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CHESAPEAKE ENERGY

EH&S/Regulatory

October 18, 2018

VIA EMAIL TO R6WellCompletion@epa.gov

Director; Air, Pesticides, and Toxics Division
U.S. Environmental Protection Agency – Region 6
1445 Ross Avenue
Dallas, TX 75202

Re: NSPS Subpart OOOOa Annual Report – Louisiana
Chesapeake Operating, L.L.C.

Dear Sir or Madam:

Per 40 C.F.R. § 60.5420a(b), Chesapeake Operating, L.L.C. is submitting the annual report for affected facilities under 40 C.F.R. §60.5365a for the reporting period beginning on August 2, 2017.

This certification is based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

If you have any questions, please contact Jason Conway at (405) 935-6351.

Sincerely,

Chesapeake Operating, L.L.C.

David R. Bert

Dave Bert
Vice President – Gulf Coast Business Unit

Enclosure

cc: Louisiana Department of Environmental Quality
P.O. Box 4301
Baton Rouge, Louisiana 70821-4301
VIA CERTIFIED MAIL 9414 8149 01084 2185 80184

NSPS SUBPART OOOOa ANNUAL REPORT-WELL AFFECTED FACILITIES
Chesapeake Operating, L.L.C. 8/2/2017-8/1/2018

Well Name	State	County	Facility Name	United States Well Number	Latitude (° NAD83)	Longitude (° NAD83)	Onset of Flowback Following Hydraulic Fracturing or Refracturing (Date/Time)	Flow Directed to Separator (Date/Time)	Returned to Initial Flowback Stage (Date/Time)	Time Well Shut in and Flowback Equipment Permanently Disconnected or the Startup of Production (Date/Time)	Duration of Flowback (Hours)	Duration of Recovery (Hours)	Disposition of Recovery	Duration of Combustion (Hours)	Duration of Venting (Hours)	Starting Date and Ending Date for the Period the Well Operated Under the Exception (date)	Specific Reasons for Venting in Lieu of Capture or Combustion and/or for the Claim of Technical Infeasibility	Record of Deviations
BSNR 12&1-12-12 1H ALT	LOUISIANA	DE SOTO	BSNR 13&1-12-12 H-1 PAD	1703126424	32.03224	-93.54590	9/26/17 12:00 PM	9/26/17 12:00 PM		9/26/17 12:00 PM	0	1	Sales	0	0			No Deviation
BSNR 12&1-12-12 2H ALT	LOUISIANA	DE SOTO	BSNR 13&1-12-12 H-1 PAD	1703126425	32.03218	-93.54590	9/26/17 12:00 PM	9/26/17 12:00 PM		9/26/17 12:00 PM	0	1	Sales	0	0			No Deviation
BSNR 12&1-12-12 3H ALT	LOUISIANA	DE SOTO	BSNR 13&1-12-12 H-2 PAD	1703126426	32.03317	-93.55252	9/28/17 12:00 PM	9/28/17 1:00 PM		9/28/17 1:00 PM	1	1	Sales	0	0			No Deviation
BSNR 12&1-12-12 4H ALT	LOUISIANA	DE SOTO	BSNR 13&1-12-12 H-2 PAD	1703126427	32.03317	-93.55258	9/28/17 12:00 PM	9/28/17 12:00 PM		9/28/17 12:00 PM	0	1	Sales	0	0			No Deviation
CAD PAR 19&18-15-15 1H ALT	LOUISIANA	CADDO	CADDO PAR 30-15-15 PAD	1701736119	32.26886	-93.94552	4/25/18 10:00 AM	4/25/18 10:00 AM		4/25/18 10:00 AM	0	1	Sales	0	0			No Deviation
CAD PAR 19&18-15-15 2H ALT	LOUISIANA	CADDO	CADDO PAR 30-15-15 PAD	1701736120	32.26886	-93.94542	4/25/18 10:00 AM	4/25/18 10:00 AM		4/25/18 10:00 AM	0	1	Sales	0	0			No Deviation
CT 4&33-9-12 2HC	LOUISIANA	SABINE	CT 4-9-12 PAD	1708522463	31.78889	-93.60090	1/15/18 7:00 PM	1/15/18 8:00 PM		1/15/18 8:00 PM	1	0	Sales	0	0			No Deviation
GEPH 30&19&18-16-15 1HC	LOUISIANA	CADDO	INDIGO MINERALS 31-16-15 H-1 PAD	1701736082	32.34076	-93.93848	5/1/18 6:00 PM	5/1/18 7:00 PM		5/1/18 7:00 PM	1	0	Sales	0	0			No Deviation
HEWITT 3&10-13-12 1H ALT	LOUISIANA	DE SOTO	HEWITT 3-13-12 PAD	1703126460	32.15048	-93.58939	3/5/18 3:00 PM	3/5/18 3:00 PM		3/5/18 3:00 PM	0	1	Sales	0	0			No Deviation
HEWITT 3&10-13-12 2H ALT	LOUISIANA	DE SOTO	HEWITT 3-13-12 PAD	1703126461	32.15048	-93.58929	3/5/18 3:00 PM	3/5/18 3:00 PM		3/5/18 3:00 PM	0	1	Sales	0	0			No Deviation
HEWITT 3&10-13-12 3H ALT	LOUISIANA	DE SOTO	HEWITT 3-13-12 PAD	1703126462	32.15048	-93.58920	3/5/18 1:00 PM	3/5/18 1:00 PM		3/5/18 1:00 PM	0	1	Sales	0	0			No Deviation
JHSN 28&33&4-15-15 1H	LOUISIANA	CADDO	JHSN 28-15-15 PAD	1701736071	32.26063	-93.91415	4/3/18 12:00 PM	4/3/18 12:00 PM		4/3/18 12:00 PM	0	1	Sales	0	0			No Deviation
JHSN 28&33&4-15-15 2H	LOUISIANA	CADDO	JHSN 28-15-15 PAD	1701736072	32.26071	-93.91415	4/3/18 12:00 PM	4/3/18 12:00 PM		4/3/18 12:00 PM	0	1	Sales	0	0			No Deviation
JHSN 28&33-15-15 1H	LOUISIANA	CADDO	JHSN 28-15-15 PAD	1701736070	32.26054	-93.91416	4/3/18 11:00 AM	4/3/18 11:00 AM	4/3/18 2:00 PM	4/3/18 2:00 PM	3	3	Sales	0	0			No Deviation
MORGN 30&31&6-16-14 1H ALT	LOUISIANA	CADDO	MORGAN ET AL 30-16-14 PAD	1701736022	32.34958	-93.83403	8/29/17 2:00 PM	8/29/17 3:00 PM		8/29/17 3:00 PM	1	1	Sales	0	0			No Deviation
MORGN 30&31&6-16-14 2H ALT	LOUISIANA	CADDO	MORGAN ET AL 30-16-14 PAD	1701736023	32.34958	-93.83383	8/29/17 4:00 PM	8/29/17 4:00 PM		8/29/17 4:00 PM	0	1	Sales	0	0			No Deviation
MRGN 30&19&18-16-14 1H ALT	LOUISIANA	CADDO	MORGAN ET AL 30-16-14 PAD	1701736026	32.34958	-93.83412	8/29/17 3:00 PM	8/29/17 3:00 PM		8/29/17 3:00 PM	0	1	Sales	0	0			No Deviation
MRGN 30&19&18-16-14 2H ALT	LOUISIANA	CADDO	MORGAN ET AL 30-16-14 PAD	1701736027	32.34958	-93.83393	8/29/17 4:00 PM	8/29/17 5:00 PM		8/29/17 5:00 PM	1	1	Sales	0	0			Notification was not submitted on time
NABOR 7&6&31-12-11 1H ALT	LOUISIANA	DE SOTO	NABORS 7-12-11 H-1 PAD	1703126303	32.04599	-93.54030	8/23/17 2:00 PM	8/23/17 2:00 PM		8/23/17 2:00 PM	0	1	Sales	0	0			No Deviation
NABOR 7&6-12-11 1H ALT	LOUISIANA	DE SOTO	NABORS 7-12-11 H-1 PAD	1703126304	32.04599	-93.54024	8/23/17 2:00 PM	8/23/17 2:00 PM		8/23/17 4:00 PM	2	2	Sales	0	0			No Deviation
NABORS 13&12-10-13 1HC	LOUISIANA	SABINE	NABORS 24-10-13 H-1 PAD	1708522460	31.84472	-93.65112	11/17/17 11:00 AM	11/17/17 12:00 PM		11/17/17 12:00 PM	1	1	Sales	0	0			No Deviation
NGLSH 12&13-12-13 1HC	LOUISIANA	DE SOTO	NGLSH 1-12-13 PAD	1703126567	32.05031	-93.65593	5/13/18 1:00 PM	5/13/18 1:00 PM		5/13/18 1:00 PM	0	1	Sales	0	0			No Deviation
NGLSH 12&13-12-13 2HC	LOUISIANA	DE SOTO	NGLSH 1-12-13 PAD	1703126568	32.05031	-93.65599	5/13/18 11:00 AM	5/13/18 11:00 AM		5/13/18 11:00 AM	0	1	Sales	0	0			No Deviation
NGYN 32&29-16-14 1H ALT	LOUISIANA	CADDO	NGUYEN 32-16-14 H-1 PAD	1701736024	32.32792	-93.82392	8/11/17 6:00 AM	8/11/17 6:00 AM		8/11/17 6:00 AM	0	1	Sales	0	0			No Deviation
NGYN 32&29-16-14 2H ALT	LOUISIANA	CADDO	NGUYEN 32-16-14 H-1 PAD	1701736025	32.32682	-93.82783	8/14/17 1:00 PM	8/14/17 2:00 PM		8/14/17 2:00 PM	1	2	Sales	0	0			No Deviation
PKY 27&22-14-15 2H ALT	LOUISIANA	DE SOTO	PKY 27&22-14-15 ALT PAD	1703126352	32.17080	-93.89505	10/16/17 3:00 PM	10/16/17 3:00 PM		10/16/17 3:00 PM	0	1	Sales	0	0			No Deviation
PKY 27&22-14-15 3H ALT	LOUISIANA	DE SOTO	PKY 27&22-14-15 ALT PAD	1703126353	32.17072	-93.89505	10/16/17 3:00 PM	10/16/17 3:00 PM		10/16/17 3:00 PM	0	0	Sales	0	0			No Deviation
PKY 27&22-14-15 4H ALT	LOUISIANA	DE SOTO	PKY 27&22-14-15 ALT PAD	1703126363	32.17063	-93.89506	10/16/17 3:00 PM	10/16/17 3:00 PM		10/16/17 3:00 PM	0	1	Sales	0	0			No Deviation
SIBLEY 4&9-15-14 1HC	LOUISIANA	DE SOTO	SIBLEY 4-15-14 PAD	1703126535	32.32475	-93.80262	6/23/18 10:00 AM	6/23/18 11:00 AM		6/23/18 11:00 AM	1	1	Sales	0	0			No Deviation
WFP 22&15-15-15 1H ALT	LOUISIANA	CADDO	WFP 22-15-15 PAD	1701736046	32.27481	-93.89515	10/20/17 2:00 PM	10/20/17 2:00 PM		10/20/17 2:00 PM	0	1	Sales	0	0			No Deviation
WFP 22&15-15-15 2H ALT	LOUISIANA	CADDO	WFP 22-15-15 PAD	1701736047	32.27489	-93.89514	10/20/17 3:00 PM	10/20/17 4:00 PM		10/20/17 4:00 PM	1	1	Sales	0	0			No Deviation
WFP 22&15-15-15 3H ALT	LOUISIANA	CADDO	WFP 22-15-15 PAD	1701736048	32.27497	-93.89514	10/20/17 2:00 PM	10/20/17 3:00 PM		10/20/17 3:00 PM	1	1	Sales	0	0			No Deviation
WOOL 4&9-15-14 1HC	LOUISIANA	CADDO	WOOL 4-15-14 PAD	1701736122	32.32506	-93.80992	6/26/18 12:00 PM	6/26/18 12:00 PM		6/26/18 12:00 PM	0	1	Sales	0	0			No Deviation
WOOL 4&9-15-14 2HC	LOUISIANA	CADDO	WOOL 4-15-14 PAD	1701736123	32.32506	-93.80983	6/26/18 1:00 PM	6/26/18 1:00 PM		6/26/18 1:00 PM	0	1	Sales	0	0			No Deviation
WOOL 4&9-15-14 3HC	LOUISIANA	CADDO	WOOL 4-15-14 PAD	1701736124	32.32506	-93.80973	6/26/18 12:00 PM	6/26/18 1:00 PM		6/26/18 1:00 PM	1	1	Sales	0	0			No Deviation

NSPS Subpart OOOOa Annual Report for period beginning 8/2/2017 - collection of fugitive emissions components at a well site

Operator Name	CHESAPEAKE OPERATING LLC
Monitoring Instrument	FLIR GF320
Serial Number	44400965
Surveys Performed By	Amanda Dean
Operator Training and Experience	Trained and Certified for Optical Gas Imaging November 2016

Site Number	Site Name	Surface Latitude Value	Surface Longitude Value	OOOOa Survey Date	OOOOa Survey Start Time	OOOOa Survey End Time	Ambient Temperature (F)	Sky Conditions	Max Observed Wind Speed (mph)	Number of Leaking Components	Type of Leaking Component	Repair Date	Repair Verification Method	Number and type of leaking components not repaired	Number and type of difficult to monitor or unsafe to monitor	Number and type of components placed on delay of repair	Deviation from monitoring plan?
60.5420a(b)(1)(ii)	60.5420a(b)(1)(i)	60.5420a(b)(1)(i)	60.5420a(b)(1)(i)	60.5420a(b)(7) (i)	60.5420a(b)(7)(ii)	60.5420a(b)(7)(ii)	60.5420a(b)(7)(iv)	60.5420a(b)(7)(iv)	60.5420a(b)(7)(iv)	60.5420a(b)(7)(vii)	60.5420a(b)(7)(vii)	60.5420a(b)(7)(x)	60.5420a(b)(7)(xiii)	60.5420a(b)(7)(viii)	60.5420a(b)(7)(ix)	60.5420a(b)(7)(xi)	60.5420a(b)(7)(vi)
912553	HUNTER 29-12-12 1H PAD	32.004636	-93.616263	8/25/2017	12:16	13:10	77	Cloudy	3.7	2	Fitting (1) Thief Hatch (1)	8/25/2017	OGI	0	0	0	N
928544	MORGAN ET AL 30-16-14 PAD	32.34958	-93.834123	9/18/2017	9:20	10:10	75.5	Sunny	2.1	1	Connection (1)	9/18/2017	OGI	0	0	0	N
911327	NGUYEN 32-16-14 H-1 PAD	32.326599	-93.82812	9/20/2017	15:38	15:56	94.4	Sunny	6.9	0	N/A	N/A	N/A	0	0	0	N
901870	NABORS 7-12-11 H-1 PAD	32.046089	-93.540126	10/4/2017	12:38	12:50	85.4	Sunny	6	0	N/A	N/A	N/A	0	0	0	N
929362	BSNR 13&1-12-12 H-1 PAD	32.032239	-93.545898	10/23/2017	9:48	10:04	57	Sunny	4.6	0	N/A	N/A	N/A	0	0	0	N
929363	BSNR 13&1-12-12 H-2 PAD	32.033167	-93.552515	10/23/2017	10:09	10:25	57	Sunny	4.6	2	Valve (1) Fitting (1)	10/24/2017	OGI	0	0	0	N
928721	PKY 27&22-14-15 ALT PAD	32.170856	-93.895394	11/14/2017	9:16	9:48	55	Sunny	4.8	0	N/A	N/A	N/A	0	0	0	N
928839	WFP 22-15-15 PAD	32.274806	-93.895147	11/14/2017	15:15	15:48	55	Sunny	4.8	2	Thief Hatch (2)	11/17/2017	OGI	0	0	0	N
951094	QUINN PINE 34-13-12 H-1 PAD	32.063692	-93.580949	11/20/2017	14:30	15:06	37	Sunny	2.3	1	Connection (1)	11/23/2017	OGI	0	0	0	N
927950	TIGRE 36&1-15-12 PAD	32.252793	-93.554642	11/29/2017	13:51	14:21	76	Sunny	7	0	N/A	N/A	N/A	0	0	0	N
911341	AWT BE GOOD 19-14-11 H-1 PAD	32.179981	-93.538988	11/29/2017	13:04	13:26	76	Sunny	7	0	N/A	N/A	N/A	0	0	0	N
912360	MUSE 24-14-15 1H PAD	32.194939	-93.853122	11/30/2017	14:22	14:58	66	Sunny	8.9	1	Valve	12/13/2017	OGI	0	0	0	N
950932	PANKEY 35-14-15 H-1 PAD	32.164875	-93.880758	11/30/2017	13:08	13:34	66	Sunny	8.9	1	Fitting	12/7/2017	OGI	0	0	0	N
950953	PEACOCK ET AL 13-15-15 H-1 PAD	32.283008	-93.852578	11/30/2017	15:17	15:51	66	Sunny	8.9	2	Valve (2)	12/11/2017	OGI	0	0	0	N
949684	GRAHAM 34-15-15 H-1 PAD	32.25239	-93.895407	12/1/2017	14:43	14:59	60	Sunny	7.4	0	N/A	N/A	N/A	0	0	0	N
950690	MILTON CROW 27 H-1 PAD	32.2544	-93.897653	12/1/2017	14:22	14:37	60	Sunny	7.4	1	Thief hatch	12/5/2017	OGI	0	0	0	N
900457	PHILLIPS ENERGY 1-14-15 PAD	32.23839	-93.862353	12/1/2017	13:21	13:37	60	Sunny	7.4	3	Connection (1) Thief Hatch (1)	12/5/2017	OGI	0	0	0	N
951251	ROTC 1-14-16 H-1 PAD	32.238822	-93.962792	12/1/2017	11:08	11:28	60	Sunny	7.4	0	N/A	N/A	N/A	0	0	0	N
913949	JOHNSON 10-14-15 ALT PAD	32.223593	-93.886152	12/1/2017	12:06	12:34	60	Sunny	7.4	3	Connection (1) Valve (2)	12/7/2017	OGI	0	0	0	N
951471	SIX J 36-15-15 H-1 PAD	32.23908	-93.862473	12/1/2017	13:45	14:06	60	Sunny	7.4	3	Valve (3)	12/5/2017	OGI	0	0	0	N
928174	BLOUNT 30-15-11 PAD	32.265572	-93.532826	12/4/2017	12:36	13:00	75	Partly Cloudy	16.6	0	N/A	N/A	N/A	0	0	0	N
928268	WAERSTAD 12-14-12 PAD	32.224947	-93.5495	12/4/2017	13:55	14:13	75	Partly Cloudy	16.6	3	Valve (3)	12/6/2017	OGI	0	0	0	N
903080	ABG 37-14-11 PAD	32.180491	-93.529462	12/4/2017	13:26	13:37	75	Partly Cloudy	16.6	0	N/A	N/A	N/A	0	0	0	N

NSPS Subpart OOOOa Annual Report for period beginning 8/2/2017 - collection of fugitive emissions components at a well site

Operator Name	CHESAPEAKE OPERATING LLC
Monitoring Instrument	FLIR GF320
Serial Number	44400965
Surveys Performed By	Amanda Dean
Operator Training and Experience	Trained and Certified for Optical Gas Imaging November 2016

Site Number	Site Name	Surface Latitude Value	Surface Longitude Value	OOOOa Survey Date	OOOOa Survey Start Time	OOOOa Survey End Time	Ambient Temperature (F)	Sky Conditions	Max Observed Wind Speed (mph)	Number of Leaking Components	Type of Leaking Component	Repair Date	Repair Verification Method	Number and type of leaking components not repaired	Number and type of difficult to monitor or unsafe to monitor	Number and type of components placed on delay of repair	Deviation from monitoring plan?
60.5420a(b)(1)(ii)	60.5420a(b)(1)(i)	60.5420a(b)(1)(i)	60.5420a(b)(1)(i)	60.5420a(b)(7) (i)	60.5420a(b)(7)(ii)	60.5420a(b)(7)(ii)	60.5420a(b)(7)(iv)	60.5420a(b)(7)(iv)	60.5420a(b)(7)(iv)	60.5420a(b)(7)(vii)	60.5420a(b)(7)(vii)	60.5420a(b)(7)(x)	60.5420a(b)(7)(xiii)	60.5420a(b)(7)(viii)	60.5420a(b)(7)(ix)	60.5420a(b)(7)(xi)	60.5420a(b)(7)(vi)
928563	MC MIN 7-15-14 PAD	32.303092	-93.836872	12/8/2017	12:33	13:07	37	Partly Cloudy	4.1	5	Connection(3) Fitting (1) Valve	12/11/2017	OGI	0	0	0	N
952170	WILLIAMS 22-15-15 H-3 ST PAD	32.272409	-93.885523	12/8/2017	10:59	11:17	37	Partly Cloudy	4.1	1	Connection (1)	12/12/2017	OGI	0	0	0	N
928900	BEDSOLE 18-12-12 PAD	32.027843	-93.641808	12/11/2017	11:55	12:24	55	Sunny	6.6	1	Valve	12/22/2017	OGI	0	0	0	N
900772	NABORS 24-10-13 H-1 PAD	31.844617	-93.651237	12/11/2017	10:48	11:07	55	Sunny	6.6	1	Connection	12/11/2017	OGI	0	0	0	N
950795	NABORS PROPERTIES 32-13-11 H-1 PAD	32.076921	-93.521737	12/11/2017	14:02	14:19	55	Sunny	6.6	1	Valve	12/11/2017	OGI	0	0	0	N
928416	WELLMAN 28&33-13-11 PAD	32.092377	-93.496462	12/11/2017	14:29	14:45	55	Sunny	6.6	1	Connection	12/11/2017	OGI	0	0	0	N
912553	HUNTER 29-12-12 1H PAD	32.004636	-93.616263	1/25/2018	12:47	13:03	62	Sunny	7.5	0	N/A	N/A	N/A	0	0	0	N
928544	MORGAN ET AL 30-16-14 PAD	32.34958	-93.834123	1/29/2018	12:15	13:01	65	Sunny	7.5	0	N/A	N/A	N/A	0	0	0	N
951267	ROY O MARTIN MINERALS 23-16-16 H-1	32.369387	-93.979985	1/29/2018	14:37	15:00	59	Sunny	13.1	1	Fitting	1/29/2018	OGI	0	0	0	N
949062	CHIGGERO ET AL 14-16-15 H-1 RE PAD	32.374426	-93.868362	1/31/2018	12:52	13:01	65	Sunny	7.5	0	N/A	N/A	N/A	0	0	0	N
929402	CT 4-9-12 PAD	31.788942	-93.600904	3/1/2018	15:03	15:17	71	Partly Cloudy	8.2	0	N/A	N/A	N/A	0	0	0	N
929362	BSNR 13&1-12-12 H-1 PAD	32.032239	-93.545898	3/13/2018	12:17	12:38	58	Sunny	5	2	Thief Hatch (2)	4/6/2018	OGI	0	0	0	N
929363	BSNR 13&1-12-12 H-2 PAD	32.033167	-93.552515	3/13/2018	12:41	13:25	58	Sunny	5	3	Fitting (1) Thief Hatch (2)	4/6/2018	OGI	0	0	0	N
928717	HEWITT 3-13-12 PAD	32.150477	-93.589391	3/26/2018	8:52	9:16	66	Overcast	7.2	0	N/A	N/A	N/A	0	0	0	N
928174	BLOUNT 30-15-11 PAD	32.265572	-93.532826	4/5/2018	14:57	15:07	56	Sunny	6.1	0	N/A	N/A	N/A	0	0	0	N
927950	TIGRE 36&1-15-12 PAD	32.252793	-93.554642	4/5/2018	12:11	12:40	56	Sunny	6.1	2	Regulator (1) Connection (1)	4/5/2018	OGI	0	0	0	N
911341	AWT BE GOOD 19-14-11 H-1 PAD	32.179981	-93.538988	4/5/2018	10:40	11:00	56	Sunny	6.1	0	N/A	N/A	N/A	0	0	0	N
928268	WAERSTAD 12-14-12 PAD	32.224947	-93.5495	4/5/2018	11:33	11:46	56	Sunny	6.1	0	N/A	N/A	N/A	0	0	0	N
903080	ABG 37-14-11 PAD	32.180491	-93.529462	4/5/2018	11:02	11:15	56	Sunny	6.1	0	N/A	N/A	N/A	0	0	0	N
923392	SMITH HEIRS 27-15-12 A PAD	32.265731	-93.589764	4/5/2018	14:23	15:07	56	Sunny	6.1	1	Connection	4/10/2018	OGI	0	0	0	N
912360	MUSE 24-14-15 1H PAD	32.194939	-93.853122	4/11/2018	14:01	14:16	73	Sunny	5.2	0	N/A	N/A	N/A	0	0	0	N
950932	PANKEY 35-14-15 H-1 PAD	32.164875	-93.880758	4/11/2018	15:03	15:31	73	Sunny	5.2	1	Fitting	4/11/2018	OGI	0	0	0	N
900698	PANKEY 26-14-15 H-1 PAD	32.166833	-93.869875	4/11/2018	14:28	14:53	73	Sunny	5.2	2	Connection (1) Valve (1)	4/11/2018	OGI	0	0	0	N

NSPS Subpart OOOOa Annual Report for period beginning 8/2/2017 - collection of fugitive emissions components at a well site

Operator Name	CHESAPEAKE OPERATING LLC
Monitoring Instrument	FLIR GF320
Serial Number	44400965
Surveys Performed By	Amanda Dean
Operator Training and Experience	Trained and Certified for Optical Gas Imaging November 2016

Site Number	Site Name	Surface Latitude Value	Surface Longitude Value	OOOOa Survey Date	OOOOa Survey Start Time	OOOOa Survey End Time	Ambient Temperature (F)	Sky Conditions	Max Observed Wind Speed (mph)	Number of Leaking Components	Type of Leaking Component	Repair Date	Repair Verification Method	Number and type of leaking components not repaired	Number and type of difficult to monitor or unsafe to monitor	Number and type of components placed on delay of repair	Deviation from monitoring plan?
60.5420a(b)(1)(ii)	60.5420a(b)(1)(i)	60.5420a(b)(1)(i)	60.5420a(b)(1)(i)	60.5420a(b)(7) (i)	60.5420a(b)(7)(ii)	60.5420a(b)(7)(ii)	60.5420a(b)(7)(iv)	60.5420a(b)(7)(iv)	60.5420a(b)(7)(iv)	60.5420a(b)(7)(vii)	60.5420a(b)(7)(vii)	60.5420a(b)(7)(x)	60.5420a(b)(7)(xiii)	60.5420a(b)(7)(viii)	60.5420a(b)(7)(ix)	60.5420a(b)(7)(xi)	60.5420a(b)(7)(vi)
909314	PANKEY 34-14-15 H-1 PAD	32.164339	-93.887666	4/12/2018	10:18	10:28	65	Partly Cloudy	5	0	N/A	N/A	N/A	0	0	0	N
949684	GRAHAM 34-15-15 H-1 PAD	32.25239	-93.895407	4/23/2018	11:46	12:05	64	Partly Cloudy	8	0	N/A	N/A	N/A	0	0	0	N
950690	MILTON CROW 27 H-1 PAD	32.2544	-93.897653	4/23/2018	11:27	11:45	64	Partly Cloudy	8	1	Fitting (1) Thief Hatch (1)	4/23/2018	OGI	0	0	0	N
928721	PKY 27&22-14-15 ALT PAD	32.170856	-93.895394	4/23/2018	12:26	12:38	64	Partly Cloudy	8	1	Flange	4/24/2018	OGI	0	0	0	N
929102	JHSN 28-15-15 PAD	32.260625	-93.914154	4/23/2018	13:35	13:51	64	Partly Cloudy	8	1	Thief Hatch	5/9/2018	OGI	0	0	0	N
928839	WFP 22-15-15 PAD	32.274806	-93.895147	4/23/2018	11:00	11:14	64	Partly Cloudy	8	0	N/A	N/A	N/A	0	0	0	N
951251	ROTC 1-14-16 H-1 PAD	32.238822	-93.962792	4/23/2018	14:20	14:43	64	Partly Cloudy	8	2	Regulator	5/2/2018	OGI	0	0	0	N
952170	WILLIAMS 22-15-15 H-3 ST PAD	32.272409	-93.885523	4/23/2018	10:47	10:56	64	Partly Cloudy	8	0	N/A	N/A	N/A	0	0	0	N
900457	PHILLIPS ENERGY 1-14-15 PAD	32.23839	-93.862353	4/24/2018	11:54	12:02	66	Sunny	2.5	0	N/A	N/A	N/A	0	0	0	N
950953	PEACOCK ET AL 13-15-15 H-1 PAD	32.283008	-93.852578	4/24/2018	10:40	10:50	66	Sunny	2.5	0	N/A	N/A	N/A	0	0	0	N
928273	JHSN 30&31-15-14 PAD	32.258609	-93.836021	4/24/2018	10:03	10:26	66	Sunny	2.5	1	Connection	5/9/2018	OGI	0	0	0	N
951471	SIX J 36-15-15 H-1 PAD	32.23908	-93.862473	4/24/2018	12:03	12:12	66	Sunny	2.5	0	N/A	N/A	N/A	0	0	0	N
913949	JOHNSON 10-14-15 ALT PAD	32.223593	-93.886152	4/26/2018	14:53	15:11	66	Sunny	14.2	2	Fitting (1) Thief Hatch (1)	4/30/2018	OGI	0	0	0	N
914049	IWI 14-10-13 PAD	31.859179	-93.666863	5/1/2018	11:38	11:50	79	Sunny	17	0	N/A	N/A	N/A	0	0	0	N
911327	NGUYEN 32-16-14 H-1 PAD	32.326599	-93.82812	5/2/2018	14:01	14:26	79	Overcast	7.2	0	N/A	N/A	N/A	0	0	0	N
949088	CLINGMAN ACRES 1-15-15 H-1 PAD	32.312248	-93.858872	5/2/2018	13:04	13:15	79	Overcast	7.2	0	N/A	N/A	N/A	0	0	0	N
928563	MC MIN 7-15-14 PAD	32.303092	-93.836872	5/2/2018	13:28	13:50	79	Overcast	7.2	2	Fitting (1) Thief Hatch (1)	5/3/2018	OGI	0	0	0	N
911345	AUDUBON PROPERTIES 27 2 PAD	32.341907	-93.79514	5/2/2018	14:47	15:00	79	Overcast	7.2	0	N/A	N/A	N/A	0	0	0	N
923961	NABORS 29&20-10-12 PAD	31.815363	-93.618781	5/3/2018	11:01	11:29	79	Partly Cloudy	6.5	0	N/A	N/A	N/A	0	0	0	N
900772	NABORS 24-10-13 H-1 PAD	31.844617	-93.651237	5/3/2018	12:11	12:23	79	Partly Cloudy	6.5	0	N/A	N/A	N/A	0	0	0	N
928900	BEDSOLE 18-12-12 PAD	32.027843	-93.641808	5/9/2018	9:28	10:04	67	Sunny	5.6	0	N/A	N/A	N/A	0	0	0	N
948939	CALHOUN 7-12-12 H-1 PAD	32.048398	-93.634059	5/9/2018	9:15	9:22	67	Sunny	5.6	0	N/A	N/A	N/A	0	0	0	N
948933	CADDO PAR 30-15-15 PAD	32.26896	-93.945244	5/9/2018	12:19	12:38	67	Sunny	5.6	0	N/A	N/A	N/A	0	0	0	N

NSPS Subpart OOOOa Annual Report for period beginning 8/2/2017 - collection of fugitive emissions components at a well site

Operator Name	CHESAPEAKE OPERATING LLC
Monitoring Instrument	FLIR GF320
Serial Number	44400965
Surveys Performed By	Amanda Dean
Operator Training and Experience	Trained and Certified for Optical Gas Imaging November 2016

Site Number	Site Name	Surface Latitude Value	Surface Longitude Value	OOOOa Survey Date	OOOOa Survey Start Time	OOOOa Survey End Time	Ambient Temperature (F)	Sky Conditions	Max Observed Wind Speed (mph)	Number of Leaking Components	Type of Leaking Component	Repair Date	Repair Verification Method	Number and type of leaking components not repaired	Number and type of difficult to monitor or unsafe to monitor	Number and type of components placed on delay of repair	Deviation from monitoring plan?
60.5420a(b)(1)(ii)	60.5420a(b)(1)(i)	60.5420a(b)(1)(i)	60.5420a(b)(1)(i)	60.5420a(b)(7) (i)	60.5420a(b)(7)(ii)	60.5420a(b)(7)(ii)	60.5420a(b)(7)(iv)	60.5420a(b)(7)(iv)	60.5420a(b)(7)(iv)	60.5420a(b)(7)(vii)	60.5420a(b)(7)(vii)	60.5420a(b)(7)(x)	60.5420a(b)(7)(xiii)	60.5420a(b)(7)(viii)	60.5420a(b)(7)(ix)	60.5420a(b)(7)(xi)	60.5420a(b)(7)(vi)
911791	CHK MIN 3-13-12 H-1 PAD	32.137756	-93.578342	5/9/2018	15:38	16:27	67	Sunny	5.6	1	Connection	5/9/2018	OGI	0	0	0	N
951094	QUINN PINE 34-13-12 H-1 PAD	32.063692	-93.580949	5/9/2018	8:39	9:06	67	Sunny	5.6	2	Regulator (1) Connection (1)	5/9/2018	OGI	0	0	0	N
900919	PETRO-HUNT 5-12-12 H-1 PAD	32.049385	-93.621332	5/9/2018	10:12	10:26	67	Sunny	5.6	0	N/A	N/A	N/A	0	0	0	N
901870	NABORS 7-12-11 H-1 PAD	32.046089	-93.540126	5/21/2018	13:43	14:11	75	Overcast	3.7	5	Valve (1) Regulator (1)	6/1/2018	OGI	0	0	0	N
950795	NABORS PROPERTIES 32-13-11 H-1 PAD	32.076921	-93.521737	5/21/2018	15:31	15:44	75	Overcast	3.7	0	N/A	N/A	N/A	0	0	0	N
928416	WELLMAN 28&33-13-11 PAD	32.092377	-93.496462	5/21/2018	14:49	15:03	75	Overcast	3.7	1	Connection	5/24/2018	OGI	0	0	0	N
949988	INDIGO MINERALS 31-16-15 H-1 PAD	32.340657	-93.938594	5/21/2018	10:01	10:20	75	Overcast	3.7	1	Thief Hatch	6/4/2018	OGI	0	0	0	N
929864	NGLSH 1-12-13 PAD	32.050314	-93.655925	6/4/2018	10:28	10:43	79	Sunny	4.7	0	N/A	N/A	N/A	0	0	0	N
948845	BRIARWOOD 25&24-12-13 PAD	32.004743	-93.649701	6/4/2018	10:09	10:22	79	Sunny	4.6	0	N/A	N/A	N/A	0	0	0	N
950776	MUSLOW LAND & TIMBER 20-15-16 H-1 PAD	32.282681	-94.030468	6/4/2018	14:15	15:29	79	Sunny	4.7	1	Connection	6/6/2018	OGI	0	0	0	N