242.2	6,424.5	388.5	6,436.1	1.60	1.48	0.60
14,159.0	91.28	0.39	7,239.5	6,524.5	388.6	6,535.9	0.87	-0.52	0.70
14,248.0	91.71	0.04	7,237.2	6,613.4	388.9	6,624.8	0.62	0.48	-0.39
14,338.0	89.96	0.39	7,235.9	6,703.4	389.3	6,714.6	1.98	-1.94	0.39
14,427.0	89.69	359.86	7,236.1	6,792.4	389.5	6,803.5	0.67	-0.30	-0.60
14,516.0	89.96	359.86	7,236.4	6,881.4	389.3	6,892.4	0.30	0.30	0.00
14,605.0	90.75	359.69	7,235.9	6,970.4	388.9	6,981.2	0.91	0.89	-0.19
14,694.0	89.43	0.74	7,235.7	7,059.4	389.2	7,070.1	1.90	-1.48	1.18
14,783.0	89.43	0.57	7,236.6	7,148.4	390.3	7,159.1	0.19	0.00	-0.19
14,873.0	90.04	0.39	7,237.0	7,238.4	391.0	7,249.0	0.71	0.68	-0.20
14,962.0	90.84	0.39	7,236.3	7,327.4	391.6	7,337.9	0.90	0.90	0.00
15,051.0	91.10	0.21	7,234.8	7,416.4	392.1	7,426.7	0.36	0.29	-0.20
15,130.0	91.45	359.69	7,233.1	7,495.4	392.0	7,505.6	0.79	0.44	-0.66
Last Survey - 15,130' MD									
15,195.0	91.45	359.69	7,231.4	7,560.4	391.7	7,570.5	0.00	0.00	0.00
PTB - 14'FNL, 370'FEL, Sec.7 - BHL 10'FNL & 360'FEL, Sec.7									

<b>Company:</b>	Crestone Peak Resources	<b>Local Co-ordinate Reference:</b>	Well Kugel 1K-18H-H267
<b>Project:</b>	DJ BASIN	<b>TVD Reference:</b>	WELL @ 4976.0ft (Ensign 153 RKB - 23')
<b>Site:</b>	Kugel Pad Sec.18-T2N-R67W	<b>MD Reference:</b>	WELL @ 4976.0ft (Ensign 153 RKB - 23')
<b>Well:</b>	Kugel 1K-18H-H267	<b>North Reference:</b>	True
<b>Wellbore:</b>	Kugel 1K-18H-H267 Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	US_EDM

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
7,667.7	7,257.6	35.2	315.6	TPZ - 2179'FNL, 365'FEL, Sec.18	
15,130.0	7,233.1	7,495.4	392.0	Last Survey - 15,130' MD	
15,195.0	7,231.4	7,560.4	391.7	PTB - 14'FNL, 370'FEL, Sec.7	

Checked By: _____	Approved By: _____	Date: _____
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