



CRESTONE PEAK
RESOURCES

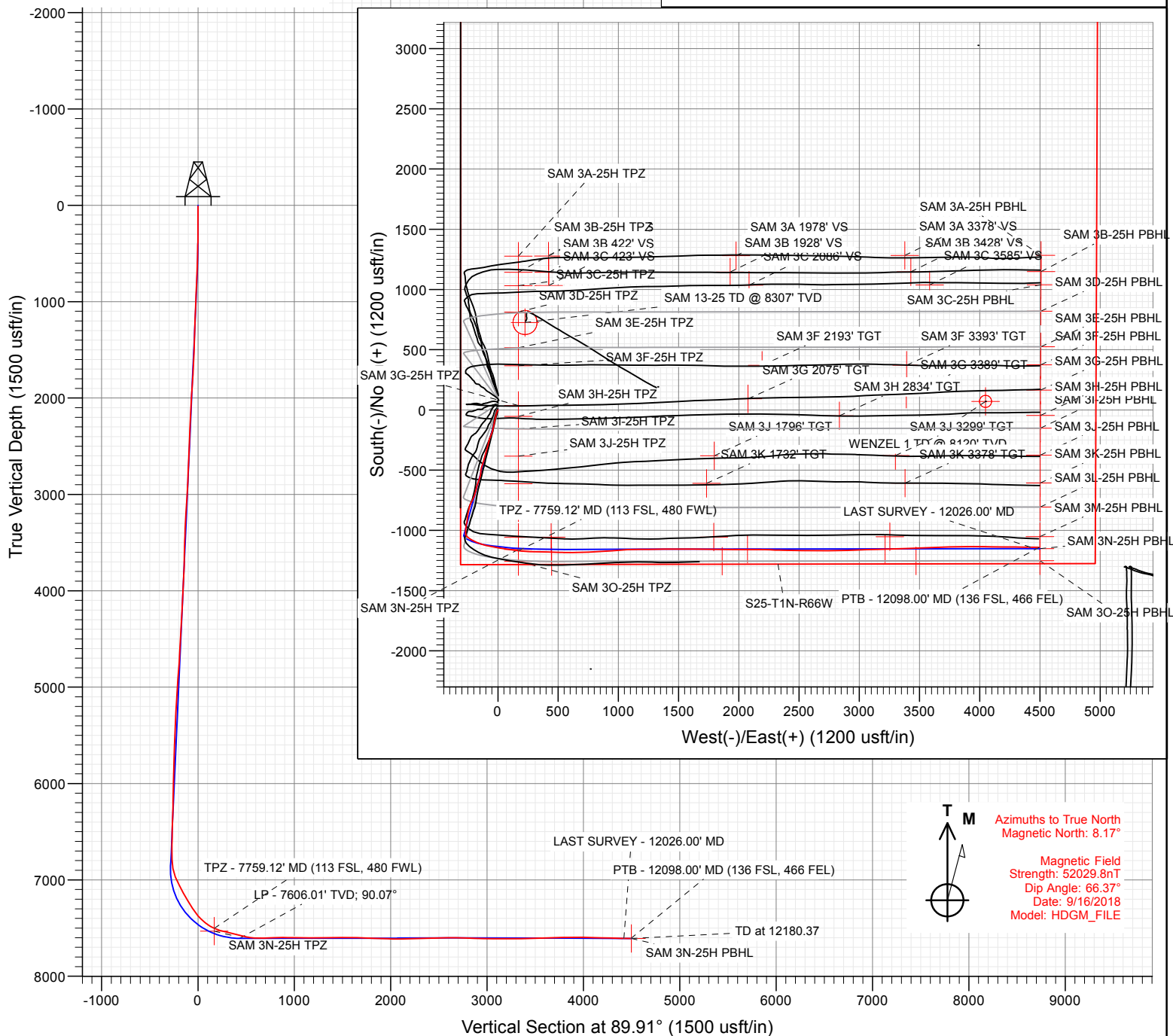
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
3	782.38	9.65	195.24	780.10	-39.09	-10.65	2.00	195.24	-10.71	
4	6957.57	9.65	195.24	6867.96	-1037.59	-282.63	0.00	0.00	-284.35	
5	8115.18	90.07	89.91	7606.01	-1157.59	433.92	8.00	-105.11	432.00	
6	9753.18	90.07	89.91	7604.00	-1154.96	2071.92	0.00	0.00	2070.00	SAM 3N 2070' VS
7	9754.83	90.10	89.91	7604.00	-1154.95	2073.57	2.00	0.00	2071.65	
8	10876.64	90.10	89.91	7601.97	-1153.15	3195.38	0.00	0.00	3193.46	
9	10895.19	89.73	89.91	7602.00	-1153.12	3213.92	2.00	180.00	3212.00	SAM 3N 3212' VS
10	12180.37	89.73	89.91	7608.00	-1151.05	4499.09	0.00	0.00	4497.18	SAM 3N-25H PBHL

Project: DJ BASIN
Site: S25-T1N-R66W (SAM)
Well: SAM 3N-25H-M166
Wellbore: OH
Design: FINAL

FINAL
SAM 3N-25H-M166
385237 185155 418137 185269
23' KB @ 5109.00usf
Ground Level @ 5086.00
North American Datum 1983
Well SAM 3N-25H-M166, True North

Name	Type	User	Target	No Target (Freehand)	Asimuth	Origin Type	Slot	+N/-S	+E/-W	N/S	E/W	From TVD	Latitude	Longitude
SAM 3N-25H TPZ					7531.12		-1158.02	170.30	40.015359				-104.733248	
SAM 3N 3212' VS					7602.00		-1153.12	3213.92	40.015372				-104.722381	
SAM 3N 2070' VS					7604.00		-1154.96	2071.92	40.015367				-104.728469	
SAM 3N 442' VS					7606.00		-1157.58	443.92	40.015360				-104.732271	
SAM 3N-25H PBHL					7608.00		-1151.05	4499.09	40.015377				-104.717793	



Azimuths to True North
Magnetic North: 8.17°

Magnetic Field
Strength: 52029.8nT
Dip Angle: 66.37°
Date: 9/16/2018
Model: HDGM_FILE



WELL DETAILS: SAM 3N-25H-M166

+N/-S	+E/-W	Northing	Ground Level:	5086.00	Latitude	Longitude
0.00	0.00	1250526.70	Easting	3214576.98	40.018538	-104.733856





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RESOURCES

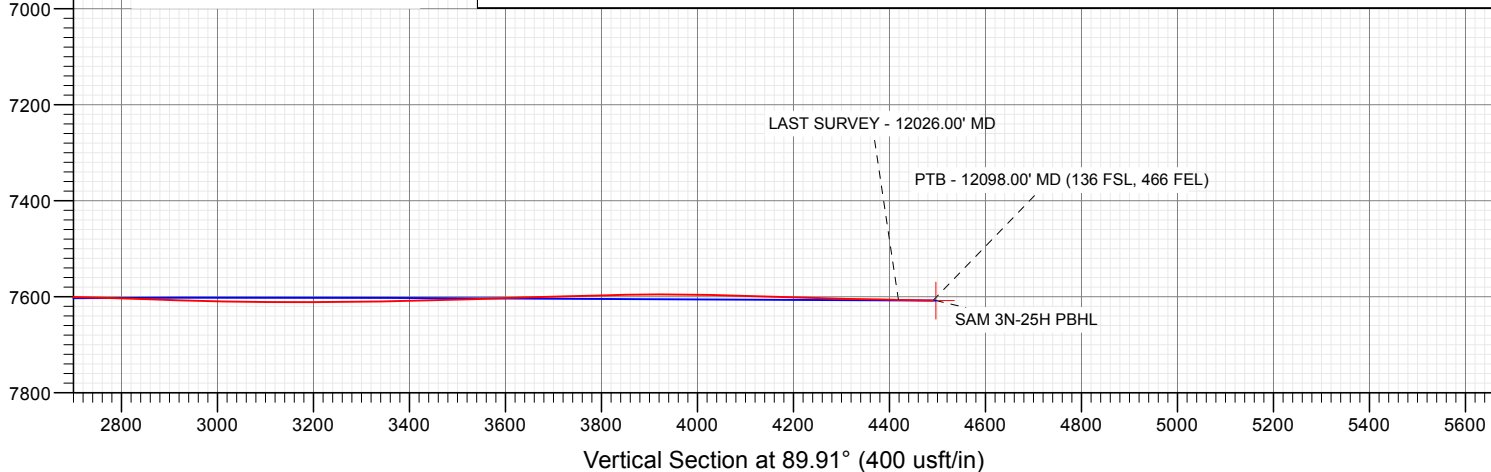
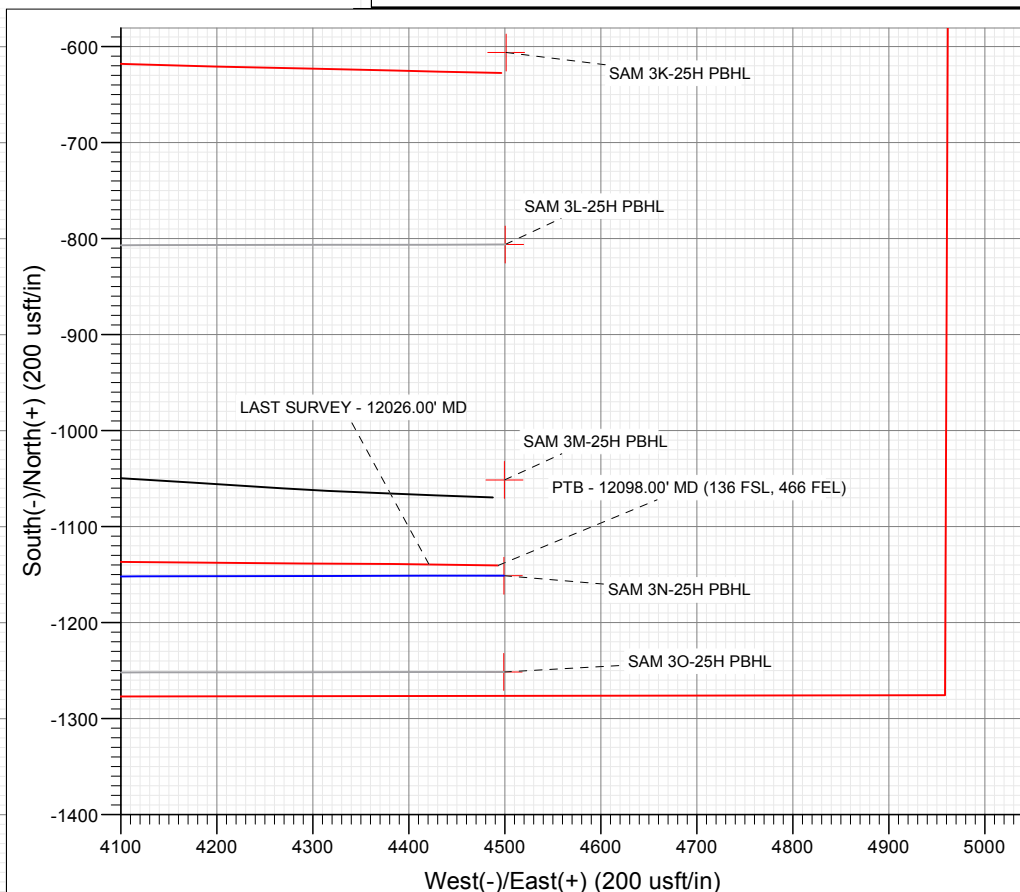
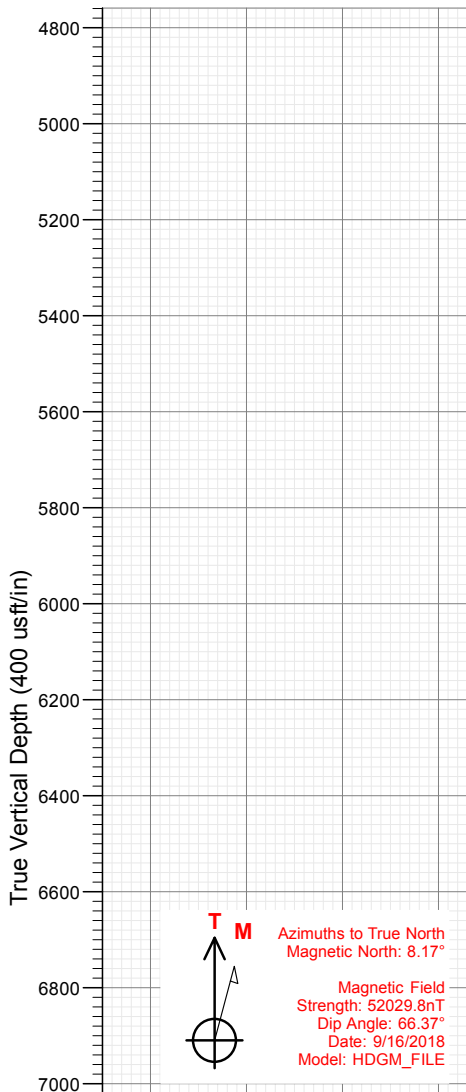
SECTION DETAILS

No plan data is available

Project: DJ BASIN
Site: S25-T1N-R66W (SAM)
Well: SAM 3N-25H-M166
Wellbore: OH
Design: FINAL

FINAL
SAM 3N-25H-M166
385237 185155 418137 185269
23 KB @ 5109.00usf
Ground Level @ 5086.00
North American Datum 1983
Well SAM 3N-25H-M166, True North

Name	Type	User	Target	No Target (Freehand)	Asimuth	89.91	TVD	+N/-S	+E/-W	Origin Type	N/S	E/W	From TVD	Latitude	Longitude
SAM 3N-25H TP2							7531.12	-1158.02	170.30		40.015359			-104.733248	
SAM 3N 3212 VS							7602.00	-1153.12	3213.92		40.015372			-104.722381	
SAM 3N 2070 VS							7604.00	-1154.96	2071.02		40.015367			-104.728459	
SAM 3N 442 VS							7606.00	-1157.58	443.92		40.015360			-104.732271	
SAM 3N-25H PBHL							7606.00	-1151.05	4499.09		40.015377			-104.717793	



WELL DETAILS: SAM 3N-25H-M166

+N/-S	+E/-W	Northing	Ground Level:	5086.00	Latitude	Longitude
0.00	0.00	1250526.70	Easting	3214576.98	40.018538	-104.733856

CATHEDRAL



Survey Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SAM 3N-25H-M166
Project:	DJ BASIN	TVD Reference:	23' KB @ 5109.00usft
Site:	S25-T1N-R66W (SAM)	MD Reference:	23' KB @ 5109.00usft
Well:	SAM 3N-25H-M166	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

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		S25-T1N-R66W (SAM)			
Site Position:		Northing:	1,251,849.37 usft	Latitude:	40.022061
From:	Lat/Long	Easting:	3,219,074.73 usft	Longitude:	-104.717756
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.51 °

Well	SAM 3N-25H-M166					
Well Position	+N/-S	0.00 usft	Northing:	1,250,526.70 usft	Latitude:	40.018538
	+E/-W	0.00 usft	Easting:	3,214,576.98 usft	Longitude:	-104.733856
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	5,086.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	9/16/2018	8.17	66.37	52,029.80000000

Design	FINAL				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	89.91	

Survey Program	Date	10/22/2018			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
169.00	2,377.00	Survey #1 (OH)	VESSI_GYROFLEX	VESSI Gyroflex Gyro	
2,520.00	12,098.00	Survey #2 (OH)	MWD+HDGM	OWSG MWD + HDGM	

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
10.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	
169.00	0.13	249.47	169.00	-0.06	-0.17	-0.17	0.08	0.08	
260.00	0.11	231.09	260.00	-0.15	-0.33	-0.33	0.05	-0.02	
352.00	0.91	218.78	352.00	-0.78	-0.86	-0.86	0.87	0.87	
413.00	2.18	201.81	412.97	-2.23	-1.59	-1.60	2.19	2.08	
498.00	2.98	210.78	497.89	-5.63	-3.33	-3.34	1.05	0.94	
580.00	4.97	197.29	579.69	-10.86	-5.47	-5.49	2.67	2.43	
663.00	6.96	196.62	662.23	-19.11	-7.98	-8.01	2.40	2.40	
720.00	8.23	196.15	718.73	-26.34	-10.10	-10.15	2.23	2.23	
803.00	8.04	200.90	800.90	-37.47	-13.83	-13.89	0.84	-0.23	
886.00	8.44	197.51	883.04	-48.70	-17.73	-17.81	0.76	0.48	
974.00	9.91	194.14	969.91	-62.20	-21.52	-21.62	1.78	1.67	

Survey Report

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Project:	DJ BASIN	TVD Reference:	23' KB @ 5109.00usft
Site:	S25-T1N-R66W (SAM)	MD Reference:	23' KB @ 5109.00usft
Well:	SAM 3N-25H-M166	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
1,061.00	11.10	191.74	1,055.45	-77.66	-25.05	-25.18	1.46	1.37	
1,142.00	11.17	190.28	1,134.93	-93.01	-28.04	-28.20	0.36	0.09	
1,224.00	12.05	188.88	1,215.25	-109.29	-30.78	-30.96	1.13	1.07	
1,307.00	10.10	190.77	1,296.70	-125.00	-33.48	-33.68	2.39	-2.35	
1,390.00	8.82	191.89	1,378.57	-138.37	-36.15	-36.38	1.56	-1.54	
1,472.00	8.14	192.24	1,459.67	-150.20	-38.67	-38.92	0.83	-0.83	
1,562.00	8.84	197.40	1,548.69	-163.03	-42.09	-42.36	1.15	0.78	
1,645.00	9.11	197.18	1,630.67	-175.39	-45.94	-46.23	0.33	0.33	
1,732.00	8.60	197.21	1,716.63	-188.18	-49.90	-50.21	0.59	-0.59	
1,818.00	10.27	200.26	1,801.47	-201.52	-54.46	-54.79	2.03	1.94	
1,905.00	11.25	200.55	1,886.94	-216.74	-60.12	-60.48	1.13	1.13	
1,988.00	11.42	200.59	1,968.32	-232.01	-65.85	-66.24	0.21	0.20	
2,071.00	10.07	196.69	2,049.86	-246.66	-70.83	-71.24	1.85	-1.63	
2,160.00	9.41	194.89	2,137.58	-261.14	-74.93	-75.37	0.82	-0.74	
2,246.00	9.70	194.67	2,222.39	-274.94	-78.57	-79.03	0.34	0.34	
2,377.00	8.03	194.33	2,351.82	-294.49	-83.63	-84.12	1.28	-1.27	
2,520.00	10.15	195.56	2,493.01	-316.31	-89.49	-90.01	1.49	1.48	
2,614.00	9.01	194.77	2,585.70	-331.40	-93.59	-94.13	1.22	-1.21	
2,708.00	9.76	198.38	2,678.44	-346.08	-97.97	-98.55	1.01	0.80	
2,814.00	10.51	190.38	2,782.79	-364.12	-102.55	-103.15	1.50	0.71	
2,908.00	9.32	190.29	2,875.39	-380.04	-105.45	-106.08	1.27	-1.27	
3,002.00	9.54	197.85	2,968.12	-394.94	-109.20	-109.86	1.34	0.23	
3,097.00	11.38	201.19	3,061.54	-411.18	-115.00	-115.68	2.04	1.94	
3,192.00	10.46	201.19	3,154.82	-427.96	-121.51	-122.22	0.97	-0.97	
3,287.00	10.90	195.91	3,248.17	-444.64	-127.09	-127.82	1.13	0.46	
3,381.00	9.76	194.24	3,340.65	-460.91	-131.48	-132.25	1.25	-1.21	
3,476.00	7.96	196.00	3,434.51	-475.04	-135.28	-136.07	1.92	-1.89	
3,571.00	9.49	190.11	3,528.41	-489.07	-138.47	-139.28	1.86	1.61	
3,666.00	8.66	189.23	3,622.22	-503.84	-140.99	-141.82	0.89	-0.87	
3,760.00	8.13	181.59	3,715.22	-517.47	-142.31	-143.17	1.31	-0.56	
3,854.00	11.65	188.71	3,807.81	-533.50	-143.93	-144.81	3.96	3.74	
3,949.00	11.96	194.60	3,900.80	-552.51	-147.86	-148.78	1.31	0.33	
4,043.00	9.19	196.62	3,993.20	-569.13	-152.47	-153.41	2.97	-2.95	
4,138.00	9.54	203.12	4,086.93	-583.64	-157.73	-158.70	1.17	0.37	
4,233.00	12.53	199.08	4,180.17	-600.62	-164.19	-165.18	3.25	3.15	
4,327.00	10.81	197.41	4,272.22	-618.67	-170.16	-171.19	1.86	-1.83	
4,422.00	8.13	197.85	4,365.92	-633.57	-174.89	-175.94	2.82	-2.82	
4,516.00	8.40	190.90	4,458.95	-646.64	-178.22	-179.29	1.10	0.29	
4,611.00	13.89	193.01	4,552.12	-664.58	-182.10	-183.21	5.79	5.78	
4,705.00	13.63	196.53	4,643.42	-686.19	-187.80	-188.93	0.93	-0.28	
4,800.00	10.86	197.67	4,736.25	-705.45	-193.70	-194.87	2.93	-2.92	
4,894.00	9.49	198.81	4,828.77	-721.22	-198.88	-200.08	1.47	-1.46	
4,989.00	9.41	204.35	4,922.48	-735.71	-204.61	-205.83	0.96	-0.08	
5,084.00	9.76	208.22	5,016.16	-749.88	-211.62	-212.86	0.77	0.37	
5,179.00	8.75	210.59	5,109.92	-763.20	-219.11	-220.37	1.14	-1.06	
5,274.00	8.22	207.78	5,203.88	-775.43	-225.95	-227.23	0.71	-0.56	
5,368.00	7.91	200.22	5,296.95	-787.44	-231.32	-232.62	1.17	-0.33	
5,462.00	8.04	194.24	5,390.05	-799.88	-235.17	-236.49	0.89	0.14	
5,557.00	7.08	195.47	5,484.22	-811.97	-238.36	-239.71	1.02	-1.01	
5,651.00	7.87	192.31	5,577.42	-823.84	-241.28	-242.65	0.95	0.84	
5,745.00	11.34	191.52	5,670.09	-839.18	-244.50	-245.89	3.69	3.69	
5,840.00	8.40	190.20	5,763.67	-855.17	-247.60	-249.01	3.10	-3.09	
5,935.00	8.75	186.33	5,857.61	-869.18	-249.62	-251.06	0.71	0.37	

Survey Report

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Site:	S25-T1N-R66W (SAM)	MD Reference:	23' KB @ 5109.00usft
Well:	SAM 3N-25H-M166	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
6,030.00	7.47	185.72	5,951.66	-882.51	-251.03	-252.50	1.35	-1.35	
6,124.00	9.54	188.00	6,044.62	-896.30	-252.73	-254.21	2.23	2.20	
6,219.00	10.86	190.03	6,138.12	-912.91	-255.38	-256.89	1.44	1.39	
6,314.00	9.76	185.10	6,231.58	-929.75	-257.66	-259.20	1.48	-1.16	
6,408.00	10.24	194.51	6,324.16	-945.77	-260.46	-262.02	1.81	0.51	
6,502.00	9.93	188.09	6,416.71	-961.89	-263.69	-265.29	1.24	-0.33	
6,597.00	9.67	185.72	6,510.33	-977.93	-265.64	-267.26	0.51	-0.27	
6,691.00	11.16	187.92	6,602.78	-994.80	-267.68	-269.33	1.64	1.59	
6,786.00	12.53	179.13	6,695.76	-1,014.21	-268.79	-270.47	2.38	1.44	
6,880.00	9.32	176.40	6,788.04	-1,032.01	-268.16	-269.87	3.46	-3.41	
6,975.00	16.26	138.96	6,880.77	-1,049.77	-258.92	-260.66	11.03	7.31	
7,069.00	25.10	120.86	6,968.72	-1,069.98	-233.08	-234.86	11.50	9.40	
7,164.00	29.54	115.58	7,053.11	-1,090.44	-194.64	-196.45	5.32	4.67	
7,259.00	30.95	109.96	7,135.20	-1,108.90	-150.54	-152.38	3.33	1.48	
7,353.00	31.52	104.24	7,215.59	-1,123.20	-104.00	-105.86	3.21	0.61	
7,448.00	32.53	101.70	7,296.13	-1,134.48	-54.91	-56.79	1.77	1.06	
7,543.00	41.63	98.27	7,371.85	-1,144.22	1.45	-0.44	9.82	9.58	
7,637.00	50.68	98.97	7,436.90	-1,154.41	68.41	66.49	9.64	9.63	
7,732.00	61.45	97.92	7,489.86	-1,165.92	146.26	144.33	11.37	11.34	
7,759.12	65.19	96.53	7,502.03	-1,168.96	170.30	168.36	14.53	13.79	TPZ - 7759.12' MD (113 FSL, 480 FWL)
7,826.00	74.46	93.43	7,525.08	-1,174.36	232.76	230.82	14.53	13.86	
7,921.00	77.05	91.06	7,548.46	-1,177.95	324.76	322.80	3.64	2.73	
8,015.00	75.74	91.24	7,570.57	-1,179.79	416.10	414.14	1.41	-1.39	
8,110.00	78.11	91.59	7,592.06	-1,182.07	508.60	506.64	2.52	2.49	
8,204.00	87.78	90.01	7,603.59	-1,183.36	601.77	599.80	10.42	10.29	
8,299.00	92.13	88.16	7,603.66	-1,181.84	696.73	694.77	4.98	4.58	
8,393.00	92.66	88.07	7,599.74	-1,178.75	790.59	788.64	0.57	0.56	
8,488.00	89.85	85.96	7,597.65	-1,173.81	885.43	883.48	3.70	-2.96	
8,582.00	88.70	84.56	7,598.84	-1,166.04	979.09	977.16	1.93	-1.22	
8,676.00	89.19	86.84	7,600.57	-1,158.99	1,072.81	1,070.88	2.48	0.52	
8,771.00	90.20	90.36	7,601.08	-1,156.67	1,167.76	1,165.84	3.85	1.06	
8,866.00	90.24	89.57	7,600.72	-1,156.62	1,262.76	1,260.84	0.83	0.04	
8,960.00	90.55	89.30	7,600.07	-1,155.69	1,356.75	1,354.83	0.44	0.33	
9,056.00	90.86	89.22	7,598.89	-1,154.45	1,452.74	1,450.82	0.33	0.32	
9,150.00	90.37	90.62	7,597.88	-1,154.32	1,546.73	1,544.81	1.58	-0.52	
9,245.00	87.96	90.80	7,599.26	-1,155.49	1,641.70	1,639.79	2.54	-2.54	
9,340.00	87.43	90.71	7,603.08	-1,156.75	1,736.62	1,734.70	0.57	-0.56	
9,435.00	87.91	90.18	7,606.94	-1,157.48	1,831.54	1,829.62	0.75	0.51	
9,529.00	88.48	90.01	7,609.91	-1,157.64	1,925.49	1,923.57	0.63	0.61	
9,623.00	89.49	90.09	7,611.57	-1,157.72	2,019.47	2,017.55	1.08	1.07	
9,717.00	90.42	90.62	7,611.64	-1,158.30	2,113.47	2,111.55	1.14	0.99	
9,812.00	91.25	91.15	7,610.26	-1,159.77	2,208.45	2,206.52	1.04	0.87	
9,906.00	92.44	92.20	7,607.23	-1,162.52	2,302.36	2,300.43	1.69	1.27	
10,001.00	90.51	90.09	7,604.79	-1,164.41	2,397.30	2,395.36	3.01	-2.03	
10,096.00	91.82	92.12	7,602.86	-1,166.24	2,492.25	2,490.31	2.54	1.38	
10,191.00	91.34	90.62	7,600.24	-1,168.51	2,587.19	2,585.24	1.66	-0.51	
10,285.00	88.88	89.39	7,600.06	-1,168.52	2,681.18	2,679.24	2.93	-2.62	
10,380.00	88.09	89.04	7,602.57	-1,167.22	2,776.13	2,774.19	0.91	-0.83	
10,475.00	88.13	88.69	7,605.70	-1,165.34	2,871.06	2,869.13	0.37	0.04	
10,570.00	88.48	88.60	7,608.51	-1,163.10	2,965.99	2,964.06	0.38	0.37	
10,665.00	89.05	87.46	7,610.56	-1,159.83	3,060.91	3,058.99	1.34	0.60	
10,759.00	89.93	88.60	7,611.40	-1,156.60	3,154.85	3,152.93	1.53	0.94	
10,854.00	90.55	88.78	7,611.00	-1,154.43	3,249.83	3,247.91	0.68	0.65	

Survey Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SAM 3N-25H-M166
Project:	DJ BASIN	TVD Reference:	23' KB @ 5109.00usft
Site:	S25-T1N-R66W (SAM)	MD Reference:	23' KB @ 5109.00usft
Well:	SAM 3N-25H-M166	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	Database:	USA EDM 5000 Multi Users DB

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
10,948.00	90.95	88.34	7,609.77	-1,152.07	3,343.79	3,341.87	0.63	0.43	
11,043.00	91.34	87.72	7,607.87	-1,148.80	3,438.71	3,436.80	0.77	0.41	
11,137.00	91.60	87.28	7,605.46	-1,144.70	3,532.59	3,530.69	0.54	0.28	
11,232.00	92.13	86.93	7,602.37	-1,139.91	3,627.42	3,625.53	0.67	0.56	
11,327.00	91.65	88.69	7,599.23	-1,136.28	3,722.29	3,720.41	1.92	-0.51	
11,421.00	91.12	89.74	7,596.96	-1,134.99	3,816.26	3,814.37	1.25	-0.56	
11,516.00	90.77	90.45	7,595.39	-1,135.15	3,911.24	3,909.36	0.83	-0.37	
11,611.00	88.48	90.53	7,596.02	-1,135.96	4,006.23	4,004.34	2.41	-2.41	
11,705.00	88.31	90.45	7,598.65	-1,136.76	4,100.19	4,098.30	0.20	-0.18	
11,800.00	88.57	90.53	7,601.23	-1,137.58	4,195.15	4,193.26	0.29	0.27	
11,894.00	88.57	90.36	7,603.58	-1,138.31	4,289.12	4,287.23	0.18	0.00	
11,989.00	88.70	90.45	7,605.84	-1,138.98	4,384.09	4,382.20	0.17	0.14	
12,026.00	88.88	90.71	7,606.62	-1,139.35	4,421.08	4,419.19	0.85	0.49	LAST SURVEY - 12026.00' MD
12,098.00	88.88	90.71	7,608.03	-1,140.24	4,493.06	4,491.16	0.00	0.00	PTB - 12098.00' MD (136 FSL, 466 FEL)

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SAM 3N-25H TPZ - hit/miss target - Shape	0.00	0.50	7,531.12	-1,158.02	170.30	1,249,370.20	3,214,757.27	40.015359	-104.733248
- actual wellpath misses target center by 29.18usft at 7768.28usft MD (7505.78 TVD, -1169.88 N, 178.60 E)									
- Point									
SAM 3N 442' VS - actual wellpath misses target center by 36.04usft at 8049.58usft MD (7578.83 TVD, -1180.55 N, 449.66 E)	0.00	0.00	7,606.00	-1,157.58	443.92	1,249,373.01	3,215,030.88	40.015360	-104.732271
- Point									
SAM 3N-25H PBHL - actual wellpath misses target center by 12.38usft at 12098.00usft MD (7608.03 TVD, -1140.24 N, 4493.06 E)	0.00	0.51	7,608.00	-1,151.05	4,499.09	1,249,414.57	3,219,085.85	40.015377	-104.717793
- Point									
SAM 3N 2070' VS - actual wellpath misses target center by 8.35usft at 9675.42usft MD (7611.80 TVD, -1157.94 N, 2071.90 E)	0.00	0.00	7,604.00	-1,154.96	2,071.92	1,249,389.69	3,216,658.80	40.015367	-104.726459
- Point									
SAM 3N 3212' VS - actual wellpath misses target center by 9.50usft at 10818.17usft MD (7611.27 TVD, -1155.21 N, 3214.01 E)	0.00	0.00	7,602.00	-1,153.12	3,213.92	1,249,401.40	3,217,800.74	40.015372	-104.722381
- Point									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,759.12	7,502.03	-1,168.96	170.30	TPZ - 7759.12' MD (113 FSL, 480 FWL)
12,026.00	7,606.62	-1,139.35	4,421.08	LAST SURVEY - 12026.00' MD
12,098.00	7,608.03	-1,140.24	4,493.06	PTB - 12098.00' MD (136 FSL, 466 FEL)

Checked By: _____	Approved By: _____	Date: _____
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