



## **Crestone Peak Resources**

**DJ BASIN**

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

**Kugel 1B-18H-H267**

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

**Survey: Survey #1**

## **Standard Survey Report**

**23 September, 2019**



**CRESTONE PEAK**  
RESOURCES

<b>Company:</b>	Crestone Peak Resources	<b>Local Co-ordinate Reference:</b>	Well Kugel 1B-18H-H267
<b>Project:</b>	DJ BASIN	<b>TVD Reference:</b>	WELL @ 4977.0ft (Ensign 153 RKB - 23')
<b>Site:</b>	Kugel Pad Sec.18-T2N-R67W	<b>MD Reference:</b>	WELL @ 4977.0ft (Ensign 153 RKB - 23')
<b>Well:</b>	Kugel 1B-18H-H267	<b>North Reference:</b>	True
<b>Wellbore:</b>	Kugel 1B-18H-H267 Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	US_EDM

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

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

<b>Well</b>	Kugel 1B-18H-H267					
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	1,294,290.53 usft	<b>Latitude:</b>	40.139798
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	3,160,349.63 usft	<b>Longitude:</b>	-104.926457
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	0.0 ft	<b>Ground Level:</b>	4,954.0 ft

<b>Wellbore</b>	Kugel 1B-18H-H267 Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM	9/9/2019	8.28	66.50	52,016

<b>Design</b>	Wellbore #1				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0		346.66

<b>Survey Program</b>	<b>Date</b>	9/23/2019			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
114.0	15,590.0	Survey #1 (Kugel 1B-18H-H267 Wellbore)	MWD+HDGM	OWSG MWD + HDGM	

<b>Survey</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Vertical Section (ft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
1.0	0.00	187.47	1.0	0.0	0.0	0.0	0.23	0.23	0.00	
<b>SHL 2128°FNL &amp; 680°FEL, Sec.18</b>										
114.0	0.26	187.47	114.0	-0.3	0.0	-0.2	0.23	0.23	0.00	
206.0	0.70	270.35	206.0	-0.5	-0.6	-0.3	0.78	0.48	90.09	
297.0	1.06	259.89	297.0	-0.6	-2.0	-0.1	0.43	0.40	-11.49	
388.0	2.99	268.59	387.9	-0.8	-5.2	0.4	2.14	2.12	9.56	
470.0	3.52	264.81	469.8	-1.1	-9.9	1.2	0.70	0.65	-4.61	
533.0	4.02	266.36	532.7	-1.4	-14.0	1.9	0.81	0.79	2.46	
615.0	6.11	257.13	614.3	-2.6	-21.1	2.4	2.73	2.55	-11.26	
698.0	8.21	245.05	696.7	-6.0	-30.8	1.2	3.10	2.53	-14.55	

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<b>Site:</b>	Kugel Pad Sec.18-T2N-R67W	<b>MD Reference:</b>	WELL @ 4977.0ft (Ensign 153 RKB - 23')
<b>Well:</b>	Kugel 1B-18H-H267	<b>North Reference:</b>	True
<b>Wellbore:</b>	Kugel 1B-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)
781.0	9.30	242.80	778.7	-11.6	-42.1	-1.6	1.38	1.31	-2.71
867.0	10.54	243.02	863.4	-18.4	-55.3	-5.1	1.44	1.44	0.26
951.0	11.99	244.35	945.8	-25.6	-70.0	-8.8	1.75	1.73	1.58
1,036.0	12.66	244.12	1,028.9	-33.5	-86.4	-12.7	0.79	0.79	-0.27
1,126.0	15.02	243.04	1,116.2	-43.1	-105.6	-17.6	2.64	2.62	-1.20
1,216.0	16.54	243.22	1,202.8	-54.2	-127.5	-23.3	1.69	1.69	0.20
1,306.0	17.98	244.33	1,288.8	-65.9	-151.4	-29.2	1.64	1.60	1.23
1,396.0	19.28	246.18	1,374.1	-78.0	-177.5	-34.9	1.59	1.44	2.06
1,487.0	19.48	245.55	1,459.9	-90.3	-205.1	-40.6	0.32	0.22	-0.69
1,576.0	19.56	243.98	1,543.8	-103.0	-232.0	-46.7	0.60	0.09	-1.76
1,666.0	19.36	244.35	1,628.7	-116.1	-259.0	-53.2	0.26	-0.22	0.41
1,756.0	18.87	241.84	1,713.7	-129.4	-285.3	-60.1	1.06	-0.54	-2.79
1,846.0	17.13	243.76	1,799.3	-142.1	-310.0	-66.8	2.04	-1.93	2.13
1,935.0	16.16	244.59	1,884.6	-153.2	-332.9	-72.3	1.12	-1.09	0.93
2,025.0	15.25	245.29	1,971.2	-163.5	-355.0	-77.2	1.03	-1.01	0.78
2,115.0	14.58	247.05	2,058.2	-172.9	-376.2	-81.5	0.90	-0.74	1.96
2,205.0	14.20	247.70	2,145.3	-181.5	-396.8	-85.1	0.46	-0.42	0.72
2,295.0	13.73	248.58	2,232.7	-189.6	-417.0	-88.3	0.57	-0.52	0.98
2,385.0	15.36	253.01	2,319.8	-197.0	-438.3	-90.5	2.19	1.81	4.92
2,406.0	15.21	252.79	2,340.0	-198.6	-443.6	-90.9	0.77	-0.71	-1.05
2,555.0	15.39	248.75	2,483.8	-211.6	-480.7	-94.9	0.73	0.12	-2.71
2,644.0	15.83	249.10	2,569.5	-220.2	-503.1	-98.2	0.51	0.49	0.39
2,734.0	17.94	248.40	2,655.6	-229.7	-527.4	-101.8	2.36	2.34	-0.78
2,823.0	16.36	245.41	2,740.6	-239.9	-551.6	-106.2	2.03	-1.78	-3.36
2,912.0	17.06	244.71	2,825.9	-250.7	-574.8	-111.3	0.82	0.79	-0.79
3,001.0	17.06	247.52	2,911.0	-261.3	-598.6	-116.1	0.93	0.00	3.16
3,090.0	17.76	246.46	2,995.9	-271.7	-623.1	-120.6	0.86	0.79	-1.19
3,179.0	18.47	247.69	3,080.5	-282.5	-648.6	-125.2	0.91	0.80	1.38
3,268.0	18.11	246.29	3,165.0	-293.4	-674.3	-129.9	0.64	-0.40	-1.57
3,357.0	16.88	251.21	3,249.9	-303.1	-699.2	-133.6	2.16	-1.38	5.53
3,447.0	16.44	255.08	3,336.1	-310.6	-723.9	-135.2	1.33	-0.49	4.30
3,558.0	16.44	257.89	3,442.6	-317.9	-754.4	-135.3	0.72	0.00	2.53
3,647.0	15.74	248.75	3,528.1	-325.0	-778.0	-136.7	2.95	-0.79	-10.27
3,736.0	15.83	245.94	3,613.7	-334.3	-800.4	-140.6	0.86	0.10	-3.16
3,825.0	15.39	239.96	3,699.5	-345.1	-821.7	-146.3	1.87	-0.49	-6.72
3,914.0	15.39	239.43	3,785.3	-357.1	-842.1	-153.1	0.16	0.00	-0.60
4,003.0	15.65	239.26	3,871.0	-369.2	-862.5	-160.2	0.30	0.29	-0.19
4,093.0	16.88	241.54	3,957.4	-381.6	-884.5	-167.3	1.54	1.37	2.53
4,182.0	18.29	245.58	4,042.3	-393.6	-908.5	-173.3	2.09	1.58	4.54
4,271.0	18.91	244.88	4,126.6	-405.5	-934.3	-179.0	0.74	0.70	-0.79
4,360.0	17.76	241.19	4,211.1	-418.1	-959.3	-185.5	1.84	-1.29	-4.15
4,449.0	16.53	238.73	4,296.1	-431.2	-982.0	-193.0	1.60	-1.38	-2.76
4,538.0	15.56	239.08	4,381.7	-444.0	-1,003.0	-200.5	1.10	-1.09	0.39

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<b>Wellbore:</b>	Kugel 1B-18H-H267 Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
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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)	
4,627.0	15.30	245.94	4,467.5	-454.9	-1,024.0	-206.3	2.07	-0.29	7.71	
4,716.0	16.97	246.99	4,553.0	-464.7	-1,046.7	-210.7	1.90	1.88	1.18	
4,805.0	18.38	245.41	4,637.8	-475.7	-1,071.4	-215.6	1.67	1.58	-1.78	
4,894.0	18.47	244.18	4,722.2	-487.6	-1,096.9	-221.4	0.45	0.10	-1.38	
4,984.0	18.29	244.00	4,807.6	-500.0	-1,122.4	-227.6	0.21	-0.20	-0.20	
5,073.0	17.50	245.94	4,892.3	-511.6	-1,147.2	-233.1	1.11	-0.89	2.18	
5,162.0	17.23	253.14	4,977.3	-520.9	-1,172.0	-236.4	2.43	-0.30	8.09	
5,251.0	16.44	249.45	5,062.4	-529.1	-1,196.4	-238.8	1.49	-0.89	-4.15	
5,340.0	16.71	248.57	5,147.7	-538.2	-1,220.1	-242.2	0.41	0.30	-0.99	
5,429.0	16.09	248.05	5,233.1	-547.5	-1,243.5	-245.8	0.72	-0.70	-0.58	
5,518.0	16.80	247.34	5,318.5	-557.1	-1,266.8	-249.8	0.83	0.80	-0.80	
5,607.0	16.80	242.07	5,403.7	-568.1	-1,290.0	-255.1	1.71	0.00	-5.92	
5,696.0	16.00	242.42	5,489.1	-579.8	-1,312.2	-261.4	0.91	-0.90	0.39	
5,785.0	16.44	246.46	5,574.5	-590.5	-1,334.6	-266.6	1.36	0.49	4.54	
5,874.0	16.09	248.22	5,660.0	-600.1	-1,357.6	-270.6	0.68	-0.39	1.98	
5,963.0	17.23	252.26	5,745.2	-608.7	-1,381.7	-273.5	1.83	1.28	4.54	
6,052.0	18.29	249.10	5,830.0	-617.7	-1,407.3	-276.3	1.61	1.19	-3.55	
6,141.0	17.59	249.63	5,914.7	-627.3	-1,432.9	-279.8	0.81	-0.79	0.60	
6,231.0	17.41	245.23	6,000.5	-637.7	-1,457.9	-284.1	1.48	-0.20	-4.89	
6,320.0	17.06	244.35	6,085.5	-648.9	-1,481.7	-289.6	0.49	-0.39	-0.99	
6,409.0	16.88	244.71	6,170.6	-660.1	-1,505.2	-295.0	0.23	-0.20	0.40	
6,498.0	16.97	248.75	6,255.8	-670.3	-1,529.0	-299.5	1.33	0.10	4.54	
6,587.0	17.67	247.17	6,340.7	-680.3	-1,553.5	-303.5	0.95	0.79	-1.78	
6,676.0	16.53	242.60	6,425.8	-691.4	-1,577.2	-308.8	1.98	-1.28	-5.13	
6,765.0	16.88	241.19	6,511.1	-703.4	-1,599.8	-315.3	0.60	0.39	-1.58	
6,855.0	12.22	259.30	6,598.2	-711.5	-1,620.6	-318.4	7.18	-5.18	20.12	
6,944.0	14.42	279.86	6,684.8	-711.3	-1,640.8	-313.6	5.83	2.47	23.10	
7,033.0	18.20	296.03	6,770.3	-703.3	-1,664.2	-300.4	6.60	4.25	18.17	
7,122.0	21.46	312.21	6,854.1	-686.3	-1,688.8	-278.1	7.14	3.66	18.18	
7,211.0	24.27	328.03	6,936.1	-659.8	-1,710.6	-247.3	7.57	3.16	17.78	
7,300.0	28.75	335.58	7,015.8	-624.8	-1,729.1	-208.9	6.29	5.03	8.48	
7,389.0	35.26	338.57	7,091.2	-581.3	-1,747.4	-162.5	7.53	7.31	3.36	
7,478.0	46.60	344.20	7,158.4	-526.1	-1,765.6	-104.5	13.39	12.74	6.33	
7,567.0	55.31	347.71	7,214.4	-459.1	-1,782.3	-35.5	10.25	9.79	3.94	
7,656.0	63.22	349.82	7,259.8	-384.1	-1,797.1	40.9	9.12	8.89	2.37	
7,745.0	69.56	351.93	7,295.5	-303.6	-1,810.0	122.2	7.45	7.12	2.37	
7,834.0	72.90	355.27	7,324.1	-219.9	-1,819.4	205.8	5.17	3.75	3.75	
7,923.0	77.56	357.38	7,346.8	-134.1	-1,824.9	290.6	5.72	5.24	2.37	
8,013.0	82.75	359.32	7,362.2	-45.4	-1,827.4	377.4	6.15	5.77	2.16	
8,034.0	84.39	359.90	7,364.5	-24.6	-1,827.5	397.7	8.27	7.79	2.78	
<b>TPZ - 2177'FNL, 2508'FEL, Sec.18</b>										
8,066.0	86.88	0.79	7,367.0	7.4	-1,827.3	428.8	8.27	7.80	2.77	
<b>TPZ 2145'FNL &amp; 2520'FEL, Sec.18</b>										
8,102.0	89.69	1.78	7,368.0	43.3	-1,826.5	463.6	8.27	7.80	2.75	

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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)	
8,191.0	89.69	0.72	7,368.5	132.3	-1,824.6	549.7	1.19	0.00	-1.19	
8,280.0	91.36	359.14	7,367.7	221.3	-1,824.7	636.3	2.58	1.88	-1.78	
8,369.0	92.42	359.67	7,364.8	310.2	-1,825.6	723.1	1.33	1.19	0.60	
8,458.0	91.19	358.61	7,362.0	399.1	-1,827.0	809.9	1.82	-1.38	-1.19	
8,547.0	91.89	359.14	7,359.6	488.1	-1,828.7	896.9	0.99	0.79	0.60	
8,636.0	89.96	358.61	7,358.1	577.1	-1,830.5	983.8	2.25	-2.17	-0.60	
8,725.0	90.75	357.38	7,357.6	666.0	-1,833.6	1,071.1	1.64	0.89	-1.38	
8,814.0	90.92	359.14	7,356.3	755.0	-1,836.3	1,158.3	1.99	0.19	1.98	
8,903.0	89.16	0.19	7,356.2	843.9	-1,836.8	1,245.0	2.30	-1.98	1.18	
8,992.0	89.60	0.02	7,357.2	932.9	-1,836.6	1,331.5	0.53	0.49	-0.19	
9,081.0	90.04	0.90	7,357.5	1,021.9	-1,835.9	1,418.0	1.11	0.49	0.99	
9,170.0	90.92	1.25	7,356.7	1,110.9	-1,834.2	1,504.2	1.06	0.99	0.39	
9,259.0	91.36	1.60	7,355.0	1,199.9	-1,832.0	1,590.2	0.63	0.49	0.39	
9,348.0	89.43	1.60	7,354.3	1,288.8	-1,829.5	1,676.2	2.17	-2.17	0.00	
9,438.0	89.16	1.42	7,355.5	1,378.8	-1,827.2	1,763.2	0.36	-0.30	-0.20	
9,527.0	89.69	359.49	7,356.3	1,467.8	-1,826.5	1,849.6	2.25	0.60	-2.17	
9,616.0	89.34	359.14	7,357.1	1,556.8	-1,827.5	1,936.4	0.56	-0.39	-0.39	
9,705.0	90.75	358.61	7,357.0	1,645.8	-1,829.3	2,023.4	1.69	1.58	-0.60	
9,794.0	90.66	1.25	7,355.9	1,734.7	-1,829.4	2,110.0	2.97	-0.10	2.97	
9,883.0	92.15	2.30	7,353.8	1,823.7	-1,826.6	2,195.9	2.05	1.67	1.18	
9,972.0	90.92	0.19	7,351.4	1,912.6	-1,824.7	2,282.0	2.74	-1.38	-2.37	
10,061.0	89.78	359.14	7,350.8	2,001.6	-1,825.2	2,368.7	1.74	-1.28	-1.18	
10,150.0	90.84	358.44	7,350.3	2,090.6	-1,827.1	2,455.7	1.43	1.19	-0.79	
10,240.0	90.66	359.14	7,349.2	2,180.5	-1,829.0	2,543.7	0.80	-0.20	0.78	
10,329.0	91.19	358.44	7,347.7	2,269.5	-1,830.9	2,630.7	0.99	0.60	-0.79	
10,418.0	91.89	358.26	7,345.3	2,358.4	-1,833.4	2,717.8	0.81	0.79	-0.20	
10,507.0	92.33	358.26	7,342.1	2,447.3	-1,836.1	2,805.0	0.49	0.49	0.00	
10,596.0	92.95	0.37	7,338.0	2,536.2	-1,837.2	2,891.7	2.47	0.70	2.37	
10,685.0	91.63	0.72	7,334.4	2,625.2	-1,836.4	2,978.0	1.53	-1.48	0.39	
10,774.0	90.66	0.37	7,332.6	2,714.1	-1,835.5	3,064.4	1.16	-1.09	-0.39	
10,863.0	90.75	1.42	7,331.5	2,803.1	-1,834.1	3,150.7	1.18	0.10	1.18	
10,953.0	90.57	1.78	7,330.5	2,893.1	-1,831.6	3,237.6	0.45	-0.20	0.40	
11,042.0	89.87	359.67	7,330.2	2,982.1	-1,830.5	3,323.9	2.50	-0.79	-2.37	
11,131.0	90.40	359.84	7,329.9	3,071.1	-1,830.9	3,410.6	0.63	0.60	0.19	
11,220.0	91.19	0.37	7,328.7	3,160.1	-1,830.7	3,497.2	1.07	0.89	0.60	
11,309.0	90.84	0.72	7,327.1	3,249.0	-1,829.9	3,583.6	0.56	-0.39	0.39	
11,398.0	89.52	1.25	7,326.9	3,338.0	-1,828.3	3,669.8	1.60	-1.48	0.60	
11,454.9	89.35	0.69	7,327.4	3,394.9	-1,827.4	3,724.9	1.02	-0.30	-0.98	
<b>Kugel 1B 3395 TGT</b>										
11,488.0	89.25	0.37	7,327.8	3,428.0	-1,827.1	3,757.1	1.02	-0.30	-0.98	
11,577.0	89.78	0.19	7,328.6	3,517.0	-1,826.6	3,843.6	0.63	0.60	-0.20	
11,666.0	90.22	359.67	7,328.6	3,606.0	-1,826.7	3,930.2	0.77	0.49	-0.58	
11,755.0	89.87	358.44	7,328.5	3,695.0	-1,828.2	4,017.1	1.44	-0.39	-1.38	

<b>Company:</b>	Crestone Peak Resources	<b>Local Co-ordinate Reference:</b>	Well Kugel 1B-18H-H267
<b>Project:</b>	DJ BASIN	<b>TVD Reference:</b>	WELL @ 4977.0ft (Ensign 153 RKB - 23')
<b>Site:</b>	Kugel Pad Sec.18-T2N-R67W	<b>MD Reference:</b>	WELL @ 4977.0ft (Ensign 153 RKB - 23')
<b>Well:</b>	Kugel 1B-18H-H267	<b>North Reference:</b>	True
<b>Wellbore:</b>	Kugel 1B-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)	
11,844.0	90.66	1.42	7,328.1	3,784.0	-1,828.3	4,103.7	3.46	0.89	3.35	
11,933.0	90.66	0.19	7,327.1	3,873.0	-1,827.1	4,190.0	1.38	0.00	-1.38	
12,022.0	91.36	359.67	7,325.5	3,961.9	-1,827.2	4,276.6	0.98	0.79	-0.58	
12,111.0	91.80	0.19	7,323.0	4,050.9	-1,827.3	4,363.2	0.77	0.49	0.58	
12,200.0	90.92	1.42	7,320.9	4,139.9	-1,826.0	4,449.5	1.70	-0.99	1.38	
12,289.0	89.52	1.42	7,320.6	4,228.8	-1,823.8	4,535.5	1.57	-1.57	0.00	
12,379.0	90.31	1.25	7,320.7	4,318.8	-1,821.7	4,622.6	0.90	0.88	-0.19	
12,468.0	91.01	1.42	7,319.7	4,407.8	-1,819.6	4,708.7	0.81	0.79	0.19	
12,557.0	89.78	0.19	7,319.1	4,496.8	-1,818.4	4,795.0	1.95	-1.38	-1.38	
12,646.0	90.13	1.25	7,319.2	4,585.8	-1,817.3	4,881.3	1.25	0.39	1.19	
12,735.0	90.48	2.13	7,318.7	4,674.7	-1,814.7	4,967.3	1.06	0.39	0.99	
12,824.0	90.04	1.25	7,318.3	4,763.7	-1,812.0	5,053.2	1.11	-0.49	-0.99	
12,913.0	90.31	359.67	7,318.0	4,852.7	-1,811.3	5,139.7	1.80	0.30	-1.78	
13,002.0	91.01	357.38	7,317.0	4,941.6	-1,813.6	5,226.7	2.69	0.79	-2.57	
13,092.0	91.10	358.61	7,315.3	5,031.6	-1,816.8	5,315.0	1.37	0.10	1.37	
13,181.0	90.66	0.72	7,314.0	5,120.5	-1,817.3	5,401.7	2.42	-0.49	2.37	
13,270.0	88.55	1.07	7,314.6	5,209.5	-1,815.9	5,487.9	2.40	-2.37	0.39	
13,295.7	88.65	0.97	7,315.2	5,235.2	-1,815.4	5,512.8	0.56	0.39	-0.39	
<b>Kugel 1B 5235 TGT</b>										
13,359.0	88.90	0.72	7,316.5	5,298.5	-1,814.5	5,574.2	0.56	0.39	-0.39	
13,448.0	89.43	0.72	7,317.8	5,387.5	-1,813.4	5,660.5	0.60	0.60	0.00	
13,537.0	89.60	359.49	7,318.6	5,476.5	-1,813.2	5,747.1	1.40	0.19	-1.38	
13,627.0	90.57	1.60	7,318.5	5,566.5	-1,812.4	5,834.4	2.58	1.08	2.34	
13,716.0	91.10	1.42	7,317.2	5,655.4	-1,810.0	5,920.4	0.63	0.60	-0.20	
13,805.0	89.87	1.42	7,316.4	5,744.4	-1,807.8	6,006.5	1.38	-1.38	0.00	
13,894.0	90.04	1.25	7,316.5	5,833.4	-1,805.7	6,092.6	0.27	0.19	-0.19	
13,983.0	90.13	0.72	7,316.4	5,922.3	-1,804.2	6,178.8	0.60	0.10	-0.60	
14,073.0	90.75	0.72	7,315.7	6,012.3	-1,803.1	6,266.1	0.69	0.69	0.00	
14,162.0	89.52	1.42	7,315.5	6,101.3	-1,801.4	6,352.3	1.59	-1.38	0.79	
14,251.0	89.60	0.37	7,316.1	6,190.3	-1,800.0	6,438.6	1.18	0.09	-1.18	
14,340.0	90.22	1.60	7,316.3	6,279.3	-1,798.5	6,524.8	1.55	0.70	1.38	
14,429.0	90.13	0.90	7,316.0	6,368.3	-1,796.5	6,611.0	0.79	-0.10	-0.79	
14,518.0	90.66	359.67	7,315.4	6,457.3	-1,796.1	6,697.4	1.50	0.60	-1.38	
14,607.0	91.19	0.37	7,314.0	6,546.2	-1,796.1	6,784.0	0.99	0.60	0.79	
14,696.0	90.75	1.42	7,312.4	6,635.2	-1,794.7	6,870.3	1.28	-0.49	1.18	
14,786.0	91.45	1.78	7,310.7	6,725.2	-1,792.2	6,957.2	0.87	0.78	0.40	
14,875.0	90.13	1.25	7,309.5	6,814.1	-1,789.8	7,043.2	1.60	-1.48	-0.60	
14,964.0	90.66	1.42	7,308.9	6,903.1	-1,787.7	7,129.3	0.63	0.60	0.19	
15,053.0	89.69	0.02	7,308.6	6,992.1	-1,786.6	7,215.7	1.91	-1.09	-1.57	
15,142.0	90.31	0.02	7,308.6	7,081.1	-1,786.6	7,302.2	0.70	0.70	0.00	
15,231.0	91.28	359.84	7,307.4	7,170.1	-1,786.7	7,388.9	1.11	1.09	-0.20	
15,320.0	92.07	359.84	7,304.8	7,259.0	-1,787.0	7,475.5	0.89	0.89	0.00	
15,409.0	92.42	0.37	7,301.3	7,348.0	-1,786.8	7,562.0	0.71	0.39	0.60	
15,498.0	92.07	359.84	7,297.8	7,436.9	-1,786.6	7,648.5	0.71	-0.39	-0.60	

<b>Company:</b>	Crestone Peak Resources	<b>Local Co-ordinate Reference:</b>	Well Kugel 1B-18H-H267
<b>Project:</b>	DJ BASIN	<b>TVD Reference:</b>	WELL @ 4977.0ft (Ensign 153 RKB - 23')
<b>Site:</b>	Kugel Pad Sec.18-T2N-R67W	<b>MD Reference:</b>	WELL @ 4977.0ft (Ensign 153 RKB - 23')
<b>Well:</b>	Kugel 1B-18H-H267	<b>North Reference:</b>	True
<b>Wellbore:</b>	Kugel 1B-18H-H267 Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	US_EDM

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)
15,525.0	91.71	359.84	7,296.9	7,463.9	-1,786.7	7,674.7	1.33	-1.33	0.00
<b>Last Survey - 15,525' MD</b>									
15,590.0	91.71	359.84	7,295.0	7,528.9	-1,786.9	7,738.0	0.00	0.00	0.00
<b>PTB - 15'FNL, 2550'FEL, Sec.7 - BHL 10'FNL &amp; 2550'FEL, Sec.7</b>									

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
8,034.0	7,364.5	-24.6	-1,827.5	TPZ - 2177'FNL, 2508'FEL, Sec.18
15,525.0	7,296.9	7,463.9	-1,786.7	Last Survey - 15,525' MD
15,590.0	7,295.0	7,528.9	-1,786.9	PTB - 15'FNL, 2550'FEL, Sec.7

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_