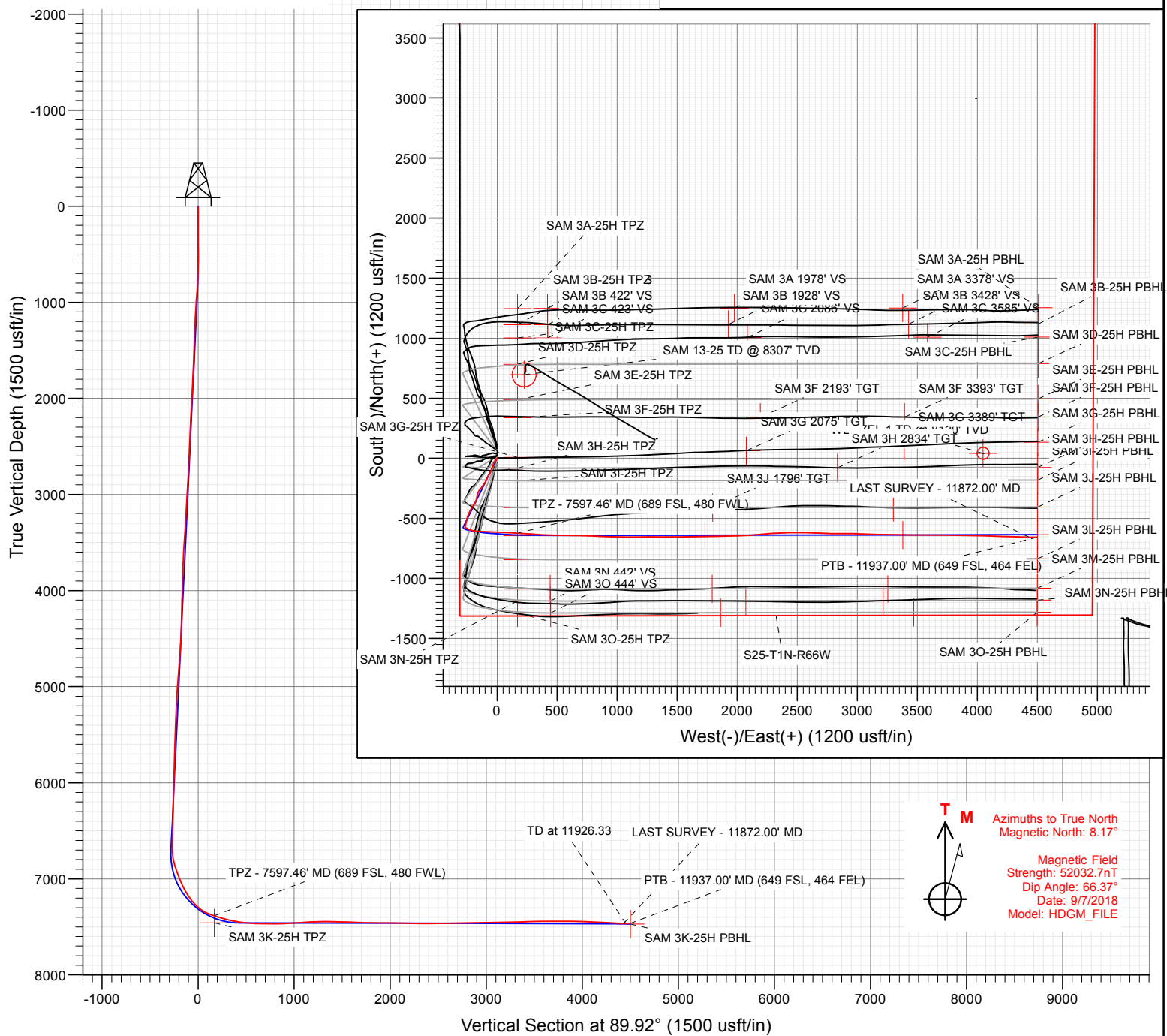




Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	
3	905.37	6.11	206.26	904.79	-14.58	-7.19	2.00	206.26	-7.22	
4	6745.62	6.11	206.26	6711.90	-571.81	-282.13	0.00	0.00	-282.98	
5	7903.09	89.89	89.91	7458.50	-642.17	432.00	8.00	-116.23	431.05	
6	9203.09	89.89	89.91	7461.00	-640.19	1732.00	0.00	0.00	1731.05	SAM 3K 1732' TGT
7	9203.39	89.90	89.91	7461.00	-640.19	1732.30	2.00	0.00	1731.35	
8	10842.53	89.90	89.91	7463.98	-637.69	3371.44	0.00	0.00	3370.49	
9	10850.09	89.74	89.91	7464.00	-637.68	3379.00	2.00	180.00	3378.05	SAM 3K 3378' TGT
10	11972.34	89.74	89.91	7469.00	-635.97	4501.23	0.00	0.00	4500.29	SAM 3K-25H PBHL

FINAL
SAM 3K-25H-M166
384037 185148 414137 185257; LR
23' KB @ 5109.00usft
Ground Level @ 5086.00
North American Datum 1983
Well SAM 3K-25H-M166, True North

Type User	Target No Target (Freehand)	Azimuth 89.92	Origin Type Slot	N/S 0.0	E/W 0.0	From TVD 0.00	
Name		TVD	+N/-S	+E/-W	Latitude	Longitude	
SAM 3K-25H TPZ		7458.00	-692.57	170.01	40.016862	-104.735248	
SAM 3K 1732 TGT		7461.00	-640.19	1732.00	40.016862	-104.727571	
SAM 3K 3378 TGT		7464.00	-637.68	3379.00	40.016869	-104.721791	
SAM 3K-25H PBHL		7469.00	-635.97	4501.23	40.01873	-104.717784	



		Ground Level:		5086.00	
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1250556.58	3214577.00	40.018620	-104.733855





CRESTONE PEAK
RESOURCES

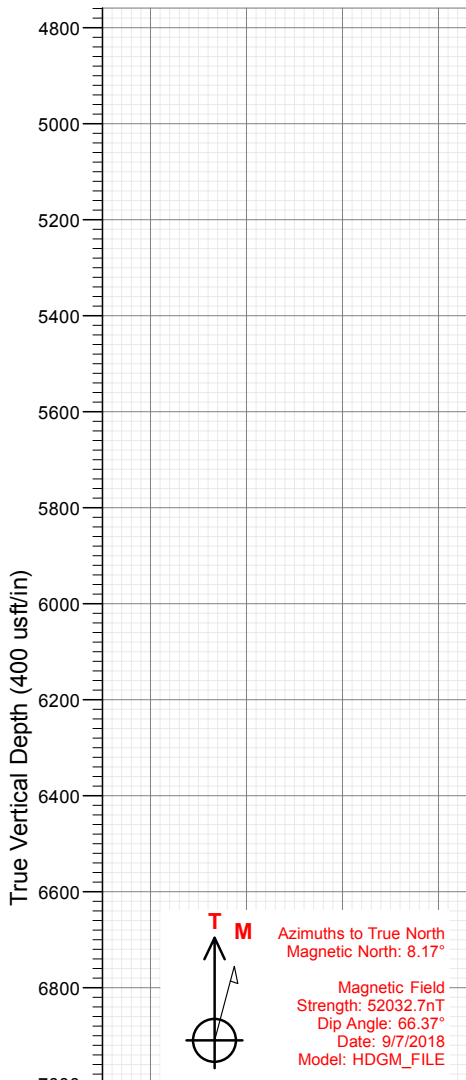
SECTION DETAILS

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	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	
3	905.37	6.11	206.26	904.79	-14.58	-7.19	2.00	206.26	-7.22	
4	6745.62	6.11	206.26	6711.90	-571.81	-282.13	0.00	0.00	-282.98	
5	7903.09	89.89	89.91	7458.50	-642.17	432.00	8.00	-116.23	431.05	
6	9203.09	89.89	89.91	7461.00	-640.19	1732.00	0.00	0.00	1731.05	SAM 3K 1732' TGT
7	9203.39	89.90	89.91	7461.00	-640.19	1732.30	2.00	0.00	1731.35	
8	10842.53	89.90	89.91	7463.98	-637.69	3371.44	0.00	0.00	3370.49	
9	10850.09	89.74	89.91	7464.00	-637.68	3379.00	2.00	180.00	3378.05	SAM 3K 3378' TGT
10	11972.34	89.74	89.91	7469.00	-635.97	4501.23	0.00	0.00	4500.29	SAM 3K-25H PBHL

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

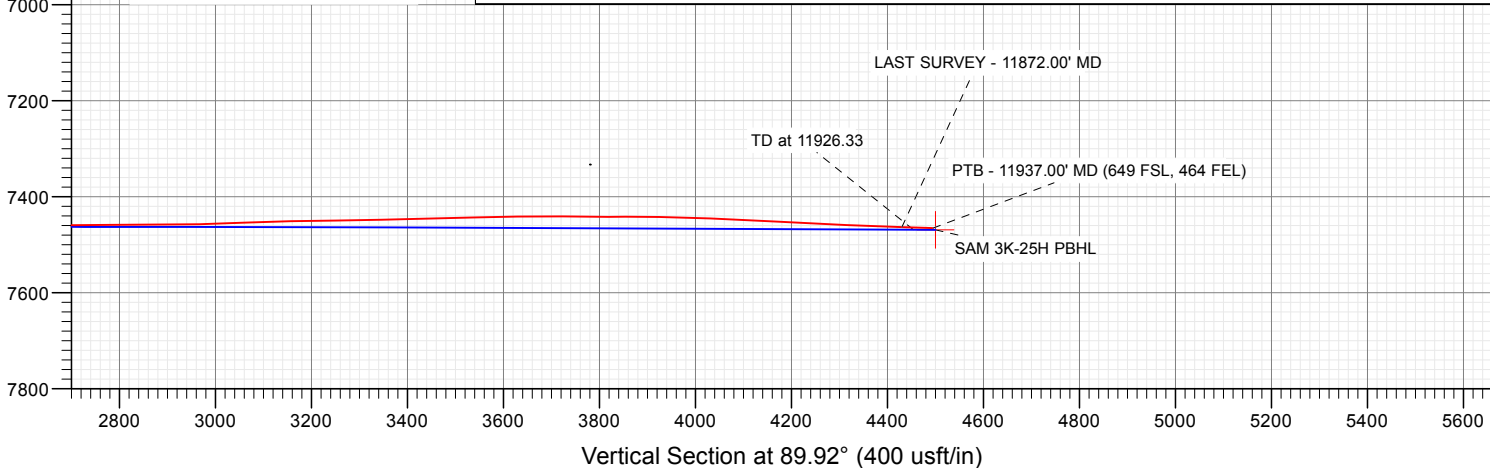
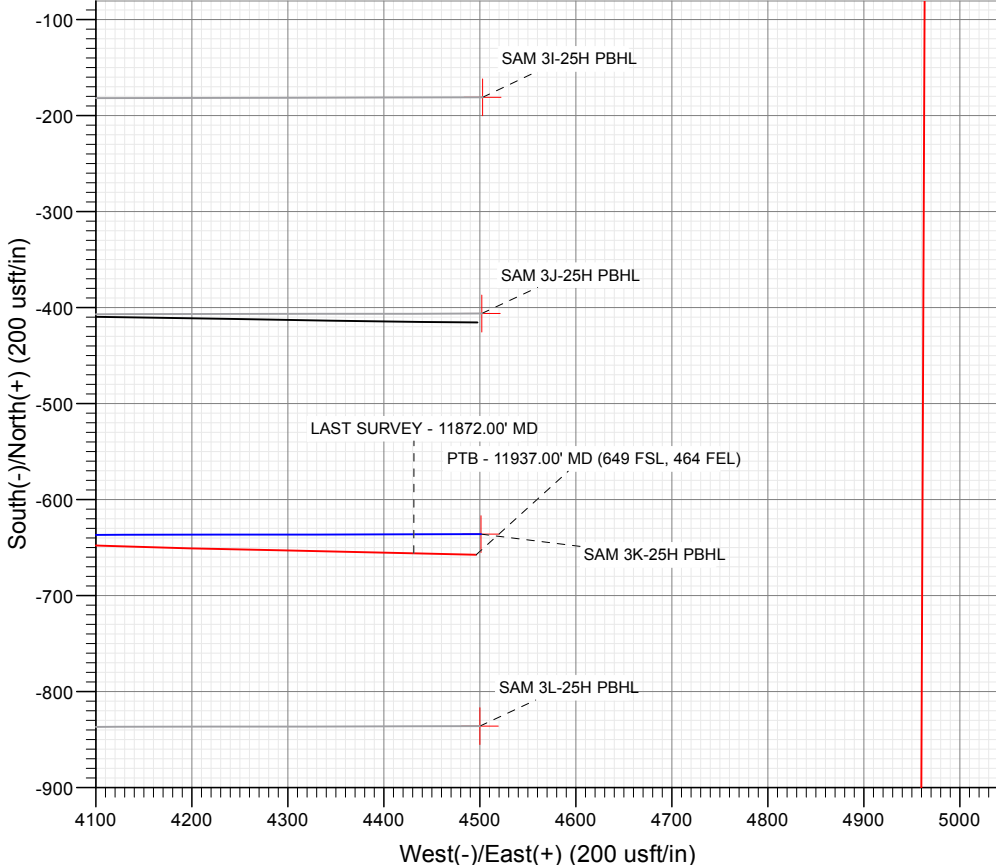
FINAL
SAM 3K-25H-M166
384037 185148 414137 185257; LR
23' KB @ 5109.00usft
Ground Level @ 5086.00
North American Datum 1983
Well SAM 3K-25H-M166, True North

Type	Target	No Target (Freehand)	Azimuth	Origin Type	N/S	E/W	From TVD	0.00
Name	TVD	+N/-S	+E/-W	Latitude	Longitude			
SAM 3K-25H TPZ	7458.00	-642.57	170.01	40.016856	-104.733848			
SAM 3K 1732' TGT	7461.00	-640.19	1732.00	40.016862	-104.727671			
SAM 3K 3378' TGT	7464.00	-637.68	3379.00	40.016869	-104.721791			
SAM 3K-25H PBHL	7469.00	-635.97	4501.23	40.016873	-104.717784			



Azimuths to True North
Magnetic North: 8.17°

Magnetic Field
Strength: 52032.7nT
Dip Angle: 66.37°
Date: 9/7/2018
Model: HDGM_FILE



WELL DETAILS: SAM 3K-25H-M166

+N/-S	+E/-W	Northing	Ground Level:	5086.00	Latitude	Longitude
0.00	0.00	1250556.58	Easting	3214577.00	40.018620	-104.733855

CATHEDRAL



Survey Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SAM 3K-25H-M166
Project:	DJ BASIN	TVD Reference:	23' KB @ 5109.00usft
Site:	S25-T1N-R66W (SAM)	MD Reference:	23' KB @ 5109.00usft
Well:	SAM 3K-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 3K-25H-M166					
Well Position	+N/-S	0.00 usft	Northing:	1,250,556.58 usft	Latitude:	40.018620
	+E/-W	0.00 usft	Easting:	3,214,577.00 usft	Longitude:	-104.733855
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	9/7/2018	8.17	66.37	52,032.70000000

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	89.92	

Survey Program	Date	10/22/2018			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
169.00	2,379.00	Survey #1 (OH)	VESSI_GYROFLEX	VESSI Gyroflex Gyro	
2,547.00	11,937.00	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	0.27	179.91	169.00	-0.37	0.00	0.00	0.17	0.17	
260.00	0.40	78.79	260.00	-0.53	0.31	0.31	0.58	0.14	
352.00	0.30	62.78	352.00	-0.35	0.84	0.84	0.15	-0.11	
413.00	0.40	123.81	413.00	-0.40	1.16	1.16	0.60	0.16	
498.00	0.38	103.50	497.99	-0.63	1.68	1.68	0.16	-0.02	
580.00	0.64	138.67	579.99	-1.04	2.25	2.25	0.48	0.32	
663.00	2.53	228.54	662.96	-2.60	1.18	1.18	3.14	2.28	
746.00	2.98	234.17	745.87	-5.08	-1.94	-1.95	0.63	0.54	
829.00	6.50	216.67	828.57	-10.11	-6.50	-6.51	4.54	4.24	
887.00	6.92	215.50	886.18	-15.59	-10.49	-10.51	0.76	0.72	
973.00	6.87	224.90	971.56	-23.45	-17.13	-17.16	1.31	-0.06	

Survey Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SAM 3K-25H-M166
Project:	DJ BASIN	TVD Reference:	23' KB @ 5109.00usft
Site:	S25-T1N-R66W (SAM)	MD Reference:	23' KB @ 5109.00usft
Well:	SAM 3K-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
1,058.00	8.02	212.24	1,055.84	-32.06	-23.88	-23.93	2.35	1.35	
1,139.00	8.08	196.83	1,136.06	-42.29	-28.54	-28.60	2.66	0.07	
1,224.00	7.13	196.53	1,220.31	-53.07	-31.77	-31.85	1.12	-1.12	
1,307.00	6.48	197.88	1,302.72	-62.46	-34.68	-34.77	0.81	-0.78	
1,392.00	6.49	195.88	1,387.18	-71.65	-37.46	-37.57	0.27	0.01	
1,474.00	6.34	200.17	1,468.66	-80.36	-40.29	-40.41	0.61	-0.18	
1,558.00	6.53	212.66	1,552.14	-88.73	-44.47	-44.60	1.68	0.23	
1,641.00	5.66	206.68	1,634.67	-96.36	-48.85	-49.00	1.30	-1.05	
1,723.00	5.72	201.80	1,716.27	-103.77	-52.19	-52.34	0.59	0.07	
1,806.00	6.58	198.61	1,798.79	-112.12	-55.24	-55.41	1.11	1.04	
1,892.00	5.91	203.61	1,884.28	-120.84	-58.59	-58.77	1.00	-0.78	
1,974.00	6.39	205.58	1,965.81	-128.83	-62.25	-62.44	0.64	0.59	
2,058.00	6.10	215.56	2,049.31	-136.68	-66.86	-67.06	1.34	-0.35	
2,147.00	6.38	216.77	2,137.78	-144.48	-72.57	-72.79	0.35	0.31	
2,236.00	5.64	206.29	2,226.30	-152.37	-77.47	-77.69	1.48	-0.83	
2,326.00	5.96	200.65	2,315.84	-160.70	-81.08	-81.31	0.73	0.36	
2,379.00	6.30	200.71	2,368.53	-166.00	-83.07	-83.32	0.64	0.64	
2,547.00	6.33	203.30	2,535.51	-183.13	-90.00	-90.27	0.17	0.02	
2,641.00	5.58	203.47	2,629.01	-192.08	-93.87	-94.15	0.80	-0.80	
2,841.00	5.32	220.70	2,828.11	-208.03	-103.79	-104.09	0.83	-0.13	
2,935.00	5.01	221.49	2,921.73	-214.41	-109.35	-109.67	0.34	-0.33	
3,030.00	6.28	213.41	3,016.27	-221.85	-114.96	-115.29	1.57	1.34	
3,124.00	5.63	214.90	3,109.76	-229.92	-120.43	-120.77	0.71	-0.69	
3,219.00	4.92	216.39	3,204.36	-237.03	-125.51	-125.86	0.76	-0.75	
3,314.00	6.64	216.74	3,298.87	-244.71	-131.21	-131.57	1.81	1.81	
3,408.00	6.06	217.27	3,392.30	-253.01	-137.47	-137.84	0.62	-0.62	
3,504.00	5.10	221.40	3,487.84	-260.24	-143.36	-143.74	1.08	-1.00	
3,598.00	6.20	219.21	3,581.38	-267.31	-149.33	-149.73	1.19	1.17	
3,693.00	5.41	201.28	3,675.90	-275.46	-154.20	-154.61	2.07	-0.83	
3,787.00	4.44	200.84	3,769.56	-282.99	-157.10	-157.52	1.03	-1.03	
3,882.00	5.58	198.38	3,864.19	-290.81	-159.87	-160.30	1.22	1.20	
3,976.00	6.72	195.21	3,957.65	-300.45	-162.75	-163.20	1.26	1.21	
4,070.00	5.36	199.69	4,051.13	-309.90	-165.67	-166.13	1.53	-1.45	
4,165.00	6.94	190.64	4,145.58	-319.72	-168.23	-168.70	1.95	1.66	
4,260.00	6.24	191.08	4,239.95	-330.42	-170.28	-170.77	0.74	-0.74	
4,355.00	7.47	195.04	4,334.27	-341.45	-172.87	-173.38	1.39	1.29	
4,449.00	6.42	193.81	4,427.58	-352.46	-175.71	-176.24	1.13	-1.12	
4,543.00	7.95	200.75	4,520.84	-363.64	-179.27	-179.81	1.87	1.63	
4,638.00	6.86	210.07	4,615.05	-374.70	-184.44	-185.00	1.70	-1.15	
4,733.00	5.93	221.58	4,709.46	-383.28	-190.54	-191.11	1.66	-0.98	
4,827.00	8.75	216.22	4,802.68	-392.68	-197.99	-198.57	3.08	3.00	
4,922.00	8.48	216.57	4,896.61	-404.13	-206.44	-207.03	0.29	-0.28	
5,016.00	7.65	207.08	4,989.68	-415.27	-213.41	-214.03	1.67	-0.88	
5,111.00	7.47	208.04	5,083.86	-426.35	-219.19	-219.83	0.23	-0.19	
5,206.00	5.93	208.92	5,178.21	-436.10	-224.47	-225.12	1.62	-1.62	
5,301.00	5.89	201.63	5,272.70	-444.93	-228.64	-229.30	0.79	-0.04	
5,395.00	4.61	203.56	5,366.31	-452.87	-231.93	-232.60	1.37	-1.36	
5,489.00	5.71	201.19	5,459.92	-460.70	-235.13	-235.81	1.19	1.17	
5,584.00	4.31	206.55	5,554.56	-468.30	-238.43	-239.13	1.55	-1.47	
5,678.00	5.41	205.58	5,648.22	-475.45	-241.93	-242.63	1.17	1.17	
5,773.00	5.76	198.20	5,742.77	-484.02	-245.35	-246.07	0.84	0.37	
5,867.00	6.99	193.01	5,836.19	-494.08	-248.11	-248.84	1.44	1.31	
5,962.00	5.41	196.18	5,930.63	-504.01	-250.66	-251.41	1.70	-1.66	

Survey Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SAM 3K-25H-M166
Project:	DJ BASIN	TVD Reference:	23' KB @ 5109.00usft
Site:	S25-T1N-R66W (SAM)	MD Reference:	23' KB @ 5109.00usft
Well:	SAM 3K-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
6,057.00	6.37	190.99	6,025.13	-513.48	-252.91	-253.67	1.15	1.01	
6,151.00	4.31	193.01	6,118.71	-522.05	-254.70	-255.47	2.20	-2.19	
6,246.00	4.35	190.03	6,213.44	-529.07	-256.13	-256.92	0.24	0.04	
6,341.00	5.58	195.83	6,308.09	-537.06	-258.02	-258.82	1.40	1.29	
6,435.00	6.46	202.51	6,401.57	-546.35	-261.29	-262.10	1.20	0.94	
6,530.00	4.09	199.08	6,496.16	-554.48	-264.44	-265.27	2.52	-2.49	
6,624.00	4.83	200.22	6,589.87	-561.37	-266.91	-267.74	0.79	0.79	
6,719.00	3.16	182.03	6,684.64	-567.74	-268.38	-269.22	2.19	-1.76	
6,813.00	11.73	136.94	6,777.82	-577.33	-261.94	-262.79	10.38	9.12	
6,908.00	20.00	112.42	6,869.21	-590.62	-240.26	-241.14	11.03	8.71	
7,002.00	22.54	103.01	6,956.83	-600.81	-207.84	-208.73	4.52	2.70	
7,096.00	23.47	95.81	7,043.37	-606.76	-171.65	-172.55	3.15	0.99	
7,191.00	27.86	92.82	7,128.98	-609.77	-130.64	-131.54	4.82	4.62	
7,286.00	36.96	92.03	7,209.10	-611.88	-79.82	-80.73	9.59	9.58	
7,380.00	46.49	91.33	7,279.17	-613.68	-17.35	-18.27	10.15	10.14	
7,475.00	58.62	92.99	7,336.83	-616.60	57.87	56.95	12.84	12.77	
7,570.00	72.20	93.79	7,376.27	-621.73	143.90	142.97	14.32	14.29	
7,597.46	72.54	93.68	7,384.59	-623.44	170.01	169.09	1.28	1.22	TPZ - 7597.46' MD (689 FSL, 480 FWL)
7,664.00	73.35	93.43	7,404.10	-627.38	233.50	232.57	1.28	1.22	
7,759.00	75.89	93.61	7,429.30	-633.01	324.92	323.98	2.68	2.67	
7,853.00	81.78	92.47	7,447.49	-637.89	416.97	416.02	6.38	6.27	
7,948.00	84.42	90.53	7,458.91	-640.35	511.23	510.28	3.44	2.78	
8,043.00	87.63	90.89	7,465.49	-641.53	605.99	605.03	3.40	3.38	
8,137.00	90.09	91.59	7,467.36	-643.56	699.94	698.98	2.72	2.62	
8,231.00	89.43	92.73	7,467.75	-647.10	793.87	792.91	1.40	-0.70	
8,326.00	92.59	92.20	7,466.08	-651.19	888.75	887.79	3.37	3.33	
8,421.00	93.16	90.97	7,461.31	-653.81	983.59	982.62	1.43	0.60	
8,515.00	94.48	90.62	7,455.05	-655.11	1,077.37	1,076.40	1.45	1.40	
8,609.00	93.08	88.69	7,448.85	-654.55	1,171.16	1,170.19	2.53	-1.49	
8,704.00	91.36	90.09	7,445.17	-653.54	1,266.08	1,265.11	2.33	-1.81	
8,798.00	89.34	90.27	7,444.60	-653.83	1,360.07	1,359.10	2.16	-2.15	
8,893.00	88.42	90.45	7,446.46	-654.43	1,455.05	1,454.08	0.99	-0.97	
8,988.00	87.32	89.48	7,449.99	-654.37	1,549.98	1,549.01	1.54	-1.16	
9,083.00	88.64	88.86	7,453.34	-653.00	1,644.91	1,643.94	1.53	1.39	
9,177.00	88.59	88.86	7,455.61	-651.13	1,738.86	1,737.90	0.05	-0.05	
9,272.00	88.37	88.78	7,458.13	-649.17	1,833.81	1,832.85	0.25	-0.23	
9,367.00	89.74	88.60	7,459.70	-647.00	1,928.77	1,927.81	1.45	1.44	
9,462.00	90.22	88.42	7,459.73	-644.53	2,023.74	2,022.78	0.54	0.51	
9,556.00	88.24	84.82	7,460.99	-638.99	2,117.55	2,116.60	4.37	-2.11	
9,650.00	89.34	85.70	7,462.98	-631.22	2,211.20	2,210.26	1.50	1.17	
9,744.00	88.77	86.67	7,464.53	-624.97	2,304.98	2,304.05	1.20	-0.61	
9,839.00	89.87	86.75	7,465.66	-619.52	2,399.81	2,398.89	1.16	1.16	
9,933.00	91.58	90.80	7,464.47	-617.51	2,493.76	2,492.84	4.68	1.82	
10,028.00	91.85	91.50	7,461.62	-619.42	2,588.70	2,587.78	0.79	0.28	
10,123.00	90.75	92.64	7,459.47	-622.85	2,683.61	2,682.68	1.67	-1.16	
10,218.00	90.48	91.50	7,458.45	-626.28	2,778.54	2,777.61	1.23	-0.28	
10,312.00	89.60	88.16	7,458.38	-626.00	2,872.53	2,871.59	3.67	-0.94	
10,407.00	91.58	92.03	7,457.40	-626.15	2,967.50	2,966.57	4.58	2.08	
10,502.00	92.20	93.26	7,454.27	-630.54	3,062.34	3,061.40	1.45	0.65	
10,597.00	91.54	92.20	7,451.17	-635.06	3,157.18	3,156.24	1.31	-0.69	
10,692.00	90.18	89.04	7,449.74	-636.09	3,252.15	3,251.21	3.62	-1.43	
10,786.00	91.49	90.71	7,448.37	-635.88	3,346.14	3,345.19	2.26	1.39	
10,881.00	91.80	91.15	7,445.65	-637.42	3,441.08	3,440.14	0.57	0.33	

Survey Report

Company:	Crestone Peak Resources	Local Co-ordinate Reference:	Well SAM 3K-25H-M166
Project:	DJ BASIN	TVD Reference:	23' KB @ 5109.00usft
Site:	S25-T1N-R66W (SAM)	MD Reference:	23' KB @ 5109.00usft
Well:	SAM 3K-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
10,975.00	90.97	90.01	7,443.37	-638.37	3,535.05	3,534.10	1.50	-0.88	
11,070.00	91.23	89.92	7,441.55	-638.31	3,630.03	3,629.08	0.29	0.27	
11,164.00	89.25	90.97	7,441.16	-639.04	3,724.02	3,723.07	2.38	-2.11	
11,259.00	89.65	91.33	7,442.07	-640.95	3,819.00	3,818.04	0.57	0.42	
11,354.00	89.96	90.36	7,442.39	-642.35	3,913.99	3,913.03	1.07	0.33	
11,448.00	87.58	92.38	7,444.41	-644.60	4,007.93	4,006.97	3.32	-2.53	
11,544.00	87.32	91.68	7,448.68	-648.00	4,103.77	4,102.81	0.78	-0.27	
11,638.00	87.14	91.50	7,453.22	-650.60	4,197.62	4,196.66	0.27	-0.19	
11,732.00	87.32	90.97	7,457.77	-652.62	4,291.49	4,290.52	0.59	0.19	
11,827.00	87.85	91.68	7,461.77	-654.82	4,386.38	4,385.41	0.93	0.56	
11,872.00	88.11	91.15	7,463.36	-655.93	4,431.34	4,430.36	1.31	0.58	LAST SURVEY - 11872.00' MD
11,937.00	88.11	91.15	7,465.50	-657.23	4,496.29	4,495.31	0.00	0.00	PTB - 11937.00' MD (649 FSL, 464 FEL)

Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SAM 3K 1732' TGT - actual wellpath misses target center by 12.39usft at 9170.49usft MD (7455.45 TVD, -651.26 N, 1732.35 E) - Point	0.00	0.00	7,461.00	-640.19	1,732.00	1,249,931.38	3,216,314.47	40.016862	-104.727671
SAM 3K-25H PBHL - actual wellpath misses target center by 22.11usft at 11937.00usft MD (7465.50 TVD, -657.23 N, 4496.29 E) - Point	0.00	0.51	7,469.00	-635.97	4,501.23	1,249,959.52	3,219,083.56	40.016873	-104.717784
SAM 3K 3378' TGT - actual wellpath misses target center by 16.56usft at 10818.43usft MD (7447.50 TVD, -636.32 N, 3378.55 E) - Point	0.00	0.00	7,464.00	-637.68	3,379.00	1,249,948.12	3,217,961.38	40.016869	-104.721791
SAM 3K-25H TPZ - actual wellpath misses target center by 72.29usft at 7620.13usft MD (7391.34 TVD, -624.81 N, 191.61 E) - Point	0.00	0.50	7,458.00	-642.57	170.01	1,249,915.50	3,214,752.56	40.016856	-104.733248

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
7,597.46	7,384.59	-623.44	170.01	TPZ - 7597.46' MD (689 FSL, 480 FWL)	
11,872.00	7,463.36	-655.93	4,431.34	LAST SURVEY - 11872.00' MD	
11,937.00	7,465.50	-657.23	4,496.29	PTB - 11937.00' MD (649 FSL, 464 FEL)	

Checked By: _____	Approved By: _____	Date: _____
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