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July 22, 2019

Sent Via Fed Ex: 7758 0430 0665



Allen C. Beshore
Director, Central Region, OPS
U.S. Department of Transportation
Pipeline and Hazardous Materials Safety Administration
901 Locust Street, Suite 462
Kansas City, Missouri 64106-2641

RE: CPF 3-2019-6001: Response to Notice of Probable Violation, Proposed Civil Penalty, and Proposed Compliance Order ("NOPV & PCO")

Dear Mr. Beshore:

This letter is Caliber North Dakota LLC's ("Caliber") response to the Notice of Probable Violation, Proposed Civil Penalty, and Proposed Compliance Order, CPF 3-2019-6001, issued to Caliber and dated April 29, 2019. Caliber is electing to contest the allegations and has elected to not have a hearing. Caliber has provided below a written response to the allegations we are contesting and the associated proposed civil penalty.

➤ ***Caliber has determined that operating pressure did not exceed MOP***

The above-referenced NOPV and PCO were the result of Caliber's submission of a DOT Hazardous Liquid Safety Related Condition Report (the "SRCR"), based upon operating pressure rising above maximum operating pressure ("MOP") during a surge of pressure. Upon further analysis, Caliber has determined that operating pressure did *not* rise to a level that was in violation of 49 CFR Part 195. It is important to emphasize that the integrity of Caliber's system is intact and that the surge event did not in any way jeopardize this integrity.

The surge event did not violate any of the provisions governing maximum operating pressure in Section 195.406(b) of 49 CFR Part 195. Caliber determined that, during the surge event, the maximum pressure recorded was 522 psig. After evaluation, Caliber does not believe that there was justification to estimate that the pressure had reached the levels estimated in the SRCR.

Proposed Civil Penalty

Alleged Violation 1:

Alleged Violation. PHMSA alleges that "Caliber failed to follow its manual of written procedures for handling abnormal operations when it failed to correct variations from normal operations of pressure equipment and controls on its Alex Crude Oil Facility."

Caliber Response. Regarding the proposed civil penalty for this alleged violation, Caliber contests certain portions of the allegations as follows and requests that the proposed civil penalty be reduced accordingly.

PHMSA's Pipeline Safety Violation Report contained in the case file documents sent to Caliber and dated May 21, 2019 ("PHMSA Report"), in Part E5 – Circumstances, states that PHMSA or a State Partner discovered the violation. This is also reflected in PHMSA's Proposed Civil Penalty Worksheet contained



in these case file documents ("Worksheet"). This contradicts the PHMSA Report, however, in that the evidence described in Part E1 – Description of Violation relies completely on the SRCR and supporting information submitted by Caliber.

CFR §195.406(b) - Pressures during surges and other variations from normal operations:

Pursuant to this subsection "[n]o operator may permit the pressure in a pipeline during surges or other variations from normal operations to exceed 110 percent of the operating pressure limit established under paragraph (a) of this section. Each operator must provide adequate controls and protective equipment to control the pressure within this limit." The maximum operating pressure limit referred to above as in "[p]aragraph (a)" refers to CFR §195.106. The MOP established pursuant to CFR §195.106 is 500 psig. 110 percent of this MOP is 550 psig. The maximum pressure reached during the surge event was 522 psig, the pressure did not reach 110 percent of the MOP established pursuant to the regulation, and the surge event did not violate CFR §195.406(b).

Alleged Violation 2:

Alleged Violation. PHMSA alleges that Caliber "did not provide adequate controls and protective equipment to limit the pressure to 110 percent of maximum operating pressure." PHMSA further alleges that "pressure sources to the Alex facility failed to have adequate controls or protective equipment to control the pressure within the 110 percent limit."

Caliber Response. Caliber hereby contests these allegations and requests that the proposed civil penalty be eliminated. As detailed in the titled opening statement located underneath the second paragraph in bold - "Caliber has determined that operating pressure did not exceed MOP," the MOP did not exceed 110 percent of maximum operating pressure. Caliber in fact did provide adequate controls and protective equipment to limit the pressure to 110 percent of maximum operating pressure and pressure sources to the Alex facility did in fact have adequate controls and protective equipment to control the pressure with the 110 percent limit. In addition, Caliber contests certain portions of the allegations as follows:

PHMSA's Pipeline Safety Violation Report contained in the case file documents sent to Caliber and dated May 21, 2019 ("PHMSA Report"), in Part E5 – Circumstances, states that PHMSA or a State Partner discovered the violation. This is also reflected in PHMSA's Worksheet. This contradicts the PHMSA Report, however, in that the evidence described in Part E1 – Description of Violation relies on the SRCR submitted by Caliber.

- Part E-5 – Circumstances, states that violation started on 2/27/2017 and that it ended on 2/27/2017. Yet, it also inconsistently and inaccurately states that the violation is "Ongoing." It is inaccurate that at the time this NOPV was issued, that any violation was ongoing or continuing in any manner. Caliber promptly began an internal investigation of the event and voluntarily began putting corrective procedures in place.
- Part E-5 – Circumstances, states that the violation started on 2/27/2017 and that it ended on 2/27/2017. Yet, it also inconsistently and inaccurately states that the duration of the longest violation was "≥10days." The entire event was resolved in 6.5 hours. The controls were in place prior to the surge event to prevent a surge event that would have constituted a violation.
- Part E7 – Culpability, of the PHMSA Report, does not credit Caliber for its actions taken after the incident. Prior to its submittal of its SRCR, Caliber identified, planned, scheduled and timely completed seven different follow-up / corrective actions. These follow-up / corrective actions were listed SRCR.





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Based on the information in this written response Caliber is requesting a reduction for portions of the allegations attached to the proposed civil penalty #1 and that proposed civil penalty #2 be eliminated. If you have questions, I can be contacted at 720-630-2658.

Regards,

Carol Butero
Director of Regulatory, Safety, and Compliance

Enclosures:

- 1) "20170207 Alex & LACT Data.xlsx" List of LACT Units on the system. List of their set points at the time of the incident. Including psig readings. Information provided via email to Gregory Ochs with PHMSA on 3/15/2017 from Brian Videtich.
- 2) "2017-02-27 Caliber Midstream Safety Related Condition Report.pdf" submitted to InformationResourceManager via PHMSA portal and via email to Tanya Davis, James Pender, Donald Taylor with PHMSA.



Alex Oil Facility

PIT-100			ESD-100			0 = Open, 1 = Closed
Date	Time	Pressure (psig)	Date	Time		
MAX:		522.76				
MIN:		0.88				
AVG:		349.38				
Normal	2/27/2017	5:35:46 PM	1.94			0
	2/27/2017	5:32:46 PM	0.88			0
	2/27/2017	5:29:46 PM	1.69			0
	2/27/2017	5:26:46 PM	1.58			0
	2/27/2017	5:23:46 PM	1.88			0
	2/27/2017	5:20:46 PM	1.59			0
	2/27/2017	5:17:46 PM	1.52			0
	2/27/2017	5:14:46 PM	1.54			0
	2/27/2017	5:11:46 PM	1.42			0
	2/27/2017	5:08:46 PM	1.64			0
	2/27/2017	5:05:46 PM	2.37			0
LR-100 Mainline Valve Opening	2/27/2017	5:02:46 PM	3.54			0
	2/27/2017	4:59:46 PM	4.82			0
	2/27/2017	4:56:46 PM	6.39			0
	2/27/2017	4:53:46 PM	9.16			0
	2/27/2017	4:50:46 PM	11.93			0
	2/27/2017	4:47:46 PM	78.64			0
n in LR-100	2/27/2017	4:44:46 PM	387.37			0
	2/27/2017	4:41:46 PM	389.09			0
	2/27/2017	4:38:46 PM	390.82			0
	2/27/2017	4:35:46 PM	392.73			0
	2/27/2017	4:32:46 PM	394.54			0
	2/27/2017	4:29:46 PM	396.41			0
	2/27/2017	4:26:46 PM	397.98			0
	2/27/2017	4:23:46 PM	400.29			0
	2/27/2017	4:20:46 PM	400.94			0
	2/27/2017	4:17:46 PM	395.97			0
	2/27/2017	4:14:46 PM	387.57			0
	2/27/2017	4:11:46 PM	386.29			0
	2/27/2017	4:08:46 PM	389.32			0
	2/27/2017	4:05:46 PM	389.54			0
	2/27/2017	4:02:46 PM	391.33			0
	2/27/2017	3:59:46 PM	392.87			0
	2/27/2017	3:56:46 PM	394.72			0
	2/27/2017	3:53:46 PM	396.23			0
	2/27/2017	3:50:46 PM	397.92			0
	2/27/2017	3:47:46 PM	399.42			0
	2/27/2017	3:44:46 PM	401.14			0
	2/27/2017	3:41:46 PM	402.82			0
	2/27/2017	3:38:46 PM	405.11			0
	2/27/2017	3:35:46 PM	407.63			0
	2/27/2017	3:32:46 PM	407.71			0
	2/27/2017	3:29:46 PM	409.59			0
	2/27/2017	3:26:46 PM	411.27			0

ESD-100 Open, Pipeline Pig Obstruction

2/27/2017	3:23:46 PM	412.78			0
2/27/2017	3:20:46 PM	414.74			0
2/27/2017	3:17:46 PM	416.37			0
2/27/2017	3:14:46 PM	418.11			0
2/27/2017	3:11:46 PM	419.85			0
2/27/2017	3:08:46 PM	421.76			0
2/27/2017	3:05:46 PM	423.29			0
2/27/2017	3:02:46 PM	425.28			0
2/27/2017	2:59:46 PM	426.81			0
2/27/2017	2:56:46 PM	428.54			0
2/27/2017	2:53:46 PM	430.41			0
2/27/2017	2:50:46 PM	432.22			0
2/27/2017	2:47:46 PM	433.87			0
2/27/2017	2:44:46 PM	435.57			0
2/27/2017	2:41:46 PM	437.47			0
2/27/2017	2:38:46 PM	439.27			0
2/27/2017	2:35:46 PM	441			0
2/27/2017	2:32:46 PM	442.94			0
2/27/2017	2:29:46 PM	444.74			0
2/27/2017	2:26:46 PM	446.37			0
2/27/2017	2:23:46 PM	448.16			0
2/27/2017	2:20:46 PM	449.93			0
2/27/2017	2:17:46 PM	451.8			0
2/27/2017	2:14:46 PM	453.55			0
2/27/2017	2:11:46 PM	455.3			0
2/27/2017	2:08:46 PM	457.08			0
2/27/2017	2:05:46 PM	459.08			0
2/27/2017	2:02:46 PM	460.81			0
2/27/2017	1:59:46 PM	462.78			0
2/27/2017	1:56:46 PM	464.61			0
2/27/2017	1:53:46 PM	466.61			0
2/27/2017	1:50:46 PM	468.51			0
2/27/2017	1:47:46 PM	470.71			0
2/27/2017	1:44:46 PM	472.2			0
2/27/2017	1:41:46 PM	474.24			0
2/27/2017	1:38:46 PM	475.61			0
2/27/2017	1:35:46 PM	478.06			0
2/27/2017	1:32:46 PM	480.18			0
2/27/2017	1:29:46 PM	482.07			0
2/27/2017	1:26:46 PM	484.19			0
2/27/2017	1:23:46 PM	487.47			0
2/27/2017	1:20:46 PM	488.58			0
2/27/2017	1:17:46 PM	487.35			0
2/27/2017	1:14:46 PM	471.31			0
2/27/2017	1:11:46 PM	446.01			0
2/27/2017	1:08:46 PM	446.62			0
2/27/2017	1:05:46 PM	414.45	2/27/2017	1:05:46 PM	0
2/27/2017	1:02:46 PM	481.39			1
2/27/2017	12:59:46 PM	470.92			1
2/27/2017	12:56:46 PM	473.07			1
2/27/2017	12:53:46 PM	474.39			1
2/27/2017	12:50:46 PM	475.63			1
2/27/2017	12:47:46 PM	477.1			1
2/27/2017	12:44:46 PM	478.09			1
2/27/2017	12:41:46 PM	479.78			1
2/27/2017	12:38:46 PM	481.29			1
2/27/2017	12:35:46 PM	482.74			1
2/27/2017	12:32:46 PM	484.32			1
2/27/2017	12:29:46 PM	485.48			1
2/27/2017	12:26:46 PM	486.62			1
2/27/2017	12:23:46 PM	488.63			1

ESD-100 Closed	2/27/2017	12:20:46 PM	490.16			1
	2/27/2017	12:17:46 PM	491.74			1
	2/27/2017	12:14:46 PM	493.28			1
	2/27/2017	12:11:46 PM	495.05			1
	2/27/2017	12:08:46 PM	496.46			1
	2/27/2017	12:05:46 PM	498.41			1
	2/27/2017	12:02:46 PM	500.2			1
	2/27/2017	11:59:46 AM	502.03			1
	2/27/2017	11:56:46 AM	503.97			1
	2/27/2017	11:53:46 AM	505.9			1
	2/27/2017	11:50:46 AM	507.97			1
	2/27/2017	11:47:46 AM	510.06			1
	2/27/2017	11:44:46 AM	511.92			1
	2/27/2017	11:41:46 AM	514.26			1
	2/27/2017	11:38:46 AM	516.25			1
	2/27/2017	11:35:46 AM	519.26			1
	2/27/2017	11:32:46 AM	522.02			1
	2/27/2017	11:29:46 AM	522.76			1
	2/27/2017	11:26:46 AM	514.44			1
	2/27/2017	11:23:46 AM	497.21			1
	2/27/2017	11:20:46 AM	478.54			1
	2/27/2017	11:17:46 AM	443.13			1
	2/27/2017	11:14:46 AM	401.64			1
	2/27/2017	11:11:46 AM	348.45			1
	2/27/2017	11:08:46 AM	249.79			1
	2/27/2017	11:05:46 AM	148.92			1
	2/27/2017	11:02:46 AM	88.08			1
	2/27/2017	10:59:46 AM	59.75			1
	2/27/2017	10:56:46 AM	46.37			1
	2/27/2017	10:53:46 AM	40.67			1
	2/27/2017	10:50:46 AM	36.17			1
	2/27/2017	10:47:46 AM	30.92			1
	2/27/2017	10:44:46 AM	27.41			1
	2/27/2017	10:41:46 AM	24.51			1
	2/27/2017	10:38:46 AM	21.37			1
	2/27/2017	10:35:46 AM	17.91			1
	2/27/2017	10:32:46 AM	14.43			1
	2/27/2017	10:29:46 AM	11.86			1
	2/27/2017	10:26:46 AM	9.41			1
	2/27/2017	10:23:46 AM	9.6			1
	2/27/2017	10:20:46 AM	17.82	2/27/2017	10:20:46 AM	1
Normal	2/27/2017	10:17:46 AM	2.09	2/27/2017	4:24:13 AM	0

XTO Eckert

Analysis: Unit was flowing during the event, but since it flows in downstream of the blockage, increased pressures were not experienced.

20170227 Morning S.P.: 440
20170227 Night S.P.: 440
20170310 S.P.: 440

FE-101			PIT-102		
Date	Time	Flowrate (bbl/d)	Date	Time	Pressure (psig)
	MAX:	2030.04		MAX:	78.03
	MIN:	0.00		MIN:	-2.57
	AVG:	1933.90		AVG:	19.01
2/27/2017	6:20:56 PM	2009.895	2/27/2017	6:14:56 PM	68.44
2/27/2017	6:14:56 PM	2011.681	2/27/2017	6:08:56 PM	68.56
2/27/2017	6:08:56 PM	2010.369	2/27/2017	6:02:56 PM	68.51
2/27/2017	6:02:56 PM	2013.515	2/27/2017	5:56:56 PM	68.77
2/27/2017	5:56:56 PM	2011.741	2/27/2017	5:50:56 PM	68.8
2/27/2017	5:50:56 PM	2009.993	2/27/2017	5:44:56 PM	68.77
2/27/2017	5:44:56 PM	2009.982	2/27/2017	5:32:56 PM	68.92
2/27/2017	5:38:56 PM	2010.171	2/27/2017	5:26:56 PM	68.94
2/27/2017	5:32:56 PM	2010.452	2/27/2017	5:20:56 PM	69.11
2/27/2017	5:26:56 PM	2010.365	2/27/2017	5:14:56 PM	69.33
2/27/2017	5:20:56 PM	2010.311	2/27/2017	5:08:56 PM	69.47
2/27/2017	5:14:56 PM	2010.851	2/27/2017	5:02:56 PM	70.67
2/27/2017	5:08:56 PM	2010.184	2/27/2017	4:56:56 PM	73.58
2/27/2017	5:02:56 PM	2006.949	2/27/2017	4:50:56 PM	78.03
2/27/2017	4:56:56 PM	2030.035	2/27/2017	4:44:56 PM	68.46
2/27/2017	4:50:56 PM	2022.569	2/27/2017	4:26:56 PM	68.58
2/27/2017	4:44:56 PM	1984.072	2/27/2017	4:20:56 PM	68.94
2/27/2017	4:38:56 PM	1985.634	2/27/2017	4:14:56 PM	69.81
2/27/2017	4:32:56 PM	1985.597	2/27/2017	4:08:56 PM	-0.38
2/27/2017	4:26:56 PM	1987.65	2/27/2017	4:02:56 PM	-0.36
2/27/2017	4:20:56 PM	1989.248	2/27/2017	3:56:56 PM	-0.34
2/27/2017	4:14:56 PM	1987.872	2/27/2017	3:44:56 PM	-0.36
2/27/2017	5:44:56 AM	0	2/27/2017	3:38:56 PM	-0.38
2/27/2017	5:38:56 AM	1990.694	2/27/2017	3:32:56 PM	-0.36
2/27/2017	5:32:56 AM	1988.536	2/27/2017	3:26:56 PM	-0.38
2/27/2017	5:26:56 AM	1987.426	2/27/2017	3:20:56 PM	-0.43
2/27/2017	5:20:56 AM	1990.071	2/27/2017	3:14:56 PM	-0.48
2/27/2017	5:14:56 AM	1989.805	2/27/2017	3:02:56 PM	-0.5
2/27/2017	5:08:56 AM	1990.51	2/27/2017	2:50:56 PM	-0.53
2/27/2017	5:02:56 AM	1989.928	2/27/2017	2:32:56 PM	-0.55
2/27/2017	4:56:56 AM	1990.643	2/27/2017	2:20:56 PM	-0.6
2/27/2017	4:50:56 AM	1990.157	2/27/2017	2:14:56 PM	-0.62
2/27/2017	4:44:56 AM	1990.816	2/27/2017	2:08:56 PM	-0.67
2/27/2017	4:38:56 AM	1991.085	2/27/2017	2:02:56 PM	-0.72
2/27/2017	4:32:56 AM	1992.08	2/27/2017	1:56:56 PM	-0.75
2/27/2017	4:26:56 AM	1991.995	2/27/2017	1:50:56 PM	-0.84
2/27/2017	4:20:56 AM	1989.162	2/27/2017	1:44:56 PM	-0.94
2/27/2017	4:14:56 AM	1990.818	2/27/2017	1:38:56 PM	-1.03
2/27/2017	4:08:56 AM	1990.402	2/27/2017	1:32:56 PM	-1.18
2/27/2017	4:02:56 AM	1990.073	2/27/2017	1:26:56 PM	-1.39
2/27/2017	3:56:56 AM	1991.762	2/27/2017	1:20:56 PM	-1.71
2/27/2017	3:50:56 AM	1991.146	2/27/2017	1:14:56 PM	-2.07
2/27/2017	3:44:56 AM	1991.601	2/27/2017	1:08:56 PM	-2.55
2/27/2017	3:38:56 AM	1992.2	2/27/2017	12:44:56 PM	0.96

2/27/2017	3:32:56 AM	1990.811	2/27/2017	12:26:56 PM	0.99
2/27/2017	3:26:56 AM	1991.965	2/27/2017	12:20:56 PM	1.01
2/27/2017	3:20:56 AM	1991.073	2/27/2017	12:14:56 PM	0.99
2/27/2017	3:14:56 AM	1991.778	2/27/2017	12:08:56 PM	0.87
2/27/2017	3:08:56 AM	1992.45	2/27/2017	12:02:56 PM	0.62
2/27/2017	3:02:56 AM	1994.115	2/27/2017	11:50:56 AM	0.6
2/27/2017	2:56:56 AM	1996.621	2/27/2017	11:44:56 AM	0.58
2/27/2017	2:50:56 AM	918.462	2/27/2017	11:32:56 AM	0.55
2/26/2017	9:38:56 PM	0	2/27/2017	11:26:56 AM	0.58
2/26/2017	9:32:56 PM	1998.212	2/27/2017	11:20:56 AM	0.29
2/26/2017	9:26:56 PM	1998.846	2/27/2017	11:08:56 AM	0.1
2/26/2017	9:20:56 PM	1999.159	2/27/2017	11:02:56 AM	0.14
2/26/2017	9:14:56 PM	2001.855	2/27/2017	10:56:56 AM	0.1
2/26/2017	9:08:56 PM	1999.269	2/27/2017	10:50:56 AM	-0.1
2/26/2017	9:02:56 PM	2001.48	2/27/2017	10:38:56 AM	-2.21
2/26/2017	8:56:56 PM	1998.609	2/27/2017	10:32:56 AM	-2.19
2/26/2017	8:50:56 PM	1999.39	2/27/2017	10:26:56 AM	-2.26
2/26/2017	8:44:56 PM	1999.738	2/27/2017	10:14:56 AM	-2.28
2/26/2017	8:38:56 PM	2000.605	2/27/2017	10:08:56 AM	-2.24
2/26/2017	8:32:56 PM	1999.719	2/27/2017	10:02:56 AM	-2.21
2/26/2017	8:26:56 PM	1999.248	2/27/2017	9:56:56 AM	-2.19
2/26/2017	8:20:56 PM	1997.575	2/27/2017	9:50:56 AM	-2.16
2/26/2017	8:14:56 PM	1998.145	2/27/2017	9:38:56 AM	-2.14
2/26/2017	8:08:56 PM	1997.365	2/27/2017	9:32:56 AM	-2.09
2/26/2017	8:02:56 PM	1996.214	2/27/2017	9:20:56 AM	-2.16
2/26/2017	7:56:56 PM	1998.418	2/27/2017	9:14:56 AM	-2.14
2/26/2017	7:50:56 PM	1997.599	2/27/2017	9:02:56 AM	-2.09
2/26/2017	7:44:56 PM	1998.326	2/27/2017	8:56:56 AM	-2.04
2/26/2017	7:38:56 PM	2000.851	2/27/2017	8:50:56 AM	-2.02
2/26/2017	7:32:56 PM	2002.314	2/27/2017	8:44:56 AM	-2
2/26/2017	7:26:56 PM	2000.575	2/27/2017	8:32:56 AM	-1.97
2/26/2017	7:20:56 PM	2000.736	2/27/2017	8:26:56 AM	-1.95
2/26/2017	7:14:56 PM	2002.952	2/27/2017	8:20:56 AM	-1.97
2/26/2017	7:08:56 PM	2002.048	2/27/2017	8:14:56 AM	-2.02
2/26/2017	7:02:56 PM	2001.897	2/27/2017	8:02:56 AM	-2
			2/27/2017	7:50:56 AM	-1.97
			2/27/2017	7:44:56 AM	-1.95
			2/27/2017	7:26:56 AM	-1.97
			2/27/2017	7:20:56 AM	-2.02
			2/27/2017	7:14:56 AM	-2.04
			2/27/2017	7:08:56 AM	-2.02
			2/27/2017	6:56:56 AM	-2.04
			2/27/2017	6:50:56 AM	-2.02
			2/27/2017	6:38:56 AM	-2.04
			2/27/2017	6:32:56 AM	-2.02
			2/27/2017	6:26:56 AM	-2.09
			2/27/2017	6:14:56 AM	-2.26
			2/27/2017	6:08:56 AM	-2.28
			2/27/2017	6:02:56 AM	-2.31
			2/27/2017	5:56:56 AM	-2.36
			2/27/2017	5:50:56 AM	-2.48
			2/27/2017	5:44:56 AM	-2.57
			2/27/2017	5:38:56 AM	64.09
			2/27/2017	5:32:56 AM	64.16
			2/27/2017	5:26:56 AM	64.09
			2/27/2017	5:20:56 AM	64.11
			2/27/2017	5:14:56 AM	64.25
			2/27/2017	5:02:56 AM	64.35
			2/27/2017	4:56:56 AM	64.11
			2/27/2017	4:50:56 AM	63.8
			2/27/2017	4:44:56 AM	63.68

2/27/2017	4:38:56 AM	63.63
2/27/2017	4:32:56 AM	63.37
2/27/2017	4:26:56 AM	63.34
2/27/2017	4:20:56 AM	63.56
2/27/2017	4:14:56 AM	63.53
2/27/2017	4:08:56 AM	63.49
2/27/2017	4:02:56 AM	63.44
2/27/2017	3:56:56 AM	63.37
2/27/2017	3:50:56 AM	63.27
2/27/2017	3:44:56 AM	63.29
2/27/2017	3:38:56 AM	63.32
2/27/2017	3:32:56 AM	63.29
2/27/2017	3:26:56 AM	63.34
2/27/2017	3:20:56 AM	63.32
2/27/2017	3:14:56 AM	63.34
2/27/2017	3:08:56 AM	63.29
2/27/2017	3:02:56 AM	63.46
2/27/2017	2:56:56 AM	63.92
2/27/2017	2:50:56 AM	44.47
2/27/2017	2:44:56 AM	-2.24
2/27/2017	2:32:56 AM	-2.21
2/27/2017	2:26:56 AM	-2.16
2/27/2017	2:20:56 AM	-2.14
2/27/2017	2:14:56 AM	-2.16
2/27/2017	2:08:56 AM	-2.14
2/27/2017	2:02:56 AM	-2.12
2/27/2017	1:56:56 AM	-2.09
2/27/2017	1:50:56 AM	-2.12
2/27/2017	1:38:56 AM	-2.07
2/27/2017	1:26:56 AM	-2.04
2/27/2017	1:20:56 AM	-2.07
2/27/2017	1:14:56 AM	-2.02
2/27/2017	1:08:56 AM	-2.04
2/27/2017	12:55:56 AM	-2.07
2/27/2017	12:38:56 AM	-2.04
2/27/2017	12:26:56 AM	-2.02
2/27/2017	12:14:56 AM	-2
2/27/2017	12:02:56 AM	-1.97
2/26/2017	11:56:56 PM	-1.95
2/26/2017	11:50:56 PM	-1.97
2/26/2017	11:38:56 PM	-2
2/26/2017	11:32:56 PM	-1.97
2/26/2017	11:26:56 PM	-1.95
2/26/2017	11:14:56 PM	-1.92
2/26/2017	11:08:56 PM	-1.9
2/26/2017	11:02:56 PM	-1.88

Arnegard

Unit was not flowing during the event. Increased pressures appear to be from a faulty check valves, this has been reported to Operations to inspect and clean (potentially paraffin buildup).

20170227 Morning S.P.: 370
20170227 Night S.P.: 370
20170310 S.P.: 370

FQIT-1000			PT-1100		
Date	Time	Flowrate (bbl/d)	Date	Time	Pressure (psig)
	MAX:	1820.70		MAX:	257.67
	MIN:	0.00		MIN:	5.06
	AVG:	1756.25		AVG:	103.97
2/27/2017	6:56:49 PM	1,813.60	2/27/2017	6:26:48 PM	35.86
2/27/2017	6:50:49 PM	1,767.80	2/27/2017	6:20:48 PM	34.58
2/27/2017	6:44:49 PM	1,817.80	2/27/2017	6:14:48 PM	28.17
2/27/2017	6:38:49 PM	1,820.70	2/27/2017	6:08:48 PM	23.04
2/27/2017	6:32:49 PM	1,816.50	2/27/2017	6:02:48 PM	25.73
2/27/2017	2:56:48 AM	0	2/27/2017	5:56:48 PM	28.78
2/27/2017	2:50:48 AM	1,817.10	2/27/2017	5:50:48 PM	31.69
2/27/2017	2:44:48 AM	1,808.40	2/27/2017	5:44:48 PM	34.42
2/27/2017	2:38:48 AM	1,808.20	2/27/2017	5:38:48 PM	36.47
2/27/2017	2:32:48 AM	1,813.40	2/27/2017	5:32:48 PM	37.24
2/27/2017	2:26:48 AM	1,813.40	2/27/2017	5:26:48 PM	37.11
2/27/2017	2:20:48 AM	1,815.70	2/27/2017	5:20:48 PM	32.11
2/27/2017	2:14:48 AM	1,820.60	2/27/2017	5:14:48 PM	24.42
2/27/2017	2:08:48 AM	1,807.60	2/27/2017	5:08:48 PM	26.31
2/27/2017	2:02:48 AM	1,760.40	2/27/2017	5:02:48 PM	29.26
2/27/2017	1:56:48 AM	1,815.90	2/27/2017	4:56:48 PM	31.63
2/27/2017	1:50:48 AM	1,811.10	2/27/2017	4:50:48 PM	32.14
2/27/2017	1:44:48 AM	1,812.20	2/27/2017	4:44:48 PM	252.74
2/27/2017	1:38:48 AM	1,810.60	2/27/2017	4:38:48 PM	250.85
2/27/2017	1:32:47 AM	1,811.80	2/27/2017	4:32:48 PM	250.21
2/27/2017	1:26:47 AM	1,809.10	2/27/2017	4:26:48 PM	250.75
2/27/2017	1:20:48 AM	1,809.30	2/27/2017	4:20:48 PM	250.65
2/27/2017	1:14:48 AM	1,812.60	2/27/2017	4:14:48 PM	252.16
2/27/2017	1:08:48 AM	1,817.90	2/27/2017	4:08:48 PM	255.81
2/27/2017	1:02:48 AM	1,800.80	2/27/2017	4:02:48 PM	250.59
2/27/2017	12:56:48 AM	1,813.50	2/27/2017	3:56:48 PM	250.98
2/27/2017	12:50:48 AM	1,805.80	2/27/2017	3:50:48 PM	253.19
2/27/2017	12:44:48 AM	1,806.10	2/27/2017	3:44:48 PM	256.81
2/27/2017	12:38:48 AM	1,814.80	2/27/2017	3:38:48 PM	255.65
2/27/2017	12:32:48 AM	1,807.50	2/27/2017	3:32:49 PM	253.96
2/27/2017	12:26:48 AM	1,815.10	2/27/2017	3:26:48 PM	254.28
2/27/2017	12:20:48 AM	1,809.70	2/27/2017	3:20:48 PM	254.56
2/27/2017	12:14:48 AM	1,813.60	2/27/2017	3:14:49 PM	255.27
2/27/2017	12:08:48 AM	1,814.00	2/27/2017	3:08:48 PM	255.78
			2/27/2017	3:02:48 PM	255.75
			2/27/2017	2:56:48 PM	257.03
			2/27/2017	2:50:48 PM	256.1
			2/27/2017	2:44:49 PM	256.81
			2/27/2017	2:38:48 PM	253.8
			2/27/2017	2:32:48 PM	251.3
			2/27/2017	2:26:48 PM	252.51
			2/27/2017	2:20:49 PM	251.74
			2/27/2017	2:14:49 PM	251.84
			2/27/2017	2:08:48 PM	252.1

2/27/2017	2:02:48 PM	254.44
2/27/2017	1:56:48 PM	253.44
2/27/2017	1:50:48 PM	255.94
2/27/2017	1:44:48 PM	256.42
2/27/2017	1:38:48 PM	257.1
2/27/2017	1:32:48 PM	256.78
2/27/2017	1:26:48 PM	256.94
2/27/2017	1:20:48 PM	257.13
2/27/2017	1:14:48 PM	256.87
2/27/2017	1:08:48 PM	256.36
2/27/2017	1:02:48 PM	256.33
2/27/2017	12:56:48 PM	257.45
2/27/2017	12:50:48 PM	253.6
2/27/2017	12:44:48 PM	254.15
2/27/2017	12:38:48 PM	257.38
2/27/2017	12:32:48 PM	256.78
2/27/2017	12:26:48 PM	252.74
2/27/2017	12:20:48 PM	257.03
2/27/2017	12:14:48 PM	256.36
2/27/2017	12:08:48 PM	257.45
2/27/2017	12:02:48 PM	253.89
2/27/2017	11:56:48 AM	255.85
2/27/2017	11:50:48 AM	257.67
2/27/2017	11:44:48 AM	256.9
2/27/2017	11:38:48 AM	257.22
2/27/2017	11:32:48 AM	257.54
2/27/2017	11:26:48 AM	257.58
2/27/2017	11:20:48 AM	257.35
2/27/2017	11:14:48 AM	190.54
2/27/2017	11:08:48 AM	87.55
2/27/2017	11:02:48 AM	46.98
2/27/2017	10:56:48 AM	32.97
2/27/2017	10:50:48 AM	30.47
2/27/2017	10:44:48 AM	31.56
2/27/2017	10:38:48 AM	32.85
2/27/2017	10:32:48 AM	34.45
2/27/2017	10:26:48 AM	36.27
2/27/2017	10:20:49 AM	37.72
2/27/2017	10:14:48 AM	39.16
2/27/2017	10:08:48 AM	40.6
2/27/2017	10:02:48 AM	41.85
2/27/2017	9:56:48 AM	43
2/27/2017	9:50:48 AM	43.77
2/27/2017	9:44:48 AM	44.25
2/27/2017	9:38:48 AM	44.61
2/27/2017	9:32:48 AM	44.89
2/27/2017	9:26:48 AM	45.02
2/27/2017	9:20:48 AM	44.8
2/27/2017	9:14:48 AM	44
2/27/2017	9:08:49 AM	42.27
2/27/2017	9:02:49 AM	39.35
2/27/2017	8:56:48 AM	34.61
2/27/2017	8:50:49 AM	27.33
2/27/2017	8:44:49 AM	27.21
2/27/2017	8:38:49 AM	27.72
2/27/2017	8:32:48 AM	28.36
2/27/2017	8:26:49 AM	29.06
2/27/2017	8:20:48 AM	29.96
2/27/2017	8:14:48 AM	30.83
2/27/2017	8:08:49 AM	31.76
2/27/2017	8:02:49 AM	32.75

2/27/2017	7:56:48 AM	33.58
2/27/2017	7:50:49 AM	34.7
2/27/2017	7:44:47 AM	35.95
2/27/2017	7:38:47 AM	37.2
2/27/2017	7:32:47 AM	38.36
2/27/2017	7:26:47 AM	39.06
2/27/2017	7:20:47 AM	38.29
2/27/2017	7:14:47 AM	34.54
2/27/2017	7:08:47 AM	28.39
2/27/2017	7:02:47 AM	29.83
2/27/2017	6:56:47 AM	32.17
2/27/2017	6:50:47 AM	34.51
2/27/2017	6:44:47 AM	36.92
2/27/2017	6:38:47 AM	39.06
2/27/2017	6:32:47 AM	40.73
2/27/2017	6:26:47 AM	42.49
2/27/2017	6:20:47 AM	43.9
2/27/2017	6:14:47 AM	45.09
2/27/2017	6:08:47 AM	46.11
2/27/2017	6:02:47 AM	46.98
2/27/2017	5:56:47 AM	47.75
2/27/2017	5:50:47 AM	48.36
2/27/2017	5:44:47 AM	48.48
2/27/2017	5:38:47 AM	46.43
2/27/2017	5:32:47 AM	44.99
2/27/2017	5:26:47 AM	45.76
2/27/2017	5:20:47 AM	45.44
2/27/2017	5:14:47 AM	48
2/27/2017	5:08:47 AM	48.39
2/27/2017	5:02:47 AM	48.68
2/27/2017	4:56:47 AM	48.93
2/27/2017	4:50:47 AM	49.12
2/27/2017	4:44:47 AM	49.28
2/27/2017	4:38:47 AM	49.22
2/27/2017	4:32:47 AM	48.93
2/27/2017	4:26:47 AM	47.88
2/27/2017	4:20:47 AM	48.04
2/27/2017	4:14:47 AM	48.1
2/27/2017	4:08:47 AM	48.36
2/27/2017	4:02:47 AM	48.13
2/27/2017	3:56:47 AM	48.36
2/27/2017	3:50:47 AM	47.88
2/27/2017	3:44:47 AM	48.23
2/27/2017	3:38:47 AM	48.42
2/27/2017	3:32:47 AM	48.29
2/27/2017	3:26:47 AM	43.13
2/27/2017	3:20:47 AM	33.62
2/27/2017	3:14:47 AM	24.99
2/27/2017	3:08:47 AM	18.07
2/27/2017	3:02:47 AM	13.01
2/27/2017	2:56:47 AM	8.17
2/27/2017	2:50:47 AM	55.02
2/27/2017	2:44:47 AM	57.01
2/27/2017	2:38:47 AM	57.1
2/27/2017	2:32:47 AM	57.04
2/27/2017	2:26:47 AM	57.23
2/27/2017	2:14:47 AM	57.39
2/27/2017	2:08:47 AM	58.99
2/27/2017	2:02:47 AM	58.61
2/27/2017	1:56:47 AM	59.25
2/27/2017	1:50:47 AM	59.48

2/27/2017	1:44:47 AM	59.86
2/27/2017	1:38:47 AM	60.47
2/27/2017	1:32:47 AM	60.5
2/27/2017	1:26:47 AM	60.44
2/27/2017	1:20:47 AM	60.21
2/27/2017	1:14:48 AM	59.76
2/27/2017	1:08:47 AM	59.19
2/27/2017	1:02:47 AM	58.9
2/27/2017	12:56:47 AM	58.19
2/27/2017	12:50:47 AM	55.15
2/27/2017	12:44:47 AM	56.53
2/27/2017	12:38:47 AM	55.63
2/27/2017	12:32:47 AM	54.86
2/27/2017	12:26:47 AM	54.8
2/27/2017	12:20:47 AM	55.09
2/27/2017	12:14:47 AM	55.31
2/27/2017	12:08:47 AM	54.41
2/26/2017	11:50:48 PM	5.29
2/26/2017	11:38:47 PM	5.22
2/26/2017	11:26:47 PM	5.19
2/26/2017	11:14:47 PM	5.13
2/26/2017	11:08:47 PM	5.1
2/26/2017	11:02:47 PM	5.06

BDB

Analysis: Unit was not flowing during the event. Increased pressures appear to be from faulty check valves, this has been reported to Operations to inspect and clean (potentially paraffin buildup). PAHH was identified as being incorrect and was changed to 125 as a result of the temporary set point changes.

20170227 Morning S.P.: 390
20170227 Night S.P.: 390
20170310 S.P.: 125
PT-110

FT-100			PT-110		
Date	Time	Flowrate (bbl/d)	Date	Time	Pressure (psig)
	MAX:	0.00		MAX:	380.36
	MIN:	0.00		MIN:	31.75
	AVG:	0.00		AVG:	108.74
2/27/2017	1:38:59 AM	0	2/27/2017	6:32:48 PM	40.33
2/27/2017	1:38:55 AM	0	2/27/2017	6:20:48 PM	34.78
2/27/2017	1:38:52 AM	0	2/27/2017	6:14:48 PM	34.82
2/27/2017	1:38:48 AM	0	2/27/2017	6:08:48 PM	34.8
2/27/2017	1:38:44 AM	0	2/27/2017	6:02:48 PM	34.44
2/27/2017	1:38:41 AM	0	2/27/2017	5:56:48 PM	33.77
2/27/2017	1:38:04 AM	0	2/27/2017	5:44:48 PM	33.43
2/27/2017	1:37:21 AM	0	2/27/2017	5:38:48 PM	33.65
2/27/2017	1:37:18 AM	0	2/27/2017	5:32:48 PM	33.77
2/27/2017	1:37:14 AM	0	2/27/2017	5:26:48 PM	33.72
2/27/2017	1:36:50 AM	0	2/27/2017	5:20:48 PM	33.53
			2/27/2017	5:14:48 PM	33.33
			2/27/2017	5:08:48 PM	32.78
			2/27/2017	5:02:48 PM	32.73
			2/27/2017	4:56:48 PM	32.88
			2/27/2017	4:50:48 PM	31.75
			2/27/2017	4:44:48 PM	294.51
			2/27/2017	4:38:48 PM	293.57
			2/27/2017	4:32:48 PM	290.69
			2/27/2017	4:26:48 PM	286.14
			2/27/2017	4:20:48 PM	281.22
			2/27/2017	4:14:48 PM	276.6
			2/27/2017	4:08:48 PM	275.52
			2/27/2017	4:02:49 PM	276.84
			2/27/2017	3:56:48 PM	267.16
			2/27/2017	3:50:48 PM	257.83
			2/27/2017	3:44:48 PM	249.97
			2/27/2017	3:38:48 PM	244.04
			2/27/2017	3:32:48 PM	240.14
			2/27/2017	3:26:48 PM	238.49
			2/27/2017	3:20:48 PM	239.11
			2/27/2017	3:14:48 PM	239.64
			2/27/2017	3:08:48 PM	238.99
			2/27/2017	3:02:48 PM	238.7
			2/27/2017	2:56:48 PM	239.25
			2/27/2017	2:50:48 PM	241.01
			2/27/2017	2:44:48 PM	244.25
			2/27/2017	2:38:48 PM	247.74
			2/27/2017	2:32:48 PM	249.49
			2/27/2017	2:26:48 PM	247.98
			2/27/2017	2:20:48 PM	243.29
			2/27/2017	2:14:48 PM	238.7
			2/27/2017	2:08:48 PM	234.93
			2/27/2017	2:02:48 PM	232.17

2/27/2017	1:56:48 PM	230.99
2/27/2017	1:50:48 PM	229.74
2/27/2017	1:44:48 PM	226.57
2/27/2017	1:38:48 PM	221.11
2/27/2017	1:32:48 PM	214.57
2/27/2017	1:26:48 PM	208.44
2/27/2017	1:20:48 PM	203.13
2/27/2017	1:14:48 PM	196.86
2/27/2017	1:08:48 PM	189.84
2/27/2017	1:02:48 PM	362.26
2/27/2017	12:56:48 PM	359.18
2/27/2017	12:50:48 PM	361.47
2/27/2017	12:44:48 PM	363.58
2/27/2017	12:38:48 PM	365.74
2/27/2017	12:32:48 PM	367.93
2/27/2017	12:26:48 PM	370.21
2/27/2017	12:20:48 PM	372.55
2/27/2017	12:14:48 PM	375.21
2/27/2017	12:08:48 PM	378.07
2/27/2017	12:02:48 PM	380.36
2/27/2017	11:56:48 AM	345.08
2/27/2017	11:50:49 AM	326.45
2/27/2017	11:44:49 AM	311.12
2/27/2017	11:38:49 AM	296.89
2/27/2017	11:32:49 AM	285.21
2/27/2017	11:26:49 AM	280.33
2/27/2017	11:20:48 AM	270.93
2/27/2017	11:14:48 AM	245.29
2/27/2017	11:08:48 AM	179.39
2/27/2017	11:02:48 AM	79.55
2/27/2017	10:56:48 AM	51.07
2/27/2017	10:50:48 AM	44.25
2/27/2017	10:44:48 AM	42.25
2/27/2017	10:32:49 AM	41.72
2/27/2017	10:26:49 AM	41.79
2/27/2017	10:20:48 AM	41.87
2/27/2017	10:14:48 AM	41.96
2/27/2017	10:08:48 AM	41.94
2/27/2017	10:02:48 AM	41.82
2/27/2017	9:56:48 AM	41.48
2/27/2017	9:50:49 AM	41.24
2/27/2017	9:44:49 AM	41.07
2/27/2017	9:38:49 AM	40.83
2/27/2017	9:32:49 AM	40.81
2/27/2017	9:26:49 AM	40.98
2/27/2017	9:20:48 AM	41.19
2/27/2017	9:14:48 AM	41.27
2/27/2017	9:08:48 AM	41.34
2/27/2017	9:02:48 AM	41.31
2/27/2017	8:56:48 AM	41.1
2/27/2017	8:50:48 AM	40.91
2/27/2017	8:44:48 AM	40.81
2/27/2017	8:38:49 AM	41.12
2/27/2017	8:32:48 AM	41.36
2/27/2017	8:26:49 AM	41.43
2/27/2017	8:20:48 AM	41.51
2/27/2017	8:14:48 AM	41.58
2/27/2017	8:08:49 AM	42.11
2/27/2017	8:02:48 AM	42.4
2/27/2017	7:56:48 AM	42.52
2/27/2017	7:50:49 AM	42.56

2/27/2017	7:44:48 AM	42.61
2/27/2017	7:38:48 AM	42.49
2/27/2017	7:32:48 AM	42.32
2/27/2017	7:26:48 AM	41.51
2/27/2017	7:20:48 AM	43.79
2/27/2017	7:14:48 AM	43.65
2/27/2017	7:08:48 AM	43.55
2/27/2017	7:02:48 AM	43.43
2/27/2017	6:56:48 AM	43.5
2/27/2017	6:50:48 AM	43.57
2/27/2017	6:44:48 AM	43.43
2/27/2017	6:38:48 AM	43.12
2/27/2017	6:32:48 AM	42.78
2/27/2017	6:26:48 AM	41.84
2/27/2017	6:20:48 AM	41.6
2/27/2017	6:14:48 AM	41.46
2/27/2017	6:08:48 AM	41.43
2/27/2017	6:02:48 AM	41.46
2/27/2017	5:56:48 AM	41.58
2/27/2017	5:50:48 AM	41.99
2/27/2017	5:44:48 AM	42.37
2/27/2017	5:38:48 AM	42.44
2/27/2017	5:32:48 AM	42.35
2/27/2017	5:26:48 AM	42.11
2/27/2017	5:20:48 AM	41.99
2/27/2017	5:14:48 AM	42.66
2/27/2017	5:08:48 AM	42.64
2/27/2017	5:02:48 AM	42.56
2/27/2017	4:56:48 AM	42.73
2/27/2017	4:50:48 AM	43
2/27/2017	4:44:48 AM	43.12
2/27/2017	4:38:48 AM	43.04
2/27/2017	4:32:48 AM	42.78
2/27/2017	4:26:48 AM	41.96
2/27/2017	4:20:48 AM	42.03
2/27/2017	4:14:48 AM	42.08
2/27/2017	4:08:48 AM	42.11
2/27/2017	4:02:48 AM	41.96
2/27/2017	3:56:48 AM	42.18
2/27/2017	3:50:48 AM	41.96
2/27/2017	3:44:48 AM	41.99
2/27/2017	3:38:48 AM	42.06
2/27/2017	3:32:48 AM	42.08
2/27/2017	3:26:48 AM	42.3
2/27/2017	3:20:48 AM	42.44
2/27/2017	3:14:48 AM	42.71
2/27/2017	3:08:48 AM	43.07
2/27/2017	3:02:48 AM	42.8
2/27/2017	2:56:48 AM	43.07
2/27/2017	2:50:48 AM	46.99
2/27/2017	2:44:48 AM	48.16
2/27/2017	2:32:48 AM	48.72
2/27/2017	2:26:48 AM	48.36
2/27/2017	2:20:48 AM	48
2/27/2017	2:14:48 AM	48.45
2/27/2017	2:08:48 AM	49.82
2/27/2017	2:02:48 AM	49.77
2/27/2017	1:56:48 AM	49.89
2/27/2017	1:50:48 AM	49.94
2/27/2017	1:44:48 AM	50.06
2/27/2017	1:38:57 AM	50.81

2/27/2017	1:38:53 AM	50.81
2/27/2017	1:38:50 AM	50.81
2/27/2017	1:38:46 AM	50.81
2/27/2017	1:38:42 AM	50.81
2/27/2017	1:38:39 AM	50.81
2/27/2017	1:38:02 AM	50.83
2/27/2017	1:37:19 AM	50.88
2/27/2017	1:37:16 AM	50.88
2/27/2017	1:37:12 AM	50.88
2/27/2017	1:36:48 AM	50.88
2/27/2017	1:32:47 AM	50.98
2/27/2017	1:26:47 AM	51.1
2/27/2017	1:20:47 AM	51.02
2/27/2017	1:14:47 AM	50.66
2/27/2017	1:08:47 AM	50.09
2/27/2017	1:02:47 AM	49.61
2/27/2017	12:56:47 AM	49.08
2/27/2017	12:50:47 AM	47.25
2/27/2017	12:44:47 AM	48.12
2/27/2017	12:38:47 AM	47.44
2/27/2017	12:32:47 AM	46.89
2/27/2017	12:26:47 AM	46.91
2/27/2017	12:20:47 AM	46.96
2/27/2017	12:14:47 AM	47.03
2/27/2017	12:08:47 AM	46.41
2/27/2017	12:02:47 AM	42.78
2/26/2017	11:56:47 PM	42.95
2/26/2017	11:50:47 PM	42.4
2/26/2017	11:44:47 PM	42.37
2/26/2017	11:38:47 PM	42.3
2/26/2017	11:32:47 PM	42.25
2/26/2017	11:26:47 PM	42.23
2/26/2017	11:20:47 PM	42.2
2/26/2017	11:14:47 PM	42.32
2/26/2017	11:08:47 PM	42.37
2/26/2017	11:02:47 PM	42.35

Bayer

Analysis: Unit was not flowing during the event and did not display any AOCs.

20170227 Morning S.P.: 330
20170227 Night S.P.: 330
20170310 S.P.: 330

FE-1100			PIT-1603B		
Date	Time	Flowrate (bbl/d)	Date	Time	Pressure (psig)
	MAX:	0.00		MAX:	7.46
	MIN:	0.00		MIN:	3.68
	AVG:	0.00		AVG:	6.58
2/27/2017	11:51:06 PM	0	2/27/2017	6:26:46 PM	5.4
2/27/2017	2:56:45 PM	0	2/27/2017	6:20:46 PM	5.51
			2/27/2017	6:14:46 PM	5.48
			2/27/2017	6:02:46 PM	5.4
			2/27/2017	5:50:46 PM	5.48
			2/27/2017	5:44:46 PM	5.4
			2/27/2017	5:38:46 PM	5.36
			2/27/2017	5:32:46 PM	5.4
			2/27/2017	5:26:46 PM	5.44
			2/27/2017	5:20:46 PM	5.33
			2/27/2017	5:14:46 PM	5.1
			2/27/2017	5:08:46 PM	4.99
			2/27/2017	5:02:46 PM	4.84
			2/27/2017	4:56:46 PM	4.46
			2/27/2017	4:50:46 PM	3.68
			2/27/2017	4:44:46 PM	7.01
			2/27/2017	4:38:46 PM	7.13
			2/27/2017	4:26:46 PM	7.09
			2/27/2017	4:20:46 PM	7.2
			2/27/2017	4:14:46 PM	7.35
			2/27/2017	4:02:46 PM	7.28
			2/27/2017	3:56:46 PM	7.39
			2/27/2017	3:50:46 PM	7.46
			2/27/2017	3:44:46 PM	7.35
			2/27/2017	3:38:46 PM	7.28
			2/27/2017	3:32:46 PM	7.31
			2/27/2017	3:26:46 PM	7.43
			2/27/2017	3:20:46 PM	7.39
			2/27/2017	3:14:46 PM	7.28
			2/27/2017	3:08:46 PM	7.24
			2/27/2017	3:02:46 PM	7.28
			2/27/2017	2:56:46 PM	7.31
			2/27/2017	2:50:46 PM	7.28
			2/27/2017	2:44:46 PM	7.2
			2/27/2017	2:38:46 PM	7.16
			2/27/2017	2:26:46 PM	7.24
			2/27/2017	2:20:46 PM	7.13
			2/27/2017	2:14:46 PM	7.09
			2/27/2017	2:08:46 PM	7.13
			2/27/2017	2:02:46 PM	7.16
			2/27/2017	1:56:46 PM	7.09
			2/27/2017	1:50:46 PM	7.01
			2/27/2017	1:44:46 PM	7.09
			2/27/2017	1:38:46 PM	7.16

2/27/2017	1:32:46 PM	7.13
2/27/2017	1:26:46 PM	7.05
2/27/2017	1:20:46 PM	7.01
2/27/2017	1:08:46 PM	7.13
2/27/2017	1:02:46 PM	7.09

Bayer

Analysis: Unit was not flowing during the event and did not display any AOCs.

20170227 Morning S.P.: 330
20170227 Night S.P.: 330
20170310 S.P.: 330

FE-1100			PIT-1603B		
Date	Time	Flowrate (bbl/d)	Date	Time	Pressure (psig)
	MAX:	0.00		MAX:	7.46
	MIN:	0.00		MIN:	3.68
	AVG:	0.00		AVG:	6.58
2/27/2017	11:51:06 PM	0	2/27/2017	6:26:46 PM	5.4
2/27/2017	2:56:45 PM	0	2/27/2017	6:20:46 PM	5.51
			2/27/2017	6:14:46 PM	5.48
			2/27/2017	6:02:46 PM	5.4
			2/27/2017	5:50:46 PM	5.48
			2/27/2017	5:44:46 PM	5.4
			2/27/2017	5:38:46 PM	5.36
			2/27/2017	5:32:46 PM	5.4
			2/27/2017	5:26:46 PM	5.44
			2/27/2017	5:20:46 PM	5.33
			2/27/2017	5:14:46 PM	5.1
			2/27/2017	5:08:46 PM	4.99
			2/27/2017	5:02:46 PM	4.84
			2/27/2017	4:56:46 PM	4.46
			2/27/2017	4:50:46 PM	3.68
			2/27/2017	4:44:46 PM	7.01
			2/27/2017	4:38:46 PM	7.13
			2/27/2017	4:26:46 PM	7.09
			2/27/2017	4:20:46 PM	7.2
			2/27/2017	4:14:46 PM	7.35
			2/27/2017	4:02:46 PM	7.28
			2/27/2017	3:56:46 PM	7.39
			2/27/2017	3:50:46 PM	7.46
			2/27/2017	3:44:46 PM	7.35
			2/27/2017	3:38:46 PM	7.28
			2/27/2017	3:32:46 PM	7.31
			2/27/2017	3:26:46 PM	7.43
			2/27/2017	3:20:46 PM	7.39
			2/27/2017	3:14:46 PM	7.28
			2/27/2017	3:08:46 PM	7.24
			2/27/2017	3:02:46 PM	7.28
			2/27/2017	2:56:46 PM	7.31
			2/27/2017	2:50:46 PM	7.28
			2/27/2017	2:44:46 PM	7.2
			2/27/2017	2:38:46 PM	7.16
			2/27/2017	2:26:46 PM	7.24
			2/27/2017	2:20:46 PM	7.13
			2/27/2017	2:14:46 PM	7.09
			2/27/2017	2:08:46 PM	7.13
			2/27/2017	2:02:46 PM	7.16
			2/27/2017	1:56:46 PM	7.09
			2/27/2017	1:50:46 PM	7.01
			2/27/2017	1:44:46 PM	7.09
			2/27/2017	1:38:46 PM	7.16

2/27/2017	1:32:46 PM	7.13
2/27/2017	1:26:46 PM	7.05
2/27/2017	1:20:46 PM	7.01
2/27/2017	1:08:46 PM	7.13
2/27/2017	1:02:46 PM	7.09

Betty

Analysis: Unit was not flowing during the event and did not display any AOCs.

20170227 Morning S.P.: 385
 20170227 Night S.P.: 385
 20170310 S.P.: 385
 PT-1100

FQIT-1000			PT-1100		
Date	Time	Flowrate (bbl/d)	Date	Time	Pressure (psig)
	MAX:	1440.60		MAX:	75.91
	MIN:	-19.80		MIN:	5.90
	AVG:	1009.57		AVG:	15.48
2/27/2017	6:38:48 PM	1,424.90	2/27/2017	6:38:49 PM	75.91
2/27/2017	6:32:48 PM	1,426.20	2/27/2017	6:32:48 PM	75.75
2/27/2017	6:26:48 PM	1,393.20	2/27/2017	6:26:49 PM	74.73
2/27/2017	6:20:48 PM	1,383.60	2/27/2017	6:20:48 PM	74.6
2/27/2017	6:14:48 PM	1,431.20	2/27/2017	6:14:48 PM	74.79
2/27/2017	6:08:48 PM	1,420.80	2/27/2017	6:08:48 PM	74.86
2/27/2017	6:02:48 PM	1,426.80	2/27/2017	6:02:48 PM	74.57
2/27/2017	5:56:48 PM	1,392.70	2/27/2017	5:56:48 PM	74.31
2/27/2017	5:50:48 PM	1,440.60	2/27/2017	5:50:48 PM	74.25
2/27/2017	5:44:48 PM	1,420.90	2/27/2017	5:44:49 PM	74.47
2/27/2017	5:38:48 PM	1,413.70	2/27/2017	5:38:49 PM	74.41
2/27/2017	5:32:48 PM	1,405.10	2/27/2017	5:32:48 PM	74.18
2/27/2017	5:26:48 PM	1,412.00	2/27/2017	5:26:48 PM	73.96
2/27/2017	5:20:48 PM	1,432.30	2/27/2017	5:20:48 PM	73.77
2/27/2017	5:14:48 PM	1,358.50	2/27/2017	5:14:48 PM	72.45
2/27/2017	3:56:48 PM	0	2/27/2017	5:08:48 PM	42.94
2/27/2017	3:50:48 PM	18.8	2/27/2017	5:02:49 PM	42.81
2/27/2017	1:20:48 PM	0	2/27/2017	4:56:49 PM	42.52
2/27/2017	1:14:48 PM	19.4	2/27/2017	4:50:48 PM	42.01
2/27/2017	1:08:48 PM	-19.8	2/27/2017	4:44:49 PM	41.37
2/27/2017	9:08:48 AM	0	2/27/2017	4:38:50 PM	42.01
			2/27/2017	4:32:49 PM	42.88
			2/27/2017	4:26:49 PM	44
			2/27/2017	4:20:49 PM	45.73
			2/27/2017	4:14:49 PM	49
			2/27/2017	3:50:49 PM	6.28
			2/27/2017	3:44:48 PM	6.15
			2/27/2017	3:38:48 PM	6.09
			2/27/2017	3:32:48 PM	6.12
			2/27/2017	3:26:49 PM	6.15
			2/27/2017	3:20:49 PM	6.18
			2/27/2017	3:08:49 PM	6.22
			2/27/2017	2:38:49 PM	6.28
			2/27/2017	2:32:49 PM	6.22
			2/27/2017	2:26:49 PM	6.09
			2/27/2017	2:20:49 PM	6.12
			2/27/2017	2:14:48 PM	6.18
			2/27/2017	2:02:49 PM	6.22
			2/27/2017	1:44:49 PM	6.28
			2/27/2017	1:32:49 PM	6.34
			2/27/2017	1:14:48 PM	6.22
			2/27/2017	1:08:48 PM	6.25
			2/27/2017	1:02:49 PM	6.28
			2/27/2017	12:56:48 PM	6.25

2/27/2017	12:44:49 PM	6.12
2/27/2017	12:38:48 PM	6.15
2/27/2017	12:26:48 PM	6.22
2/27/2017	12:20:49 PM	6.25
2/27/2017	12:14:49 PM	6.28
2/27/2017	12:02:48 PM	6.31
2/27/2017	11:56:49 AM	6.15
2/27/2017	11:44:48 AM	5.99
2/27/2017	11:32:48 AM	6.12
2/27/2017	11:14:48 AM	6.22
2/27/2017	11:08:49 AM	6.28
2/27/2017	11:02:49 AM	6.15
2/27/2017	10:56:49 AM	5.99
2/27/2017	10:50:49 AM	6.06
2/27/2017	10:44:49 AM	6.12
2/27/2017	10:38:49 AM	6.15
2/27/2017	10:26:49 AM	6.22
2/27/2017	10:20:49 AM	6.28
2/27/2017	10:14:49 AM	6.22
2/27/2017	10:02:48 AM	6.06
2/27/2017	9:50:49 AM	6.12
2/27/2017	9:44:49 AM	6.15
2/27/2017	9:38:49 AM	6.22
2/27/2017	9:32:48 AM	6.25
2/27/2017	9:26:49 AM	6.15
2/27/2017	9:14:49 AM	6.06
2/27/2017	9:08:49 AM	6.09
2/27/2017	9:02:49 AM	6.12
2/27/2017	8:50:48 AM	6.22
2/27/2017	8:44:48 AM	6.28
2/27/2017	8:38:49 AM	6.22
2/27/2017	8:32:49 AM	6.06
2/27/2017	8:26:49 AM	6.09
2/27/2017	8:20:49 AM	6.15
2/27/2017	8:14:49 AM	6.22
2/27/2017	8:08:49 AM	6.15
2/27/2017	8:02:49 AM	6.06
2/27/2017	7:56:49 AM	6.12
2/27/2017	7:50:49 AM	6.15
2/27/2017	7:44:48 AM	6.22
2/27/2017	7:38:48 AM	6.25
2/27/2017	7:32:48 AM	6.12
2/27/2017	7:26:48 AM	6.02
2/27/2017	7:20:48 AM	6.06
2/27/2017	7:14:48 AM	6.12
2/27/2017	7:08:48 AM	6.22
2/27/2017	7:02:48 AM	6.28
2/27/2017	6:56:48 AM	6.22
2/27/2017	6:50:48 AM	6.06
2/27/2017	6:44:48 AM	6.02
2/27/2017	6:38:48 AM	6.12
2/27/2017	6:32:48 AM	6.15
2/27/2017	6:26:48 AM	6.22
2/27/2017	6:14:48 AM	6.28
2/27/2017	6:08:48 AM	6.12
2/27/2017	5:56:48 AM	6.06
2/27/2017	5:50:48 AM	6.12
2/27/2017	5:44:48 AM	6.22
2/27/2017	5:38:48 AM	6.28
2/27/2017	5:32:48 AM	6.22
2/27/2017	5:26:48 AM	6.06

2/27/2017	5:20:48 AM	6.12
2/27/2017	5:14:48 AM	6.15
2/27/2017	5:02:48 AM	6.28
2/27/2017	4:56:48 AM	6.31
2/27/2017	4:50:48 AM	6.22
2/27/2017	4:44:48 AM	6.06
2/27/2017	4:38:48 AM	6.12
2/27/2017	4:32:48 AM	6.22
2/27/2017	4:26:48 AM	6.28
2/27/2017	4:14:48 AM	6.34
2/27/2017	4:08:48 AM	6.38
2/27/2017	4:02:48 AM	6.22
2/27/2017	3:50:48 AM	6.12
2/27/2017	3:44:48 AM	6.22
2/27/2017	3:38:48 AM	6.28
2/27/2017	3:20:48 AM	6.34
2/27/2017	3:14:48 AM	6.28
2/27/2017	3:08:48 AM	6.12
2/27/2017	3:02:48 AM	6.18
2/27/2017	2:50:48 AM	6.22
2/27/2017	2:38:48 AM	6.28
2/27/2017	2:26:48 AM	6.12
2/27/2017	2:20:48 AM	6.15
2/27/2017	2:02:48 AM	6.22
2/27/2017	1:56:48 AM	6.28
2/27/2017	1:44:48 AM	6.22
2/27/2017	1:38:48 AM	6.02
2/27/2017	1:32:48 AM	5.99
2/27/2017	1:20:48 AM	6.02
2/27/2017	1:14:48 AM	6.09
2/27/2017	12:56:48 AM	6.12
2/27/2017	12:50:48 AM	6.09
2/27/2017	12:38:48 AM	5.96
2/27/2017	12:32:48 AM	5.99
2/27/2017	12:26:48 AM	6.06
2/27/2017	12:20:48 AM	6.09
2/27/2017	12:14:48 AM	6.06
2/27/2017	12:02:48 AM	6.12
2/26/2017	11:56:48 PM	6.06
2/26/2017	11:44:48 PM	5.9
2/26/2017	11:38:48 PM	5.96
2/26/2017	11:26:48 PM	6.02
2/26/2017	11:20:48 PM	6.09
2/26/2017	11:14:48 PM	6.06
2/26/2017	11:08:48 PM	6.02

Big Sky

Analysis: Unit was not flowing during the event and did not display any AOCs.

20170227 Morning S.P.: 285

20170227 Night S.P.: 285

20170310 S.P.: 285

FT-100			PT-110		
Date	Time	Flowrate (bbl/d)	Date	Time	Pressure (psig)
	MAX:	1420.80		MAX:	51.98
	MIN:	0.00		MIN:	4.04
	AVG:	1260.46		AVG:	15.61
2/27/2017	7:26:49 AM	0	2/27/2017	6:44:49 PM	10.45
2/27/2017	7:20:49 AM	1,384.30	2/27/2017	6:32:49 PM	10.41
2/27/2017	7:14:49 AM	1,407.20	2/27/2017	6:26:49 PM	10.38
2/27/2017	7:08:49 AM	1,406.40	2/27/2017	6:20:49 PM	10.51
2/27/2017	7:02:49 AM	1,408.70	2/27/2017	6:08:49 PM	10.48
2/27/2017	6:56:49 AM	1,403.00	2/27/2017	6:02:50 PM	10.35
2/27/2017	6:50:49 AM	1,400.70	2/27/2017	5:56:49 PM	10.22
2/27/2017	6:44:49 AM	1,395.40	2/27/2017	5:50:49 PM	10.25
2/27/2017	6:38:49 AM	1,410.70	2/27/2017	5:44:49 PM	10.35
2/27/2017	6:32:49 AM	1,395.40	2/27/2017	5:38:49 PM	10.48
2/27/2017	1:44:50 AM	0	2/27/2017	5:32:49 PM	10.64
2/27/2017	1:38:49 AM	1,400.60	2/27/2017	5:26:49 PM	10.67
2/27/2017	1:32:49 AM	1,388.80	2/27/2017	5:20:49 PM	10.64
2/27/2017	1:26:49 AM	1,399.10	2/27/2017	5:14:49 PM	10.48
2/27/2017	1:20:50 AM	1,411.20	2/27/2017	5:08:49 PM	10.45
2/27/2017	1:14:49 AM	1,398.40	2/27/2017	5:02:49 PM	10.48
2/27/2017	1:08:49 AM	1,402.10	2/27/2017	4:56:49 PM	10.51
2/27/2017	1:02:49 AM	1,383.20	2/27/2017	4:50:49 PM	10.57
2/27/2017	12:56:49 AM	1,393.10	2/27/2017	4:44:50 PM	10.61
2/27/2017	12:50:50 AM	1,420.80	2/27/2017	4:38:50 PM	10.77
			2/27/2017	4:32:50 PM	10.54
			2/27/2017	4:26:49 PM	10.41
			2/27/2017	4:20:50 PM	10.35
			2/27/2017	4:14:49 PM	10.38
			2/27/2017	4:08:49 PM	10.41
			2/27/2017	4:02:49 PM	10.7
			2/27/2017	3:56:49 PM	10.83
			2/27/2017	3:50:49 PM	10.99
			2/27/2017	3:44:49 PM	11.02
			2/27/2017	3:38:49 PM	10.86
			2/27/2017	3:32:49 PM	10.74
			2/27/2017	3:26:49 PM	10.67
			2/27/2017	3:20:49 PM	10.77
			2/27/2017	3:14:49 PM	10.93
			2/27/2017	3:08:49 PM	11.31
			2/27/2017	3:02:49 PM	11.57
			2/27/2017	2:50:49 PM	11.79
			2/27/2017	2:44:49 PM	11.57
			2/27/2017	2:26:50 PM	11.47
			2/27/2017	2:20:49 PM	11.66
			2/27/2017	2:14:49 PM	11.98
			2/27/2017	2:08:49 PM	12.34
			2/27/2017	1:56:49 PM	12.47
			2/27/2017	1:50:49 PM	12.4

2/27/2017	1:44:49 PM	12.31
2/27/2017	1:38:49 PM	12.43
2/27/2017	1:32:49 PM	12.72
2/27/2017	1:26:49 PM	13.04
2/27/2017	1:14:49 PM	13.27
2/27/2017	1:08:49 PM	13.11
2/27/2017	1:02:49 PM	12.91
2/27/2017	12:56:49 PM	12.85
2/27/2017	12:50:50 PM	13.01
2/27/2017	12:44:49 PM	13.36
2/27/2017	12:38:50 PM	13.72
2/27/2017	12:32:50 PM	13.97
2/27/2017	12:26:49 PM	14.07
2/27/2017	12:20:49 PM	14
2/27/2017	12:14:49 PM	14.1
2/27/2017	12:08:49 PM	14.29
2/27/2017	12:02:49 PM	14.64
2/27/2017	11:56:49 AM	15.64
2/27/2017	11:50:49 AM	10.19
2/27/2017	11:44:50 AM	10.35
2/27/2017	11:38:49 AM	10.29
2/27/2017	11:32:49 AM	10.09
2/27/2017	11:26:49 AM	10
2/27/2017	11:20:49 AM	9.97
2/27/2017	11:14:50 AM	9.93
2/27/2017	11:08:50 AM	10.13
2/27/2017	11:02:50 AM	10.38
2/27/2017	10:56:49 AM	10.7
2/27/2017	10:50:49 AM	10.8
2/27/2017	10:44:49 AM	10.7
2/27/2017	10:38:49 AM	10.54
2/27/2017	10:32:50 AM	10.38
2/27/2017	10:26:50 AM	10.41
2/27/2017	10:20:50 AM	10.64
2/27/2017	10:14:50 AM	11.06
2/27/2017	10:08:49 AM	11.47
2/27/2017	9:56:50 AM	11.57
2/27/2017	9:50:50 AM	11.6
2/27/2017	9:44:50 AM	11.7
2/27/2017	9:38:49 AM	11.86
2/27/2017	9:32:50 AM	12.18
2/27/2017	9:26:50 AM	12.69
2/27/2017	9:20:49 AM	13.11
2/27/2017	9:08:50 AM	13.33
2/27/2017	9:02:50 AM	13.3
2/27/2017	8:56:50 AM	13.27
2/27/2017	8:50:50 AM	13.36
2/27/2017	8:44:50 AM	13.49
2/27/2017	8:38:50 AM	13.75
2/27/2017	8:32:50 AM	13.94
2/27/2017	8:26:50 AM	13.81
2/27/2017	8:20:49 AM	13.2
2/27/2017	8:14:50 AM	12.43
2/27/2017	8:08:50 AM	11.47
2/27/2017	8:02:50 AM	10.51
2/27/2017	7:56:49 AM	9.65
2/27/2017	7:50:49 AM	8.91
2/27/2017	7:44:49 AM	8.04
2/27/2017	7:38:49 AM	7.11
2/27/2017	7:32:49 AM	6.15
2/27/2017	7:26:49 AM	4.04

2/27/2017	7:20:50 AM	49.09
2/27/2017	7:14:50 AM	48.93
2/27/2017	7:08:49 AM	48.84
2/27/2017	7:02:49 AM	48.45
2/27/2017	6:56:49 AM	48.26
2/27/2017	6:50:50 AM	48.07
2/27/2017	6:44:49 AM	47.88
2/27/2017	6:38:50 AM	47.59
2/27/2017	6:32:50 AM	47.01
2/27/2017	6:26:50 AM	10.16
2/27/2017	6:20:49 AM	10
2/27/2017	6:08:50 AM	9.81
2/27/2017	6:02:49 AM	9.97
2/27/2017	5:56:49 AM	10.32
2/27/2017	5:50:49 AM	10.77
2/27/2017	5:44:50 AM	11.09
2/27/2017	5:38:50 AM	11.41
2/27/2017	5:26:50 AM	11.54
2/27/2017	5:20:50 AM	11.57
2/27/2017	5:14:50 AM	11.73
2/27/2017	5:08:50 AM	12.02
2/27/2017	5:02:49 AM	12.31
2/27/2017	4:56:50 AM	12.56
2/27/2017	4:50:50 AM	12.66
2/27/2017	4:44:49 AM	12.72
2/27/2017	4:38:50 AM	12.82
2/27/2017	4:32:50 AM	13.04
2/27/2017	4:26:50 AM	13.3
2/27/2017	4:20:50 AM	13.68
2/27/2017	4:14:50 AM	14
2/27/2017	4:08:49 AM	14.29
2/27/2017	4:02:49 AM	14.45
2/27/2017	3:56:49 AM	14.61
2/27/2017	3:50:49 AM	14.9
2/27/2017	3:44:49 AM	15.32
2/27/2017	3:38:49 AM	16.02
2/27/2017	3:32:50 AM	16.73
2/27/2017	3:26:50 AM	17.27
2/27/2017	3:20:50 AM	17.56
2/27/2017	3:14:50 AM	17.82
2/27/2017	3:08:50 AM	17.98
2/27/2017	3:02:49 AM	18.14
2/27/2017	2:56:50 AM	18.46
2/27/2017	2:44:49 AM	18.78
2/27/2017	2:38:50 AM	18.33
2/27/2017	2:32:50 AM	17.37
2/27/2017	2:26:49 AM	16.05
2/27/2017	2:20:49 AM	14.61
2/27/2017	2:14:49 AM	12.98
2/27/2017	2:08:50 AM	11.34
2/27/2017	2:02:50 AM	9.58
2/27/2017	1:56:50 AM	7.66
2/27/2017	1:50:50 AM	5.83
2/27/2017	1:44:50 AM	4.49
2/27/2017	1:38:50 AM	51.91
2/27/2017	1:32:50 AM	51.98
2/27/2017	1:26:50 AM	51.94
2/27/2017	1:20:50 AM	51.75
2/27/2017	1:14:49 AM	51.34
2/27/2017	1:08:50 AM	50.82
2/27/2017	1:02:49 AM	50.28

2/27/2017	12:56:49 AM	49.86
2/27/2017	12:50:50 AM	48.13
2/27/2017	12:44:49 AM	13.43
2/27/2017	12:38:50 AM	13.2
2/27/2017	12:32:49 AM	12.82
2/27/2017	12:26:50 AM	12.63
2/27/2017	12:20:50 AM	12.47
2/27/2017	12:14:50 AM	12.31
2/27/2017	12:08:50 AM	12.11
2/27/2017	12:02:50 AM	11.66
2/26/2017	11:56:50 PM	11.09
2/26/2017	11:44:50 PM	10.74
2/26/2017	11:38:50 PM	10.96
2/26/2017	11:32:50 PM	11.12
2/26/2017	11:20:50 PM	11.31
2/26/2017	11:14:50 PM	11.15
2/26/2017	11:08:50 PM	10.99
2/26/2017	11:02:50 PM	10.96

Britt

Unit was not flowing during the event and did not display any AOCs. Increased pressures appear to be from a faulty check valves, this has been reported to Operations to inspect and clean (potentially paraffin buildup).

			20170227 Morning S.P.:			380
			20170227 Night S.P.:			380
			20170310 S.P.:			380
			PT-1200			
FQIT-1000						
Date	Time	Flowrate (bbl/d)	Date	Time	Pressure (psig)	
	MAX:	0.00		MAX:	70.77	
	MIN:	0.00		MIN:	-4.90	
	AVG:	0.00		AVG:	8.48	
2/27/2017	7:40:10 PM	0.00	2/27/2017	6:50:53 PM	7.1	
2/26/2017	7:20:49 AM	0.00	2/27/2017	6:38:52 PM	6.86	
			2/27/2017	6:14:52 PM	6.37	
			2/27/2017	6:08:52 PM	6.61	
			2/27/2017	6:02:52 PM	6.12	
			2/27/2017	5:50:52 PM	7.35	
			2/27/2017	5:44:52 PM	7.1	
			2/27/2017	5:38:53 PM	5.39	
			2/27/2017	5:32:52 PM	4.65	
			2/27/2017	5:20:53 PM	4.41	
			2/27/2017	5:14:52 PM	4.16	
			2/27/2017	5:08:53 PM	4.65	
			2/27/2017	5:02:52 PM	6.86	
			2/27/2017	4:56:52 PM	9.31	
			2/27/2017	4:50:52 PM	10.77	
			2/27/2017	4:44:52 PM	14.94	
			2/27/2017	4:38:53 PM	16.41	
			2/27/2017	4:32:52 PM	17.88	
			2/27/2017	4:26:52 PM	19.83	
			2/27/2017	4:20:53 PM	21.06	
			2/27/2017	4:14:52 PM	22.28	
			2/27/2017	4:08:53 PM	23.51	
			2/27/2017	4:02:52 PM	24.49	
			2/27/2017	3:56:53 PM	24	
			2/27/2017	3:50:53 PM	23.02	
			2/27/2017	3:44:53 PM	22.28	
			2/27/2017	3:38:53 PM	22.53	
			2/27/2017	3:32:52 PM	23.26	
			2/27/2017	3:26:53 PM	24.49	
			2/27/2017	3:20:53 PM	25.22	
			2/27/2017	3:14:52 PM	25.96	
			2/27/2017	3:08:53 PM	26.69	
			2/27/2017	3:02:52 PM	26.94	
			2/27/2017	2:44:53 PM	26.69	
			2/27/2017	2:38:53 PM	26.45	
			2/27/2017	2:32:53 PM	25.47	
			2/27/2017	2:26:53 PM	21.06	
			2/27/2017	2:20:53 PM	14.45	
			2/27/2017	2:14:53 PM	9.06	
			2/27/2017	2:08:53 PM	70.77	
			2/27/2017	2:02:52 PM	57.79	
			2/27/2017	1:56:52 PM	52.16	
			2/27/2017	1:50:52 PM	47.75	
			2/27/2017	1:44:52 PM	44.57	

2/27/2017	1:38:52 PM	42.61
2/27/2017	1:32:52 PM	39.91
2/27/2017	1:26:53 PM	36.73
2/27/2017	1:20:52 PM	34.28
2/27/2017	1:14:53 PM	30.85
2/27/2017	1:08:52 PM	26.45
2/27/2017	1:02:52 PM	21.79
2/27/2017	12:56:52 PM	17.14
2/27/2017	12:50:52 PM	13.96
2/27/2017	12:44:52 PM	11.51
2/27/2017	12:38:53 PM	10.28
2/27/2017	12:32:52 PM	9.06
2/27/2017	12:26:53 PM	7.59
2/27/2017	12:20:52 PM	5.63
2/27/2017	12:14:53 PM	3.67
2/27/2017	12:08:52 PM	0.98
2/27/2017	12:02:53 PM	-1.71
2/27/2017	11:56:52 AM	-2.94
2/27/2017	11:44:53 AM	-2.69
2/27/2017	11:38:53 AM	-2.2
2/27/2017	11:32:52 AM	-0.49
2/27/2017	11:26:52 AM	22.28
2/27/2017	11:20:52 AM	20.57
2/27/2017	11:14:53 AM	18.12
2/27/2017	11:08:53 AM	13.96
2/27/2017	11:02:53 AM	9.55
2/27/2017	10:56:53 AM	6.86
2/27/2017	10:50:53 AM	5.88
2/27/2017	10:44:53 AM	5.39
2/27/2017	10:38:52 AM	4.9
2/27/2017	10:32:53 AM	4.41
2/27/2017	10:26:53 AM	3.92
2/27/2017	10:20:53 AM	1.71
2/27/2017	10:14:53 AM	0.24
2/27/2017	10:08:53 AM	-0.49
2/27/2017	10:02:53 AM	-0.98
2/27/2017	9:56:52 AM	-1.71
2/27/2017	9:50:52 AM	-2.45
2/27/2017	9:44:53 AM	-3.18
2/27/2017	9:38:53 AM	-3.67
2/27/2017	9:32:53 AM	-4.41
2/27/2017	8:56:53 AM	-4.65
2/27/2017	8:26:53 AM	-4.9
2/27/2017	8:14:53 AM	-4.65
2/27/2017	7:56:53 AM	-4.41
2/27/2017	7:44:53 AM	-4.16
2/27/2017	7:38:53 AM	-4.41
2/27/2017	7:32:53 AM	-4.16
2/27/2017	7:20:53 AM	-3.92
2/27/2017	7:08:53 AM	-3.67
2/27/2017	6:44:53 AM	-3.18
2/27/2017	6:38:53 AM	-2.94
2/27/2017	6:26:53 AM	-2.69
2/27/2017	6:20:53 AM	-1.47
2/27/2017	6:14:53 AM	-0.98
2/27/2017	6:08:53 AM	-0.24
2/27/2017	6:02:53 AM	0.73
2/27/2017	5:56:53 AM	1.96
2/27/2017	5:50:53 AM	2.45
2/27/2017	5:44:53 AM	2.2
2/27/2017	5:38:53 AM	1.71

2/27/2017	5:32:53 AM	0.98
2/27/2017	5:26:53 AM	-0.98
2/27/2017	5:20:53 AM	-2.2
2/27/2017	5:14:53 AM	-2.69
2/27/2017	5:08:53 AM	-3.18
2/27/2017	4:56:53 AM	-3.67
2/27/2017	4:50:53 AM	-3.92
2/27/2017	4:32:53 AM	-3.67
2/27/2017	4:26:53 AM	-4.16
2/27/2017	4:20:53 AM	-2.45
2/27/2017	4:14:53 AM	-2.2
2/27/2017	4:08:53 AM	-1.96
2/27/2017	4:02:53 AM	-1.71
2/27/2017	3:56:53 AM	-1.47
2/27/2017	3:50:53 AM	-1.22
2/27/2017	3:38:53 AM	-0.98
2/27/2017	3:26:53 AM	-0.73
2/27/2017	3:20:53 AM	-0.24
2/27/2017	3:14:53 AM	0.24
2/27/2017	3:08:53 AM	0.73
2/27/2017	3:02:53 AM	0.98
2/27/2017	2:56:53 AM	-0.49
2/27/2017	2:50:53 AM	-0.24
2/27/2017	2:44:53 AM	-0.49
2/27/2017	2:38:53 AM	-0.73
2/27/2017	2:32:53 AM	-0.49
2/27/2017	2:26:53 AM	-0.73
2/27/2017	2:20:53 AM	-0.49
2/27/2017	2:14:53 AM	0.24
2/27/2017	2:08:53 AM	0.73
2/27/2017	2:02:53 AM	1.47
2/27/2017	1:56:53 AM	1.96
2/27/2017	1:50:53 AM	2.2
2/27/2017	1:44:53 AM	2.45
2/27/2017	1:32:53 AM	1.96
2/27/2017	1:26:53 AM	4.16
2/27/2017	1:20:53 AM	4.9
2/27/2017	1:14:53 AM	5.63
2/27/2017	1:08:53 AM	6.12
2/27/2017	1:02:53 AM	6.86
2/27/2017	12:56:53 AM	7.59
2/27/2017	12:44:53 AM	7.84
2/27/2017	12:38:53 AM	7.59
2/27/2017	12:32:53 AM	7.1
2/27/2017	12:26:53 AM	6.86
2/27/2017	12:14:53 AM	18.37
2/27/2017	12:08:53 AM	17.63
2/27/2017	12:02:53 AM	17.14
2/26/2017	11:56:53 PM	9.79
2/26/2017	11:50:53 PM	5.88
2/26/2017	11:38:53 PM	6.12
2/26/2017	11:32:53 PM	6.37
2/26/2017	11:26:53 PM	4.41
2/26/2017	11:20:53 PM	1.47
2/26/2017	11:14:53 PM	-1.96
2/26/2017	11:08:53 PM	-3.92
2/26/2017	11:02:53 PM	-4.9

Eckert

Analysis: Unit was flowing at the time of the event and appears to have reached the correct set point of 405 and shut down as analyzed by the SCADA data.

20170227 Morning S.P.: 405
20170227 Night S.P.: 405
20170310 S.P.: 405
PT-1200

FQIT-1000			PT-1200		
Date	Time	Flowrate (bbl/d)	Date	Time	Pressure (psig)
	MAX:	1695.30		MAX:	388.61
	MIN:	0.00		MIN:	-1.71
	AVG:	1515.14		AVG:	22.21
2/27/2017	4:20:52 PM	0	2/27/2017	6:50:52 PM	12.24
2/27/2017	4:14:53 PM	782.5	2/27/2017	6:44:52 PM	12.73
2/27/2017	3:02:53 AM	0	2/27/2017	6:32:52 PM	12.98
2/27/2017	2:56:53 AM	1,656.70	2/27/2017	6:26:53 PM	13.47
2/27/2017	2:50:53 AM	1,660.40	2/27/2017	6:20:52 PM	13.22
2/27/2017	2:44:53 AM	1,664.70	2/27/2017	6:14:52 PM	13.47
2/27/2017	2:38:53 AM	1,678.80	2/27/2017	6:08:52 PM	12.73
2/27/2017	2:32:53 AM	1,681.70	2/27/2017	6:02:52 PM	11.75
2/27/2017	2:26:53 AM	1,689.40	2/27/2017	5:56:52 PM	12.24
2/27/2017	2:20:53 AM	1,676.30	2/27/2017	5:50:52 PM	11.75
2/27/2017	2:14:53 AM	1,660.40	2/27/2017	5:44:52 PM	11.51
2/27/2017	2:08:53 AM	1,665.50	2/27/2017	5:38:52 PM	9.55
2/27/2017	2:02:53 AM	1,688.30	2/27/2017	5:26:52 PM	11.75
2/27/2017	1:56:53 AM	1,657.90	2/27/2017	5:08:52 PM	11.51
2/27/2017	1:50:53 AM	1,670.90	2/27/2017	5:02:53 PM	14.2
2/27/2017	1:44:53 AM	1,664.60	2/27/2017	4:50:52 PM	15.43
2/27/2017	1:38:53 AM	1,676.40	2/27/2017	4:44:52 PM	10.53
2/27/2017	1:32:53 AM	1,695.30	2/27/2017	4:38:52 PM	6.61
2/27/2017	1:26:53 AM	1,592.00	2/27/2017	4:32:53 PM	3.67
2/27/2017	1:20:53 AM	1,597.50	2/27/2017	4:26:53 PM	0.98
2/27/2017	1:14:53 AM	1,586.80	2/27/2017	4:20:52 PM	-1.71
2/27/2017	1:08:53 AM	1,605.50	2/27/2017	4:14:53 PM	388.61
2/27/2017	1:02:53 AM	1,620.20	2/27/2017	4:08:53 PM	9.55
2/27/2017	12:56:53 AM	1,594.00	2/27/2017	4:02:53 PM	10.53
2/27/2017	12:50:53 AM	1,578.30	2/27/2017	3:56:52 PM	11.26
2/27/2017	12:44:53 AM	1,600.80	2/27/2017	3:50:53 PM	12
2/27/2017	12:38:53 AM	1,616.70	2/27/2017	3:44:52 PM	11.51
2/27/2017	12:32:53 AM	1,614.00	2/27/2017	3:38:52 PM	11.02
2/27/2017	12:26:53 AM	1,644.70	2/27/2017	3:32:52 PM	10.28
2/27/2017	12:20:53 AM	1,642.70	2/27/2017	3:26:53 PM	9.79
2/27/2017	12:14:53 AM	1,559.70	2/27/2017	3:14:53 PM	9.55
2/27/2017	12:08:53 AM	1,574.20	2/27/2017	3:08:53 PM	10.53
2/27/2017	12:02:53 AM	1,557.20	2/27/2017	3:02:52 PM	11.26
2/26/2017	11:56:53 PM	1,660.60	2/27/2017	2:56:53 PM	12
			2/27/2017	2:44:53 PM	12.73
			2/27/2017	2:38:52 PM	12
			2/27/2017	2:32:52 PM	11.26
			2/27/2017	2:26:53 PM	10.77
			2/27/2017	2:20:52 PM	10.53
			2/27/2017	2:14:53 PM	10.77
			2/27/2017	2:08:53 PM	11.51
			2/27/2017	2:02:53 PM	12
			2/27/2017	1:56:53 PM	12.73
			2/27/2017	1:50:52 PM	12.98

2/27/2017	1:44:52 PM	12.73
2/27/2017	1:38:52 PM	12
2/27/2017	1:32:52 PM	11.51
2/27/2017	1:26:52 PM	11.02
2/27/2017	1:20:53 PM	10.77
2/27/2017	1:14:52 PM	11.26
2/27/2017	1:08:53 PM	12
2/27/2017	1:02:52 PM	12.49
2/27/2017	12:50:53 PM	13.47
2/27/2017	12:44:52 PM	12.73
2/27/2017	12:38:52 PM	12.24
2/27/2017	12:32:52 PM	11.51
2/27/2017	12:26:52 PM	11.26
2/27/2017	12:20:52 PM	11.75
2/27/2017	12:14:52 PM	12.24
2/27/2017	12:08:52 PM	12.98
2/27/2017	12:02:52 PM	13.96
2/27/2017	11:56:52 AM	14.45
2/27/2017	11:44:52 AM	14.94
2/27/2017	11:38:53 AM	14.69
2/27/2017	11:26:53 AM	13.96
2/27/2017	11:20:53 AM	13.47
2/27/2017	11:08:53 AM	13.71
2/27/2017	11:02:52 AM	14.2
2/27/2017	10:50:53 AM	14.45
2/27/2017	10:32:53 AM	14.2
2/27/2017	10:26:52 AM	14.45
2/27/2017	10:20:53 AM	12.49
2/27/2017	10:14:53 AM	12.98
2/27/2017	10:08:52 AM	13.71
2/27/2017	10:02:52 AM	14.45
2/27/2017	9:56:52 AM	14.69
2/27/2017	9:50:53 AM	14.45
2/27/2017	9:44:53 AM	14.2
2/27/2017	9:38:53 AM	15.43
2/27/2017	9:32:53 AM	12.24
2/27/2017	9:26:52 AM	12
2/27/2017	9:20:53 AM	10.28
2/27/2017	9:14:53 AM	9.79
2/27/2017	9:02:53 AM	11.75
2/27/2017	8:26:53 AM	11.51
2/27/2017	8:20:53 AM	11.75
2/27/2017	8:14:53 AM	12
2/27/2017	8:08:53 AM	12.24
2/27/2017	8:02:52 AM	12
2/27/2017	7:50:53 AM	11.51
2/27/2017	7:38:53 AM	11.75
2/27/2017	7:32:53 AM	12
2/27/2017	7:20:53 AM	12.49
2/27/2017	7:14:53 AM	12.24
2/27/2017	7:02:53 AM	14.45
2/27/2017	6:50:53 AM	14.69
2/27/2017	6:44:53 AM	14.94
2/27/2017	6:38:53 AM	14.69
2/27/2017	6:26:53 AM	14.45
2/27/2017	6:20:53 AM	10.77
2/27/2017	6:14:53 AM	10.53
2/27/2017	5:50:53 AM	10.28
2/27/2017	5:44:53 AM	10.77
2/27/2017	5:38:53 AM	11.51
2/27/2017	5:32:53 AM	12.49

2/27/2017	5:26:53 AM	13.22
2/27/2017	5:20:53 AM	13.96
2/27/2017	5:14:53 AM	13.71
2/27/2017	5:02:53 AM	13.47
2/27/2017	4:56:53 AM	15.67
2/27/2017	4:50:53 AM	11.26
2/27/2017	4:32:53 AM	11.02
2/27/2017	4:26:53 AM	10.53
2/27/2017	4:20:53 AM	13.71
2/27/2017	4:02:53 AM	13.47
2/27/2017	3:50:53 AM	13.22
2/27/2017	3:44:53 AM	13.47
2/27/2017	3:38:53 AM	11.02
2/27/2017	3:32:53 AM	8.57
2/27/2017	3:26:53 AM	6.61
2/27/2017	3:20:53 AM	5.63
2/27/2017	3:14:53 AM	4.65
2/27/2017	3:08:52 AM	3.18
2/27/2017	3:02:53 AM	0.49
2/27/2017	2:56:53 AM	43.1
2/27/2017	2:50:53 AM	43.34
2/27/2017	2:44:53 AM	43.59
2/27/2017	2:38:53 AM	43.83
2/27/2017	2:32:53 AM	43.59
2/27/2017	2:26:53 AM	41.38
2/27/2017	2:20:53 AM	42.12
2/27/2017	1:50:53 AM	42.61
2/27/2017	1:44:53 AM	43.1
2/27/2017	1:38:53 AM	43.34
2/27/2017	1:32:53 AM	43.59
2/27/2017	1:26:53 AM	68.81
2/27/2017	1:20:53 AM	69.05
2/27/2017	1:14:53 AM	68.81
2/27/2017	1:08:53 AM	67.34
2/27/2017	1:02:53 AM	67.58
2/27/2017	12:56:53 AM	67.83
2/27/2017	12:50:53 AM	67.58
2/27/2017	12:44:53 AM	67.34
2/27/2017	12:38:53 AM	67.58
2/27/2017	12:32:53 AM	68.07
2/27/2017	12:26:53 AM	68.56
2/27/2017	12:20:53 AM	75.18
2/27/2017	12:14:53 AM	76.65
2/27/2017	12:08:53 AM	77.13
2/27/2017	12:02:53 AM	79.58
2/26/2017	11:56:53 PM	52.89
2/26/2017	11:50:53 PM	12.24
2/26/2017	11:38:53 PM	12.49
2/26/2017	11:32:53 PM	12.73
2/26/2017	11:26:53 PM	12.49
2/26/2017	11:20:53 PM	12.73
2/26/2017	11:14:53 PM	12.49

Granli

Analysis: Unit was not flowing during the event and did not display any AOCs.

20170227 Morning S.P.: 355

20170227 Night S.P.: 355

20170310 S.P.: 355

FE-1100			PIT-1603B		
Date	Time	Flowrate (bbl/d)	Date	Time	Pressure (psig)
	MAX:	0.00		MAX:	32.18
	MIN:	0.00		MIN:	7.09
	AVG:	0.00		AVG:	17.39
2/27/2017	7:40:06 PM	0	2/27/2017	6:50:46 PM	9.11
2/27/2017	1:42:59 AM	0	2/27/2017	6:38:46 PM	9.26
			2/27/2017	6:32:46 PM	9.23
			2/27/2017	6:26:46 PM	9.26
			2/27/2017	6:20:46 PM	9.41
			2/27/2017	6:14:46 PM	9.83
			2/27/2017	6:08:46 PM	10.46
			2/27/2017	6:02:46 PM	10.95
			2/27/2017	5:56:46 PM	11.21
			2/27/2017	5:50:46 PM	11.25
			2/27/2017	5:44:46 PM	11.29
			2/27/2017	5:38:46 PM	11.4
			2/27/2017	5:32:46 PM	11.7
			2/27/2017	5:26:46 PM	12.23
			2/27/2017	5:20:46 PM	12.6
			2/27/2017	5:14:46 PM	12.68
			2/27/2017	5:08:46 PM	12.34
			2/27/2017	5:02:46 PM	12.04
			2/27/2017	4:56:46 PM	11.55
			2/27/2017	4:50:46 PM	10.39
			2/27/2017	4:44:46 PM	13.35
			2/27/2017	4:38:46 PM	13.99
			2/27/2017	4:32:46 PM	14.4
			2/27/2017	4:26:46 PM	14.48
			2/27/2017	4:14:46 PM	14.44
			2/27/2017	4:08:46 PM	14.48
			2/27/2017	4:02:46 PM	14.63
			2/27/2017	3:56:46 PM	15.11
			2/27/2017	3:50:46 PM	15.53
			2/27/2017	3:44:46 PM	15.64
			2/27/2017	3:38:46 PM	15.34
			2/27/2017	3:32:46 PM	15.04
			2/27/2017	3:26:46 PM	14.7
			2/27/2017	3:20:46 PM	14.33
			2/27/2017	3:14:46 PM	13.95
			2/27/2017	3:08:46 PM	13.61
			2/27/2017	3:02:46 PM	13.39
			2/27/2017	2:56:46 PM	13.2
			2/27/2017	2:50:46 PM	13.05
			2/27/2017	2:44:46 PM	13.2
			2/27/2017	2:32:46 PM	13.5
			2/27/2017	2:26:46 PM	13.09
			2/27/2017	2:20:46 PM	12.68
			2/27/2017	2:14:46 PM	12.23

2/27/2017	2:08:46 PM	11.74
2/27/2017	2:02:46 PM	11.14
2/27/2017	1:56:46 PM	10.61
2/27/2017	1:50:46 PM	10.2
2/27/2017	1:44:46 PM	9.9
2/27/2017	1:32:46 PM	9.68
2/27/2017	1:26:46 PM	9.94
2/27/2017	1:20:46 PM	10.12
2/27/2017	1:14:46 PM	10.09
2/27/2017	1:08:46 PM	9.83
2/27/2017	1:02:46 PM	9.6
2/27/2017	12:56:46 PM	9.38
2/27/2017	12:50:46 PM	9.11
2/27/2017	12:44:46 PM	8.93
2/27/2017	12:38:46 PM	8.7
2/27/2017	12:32:46 PM	8.59
2/27/2017	12:26:46 PM	8.66
2/27/2017	12:20:46 PM	8.89
2/27/2017	12:14:46 PM	8.93
2/27/2017	12:08:46 PM	8.66
2/27/2017	12:02:46 PM	8.36
2/27/2017	11:56:46 AM	8.06
2/27/2017	11:50:46 AM	7.69
2/27/2017	11:44:46 AM	7.09
2/27/2017	11:38:46 AM	25.09
2/27/2017	11:32:46 AM	22.16
2/27/2017	11:26:46 AM	21.64
2/27/2017	11:20:46 AM	21.15
2/27/2017	11:14:46 AM	20.62
2/27/2017	11:08:46 AM	20.06
2/27/2017	11:02:46 AM	19.58
2/27/2017	10:56:46 AM	19.2
2/27/2017	10:50:46 AM	18.98
2/27/2017	10:44:46 AM	18.75
2/27/2017	10:38:46 AM	18.45
2/27/2017	10:32:46 AM	18.19
2/27/2017	10:26:46 AM	17.96
2/27/2017	10:20:46 AM	17.78
2/27/2017	10:14:46 AM	17.66
2/27/2017	10:08:46 AM	17.59
2/27/2017	10:02:46 AM	17.51
2/27/2017	9:56:46 AM	17.44
2/27/2017	9:50:46 AM	17.29
2/27/2017	9:44:46 AM	17.14
2/27/2017	9:38:46 AM	16.99
2/27/2017	9:32:46 AM	16.88
2/27/2017	9:26:46 AM	16.76
2/27/2017	9:20:46 AM	16.61
2/27/2017	9:14:46 AM	16.54
2/27/2017	9:08:46 AM	16.5
2/27/2017	9:02:46 AM	16.43
2/27/2017	8:56:46 AM	16.31
2/27/2017	8:50:46 AM	16.16
2/27/2017	8:44:46 AM	15.98
2/27/2017	8:38:46 AM	15.83
2/27/2017	8:32:46 AM	15.64
2/27/2017	8:26:46 AM	15.49
2/27/2017	8:20:46 AM	15.34
2/27/2017	8:14:46 AM	15.26
2/27/2017	8:08:46 AM	15.23
2/27/2017	8:02:46 AM	15.3

2/27/2017	7:56:46 AM	15.41
2/27/2017	7:50:46 AM	15.71
2/27/2017	7:44:45 AM	16.28
2/27/2017	7:38:45 AM	17.03
2/27/2017	7:32:45 AM	17.29
2/27/2017	7:26:45 AM	17.21
2/27/2017	7:14:45 AM	17.25
2/27/2017	7:08:45 AM	17.29
2/27/2017	7:02:45 AM	17.33
2/27/2017	6:56:45 AM	17.36
2/27/2017	6:50:45 AM	17.44
2/27/2017	6:44:45 AM	17.48
2/27/2017	6:32:45 AM	17.44
2/27/2017	6:26:45 AM	17.36
2/27/2017	6:02:45 AM	17.29
2/27/2017	5:56:45 AM	17.25
2/27/2017	5:50:45 AM	17.18
2/27/2017	5:44:45 AM	17.06
2/27/2017	5:38:45 AM	16.95
2/27/2017	5:32:45 AM	16.76
2/27/2017	5:26:45 AM	16.58
2/27/2017	5:20:45 AM	16.39
2/27/2017	5:14:45 AM	16.28
2/27/2017	5:08:45 AM	16.24
2/27/2017	5:02:45 AM	16.39
2/27/2017	4:56:45 AM	16.91
2/27/2017	4:50:45 AM	17.33
2/27/2017	4:44:45 AM	17.25
2/27/2017	4:38:45 AM	16.91
2/27/2017	4:32:45 AM	16.58
2/27/2017	4:26:45 AM	16.31
2/27/2017	4:20:45 AM	16.24
2/27/2017	4:14:45 AM	16.46
2/27/2017	4:08:45 AM	16.95
2/27/2017	4:02:45 AM	17.25
2/27/2017	3:56:45 AM	17.14
2/27/2017	3:50:45 AM	16.69
2/27/2017	3:44:45 AM	16.28
2/27/2017	3:38:45 AM	16.09
2/27/2017	3:32:45 AM	16.35
2/27/2017	3:26:45 AM	16.69
2/27/2017	3:20:45 AM	16.99
2/27/2017	3:14:45 AM	17.25
2/27/2017	3:08:45 AM	17.29
2/27/2017	3:02:45 AM	16.91
2/27/2017	2:56:45 AM	16.01
2/27/2017	2:50:45 AM	27.9
2/27/2017	2:44:45 AM	29.93
2/27/2017	2:38:45 AM	29.96
2/27/2017	2:32:45 AM	30.11
2/27/2017	2:26:45 AM	30.08
2/27/2017	2:20:45 AM	30.26
2/27/2017	2:14:45 AM	29.93
2/27/2017	2:08:45 AM	31.95
2/27/2017	2:02:45 AM	32.06
2/27/2017	1:56:45 AM	32.18
2/27/2017	1:50:45 AM	31.95
2/27/2017	1:44:45 AM	31.09
2/27/2017	1:42:59 AM	30.83
2/27/2017	1:42:44 AM	30.79
2/27/2017	1:32:45 AM	30.3

2/27/2017	1:26:45 AM	30.71
2/27/2017	1:20:45 AM	31.01
2/27/2017	1:14:45 AM	31.2
2/27/2017	1:08:45 AM	30.79
2/27/2017	1:02:45 AM	29.78
2/27/2017	12:56:45 AM	28.88
2/27/2017	12:56:06 AM	28.76
2/27/2017	12:44:45 AM	27.98
2/27/2017	12:38:45 AM	27.64
2/27/2017	12:26:45 AM	27.56
2/27/2017	12:20:45 AM	27.79
2/27/2017	12:14:45 AM	27.19
2/27/2017	12:08:45 AM	26.55
2/27/2017	12:02:45 AM	25.43
2/26/2017	11:56:45 PM	25.58
2/26/2017	11:44:45 PM	24.64
2/26/2017	11:38:45 PM	24.6
2/26/2017	11:32:45 PM	24.64
2/26/2017	11:26:45 PM	24.68
2/26/2017	11:14:45 PM	24.64
2/26/2017	11:08:45 PM	24.56
2/26/2017	11:02:45 PM	24.53

Great Divide

Analysis: Unit was not flowing during the event and did not display any AOCs.

20170227 Morning S.P.: 220

20170227 Night S.P.: 220

20170310 S.P.: 220

FQIT-1000			PT-1100		
Date	Time	Flowrate (bbl/d)	Date	Time	Pressure (psig)
	MAX:	1487.50		MAX:	50.53
	MIN:	0.00		MIN:	1.38
	AVG:	1336.55		AVG:	10.80
2/27/2017	8:44:50 AM	0	2/27/2017	7:02:52 PM	8.72
2/27/2017	8:38:50 AM	1,426.70	2/27/2017	6:56:52 PM	8.27
2/27/2017	8:32:50 AM	1,410.80	2/27/2017	6:50:51 PM	8.17
2/27/2017	8:26:50 AM	1,434.20	2/27/2017	6:44:52 PM	8.33
2/27/2017	8:20:50 AM	1,424.00	2/27/2017	6:38:52 PM	8.4
2/27/2017	8:14:50 AM	1,395.20	2/27/2017	6:32:52 PM	8.56
2/27/2017	8:08:50 AM	1,407.40	2/27/2017	6:26:52 PM	8.65
2/27/2017	8:02:50 AM	1,392.60	2/27/2017	6:20:52 PM	8.81
2/27/2017	7:56:50 AM	1,366.20	2/27/2017	6:08:52 PM	8.94
2/27/2017	7:50:50 AM	1,429.30	2/27/2017	6:02:52 PM	8.46
2/27/2017	7:44:50 AM	1,417.40	2/27/2017	5:56:52 PM	8.52
2/27/2017	7:38:50 AM	1,487.50	2/27/2017	5:50:52 PM	8.65
2/27/2017	7:32:50 AM	1,436.80	2/27/2017	5:44:52 PM	8.75
2/27/2017	7:26:50 AM	1,427.70	2/27/2017	5:38:52 PM	8.81
2/27/2017	7:20:50 AM	1,425.70	2/27/2017	5:32:52 PM	8.94
2/27/2017	7:14:50 AM	1,426.10	2/27/2017	5:26:52 PM	9.07
2/27/2017	7:08:50 AM	1,413.70	2/27/2017	5:20:52 PM	9.16
			2/27/2017	5:14:52 PM	9.33
			2/27/2017	5:08:52 PM	9.16
			2/27/2017	5:02:52 PM	8.72
			2/27/2017	4:50:52 PM	8.81
			2/27/2017	4:38:52 PM	8.94
			2/27/2017	4:26:52 PM	9
			2/27/2017	4:20:52 PM	9.07
			2/27/2017	4:14:52 PM	9.13
			2/27/2017	4:08:52 PM	9.1
			2/27/2017	4:02:52 PM	9.13
			2/27/2017	3:50:52 PM	9.16
			2/27/2017	3:44:52 PM	9.2
			2/27/2017	3:38:52 PM	9.26
			2/27/2017	3:32:52 PM	9.36
			2/27/2017	3:26:52 PM	8.75
			2/27/2017	3:14:52 PM	8.56
			2/27/2017	3:08:52 PM	8.52
			2/27/2017	3:02:52 PM	8.56
			2/27/2017	2:56:52 PM	8.52
			2/27/2017	2:50:52 PM	8.49
			2/27/2017	2:44:52 PM	8.46
			2/27/2017	2:38:52 PM	8.49
			2/27/2017	2:32:52 PM	8.43
			2/27/2017	2:26:52 PM	8.4
			2/27/2017	2:14:52 PM	8.33
			2/27/2017	2:08:52 PM	8.36
			2/27/2017	2:02:52 PM	8.4

2/27/2017	1:56:51 PM	8.46
2/27/2017	1:50:52 PM	7.95
2/27/2017	1:38:52 PM	7.75
2/27/2017	1:32:52 PM	7.82
2/27/2017	1:20:52 PM	7.88
2/27/2017	1:14:52 PM	7.92
2/27/2017	1:08:52 PM	7.88
2/27/2017	1:02:52 PM	7.95
2/27/2017	12:56:52 PM	8.01
2/27/2017	12:50:52 PM	7.63
2/27/2017	12:44:52 PM	7.43
2/27/2017	12:38:52 PM	7.4
2/27/2017	12:32:52 PM	7.43
2/27/2017	12:26:51 PM	7.47
2/27/2017	12:08:52 PM	7.5
2/27/2017	12:02:52 PM	7.4
2/27/2017	11:56:52 AM	7.02
2/27/2017	11:50:52 AM	6.95
2/27/2017	11:32:52 AM	6.99
2/27/2017	11:26:52 AM	7.05
2/27/2017	11:20:52 AM	6.99
2/27/2017	11:14:52 AM	6.86
2/27/2017	11:08:52 AM	6.47
2/27/2017	11:02:52 AM	6.38
2/27/2017	10:50:52 AM	6.31
2/27/2017	10:44:52 AM	6.25
2/27/2017	10:38:52 AM	6.22
2/27/2017	10:32:52 AM	6.15
2/27/2017	10:26:52 AM	5.67
2/27/2017	10:20:52 AM	5.45
2/27/2017	10:14:52 AM	5.35
2/27/2017	10:08:52 AM	5.32
2/27/2017	10:02:52 AM	5.29
2/27/2017	9:56:52 AM	5.16
2/27/2017	9:50:52 AM	4.93
2/27/2017	9:44:52 AM	4.45
2/27/2017	9:38:52 AM	4.2
2/27/2017	9:32:52 AM	4.13
2/27/2017	9:26:52 AM	3.91
2/27/2017	9:20:52 AM	3.78
2/27/2017	9:14:52 AM	3.56
2/27/2017	9:08:52 AM	3.2
2/27/2017	9:02:52 AM	2.66
2/27/2017	8:56:52 AM	2.28
2/27/2017	8:50:52 AM	1.92
2/27/2017	8:44:52 AM	1.38
2/27/2017	8:38:52 AM	49.03
2/27/2017	8:32:52 AM	49.16
2/27/2017	8:26:52 AM	49.28
2/27/2017	8:14:52 AM	49.35
2/27/2017	8:08:52 AM	49.89
2/27/2017	7:56:52 AM	50.05
2/27/2017	7:50:52 AM	50.28
2/27/2017	7:44:52 AM	50.37
2/27/2017	7:38:52 AM	50.53
2/27/2017	7:32:52 AM	50.31
2/27/2017	7:26:52 AM	50.5
2/27/2017	7:20:52 AM	50.47
2/27/2017	7:14:52 AM	50.5
2/27/2017	7:08:52 AM	50.37
2/27/2017	7:02:52 AM	6.73

2/27/2017	6:56:52 AM	6.79
2/27/2017	6:50:52 AM	6.89
2/27/2017	6:44:52 AM	6.79
2/27/2017	6:38:52 AM	6.63
2/27/2017	6:32:52 AM	6.76
2/27/2017	6:26:52 AM	6.86
2/27/2017	6:20:52 AM	6.95
2/27/2017	6:14:52 AM	7.02
2/27/2017	6:08:52 AM	6.95
2/27/2017	6:02:52 AM	6.76
2/27/2017	5:56:52 AM	6.86
2/27/2017	5:50:52 AM	6.92
2/27/2017	5:44:52 AM	6.99
2/27/2017	5:38:52 AM	7.08
2/27/2017	5:32:52 AM	7.15
2/27/2017	5:26:52 AM	6.99
2/27/2017	5:20:52 AM	6.92
2/27/2017	5:14:52 AM	7.05
2/27/2017	5:08:52 AM	7.18
2/27/2017	5:02:52 AM	7.21
2/27/2017	4:56:51 AM	7.31
2/27/2017	4:50:52 AM	7.27
2/27/2017	4:44:52 AM	7.08
2/27/2017	4:38:52 AM	7.18
2/27/2017	4:32:52 AM	7.27
2/27/2017	4:26:52 AM	7.31
2/27/2017	4:20:52 AM	7.4
2/27/2017	4:14:52 AM	7.5
2/27/2017	4:08:52 AM	7.56
2/27/2017	4:02:52 AM	7.37
2/27/2017	3:56:52 AM	7.24
2/27/2017	3:50:52 AM	7.37
2/27/2017	3:44:52 AM	7.53
2/27/2017	3:38:52 AM	7.56
2/27/2017	3:26:52 AM	7.66
2/27/2017	3:20:52 AM	7.69
2/27/2017	3:14:52 AM	7.47
2/27/2017	3:08:52 AM	7.56
2/27/2017	3:02:52 AM	7.66
2/27/2017	2:56:52 AM	7.75
2/27/2017	2:50:52 AM	7.82
2/27/2017	2:44:52 AM	7.88
2/27/2017	2:32:52 AM	7.95
2/27/2017	2:26:52 AM	7.98
2/27/2017	2:14:52 AM	7.75
2/27/2017	2:08:52 AM	7.88
2/27/2017	2:02:52 AM	7.95
2/27/2017	1:56:52 AM	7.98
2/27/2017	1:50:52 AM	8.08
2/27/2017	1:44:52 AM	8.11
2/27/2017	1:38:52 AM	8.14
2/27/2017	1:26:52 AM	8.2
2/27/2017	1:20:52 AM	8.01
2/27/2017	1:14:52 AM	7.85
2/27/2017	1:08:52 AM	7.92
2/27/2017	1:02:52 AM	7.98
2/27/2017	12:56:52 AM	8.08
2/27/2017	12:50:52 AM	8.11
2/27/2017	12:44:52 AM	8.17
2/27/2017	12:38:52 AM	8.2
2/27/2017	12:26:52 AM	8.27

2/27/2017	12:20:52 AM	8.01
2/27/2017	12:14:52 AM	7.92
2/27/2017	12:08:52 AM	7.95
2/27/2017	12:02:52 AM	8.01
2/26/2017	11:56:52 PM	8.08
2/26/2017	11:50:52 PM	8.11
2/26/2017	11:44:52 PM	8.17
2/26/2017	11:26:52 PM	8.2
2/26/2017	11:20:52 PM	7.92
2/26/2017	11:08:52 PM	7.88
2/26/2017	11:02:52 PM	7.95

Helling

Analysis: Unit was not flowing during the event and did not display any AOCs.

20170227 Morning S.P.: 390
20170227 Night S.P.: 390
20170310 S.P.: 100

FT-100			PT-110		
Date	Time	Flowrate (bbl/d)	Date	Time	Pressure (psig)
	MAX:	0.00		MAX:	49.68
	MIN:	0.00		MIN:	1.99
	AVG:	0.00		AVG:	9.71
2/27/2017	7:40:10 PM	0	2/27/2017	7:02:55 PM	7.64
2/26/2017	10:26:54 PM	0	2/27/2017	6:44:55 PM	7.67
			2/27/2017	6:38:55 PM	7.69
			2/27/2017	6:32:56 PM	7.71
			2/27/2017	6:26:55 PM	7.76
			2/27/2017	6:20:55 PM	7.86
			2/27/2017	6:14:55 PM	8.05
			2/27/2017	6:08:55 PM	8.46
			2/27/2017	6:02:55 PM	9.13
			2/27/2017	5:56:55 PM	9.64
			2/27/2017	5:50:55 PM	9.78
			2/27/2017	5:44:55 PM	9.69
			2/27/2017	5:38:55 PM	9.52
			2/27/2017	5:32:55 PM	9.35
			2/27/2017	5:26:56 PM	9.18
			2/27/2017	5:20:55 PM	9.06
			2/27/2017	5:14:55 PM	8.92
			2/27/2017	5:08:55 PM	8.77
			2/27/2017	5:02:55 PM	8.68
			2/27/2017	4:56:55 PM	8.56
			2/27/2017	4:50:55 PM	8.44
			2/27/2017	4:44:55 PM	8.34
			2/27/2017	4:38:55 PM	8.22
			2/27/2017	4:32:55 PM	8.1
			2/27/2017	4:26:55 PM	8.05
			2/27/2017	4:20:56 PM	7.98
			2/27/2017	4:14:56 PM	7.93
			2/27/2017	4:08:55 PM	7.88
			2/27/2017	4:02:55 PM	7.83
			2/27/2017	3:56:55 PM	7.76
			2/27/2017	3:50:55 PM	7.71
			2/27/2017	3:44:55 PM	7.64
			2/27/2017	3:38:55 PM	7.59
			2/27/2017	3:32:55 PM	7.52
			2/27/2017	3:20:55 PM	7.47
			2/27/2017	2:38:55 PM	7.45
			2/27/2017	2:32:55 PM	7.47
			2/27/2017	2:26:55 PM	7.55
			2/27/2017	2:14:55 PM	7.59
			2/27/2017	2:08:55 PM	7.57
			2/27/2017	2:02:55 PM	7.55
			2/27/2017	1:56:55 PM	7.5
			2/27/2017	1:50:55 PM	7.45
			2/27/2017	1:44:55 PM	7.4

2/27/2017	1:32:55 PM	7.35
2/27/2017	1:26:55 PM	7.33
2/27/2017	1:20:55 PM	7.31
2/27/2017	1:02:55 PM	7.28
2/27/2017	12:44:55 PM	7.31
2/27/2017	12:38:56 PM	7.35
2/27/2017	12:32:55 PM	7.4
2/27/2017	12:26:55 PM	7.38
2/27/2017	12:20:55 PM	7.35
2/27/2017	12:14:55 PM	7.23
2/27/2017	12:08:55 PM	7.11
2/27/2017	12:02:55 PM	6.95
2/27/2017	11:56:55 AM	6.8
2/27/2017	11:50:55 AM	6.71
2/27/2017	11:44:55 AM	6.56
2/27/2017	11:38:56 AM	6.44
2/27/2017	11:32:55 AM	6.34
2/27/2017	11:26:55 AM	6.25
2/27/2017	11:20:55 AM	6.15
2/27/2017	11:14:55 AM	6.03
2/27/2017	11:08:55 AM	5.94
2/27/2017	11:02:55 AM	5.82
2/27/2017	10:56:55 AM	5.7
2/27/2017	10:50:55 AM	5.58
2/27/2017	10:44:55 AM	5.48
2/27/2017	10:38:56 AM	5.36
2/27/2017	10:32:55 AM	5.26
2/27/2017	10:26:55 AM	5.19
2/27/2017	10:20:56 AM	5.05
2/27/2017	10:14:55 AM	4.95
2/27/2017	10:08:55 AM	4.85
2/27/2017	10:02:55 AM	4.73
2/27/2017	9:56:55 AM	4.66
2/27/2017	9:50:55 AM	4.54
2/27/2017	9:44:55 AM	4.45
2/27/2017	9:38:55 AM	4.35
2/27/2017	9:32:55 AM	4.28
2/27/2017	9:26:55 AM	4.18
2/27/2017	9:20:55 AM	4.09
2/27/2017	9:14:55 AM	4.01
2/27/2017	9:08:56 AM	3.92
2/27/2017	9:02:55 AM	3.85
2/27/2017	8:56:55 AM	3.8
2/27/2017	8:50:56 AM	3.7
2/27/2017	8:44:56 AM	3.58
2/27/2017	8:38:56 AM	3.46
2/27/2017	8:32:56 AM	3.36
2/27/2017	8:26:56 AM	3.22
2/27/2017	8:20:55 AM	3.1
2/27/2017	8:14:56 AM	2.98
2/27/2017	8:08:55 AM	2.86
2/27/2017	8:02:55 AM	2.72
2/27/2017	7:56:55 AM	2.57
2/27/2017	7:50:55 AM	2.45
2/27/2017	7:44:57 AM	2.31
2/27/2017	7:38:56 AM	2.21
2/27/2017	7:32:57 AM	2.11
2/27/2017	7:26:57 AM	2.02
2/27/2017	7:20:57 AM	1.99
2/27/2017	7:14:55 AM	2.04
2/27/2017	7:08:56 AM	2.09

2/27/2017	7:02:55 AM	2.14
2/27/2017	6:56:55 AM	2.24
2/27/2017	6:50:56 AM	2.28
2/27/2017	6:44:56 AM	2.36
2/27/2017	6:38:55 AM	2.43
2/27/2017	6:32:56 AM	2.52
2/27/2017	6:26:55 AM	2.62
2/27/2017	6:20:55 AM	2.67
2/27/2017	6:14:56 AM	2.79
2/27/2017	6:08:55 AM	2.88
2/27/2017	6:02:56 AM	2.98
2/27/2017	5:56:55 AM	3.12
2/27/2017	5:50:55 AM	3.27
2/27/2017	5:44:56 AM	3.41
2/27/2017	5:38:56 AM	3.58
2/27/2017	5:32:55 AM	3.7
2/27/2017	5:26:55 AM	3.87
2/27/2017	5:20:56 AM	4.01
2/27/2017	5:14:55 AM	4.11
2/27/2017	5:08:56 AM	4.25
2/27/2017	5:02:56 AM	4.35
2/27/2017	4:56:56 AM	4.45
2/27/2017	4:50:55 AM	4.54
2/27/2017	4:44:56 AM	4.64
2/27/2017	4:38:55 AM	4.73
2/27/2017	4:32:55 AM	4.83
2/27/2017	4:26:56 AM	4.9
2/27/2017	4:20:55 AM	4.97
2/27/2017	4:14:55 AM	5.07
2/27/2017	4:08:56 AM	5.14
2/27/2017	4:02:55 AM	5.22
2/27/2017	3:56:55 AM	5.26
2/27/2017	3:50:55 AM	5.31
2/27/2017	3:44:56 AM	5.36
2/27/2017	3:38:55 AM	5.41
2/27/2017	3:26:55 AM	5.43
2/27/2017	3:14:55 AM	5.46
2/27/2017	3:08:56 AM	5.31
2/27/2017	3:02:56 AM	5.07
2/27/2017	2:56:55 AM	4.57
2/27/2017	2:50:55 AM	5.91
2/27/2017	2:44:56 AM	16.68
2/27/2017	2:38:56 AM	21.1
2/27/2017	2:32:55 AM	20.69
2/27/2017	2:26:55 AM	20.48
2/27/2017	2:20:55 AM	20.36
2/27/2017	2:14:56 AM	20.4
2/27/2017	2:08:55 AM	20.5
2/27/2017	2:02:55 AM	20.57
2/27/2017	1:56:56 AM	20.74
2/27/2017	1:50:55 AM	20.93
2/27/2017	1:44:56 AM	21.22
2/27/2017	1:38:56 AM	21.46
2/27/2017	1:32:56 AM	21.68
2/27/2017	1:26:55 AM	21.89
2/27/2017	1:20:56 AM	22.13
2/27/2017	1:14:55 AM	22.52
2/27/2017	1:08:55 AM	22.93
2/27/2017	1:02:56 AM	23.26
2/27/2017	12:55:58 AM	23.75
2/27/2017	12:50:56 AM	24.15

2/27/2017	12:44:56 AM	24.56
2/27/2017	12:38:56 AM	24.95
2/27/2017	12:32:55 AM	25.26
2/27/2017	12:26:56 AM	25.43
2/27/2017	12:14:56 AM	25.48
2/27/2017	12:08:56 AM	25.33
2/27/2017	12:02:56 AM	25.16
2/26/2017	11:56:56 PM	25.21
2/26/2017	11:50:56 PM	25.4
2/26/2017	11:44:55 PM	26
2/26/2017	11:38:56 PM	27.25
2/26/2017	11:32:56 PM	29.51
2/26/2017	11:26:56 PM	33.26
2/26/2017	11:20:56 PM	38.89
2/26/2017	11:14:56 PM	45.16
2/26/2017	11:08:56 PM	48.64
2/26/2017	11:02:55 PM	49.68

Hovde

Analysis: Unit was not flowing during the event and did not display any AOCs.

20170227 Morning S.P.: 315
20170227 Night S.P.: 315
20170310 S.P.: 315

FT-100			PT-110		
Date	Time	Flowrate (bbl/d)	Date	Time	Pressure (psig)
	MAX:	0.00		MAX:	52.20
	MIN:	-141.70		MIN:	0.93
	AVG:	-99.75		AVG:	22.69
2/27/2017	7:08:54 PM	0	2/27/2017	7:08:55 PM	34.22
2/27/2017	7:02:54 PM	-100.5	2/27/2017	7:02:55 PM	35.47
2/27/2017	6:56:54 PM	-102.2	2/27/2017	6:56:56 PM	36.53
2/27/2017	6:50:54 PM	-103.9	2/27/2017	6:50:55 PM	37.11
2/27/2017	6:44:54 PM	-97.5	2/27/2017	6:44:55 PM	37.24
2/27/2017	6:38:54 PM	-97.6	2/27/2017	6:38:56 PM	37.17
2/27/2017	6:32:54 PM	-98.5	2/27/2017	6:32:55 PM	37.43
2/27/2017	6:26:54 PM	-108.5	2/27/2017	6:26:55 PM	38.01
2/27/2017	6:20:54 PM	-102	2/27/2017	6:20:55 PM	38.9
2/27/2017	6:14:54 PM	-103.3	2/27/2017	6:14:55 PM	39.99
2/27/2017	6:08:54 PM	-96.4	2/27/2017	6:08:55 PM	40.57
2/27/2017	6:02:54 PM	-95.9	2/27/2017	6:02:55 PM	40.34
2/27/2017	5:56:54 PM	-98.4	2/27/2017	5:56:55 PM	39.25
2/27/2017	5:50:54 PM	-100	2/27/2017	5:50:55 PM	37.81
2/27/2017	5:44:54 PM	-104.5	2/27/2017	5:44:55 PM	36.47
2/27/2017	5:38:55 PM	-107.9	2/27/2017	5:38:56 PM	35.38
2/27/2017	5:32:54 PM	-103	2/27/2017	5:32:55 PM	34.32
2/27/2017	5:26:54 PM	-103.6	2/27/2017	5:26:55 PM	32.94
2/27/2017	5:20:54 PM	-97.6	2/27/2017	5:20:55 PM	31.21
2/27/2017	5:14:54 PM	-97.7	2/27/2017	5:14:55 PM	29.16
2/27/2017	5:08:54 PM	-101	2/27/2017	5:08:55 PM	26.98
2/27/2017	5:02:54 PM	-110.8	2/27/2017	5:02:55 PM	24.96
2/27/2017	4:56:54 PM	-105.2	2/27/2017	4:56:56 PM	23.23
2/27/2017	4:50:54 PM	-110.2	2/27/2017	4:50:55 PM	21.69
2/27/2017	4:44:54 PM	-104.6	2/27/2017	4:44:55 PM	23.33
2/27/2017	4:38:54 PM	-99.6	2/27/2017	4:38:55 PM	21.98
2/27/2017	4:32:54 PM	-97	2/27/2017	4:32:56 PM	20.64
2/27/2017	4:26:54 PM	-99.7	2/27/2017	4:26:55 PM	19.23
2/27/2017	4:20:54 PM	-108.8	2/27/2017	4:20:55 PM	17.88
2/27/2017	4:14:54 PM	-107.2	2/27/2017	4:14:55 PM	16.79
2/27/2017	4:08:54 PM	-109.9	2/27/2017	4:08:55 PM	16.02
2/27/2017	4:02:54 PM	-109.7	2/27/2017	4:02:55 PM	15.38
2/27/2017	3:56:54 PM	-109.3	2/27/2017	3:56:55 PM	14.77
2/27/2017	3:50:54 PM	-103.7	2/27/2017	3:50:56 PM	14.07
2/27/2017	3:44:55 PM	-100.8	2/27/2017	3:44:56 PM	13.49
2/27/2017	3:38:54 PM	-102.6	2/27/2017	3:38:56 PM	12.85
2/27/2017	3:32:54 PM	-110.2	2/27/2017	3:32:55 PM	12.24
2/27/2017	3:26:54 PM	-107.8	2/27/2017	3:26:55 PM	11.86
2/27/2017	3:20:54 PM	-110.4	2/27/2017	3:20:55 PM	11.5
2/27/2017	3:14:54 PM	-110.7	2/27/2017	3:14:55 PM	11.25
2/27/2017	3:08:54 PM	-107.3	2/27/2017	3:08:55 PM	10.96
2/27/2017	3:02:54 PM	-106.4	2/27/2017	3:02:55 PM	10.67
2/27/2017	2:56:54 PM	-103.9	2/27/2017	2:56:55 PM	10.35
2/27/2017	2:50:54 PM	-103.8	2/27/2017	2:50:56 PM	9.93

2/27/2017	2:44:55 PM	-107.9	2/27/2017	2:44:56 PM	9.61
2/27/2017	2:38:55 PM	-111	2/27/2017	2:38:56 PM	9.36
2/27/2017	2:32:54 PM	-111.3	2/27/2017	2:32:56 PM	9.04
2/27/2017	2:26:54 PM	-110	2/27/2017	2:26:56 PM	8.75
2/27/2017	2:20:54 PM	-100.3	2/27/2017	2:20:55 PM	8.4
2/27/2017	2:14:54 PM	-98.1	2/27/2017	2:14:55 PM	8.04
2/27/2017	2:08:54 PM	-101.7	2/27/2017	2:08:55 PM	7.63
2/27/2017	2:02:54 PM	-100.2	2/27/2017	2:02:55 PM	7.24
2/27/2017	1:56:54 PM	-107.3	2/27/2017	1:56:55 PM	6.92
2/27/2017	1:50:54 PM	-110.2	2/27/2017	1:50:55 PM	6.63
2/27/2017	1:44:54 PM	-111.7	2/27/2017	1:44:56 PM	6.47
2/27/2017	1:38:54 PM	-114.5	2/27/2017	1:38:56 PM	6.38
2/27/2017	1:32:55 PM	-117	2/27/2017	1:32:56 PM	6.22
2/27/2017	1:26:54 PM	-106.8	2/27/2017	1:26:55 PM	5.99
2/27/2017	1:20:54 PM	-103	2/27/2017	1:20:56 PM	5.7
2/27/2017	1:14:54 PM	-108.7	2/27/2017	1:14:55 PM	5.35
2/27/2017	1:08:54 PM	-113.4	2/27/2017	1:08:55 PM	5.03
2/27/2017	1:02:54 PM	-107.1	2/27/2017	1:02:55 PM	4.97
2/27/2017	12:56:54 PM	-119.2	2/27/2017	12:56:56 PM	5
2/27/2017	12:50:54 PM	-126.9	2/27/2017	12:50:55 PM	4.93
2/27/2017	12:44:54 PM	-129.5	2/27/2017	12:44:55 PM	4.84
2/27/2017	12:38:55 PM	-114.7	2/27/2017	12:38:56 PM	4.65
2/27/2017	12:32:54 PM	-115	2/27/2017	12:32:55 PM	4.45
2/27/2017	12:26:54 PM	-131.9	2/27/2017	12:20:56 PM	4.29
2/27/2017	12:20:54 PM	-141.7	2/27/2017	12:14:55 PM	4.39
2/27/2017	12:14:54 PM	-69.8	2/27/2017	12:08:56 PM	4.55
2/27/2017	12:08:54 PM	-62.2	2/27/2017	11:56:56 AM	4.58
2/27/2017	12:02:54 PM	-58.1	2/27/2017	11:50:56 AM	4.39
2/27/2017	11:56:54 AM	-63.4	2/27/2017	11:44:55 AM	4.23
2/27/2017	11:50:54 AM	-64.1	2/27/2017	11:38:55 AM	4.17
2/27/2017	11:44:54 AM	-61	2/27/2017	11:14:56 AM	4.13
2/27/2017	11:38:54 AM	-58	2/27/2017	11:08:56 AM	3.97
2/27/2017	11:32:54 AM	-63.8	2/27/2017	11:02:56 AM	3.69
2/27/2017	11:26:54 AM	-79.6	2/27/2017	10:56:55 AM	3.56
2/27/2017	11:20:54 AM	-67.4	2/27/2017	10:50:56 AM	3.33
2/27/2017	11:14:54 AM	-73.9	2/27/2017	10:44:55 AM	3.24
2/27/2017	11:08:54 AM	-79.4	2/27/2017	10:38:55 AM	3.17
			2/27/2017	10:20:56 AM	3.14
			2/27/2017	10:14:55 AM	3.01
			2/27/2017	10:08:55 AM	2.95
			2/27/2017	10:02:56 AM	2.82
			2/27/2017	9:56:55 AM	2.79
			2/27/2017	9:50:55 AM	2.72
			2/27/2017	9:44:55 AM	2.76
			2/27/2017	9:38:55 AM	2.79
			2/27/2017	9:32:56 AM	2.72
			2/27/2017	9:26:56 AM	2.69
			2/27/2017	9:14:55 AM	2.56
			2/27/2017	9:08:55 AM	2.53
			2/27/2017	9:02:56 AM	2.56
			2/27/2017	8:56:56 AM	2.66
			2/27/2017	8:50:55 AM	2.72
			2/27/2017	8:38:56 AM	2.79
			2/27/2017	8:20:55 AM	2.72
			2/27/2017	8:14:55 AM	2.88
			2/27/2017	8:08:55 AM	3.08
			2/27/2017	8:02:55 AM	3.17
			2/27/2017	7:50:56 AM	3.24
			2/27/2017	7:44:56 AM	3.3
			2/27/2017	7:38:56 AM	3.49
			2/27/2017	7:32:56 AM	3.69

2/27/2017	7:26:56 AM	4.04
2/27/2017	7:20:56 AM	4.33
2/27/2017	7:08:56 AM	4.58
2/27/2017	7:02:55 AM	4.49
2/27/2017	6:56:56 AM	4.33
2/27/2017	6:50:56 AM	4.17
2/27/2017	6:44:55 AM	4.29
2/27/2017	6:38:55 AM	4.52
2/27/2017	6:32:55 AM	4.58
2/27/2017	6:26:56 AM	4.68
2/27/2017	6:20:56 AM	4.65
2/27/2017	6:14:56 AM	4.23
2/27/2017	6:08:56 AM	3.4
2/27/2017	6:02:56 AM	0.93
2/27/2017	5:56:55 AM	3.65
2/27/2017	5:50:56 AM	7.08
2/27/2017	5:44:55 AM	11.06
2/27/2017	5:38:56 AM	14.58
2/27/2017	5:32:56 AM	16.98
2/27/2017	5:26:56 AM	18.43
2/27/2017	5:20:56 AM	20.06
2/27/2017	5:14:55 AM	22.11
2/27/2017	5:08:56 AM	24.48
2/27/2017	5:02:56 AM	28.04
2/27/2017	4:56:56 AM	31.21
2/27/2017	4:50:56 AM	33.52
2/27/2017	4:44:56 AM	34.8
2/27/2017	4:38:55 AM	35.95
2/27/2017	4:32:56 AM	37.3
2/27/2017	4:26:55 AM	38.97
2/27/2017	4:20:56 AM	40.66
2/27/2017	4:14:56 AM	41.91
2/27/2017	4:08:56 AM	42.72
2/27/2017	4:02:56 AM	43.16
2/27/2017	3:56:56 AM	43.77
2/27/2017	3:50:56 AM	44.7
2/27/2017	3:44:55 AM	46.4
2/27/2017	3:38:56 AM	48.16
2/27/2017	3:32:56 AM	49.83
2/27/2017	3:26:55 AM	51.11
2/27/2017	3:20:56 AM	52.01
2/27/2017	3:14:56 AM	52.2
2/27/2017	3:08:56 AM	51.69
2/27/2017	3:02:56 AM	51.18
2/27/2017	2:56:56 AM	50.82
2/27/2017	2:50:55 AM	50.57
2/27/2017	2:44:56 AM	50.34
2/27/2017	2:38:56 AM	49.93
2/27/2017	2:32:56 AM	48.87
2/27/2017	2:26:55 AM	46.98
2/27/2017	2:20:56 AM	45.18
2/27/2017	2:14:56 AM	43.68
2/27/2017	2:08:55 AM	42.78
2/27/2017	2:02:56 AM	42.49
2/27/2017	1:56:56 AM	42.75
2/27/2017	1:50:55 AM	43.32
2/27/2017	1:44:55 AM	43.13
2/27/2017	1:38:56 AM	42.43
2/27/2017	1:32:56 AM	42.27
2/27/2017	1:26:56 AM	42.72
2/27/2017	1:20:56 AM	43.58

2/27/2017	1:14:55 AM	44.29
2/27/2017	1:08:56 AM	44.57
2/27/2017	1:02:56 AM	44.29
2/27/2017	12:56:55 AM	43.74
2/27/2017	12:50:56 AM	43.55
2/27/2017	12:44:56 AM	43.9
2/27/2017	12:38:56 AM	44.7
2/27/2017	12:32:56 AM	45.66
2/27/2017	12:26:55 AM	46.27
2/27/2017	12:20:55 AM	46.24
2/27/2017	12:14:55 AM	45.76
2/27/2017	12:02:56 AM	45.31
2/26/2017	11:56:56 PM	45.86
2/26/2017	11:50:55 PM	46.63
2/26/2017	11:44:56 PM	47.01
2/26/2017	11:38:56 PM	46.75
2/26/2017	11:32:56 PM	46.02
2/26/2017	11:26:56 PM	45.31
2/26/2017	11:20:55 PM	45.22
2/26/2017	11:14:56 PM	45.63
2/26/2017	11:08:56 PM	46.34
2/26/2017	11:02:56 PM	46.75

Jacobson

Analysis: Unit was not flowing during the event and did not display any AOCs.

20170227 Morning S.P.: 270
 20170227 Night S.P.: 270
 20170310 S.P.: 270

FQIT-1000			PT-1200		
Date	Time	Flowrate (bbl/d)	Date	Time	Pressure (psig)
	MAX:	1812.70		MAX:	83.01
	MIN:	0.00		MIN:	-5.14
	AVG:	1755.87		AVG:	16.11
2/27/2017	8:14:55 AM	0	2/27/2017	7:08:55 PM	-3.43
2/27/2017	8:08:55 AM	1,794.10	2/27/2017	6:56:55 PM	-3.67
2/27/2017	8:02:55 AM	1,806.90	2/27/2017	6:44:55 PM	-3.92
2/27/2017	7:56:55 AM	1,799.60	2/27/2017	6:38:55 PM	-3.67
2/27/2017	7:50:55 AM	1,794.00	2/27/2017	6:26:55 PM	-3.43
2/27/2017	7:44:55 AM	1,803.40	2/27/2017	6:14:55 PM	-3.18
2/27/2017	7:38:55 AM	1,791.10	2/27/2017	6:02:55 PM	-2.94
2/27/2017	7:32:55 AM	1,791.40	2/27/2017	5:56:55 PM	-2.69
2/27/2017	7:26:55 AM	1,791.80	2/27/2017	5:44:55 PM	-2.45
2/27/2017	7:20:55 AM	1,796.90	2/27/2017	5:26:55 PM	-2.2
2/27/2017	7:14:55 AM	1,797.40	2/27/2017	5:20:55 PM	-1.96
2/27/2017	7:08:55 AM	1,781.20	2/27/2017	5:14:55 PM	-1.71
2/27/2017	7:02:55 AM	1,795.70	2/27/2017	5:08:55 PM	-1.47
2/27/2017	6:56:55 AM	1,808.60	2/27/2017	5:02:55 PM	-1.22
2/27/2017	6:50:55 AM	1,789.60	2/27/2017	4:56:55 PM	-0.73
2/27/2017	6:44:55 AM	1,788.50	2/27/2017	4:50:55 PM	-0.49
2/27/2017	6:38:55 AM	1,803.60	2/27/2017	4:44:55 PM	0
2/27/2017	6:32:55 AM	1,786.70	2/27/2017	4:38:55 PM	0.49
2/27/2017	6:26:55 AM	1,797.10	2/27/2017	4:32:55 PM	0.98
2/27/2017	6:20:55 AM	1,788.40	2/27/2017	4:26:55 PM	1.96
2/27/2017	6:14:55 AM	1,799.10	2/27/2017	4:20:55 PM	2.69
2/27/2017	6:08:55 AM	1,800.60	2/27/2017	4:14:55 PM	3.67
2/27/2017	6:02:55 AM	1,791.40	2/27/2017	4:08:55 PM	4.16
2/27/2017	5:56:55 AM	1,795.90	2/27/2017	4:02:55 PM	4.65
2/27/2017	5:50:55 AM	1,792.40	2/27/2017	3:56:55 PM	4.9
2/27/2017	5:44:55 AM	1,796.20	2/27/2017	3:50:55 PM	5.39
2/27/2017	5:38:55 AM	1,805.80	2/27/2017	3:44:55 PM	6.12
2/27/2017	5:32:55 AM	1,801.30	2/27/2017	3:38:55 PM	7.35
2/27/2017	5:26:55 AM	1,800.90	2/27/2017	3:32:55 PM	8.33
2/27/2017	5:20:55 AM	1,796.30	2/27/2017	3:26:55 PM	9.31
2/27/2017	5:14:55 AM	1,794.60	2/27/2017	3:20:55 PM	9.79
2/27/2017	5:08:55 AM	1,802.40	2/27/2017	3:14:55 PM	9.55
2/27/2017	5:02:55 AM	1,802.10	2/27/2017	3:08:55 PM	9.31
2/27/2017	4:56:55 AM	1,800.00	2/27/2017	3:02:55 PM	8.57
2/27/2017	4:50:55 AM	1,799.70	2/27/2017	2:56:55 PM	6.86
2/27/2017	4:44:55 AM	1,792.80	2/27/2017	2:50:55 PM	5.39
2/27/2017	4:38:55 AM	1,802.20	2/27/2017	2:44:55 PM	3.92
2/27/2017	4:32:55 AM	1,788.80	2/27/2017	2:38:55 PM	2.69
2/27/2017	4:26:55 AM	1,796.00	2/27/2017	2:32:55 PM	1.71
2/27/2017	4:20:55 AM	1,797.30	2/27/2017	2:26:55 PM	1.22
2/27/2017	4:14:55 AM	1,796.50	2/27/2017	2:20:55 PM	0.73
2/27/2017	4:08:55 AM	1,790.70	2/27/2017	2:14:55 PM	0.49
2/27/2017	4:02:55 AM	1,796.70	2/27/2017	2:08:55 PM	0.73
2/27/2017	3:56:55 AM	1,812.70	2/27/2017	1:38:55 PM	1.22

2/27/2017	1:32:55 PM	1.47
2/27/2017	1:20:55 PM	1.71
2/27/2017	1:14:55 PM	-2.2
2/27/2017	1:08:55 PM	-1.96
2/27/2017	12:44:55 PM	-2.2
2/27/2017	12:32:55 PM	-1.96
2/27/2017	12:26:55 PM	-1.71
2/27/2017	12:14:55 PM	-1.47
2/27/2017	12:08:55 PM	-1.22
2/27/2017	11:56:55 AM	-0.98
2/27/2017	11:44:55 AM	-0.73
2/27/2017	11:38:55 AM	-0.98
2/27/2017	11:20:55 AM	-0.73
2/27/2017	11:14:55 AM	-0.49
2/27/2017	11:08:55 AM	-0.24
2/27/2017	10:56:55 AM	0
2/27/2017	10:44:55 AM	-0.49
2/27/2017	10:38:55 AM	-0.98
2/27/2017	10:32:55 AM	-1.22
2/27/2017	10:26:55 AM	-1.71
2/27/2017	10:20:55 AM	-2.45
2/27/2017	10:14:55 AM	-2.94
2/27/2017	10:08:55 AM	-3.43
2/27/2017	10:02:55 AM	-3.67
2/27/2017	9:56:55 AM	-4.16
2/27/2017	9:26:55 AM	-4.41
2/27/2017	9:08:55 AM	-4.16
2/27/2017	9:02:55 AM	-4.41
2/27/2017	8:56:55 AM	-4.16
2/27/2017	8:50:55 AM	-3.92
2/27/2017	8:44:55 AM	-3.67
2/27/2017	8:38:55 AM	-2.94
2/27/2017	8:32:55 AM	-2.45
2/27/2017	8:26:55 AM	-1.47
2/27/2017	8:20:55 AM	0.49
2/27/2017	8:14:55 AM	1.71
2/27/2017	8:08:55 AM	82.03
2/27/2017	7:50:55 AM	82.28
2/27/2017	7:26:55 AM	82.52
2/27/2017	7:20:55 AM	83.01
2/27/2017	7:14:55 AM	82.77
2/27/2017	7:08:55 AM	82.52
2/27/2017	7:02:55 AM	82.28
2/27/2017	6:50:55 AM	82.03
2/27/2017	6:44:55 AM	81.79
2/27/2017	6:38:55 AM	81.54
2/27/2017	6:32:55 AM	80.56
2/27/2017	6:26:55 AM	80.81
2/27/2017	6:20:55 AM	80.56
2/27/2017	6:02:55 AM	80.32
2/27/2017	5:44:55 AM	80.56
2/27/2017	5:26:55 AM	80.81
2/27/2017	5:20:55 AM	81.54
2/27/2017	5:08:55 AM	81.3
2/27/2017	4:56:55 AM	81.05
2/27/2017	4:44:55 AM	81.3
2/27/2017	4:38:55 AM	81.54
2/27/2017	4:32:55 AM	81.3
2/27/2017	4:20:55 AM	81.54
2/27/2017	4:14:55 AM	81.3
2/27/2017	4:08:55 AM	81.05

2/27/2017	4:02:55 AM	81.3
2/27/2017	3:56:55 AM	81.79
2/27/2017	3:26:55 AM	-4.9
2/27/2017	3:20:55 AM	-4.65
2/27/2017	3:14:55 AM	-4.9
2/27/2017	3:02:55 AM	-4.65
2/27/2017	2:56:55 AM	-4.9
2/27/2017	2:38:55 AM	-4.65
2/27/2017	2:20:55 AM	-4.41
2/27/2017	2:02:55 AM	-4.16
2/27/2017	1:38:55 AM	-3.92
2/27/2017	1:32:55 AM	-4.16
2/27/2017	1:26:55 AM	-4.41
2/27/2017	1:08:55 AM	-4.65
2/27/2017	1:02:55 AM	-4.9
2/27/2017	12:56:55 AM	-4.65
2/27/2017	12:50:55 AM	-4.9
2/27/2017	12:44:55 AM	-4.65
2/27/2017	12:38:55 AM	-5.14
2/27/2017	12:32:55 AM	-4.9
2/26/2017	11:56:55 PM	-5.14
2/26/2017	11:32:55 PM	-4.9
2/26/2017	11:26:55 PM	-4.65
2/26/2017	11:14:55 PM	-4.41
2/26/2017	11:08:55 PM	-4.16
2/26/2017	11:02:55 PM	-3.67

Lee

Analysis: Unit was not flowing during the event and did not display any AOCs.

			20170227 Morning S.P.:			235
			20170227 Night S.P.:			235
			20170310 S.P.:			235
FQIT-1000			PT-1200			
Date	Time	Flowrate (bbl/d)	Date	Time	Pressure (psig)	
	MAX:	1680.00		MAX:	103.09	
	MIN:	0.00		MIN:	3.43	
	AVG:	840.00		AVG:	32.89	
2/27/2017	7:14:55 PM	1680	2/27/2017	7:14:55 PM	101.62	
2/27/2017	12:56:54 AM	0.00	2/27/2017	7:08:55 PM	3.43	
			2/27/2017	7:02:55 PM	4.16	
			2/27/2017	6:56:55 PM	4.41	
			2/27/2017	6:50:55 PM	4.9	
			2/27/2017	6:44:55 PM	5.14	
			2/27/2017	6:38:55 PM	5.63	
			2/27/2017	6:32:55 PM	7.1	
			2/27/2017	6:26:55 PM	8.08	
			2/27/2017	6:20:55 PM	9.06	
			2/27/2017	6:14:55 PM	10.04	
			2/27/2017	6:08:55 PM	11.75	
			2/27/2017	6:02:55 PM	13.22	
			2/27/2017	5:56:55 PM	14.94	
			2/27/2017	5:50:55 PM	16.65	
			2/27/2017	5:44:55 PM	18.37	
			2/27/2017	5:38:55 PM	20.08	
			2/27/2017	5:32:55 PM	21.06	
			2/27/2017	5:26:55 PM	22.04	
			2/27/2017	5:20:55 PM	22.77	
			2/27/2017	5:14:55 PM	23.51	
			2/27/2017	5:08:55 PM	24.49	
			2/27/2017	5:02:55 PM	25.71	
			2/27/2017	4:56:55 PM	27.18	
			2/27/2017	4:50:55 PM	28.41	
			2/27/2017	4:44:55 PM	29.63	
			2/27/2017	4:38:55 PM	30.85	
			2/27/2017	4:32:55 PM	32.32	
			2/27/2017	4:26:55 PM	33.3	
			2/27/2017	4:20:55 PM	33.79	
			2/27/2017	4:14:55 PM	34.04	
			2/27/2017	4:08:55 PM	34.77	
			2/27/2017	4:02:55 PM	34.04	
			2/27/2017	3:56:55 PM	33.55	
			2/27/2017	3:50:55 PM	31.59	
			2/27/2017	3:44:55 PM	29.87	
			2/27/2017	3:38:55 PM	29.63	
			2/27/2017	3:32:55 PM	29.87	
			2/27/2017	3:26:55 PM	30.61	
			2/27/2017	3:20:55 PM	31.59	
			2/27/2017	3:14:55 PM	32.32	
			2/27/2017	3:08:55 PM	32.81	
			2/27/2017	3:02:55 PM	33.3	
			2/27/2017	2:56:55 PM	34.04	

2/27/2017	2:50:55 PM	34.53
2/27/2017	2:44:55 PM	34.77
2/27/2017	2:38:55 PM	34.28
2/27/2017	2:32:55 PM	33.55
2/27/2017	2:26:55 PM	32.81
2/27/2017	2:20:55 PM	32.57
2/27/2017	2:14:55 PM	32.81
2/27/2017	2:08:55 PM	33.06
2/27/2017	2:02:55 PM	33.55
2/27/2017	1:50:55 PM	33.79
2/27/2017	1:44:55 PM	33.55
2/27/2017	1:38:55 PM	33.3
2/27/2017	1:32:55 PM	32.32
2/27/2017	1:26:55 PM	31.34
2/27/2017	1:20:55 PM	30.85
2/27/2017	1:14:55 PM	31.1
2/27/2017	1:08:55 PM	32.08
2/27/2017	1:02:55 PM	33.06
2/27/2017	12:56:55 PM	33.79
2/27/2017	12:50:55 PM	34.04
2/27/2017	12:32:55 PM	34.53
2/27/2017	12:26:55 PM	33.79
2/27/2017	12:20:55 PM	32.81
2/27/2017	12:14:55 PM	32.08
2/27/2017	12:08:55 PM	31.83
2/27/2017	12:02:55 PM	32.32
2/27/2017	11:56:55 AM	32.81
2/27/2017	11:50:55 AM	33.3
2/27/2017	11:44:55 AM	33.79
2/27/2017	11:38:55 AM	34.28
2/27/2017	11:20:55 AM	34.77
2/27/2017	11:14:55 AM	35.02
2/27/2017	11:08:55 AM	35.26
2/27/2017	10:56:55 AM	34.28
2/27/2017	10:50:55 AM	33.55
2/27/2017	10:44:55 AM	31.59
2/27/2017	10:38:55 AM	29.63
2/27/2017	10:32:55 AM	28.16
2/27/2017	10:26:55 AM	27.43
2/27/2017	10:20:55 AM	26.45
2/27/2017	10:14:55 AM	26.94
2/27/2017	10:08:55 AM	27.43
2/27/2017	10:02:55 AM	27.92
2/27/2017	9:50:55 AM	28.16
2/27/2017	9:44:55 AM	27.92
2/27/2017	9:38:55 AM	26.94
2/27/2017	9:32:55 AM	26.2
2/27/2017	9:26:55 AM	25.71
2/27/2017	9:20:55 AM	25.22
2/27/2017	9:14:55 AM	25.47
2/27/2017	9:08:55 AM	26.2
2/27/2017	9:02:55 AM	26.69
2/27/2017	8:56:55 AM	27.43
2/27/2017	8:44:55 AM	27.92
2/27/2017	8:38:55 AM	27.43
2/27/2017	8:32:55 AM	26.94
2/27/2017	8:26:55 AM	26.2
2/27/2017	8:20:55 AM	25.96
2/27/2017	8:14:55 AM	26.2
2/27/2017	8:08:55 AM	26.69
2/27/2017	8:02:55 AM	27.92

2/27/2017	7:56:55 AM	28.9
2/27/2017	7:50:55 AM	29.38
2/27/2017	7:44:55 AM	30.36
2/27/2017	7:38:55 AM	30.12
2/27/2017	7:32:55 AM	29.87
2/27/2017	7:26:55 AM	29.38
2/27/2017	7:14:55 AM	29.14
2/27/2017	7:08:55 AM	30.12
2/27/2017	7:02:55 AM	31.34
2/27/2017	6:56:55 AM	32.32
2/27/2017	6:50:55 AM	33.3
2/27/2017	6:44:55 AM	34.04
2/27/2017	6:38:55 AM	34.53
2/27/2017	6:14:55 AM	35.02
2/27/2017	6:08:55 AM	34.77
2/27/2017	6:02:55 AM	33.55
2/27/2017	5:56:55 AM	33.06
2/27/2017	5:50:55 AM	31.83
2/27/2017	5:44:55 AM	32.32
2/27/2017	5:38:55 AM	32.57
2/27/2017	5:32:55 AM	31.83
2/27/2017	5:26:55 AM	31.1
2/27/2017	5:20:55 AM	30.61
2/27/2017	5:14:55 AM	30.36
2/27/2017	5:08:55 AM	30.85
2/27/2017	5:02:55 AM	31.83
2/27/2017	4:56:55 AM	32.81
2/27/2017	4:50:55 AM	33.55
2/27/2017	4:38:55 AM	34.04
2/27/2017	4:32:55 AM	33.79
2/27/2017	4:26:55 AM	33.06
2/27/2017	4:20:55 AM	32.32
2/27/2017	4:14:55 AM	31.83
2/27/2017	4:08:55 AM	32.08
2/27/2017	4:02:55 AM	32.57
2/27/2017	3:56:55 AM	33.3
2/27/2017	3:50:55 AM	33.55
2/27/2017	3:44:55 AM	34.04
2/27/2017	3:38:55 AM	34.53
2/27/2017	3:32:55 AM	34.77
2/27/2017	3:20:55 AM	34.53
2/27/2017	3:14:55 AM	33.79
2/27/2017	3:08:55 AM	33.06
2/27/2017	3:02:55 AM	33.3
2/27/2017	2:50:55 AM	33.55
2/27/2017	2:44:55 AM	33.79
2/27/2017	2:38:55 AM	34.04
2/27/2017	2:32:55 AM	34.53
2/27/2017	2:20:55 AM	34.28
2/27/2017	2:14:55 AM	34.04
2/27/2017	1:44:55 AM	33.55
2/27/2017	1:32:55 AM	33.79
2/27/2017	1:26:55 AM	34.28
2/27/2017	1:20:55 AM	34.04
2/27/2017	1:14:55 AM	34.28
2/27/2017	1:08:55 AM	32.81
2/27/2017	1:02:55 AM	22.28
2/27/2017	12:56:55 AM	13.22
2/27/2017	12:50:55 AM	103.09
2/27/2017	12:44:55 AM	102.85
2/27/2017	12:38:55 AM	102.6

2/27/2017	12:32:55 AM	102.85
2/27/2017	12:26:55 AM	103.09
2/27/2017	12:14:55 AM	102.85
2/27/2017	12:08:55 AM	102.36
2/27/2017	12:02:55 AM	101.38

Monson

Unit was flowing during the event and did have the wrong set point in for the PAHH on the discharge of the pump. The unit appears to have shut down correctly on the set point entered in for PAHH. The set point was rectified on 02/27/2017 ~ 10 PM CST

20170227 Morning S.P.: 390
20170227 Night S.P.: 315
20170310 S.P.: 315

FT-100			PT-110		
Date	Time	Flowrate (bbl/d)	Date	Time	Pressure (psig)
	MAX:	1911.68		MAX:	380.07
	MIN:	0.00		MIN:	1.68
	AVG:	1647.54		AVG:	25.51
2/27/2017	1:20:55 PM	0	2/27/2017	7:14:55 PM	2.07
2/27/2017	1:14:55 PM	1897.269	2/27/2017	7:02:55 PM	2.04
2/27/2017	1:08:55 PM	1860.261	2/27/2017	6:56:55 PM	2.02
2/27/2017	1:02:55 PM	1765.159	2/27/2017	6:44:55 PM	2.07
2/27/2017	4:26:55 AM	0	2/27/2017	6:38:55 PM	2.11
2/27/2017	4:20:55 AM	1909.546	2/27/2017	6:32:55 PM	2.14
2/27/2017	4:14:55 AM	1872.561	2/27/2017	6:26:55 PM	2.11
2/27/2017	4:08:55 AM	1773.557	2/27/2017	6:20:55 PM	2.09
2/27/2017	4:02:55 AM	1748.468	2/27/2017	6:08:55 PM	2.07
2/27/2017	3:56:55 AM	1645.117	2/27/2017	6:02:55 PM	2.09
2/27/2017	3:50:55 AM	1793.869	2/27/2017	5:56:55 PM	2.11
2/27/2017	3:44:55 AM	1668.079	2/27/2017	5:50:55 PM	2.16
2/27/2017	3:38:55 AM	1817.512	2/27/2017	5:38:55 PM	2.19
2/27/2017	3:32:55 AM	1801.054	2/27/2017	5:32:55 PM	2.14
2/27/2017	3:26:55 AM	1817.704	2/27/2017	5:26:55 PM	2.11
2/27/2017	3:20:55 AM	1727.179	2/27/2017	5:20:55 PM	2.07
2/27/2017	3:14:55 AM	1694.413	2/27/2017	5:14:55 PM	2.04
2/27/2017	3:08:55 AM	1911.68	2/27/2017	5:02:55 PM	2.02
2/27/2017	3:02:55 AM	1783.429	2/27/2017	4:56:55 PM	1.99
2/27/2017	2:56:55 AM	1856.594	2/27/2017	4:50:55 PM	1.97
2/27/2017	2:50:55 AM	1692.01	2/27/2017	4:44:55 PM	1.9
2/27/2017	2:44:55 AM	1787.652	2/27/2017	4:38:55 PM	1.85
2/27/2017	2:38:55 AM	1874.907	2/27/2017	4:32:55 PM	1.83
2/27/2017	2:32:55 AM	1842.968	2/27/2017	4:26:55 PM	1.8
			2/27/2017	4:08:55 PM	1.78
			2/27/2017	4:02:55 PM	1.73
			2/27/2017	3:44:55 PM	1.71
			2/27/2017	3:38:55 PM	1.73
			2/27/2017	3:32:55 PM	1.75
			2/27/2017	3:26:55 PM	1.78
			2/27/2017	3:14:55 PM	1.73
			2/27/2017	3:08:55 PM	1.71
			2/27/2017	3:02:55 PM	1.68
			2/27/2017	2:56:55 PM	1.71
			2/27/2017	2:50:55 PM	1.75
			2/27/2017	2:44:55 PM	1.78
			2/27/2017	2:38:55 PM	1.85
			2/27/2017	2:20:55 PM	1.87
			2/27/2017	2:14:55 PM	1.9
			2/27/2017	2:08:55 PM	1.95
			2/27/2017	2:02:55 PM	2.02
			2/27/2017	1:56:55 PM	2.14
			2/27/2017	1:50:55 PM	2.36
			2/27/2017	1:44:55 PM	2.57

2/27/2017	1:38:55 PM	2.86
2/27/2017	1:32:55 PM	3.46
2/27/2017	1:26:55 PM	4.4
2/27/2017	1:20:55 PM	2.88
2/27/2017	1:14:55 PM	374.49
2/27/2017	1:08:55 PM	349.38
2/27/2017	1:02:55 PM	380.07
2/27/2017	12:56:55 PM	122.81
2/27/2017	12:50:55 PM	125.05
2/27/2017	12:44:55 PM	128.36
2/27/2017	12:38:55 PM	131.8
2/27/2017	12:32:55 PM	131.2
2/27/2017	12:26:55 PM	124.59
2/27/2017	12:20:55 PM	120.82
2/27/2017	12:14:55 PM	113.49
2/27/2017	12:08:55 PM	96.57
2/27/2017	12:02:55 PM	80.58
2/27/2017	11:56:55 AM	67.92
2/27/2017	11:50:55 AM	58.83
2/27/2017	11:44:55 AM	53.16
2/27/2017	11:38:55 AM	47.61
2/27/2017	11:32:56 AM	41
2/27/2017	11:26:55 AM	32.49
2/27/2017	11:20:55 AM	24.2
2/27/2017	11:14:55 AM	18.53
2/27/2017	11:08:55 AM	14.9
2/27/2017	11:02:55 AM	13.17
2/27/2017	10:56:55 AM	12.98
2/27/2017	10:50:55 AM	14.56
2/27/2017	10:44:55 AM	17.52
2/27/2017	10:38:55 AM	19.64
2/27/2017	10:32:55 AM	19.32
2/27/2017	10:26:55 AM	16.22
2/27/2017	10:20:55 AM	14.16
2/27/2017	10:14:56 AM	12.11
2/27/2017	10:08:56 AM	11.46
2/27/2017	10:02:56 AM	12.21
2/27/2017	9:56:56 AM	14.2
2/27/2017	9:50:56 AM	16.37
2/27/2017	9:44:55 AM	16.99
2/27/2017	9:38:55 AM	15.69
2/27/2017	9:32:55 AM	13.6
2/27/2017	9:26:55 AM	12.31
2/27/2017	9:20:55 AM	12.06
2/27/2017	9:14:55 AM	12.67
2/27/2017	9:08:55 AM	18.19
2/27/2017	9:02:55 AM	18.77
2/27/2017	8:56:55 AM	18.48
2/27/2017	8:50:55 AM	18.46
2/27/2017	8:44:55 AM	18.94
2/27/2017	8:38:56 AM	19.47
2/27/2017	8:32:55 AM	19.52
2/27/2017	8:26:55 AM	19.54
2/27/2017	8:20:55 AM	19.61
2/27/2017	8:14:55 AM	19.83
2/27/2017	8:08:55 AM	19.95
2/27/2017	8:02:55 AM	19.83
2/27/2017	7:56:55 AM	19.52
2/27/2017	7:50:55 AM	19.56
2/27/2017	7:44:56 AM	19.59
2/27/2017	7:38:56 AM	19.61

2/27/2017	7:32:55 AM	19.78
2/27/2017	7:26:55 AM	20.07
2/27/2017	7:20:55 AM	20.04
2/27/2017	7:14:56 AM	18.24
2/27/2017	7:08:55 AM	21.17
2/27/2017	6:56:55 AM	21.22
2/27/2017	6:50:55 AM	21.32
2/27/2017	6:44:56 AM	21.37
2/27/2017	6:38:56 AM	21.15
2/27/2017	6:32:55 AM	20.81
2/27/2017	6:26:55 AM	16.39
2/27/2017	6:20:55 AM	23.55
2/27/2017	6:08:55 AM	23.46
2/27/2017	6:02:55 AM	23.38
2/27/2017	5:56:56 AM	23.24
2/27/2017	5:50:56 AM	23.29
2/27/2017	5:44:55 AM	23.46
2/27/2017	5:38:55 AM	23.67
2/27/2017	5:32:55 AM	23.65
2/27/2017	5:26:56 AM	23.75
2/27/2017	5:20:56 AM	21.82
2/27/2017	5:14:55 AM	22.01
2/27/2017	5:08:55 AM	22.18
2/27/2017	5:02:56 AM	22.01
2/27/2017	4:56:55 AM	22.06
2/27/2017	4:50:55 AM	20.64
2/27/2017	4:44:55 AM	20.5
2/27/2017	4:38:55 AM	20.57
2/27/2017	4:32:55 AM	11.1
2/27/2017	4:26:55 AM	3.05
2/27/2017	4:20:55 AM	22.38
2/27/2017	4:14:56 AM	22.45
2/27/2017	4:08:55 AM	22.66
2/27/2017	4:02:56 AM	22.59
2/27/2017	3:56:56 AM	22.45
2/27/2017	3:50:55 AM	21.94
2/27/2017	3:44:55 AM	22.33
2/27/2017	3:38:55 AM	21.92
2/27/2017	3:32:56 AM	22.13
2/27/2017	3:26:55 AM	22.04
2/27/2017	3:20:55 AM	22.26
2/27/2017	3:14:55 AM	22.13
2/27/2017	3:08:56 AM	21.77
2/27/2017	3:02:55 AM	20.77
2/27/2017	2:56:56 AM	24.23
2/27/2017	2:50:56 AM	24.71
2/27/2017	2:44:56 AM	24.61
2/27/2017	2:32:56 AM	24.63
2/27/2017	2:26:56 AM	19.52
2/27/2017	2:20:56 AM	21.89
2/27/2017	2:14:55 AM	22.06
2/27/2017	2:08:56 AM	21.53
2/27/2017	2:02:55 AM	19.49
2/27/2017	1:56:55 AM	16.8
2/27/2017	1:50:55 AM	13.99
2/27/2017	1:44:56 AM	11.03
2/27/2017	1:38:55 AM	8.39
2/27/2017	1:32:55 AM	6.71
2/27/2017	1:26:55 AM	5.82
2/27/2017	1:20:56 AM	5.58
2/27/2017	1:14:55 AM	5.98

2/27/2017	1:08:56 AM	6.78
2/27/2017	1:02:55 AM	7.71
2/27/2017	12:56:55 AM	8.22
2/27/2017	12:44:55 AM	8.32
2/27/2017	12:38:55 AM	8.22
2/27/2017	12:32:55 AM	8.39
2/27/2017	12:26:56 AM	8.92
2/27/2017	12:20:56 AM	9.45
2/27/2017	12:14:55 AM	9.95
2/27/2017	12:08:55 AM	10.45
2/27/2017	12:02:56 AM	11.27
2/26/2017	11:56:55 PM	12.43
2/26/2017	11:50:55 PM	14.06
2/26/2017	11:44:55 PM	15.74
2/26/2017	11:38:55 PM	16.39
2/26/2017	11:32:56 PM	15.84
2/26/2017	11:26:55 PM	14.71
2/26/2017	11:20:55 PM	13.27
2/26/2017	11:14:56 PM	12.43
2/26/2017	11:08:56 PM	13.12
2/26/2017	11:02:55 PM	14.88

Nygaard

Analysis: Unit was not flowing during the event and did not display any AOCs.

20170227 Morning S.P.: 390

20170227 Night S.P.: 390

20170310 S.P.: 390

FT-100			PT-110		
Date	Time	Flowrate (bbl/d)	Date	Time	Pressure (psig)
	MAX:	0.00		MAX:	65.42
	MIN:	0.00		MIN:	0.00
	AVG:	0.00		AVG:	16.38
2/27/2017	6:20:49 PM	0	2/27/2017	7:14:49 PM	6.25
2/27/2017	2:14:49 AM	0	2/27/2017	7:08:49 PM	6.18
			2/27/2017	7:02:49 PM	6.15
			2/27/2017	6:56:49 PM	6.1
			2/27/2017	6:50:49 PM	5.94
			2/27/2017	6:44:49 PM	5.67
			2/27/2017	6:38:49 PM	5.38
			2/27/2017	6:32:49 PM	5.14
			2/27/2017	6:26:49 PM	4.95
			2/27/2017	6:20:49 PM	4.76
			2/27/2017	6:14:49 PM	4.59
			2/27/2017	6:08:49 PM	4.47
			2/27/2017	6:02:49 PM	4.37
			2/27/2017	5:56:49 PM	4.21
			2/27/2017	5:50:49 PM	3.99
			2/27/2017	5:44:49 PM	3.75
			2/27/2017	5:38:49 PM	3.51
			2/27/2017	5:32:49 PM	3.32
			2/27/2017	5:26:49 PM	3.12
			2/27/2017	5:20:49 PM	2.98
			2/27/2017	5:14:49 PM	2.84
			2/27/2017	5:08:49 PM	2.64
			2/27/2017	5:02:49 PM	2.43
			2/27/2017	4:56:49 PM	2.19
			2/27/2017	4:50:49 PM	1.95
			2/27/2017	4:44:49 PM	1.71
			2/27/2017	4:38:49 PM	1.51
			2/27/2017	4:32:50 PM	1.3
			2/27/2017	4:26:50 PM	1.11
			2/27/2017	4:20:50 PM	0.94
			2/27/2017	4:14:50 PM	0.77
			2/27/2017	3:44:49 PM	0.72
			2/27/2017	3:38:49 PM	0.7
			2/27/2017	3:32:49 PM	0.72
			2/27/2017	3:26:49 PM	0.77
			2/27/2017	3:20:49 PM	0.79
			2/27/2017	3:14:49 PM	0.82
			2/27/2017	3:02:49 PM	0.87
			2/27/2017	2:50:49 PM	0.89
			2/27/2017	2:38:49 PM	0.84
			2/27/2017	2:26:49 PM	0.82
			2/27/2017	2:14:49 PM	0.77
			2/27/2017	2:02:49 PM	0.75
			2/27/2017	1:56:49 PM	0.72

2/27/2017	1:50:49 PM	0.7
2/27/2017	1:44:49 PM	0.67
2/27/2017	1:38:49 PM	0.62
2/27/2017	1:32:49 PM	0.6
2/27/2017	1:26:49 PM	0.53
2/27/2017	1:20:49 PM	0.48
2/27/2017	1:14:49 PM	0.43
2/27/2017	1:08:49 PM	0.38
2/27/2017	1:02:49 PM	0.34
2/27/2017	12:56:49 PM	0.29
2/27/2017	12:50:49 PM	0.24
2/27/2017	12:44:49 PM	0.17
2/27/2017	12:38:49 PM	0.12
2/27/2017	12:32:49 PM	0.1
2/27/2017	12:26:49 PM	0.07
2/27/2017	12:20:49 PM	0.05
2/27/2017	12:14:49 PM	0.02
2/27/2017	11:02:49 AM	0
2/27/2017	10:38:49 AM	0.02
2/27/2017	10:32:49 AM	0.05
2/27/2017	10:20:49 AM	0.02
2/27/2017	10:14:49 AM	0.05
2/27/2017	10:08:49 AM	0.02
2/27/2017	9:56:49 AM	0.05
2/27/2017	9:14:49 AM	0.07
2/27/2017	9:08:49 AM	0.1
2/27/2017	8:50:49 AM	0.12
2/27/2017	8:38:49 AM	0.14
2/27/2017	8:32:49 AM	0.17
2/27/2017	8:26:49 AM	0.19
2/27/2017	8:20:49 AM	0.17
2/27/2017	8:02:49 AM	0.19
2/27/2017	7:56:49 AM	0.22
2/27/2017	7:44:49 AM	0.24
2/27/2017	7:38:49 AM	0.29
2/27/2017	7:32:49 AM	0.31
2/27/2017	7:26:49 AM	0.34
2/27/2017	7:20:49 AM	0.36
2/27/2017	7:14:49 AM	0.41
2/27/2017	7:08:49 AM	0.46
2/27/2017	7:02:49 AM	0.48
2/27/2017	6:56:49 AM	0.53
2/27/2017	6:50:49 AM	0.58
2/27/2017	6:44:49 AM	0.65
2/27/2017	6:38:49 AM	0.72
2/27/2017	6:32:49 AM	0.77
2/27/2017	6:26:49 AM	0.82
2/27/2017	6:20:49 AM	0.87
2/27/2017	6:14:49 AM	0.94
2/27/2017	6:08:49 AM	0.99
2/27/2017	6:02:49 AM	1.03
2/27/2017	5:56:49 AM	1.08
2/27/2017	5:50:49 AM	1.13
2/27/2017	5:44:49 AM	1.18
2/27/2017	5:38:49 AM	1.23
2/27/2017	5:32:49 AM	1.27
2/27/2017	5:20:49 AM	1.25
2/27/2017	5:08:49 AM	1.27
2/27/2017	5:02:49 AM	1.2
2/27/2017	4:56:49 AM	0.91
2/27/2017	4:50:49 AM	0.75

2/27/2017	4:44:49 AM	0
2/27/2017	4:38:49 AM	6.99
2/27/2017	4:32:49 AM	32.57
2/27/2017	4:26:49 AM	38.48
2/27/2017	4:20:49 AM	38.33
2/27/2017	4:14:49 AM	38.19
2/27/2017	4:08:49 AM	38.33
2/27/2017	4:02:49 AM	38.6
2/27/2017	3:56:49 AM	38.89
2/27/2017	3:50:49 AM	38.84
2/27/2017	3:44:49 AM	39.03
2/27/2017	3:38:49 AM	39.13
2/27/2017	3:32:49 AM	38.96
2/27/2017	3:26:49 AM	39.32
2/27/2017	3:20:49 AM	39.22
2/27/2017	3:14:49 AM	39.61
2/27/2017	3:08:49 AM	40.11
2/27/2017	3:02:49 AM	39.73
2/27/2017	2:56:49 AM	39.92
2/27/2017	2:50:49 AM	41.17
2/27/2017	2:44:49 AM	42.97
2/27/2017	2:38:49 AM	43.16
2/27/2017	2:32:49 AM	43.14
2/27/2017	2:26:49 AM	43.65
2/27/2017	2:20:49 AM	44.1
2/27/2017	2:14:49 AM	2.98
2/27/2017	2:08:49 AM	63.86
2/27/2017	2:02:49 AM	64.12
2/27/2017	1:56:49 AM	64.55
2/27/2017	1:50:49 AM	64.79
2/27/2017	1:44:49 AM	64.55
2/27/2017	1:38:49 AM	65.42
2/27/2017	1:32:49 AM	65.37
2/27/2017	1:26:49 AM	65.4
2/27/2017	1:20:49 AM	65.16
2/27/2017	1:14:49 AM	64.77
2/27/2017	1:08:49 AM	64.43
2/27/2017	1:02:49 AM	63.98
2/27/2017	12:56:49 AM	63.47
2/27/2017	12:50:49 AM	61.91
2/27/2017	12:44:49 AM	61.77
2/27/2017	12:38:49 AM	60.78
2/27/2017	12:32:49 AM	59.68
2/27/2017	12:26:49 AM	60.35
2/27/2017	12:20:49 AM	60.44
2/27/2017	12:14:49 AM	60.23
2/27/2017	12:08:49 AM	60.28
2/27/2017	12:02:49 AM	59.51
2/26/2017	11:56:49 PM	58.38
2/26/2017	11:50:49 PM	11.51
2/26/2017	11:44:49 PM	11.63
2/26/2017	11:38:49 PM	12.98
2/26/2017	11:32:49 PM	14.83
2/26/2017	11:26:49 PM	16.51
2/26/2017	11:20:49 PM	17.78
2/26/2017	11:14:49 PM	19.18
2/26/2017	11:08:49 PM	20.6
2/26/2017	11:02:49 PM	21.99

Olson

Unit was flowing at the time of the event and appears to have reached the correct set point of 315 and shut down as analyzed by the SCADA data. Increased pressures appear to be from a faulty check valves, this has been reported to Operations to inspect and clean (potentially paraffin buildup).

20170227 Morning S.P.: 315
20170227 Night S.P.: 315
20170310 S.P.: 315

FE-1100			PIT-1603B		
Date	Time	Flowrate (bbl/d)	Date	Time	Pressure (psig)
	MAX:	2525.30		MAX:	397.05
	MIN:	0.00		MIN:	-1.80
	AVG:	2078.43		AVG:	104.92
2/27/2017	11:14:46 AM	0	2/27/2017	7:20:46 PM	5.93
2/27/2017	11:08:46 AM	1,807.20	2/27/2017	7:14:46 PM	5.89
2/27/2017	11:02:46 AM	1,815.90	2/27/2017	7:08:46 PM	5.78
2/27/2017	10:56:46 AM	1,811.00	2/27/2017	7:02:46 PM	5.7
2/27/2017	10:50:46 AM	1,817.40	2/27/2017	6:56:46 PM	5.59
2/27/2017	10:44:47 AM	1,812.00	2/27/2017	6:50:46 PM	5.48
2/27/2017	10:38:47 AM	1,806.00	2/27/2017	6:44:46 PM	5.14
2/27/2017	10:32:46 AM	1,804.60	2/27/2017	6:38:46 PM	4.39
2/27/2017	10:26:46 AM	1,813.10	2/27/2017	6:32:46 PM	2.89
2/27/2017	10:20:47 AM	1,809.60	2/27/2017	6:26:46 PM	1.43
2/27/2017	10:14:47 AM	1,810.30	2/27/2017	6:20:46 PM	1.35
2/27/2017	10:08:46 AM	1,809.30	2/27/2017	6:14:46 PM	1.28
2/27/2017	10:02:47 AM	1,806.00	2/27/2017	6:08:46 PM	1.2
2/27/2017	9:56:47 AM	1,803.40	2/27/2017	6:02:46 PM	1.16
2/27/2017	9:50:47 AM	1,802.30	2/27/2017	5:56:46 PM	1.01
2/27/2017	9:44:47 AM	1,798.20	2/27/2017	5:50:46 PM	0.9
2/27/2017	9:38:47 AM	1,790.80	2/27/2017	5:44:46 PM	0.83
2/27/2017	9:32:47 AM	1,786.20	2/27/2017	5:38:46 PM	0.71
2/27/2017	9:26:47 AM	1,795.20	2/27/2017	5:32:46 PM	0.56
2/27/2017	9:20:47 AM	1,787.20	2/27/2017	5:26:46 PM	0.41
2/27/2017	9:14:47 AM	1,765.20	2/27/2017	5:20:46 PM	0.19
2/27/2017	9:08:47 AM	1,768.40	2/27/2017	5:14:46 PM	0.04
2/27/2017	9:02:47 AM	1,774.20	2/27/2017	5:08:46 PM	-0.6
2/27/2017	8:56:47 AM	1,761.50	2/27/2017	5:02:46 PM	-0.83
2/27/2017	8:50:47 AM	1,760.00	2/27/2017	4:56:46 PM	-1.01
2/27/2017	8:44:47 AM	1,764.70	2/27/2017	4:50:46 PM	-1.8
2/27/2017	8:38:47 AM	1,766.40	2/27/2017	4:44:46 PM	349.28
2/27/2017	8:32:47 AM	1,769.70	2/27/2017	4:38:46 PM	352.8
2/27/2017	8:26:47 AM	1,755.90	2/27/2017	4:32:46 PM	356.33
2/27/2017	8:20:47 AM	1,761.80	2/27/2017	4:26:46 PM	360.08
2/27/2017	8:14:47 AM	1,767.00	2/27/2017	4:20:46 PM	364.84
2/27/2017	8:08:47 AM	1,832.50	2/27/2017	4:14:46 PM	351.41
2/27/2017	8:02:47 AM	2,030.80	2/27/2017	4:08:46 PM	349.84
2/27/2017	7:56:47 AM	2,030.60	2/27/2017	4:02:46 PM	353.18
2/27/2017	7:50:47 AM	2,025.10	2/27/2017	3:56:46 PM	356.51
2/27/2017	7:44:47 AM	2,035.30	2/27/2017	3:50:46 PM	359.78
2/27/2017	7:38:47 AM	2,028.60	2/27/2017	3:44:46 PM	363.11
2/27/2017	7:32:47 AM	2,028.00	2/27/2017	3:38:46 PM	366.45
2/27/2017	7:26:47 AM	2,025.30	2/27/2017	3:32:46 PM	369.83
2/27/2017	7:20:47 AM	2,021.90	2/27/2017	3:26:46 PM	373.2
2/27/2017	7:14:47 AM	2,013.90	2/27/2017	3:20:46 PM	376.61
2/27/2017	7:08:47 AM	2,013.00	2/27/2017	3:14:46 PM	380.06
2/27/2017	7:02:47 AM	2,016.60	2/27/2017	3:08:46 PM	383.51
2/27/2017	6:56:47 AM	2,020.70	2/27/2017	3:02:46 PM	387

2/27/2017	6:50:47 AM	2,021.40	2/27/2017	2:56:46 PM	390.53
2/27/2017	6:44:47 AM	2,011.40	2/27/2017	2:50:46 PM	394.09
2/27/2017	6:38:47 AM	2,081.70	2/27/2017	2:44:46 PM	397.05
2/27/2017	6:32:47 AM	2,078.20	2/27/2017	2:38:46 PM	388.35
2/27/2017	6:26:47 AM	2,082.10	2/27/2017	2:32:47 PM	365.48
2/27/2017	6:20:47 AM	2,073.10	2/27/2017	2:26:46 PM	341.59
2/27/2017	6:14:47 AM	2,072.80	2/27/2017	2:20:47 PM	320.55
2/27/2017	6:08:47 AM	2,075.40	2/27/2017	2:14:46 PM	305.4
2/27/2017	6:02:47 AM	2,070.50	2/27/2017	2:08:46 PM	298.58
2/27/2017	5:56:47 AM	2,072.90	2/27/2017	2:02:46 PM	312.64
2/27/2017	5:50:47 AM	2,067.50	2/27/2017	1:56:46 PM	319.12
2/27/2017	5:44:47 AM	2,066.50	2/27/2017	1:50:46 PM	323.25
2/27/2017	5:38:47 AM	2,074.30	2/27/2017	1:44:46 PM	332.55
2/27/2017	5:32:47 AM	2,073.00	2/27/2017	1:38:46 PM	352.24
2/27/2017	5:26:47 AM	2,071.50	2/27/2017	1:32:46 PM	365.14
2/27/2017	5:20:47 AM	2,079.90	2/27/2017	1:26:46 PM	377.1
2/27/2017	5:14:47 AM	2,132.10	2/27/2017	1:20:46 PM	359.4
2/27/2017	5:08:47 AM	2,135.10	2/27/2017	1:14:46 PM	318.71
2/27/2017	5:02:47 AM	2,136.20	2/27/2017	1:08:46 PM	278.59
2/27/2017	4:56:47 AM	2,132.30	2/27/2017	1:02:46 PM	298.54
2/27/2017	4:50:47 AM	2,130.40	2/27/2017	12:56:46 PM	280.5
2/27/2017	4:44:47 AM	2,132.70	2/27/2017	12:50:46 PM	258.19
2/27/2017	4:38:47 AM	2,130.70	2/27/2017	12:44:46 PM	223.13
2/27/2017	4:32:47 AM	2,131.20	2/27/2017	12:38:46 PM	180.86
2/27/2017	4:26:47 AM	2,129.60	2/27/2017	12:32:46 PM	143.96
2/27/2017	4:20:47 AM	2,125.40	2/27/2017	12:26:46 PM	116.1
2/27/2017	4:14:47 AM	2,124.90	2/27/2017	12:20:46 PM	98.93
2/27/2017	4:08:47 AM	2,125.30	2/27/2017	12:14:46 PM	82.54
2/27/2017	4:02:47 AM	2,124.50	2/27/2017	12:08:46 PM	66.3
2/27/2017	3:56:47 AM	2,135.50	2/27/2017	12:02:46 PM	52.16
2/27/2017	3:50:47 AM	2,147.60	2/27/2017	11:56:46 AM	40.16
2/27/2017	3:44:47 AM	2,163.30	2/27/2017	11:50:46 AM	31.99
2/27/2017	3:38:47 AM	2,155.70	2/27/2017	11:44:46 AM	25.69
2/27/2017	3:32:47 AM	2,156.20	2/27/2017	11:38:46 AM	20.96
2/27/2017	3:26:47 AM	2,154.80	2/27/2017	11:32:46 AM	17.74
2/27/2017	3:20:47 AM	2,151.60	2/27/2017	11:26:46 AM	14.44
2/27/2017	3:14:47 AM	2,148.70	2/27/2017	11:20:46 AM	10.84
2/27/2017	3:08:47 AM	2,135.40	2/27/2017	11:14:46 AM	7.54
2/27/2017	3:02:47 AM	2,121.80	2/27/2017	11:08:46 AM	253.84
2/27/2017	2:56:47 AM	2,117.20	2/27/2017	11:02:46 AM	93.9
2/27/2017	2:50:47 AM	2,113.70	2/27/2017	10:56:46 AM	49.46
2/27/2017	2:44:47 AM	2,122.30	2/27/2017	10:50:46 AM	39.9
2/27/2017	2:38:47 AM	2,122.00	2/27/2017	10:44:47 AM	37.09
2/27/2017	2:32:47 AM	2,120.00	2/27/2017	10:38:47 AM	36.15
2/27/2017	2:26:47 AM	2,120.80	2/27/2017	10:32:46 AM	36
2/27/2017	2:20:47 AM	2,219.20	2/27/2017	10:26:46 AM	35.81
2/27/2017	2:14:47 AM	2,212.50	2/27/2017	10:14:47 AM	35.78
2/27/2017	2:08:47 AM	2,211.80	2/27/2017	10:08:46 AM	35.66
2/27/2017	2:02:47 AM	2,208.90	2/27/2017	10:02:47 AM	35.4
2/27/2017	1:56:47 AM	2,204.80	2/27/2017	9:56:47 AM	35.51
2/27/2017	1:50:47 AM	2,197.70	2/27/2017	9:50:47 AM	35.29
2/27/2017	1:44:47 AM	2,196.60	2/27/2017	9:44:47 AM	35.06
2/27/2017	1:38:47 AM	2,195.80	2/27/2017	9:38:47 AM	34.88
2/27/2017	1:32:47 AM	2,189.20	2/27/2017	9:32:47 AM	34.84
2/27/2017	1:26:47 AM	2,189.30	2/27/2017	9:26:47 AM	34.8
2/27/2017	1:20:47 AM	2,185.70	2/27/2017	9:20:47 AM	34.46
2/27/2017	1:14:47 AM	2,180.30	2/27/2017	9:14:47 AM	34.28
2/27/2017	1:08:47 AM	2,222.50	2/27/2017	9:08:47 AM	34.12
2/27/2017	1:02:47 AM	2,267.00	2/27/2017	9:02:47 AM	33.98
2/27/2017	12:56:47 AM	2,329.40	2/27/2017	8:56:47 AM	33.71
2/27/2017	12:50:47 AM	2,477.50	2/27/2017	8:50:47 AM	34.01

2/27/2017	12:44:47 AM	2,485.40	2/27/2017	8:44:47 AM	34.16
2/27/2017	12:38:47 AM	2,486.60	2/27/2017	8:38:47 AM	34.43
2/27/2017	12:32:47 AM	2,494.70	2/27/2017	8:32:47 AM	34.39
2/27/2017	12:26:47 AM	2,499.00	2/27/2017	8:20:47 AM	34.2
2/27/2017	12:20:47 AM	2,499.50	2/27/2017	8:14:47 AM	34.65
2/27/2017	12:14:47 AM	2,509.10	2/27/2017	8:08:47 AM	36.9
2/27/2017	12:08:47 AM	2,510.70	2/27/2017	8:02:47 AM	43.39
2/27/2017	12:02:47 AM	2,512.40	2/27/2017	7:56:47 AM	43.61
2/26/2017	11:56:47 PM	2,512.40	2/27/2017	7:50:47 AM	43.69
2/26/2017	11:50:47 PM	2,513.70	2/27/2017	7:44:47 AM	43.73
2/26/2017	11:44:47 PM	2,519.90	2/27/2017	7:38:47 AM	43.58
2/26/2017	11:38:47 PM	2,513.40	2/27/2017	7:32:47 AM	43.46
2/26/2017	11:32:47 PM	2,514.80	2/27/2017	7:26:47 AM	41.62
2/26/2017	11:26:47 PM	2,523.00	2/27/2017	7:20:47 AM	45.38
2/26/2017	11:20:47 PM	2,524.60	2/27/2017	7:14:47 AM	45.3
2/26/2017	11:14:47 PM	2,517.90	2/27/2017	7:08:47 AM	44.78
2/26/2017	11:08:47 PM	2,525.30	2/27/2017	7:02:47 AM	44.81
2/26/2017	11:02:47 PM	2,523.80	2/27/2017	6:56:47 AM	44.55
			2/27/2017	6:50:47 AM	44.21
			2/27/2017	6:44:47 AM	43.91
			2/27/2017	6:38:47 AM	45.9
			2/27/2017	6:32:47 AM	46.65
			2/27/2017	6:26:47 AM	44.85
			2/27/2017	6:20:47 AM	44.36
			2/27/2017	6:14:47 AM	44.03
			2/27/2017	5:56:47 AM	44.18
			2/27/2017	5:50:47 AM	44.1
			2/27/2017	5:44:47 AM	44.21
			2/27/2017	5:38:47 AM	44.59
			2/27/2017	5:32:47 AM	44.78
			2/27/2017	5:26:47 AM	44.51
			2/27/2017	5:20:47 AM	45.04
			2/27/2017	5:14:47 AM	47.44
			2/27/2017	5:08:47 AM	47.29
			2/27/2017	5:02:47 AM	47.25
			2/27/2017	4:56:47 AM	46.88
			2/27/2017	4:50:47 AM	47.21
			2/27/2017	4:44:47 AM	47.33
			2/27/2017	4:38:47 AM	46.99
			2/27/2017	4:32:47 AM	46.73
			2/27/2017	4:26:47 AM	45.45
			2/27/2017	4:20:47 AM	45.79
			2/27/2017	4:14:47 AM	45.9
			2/27/2017	4:08:47 AM	45.64
			2/27/2017	4:02:47 AM	45.79
			2/27/2017	3:56:47 AM	46.39
			2/27/2017	3:50:47 AM	46.76
			2/27/2017	3:44:47 AM	47.14
			2/27/2017	3:38:47 AM	47.06
			2/27/2017	3:32:47 AM	47.14
			2/27/2017	3:26:47 AM	47.21
			2/27/2017	3:20:47 AM	47.25
			2/27/2017	3:14:47 AM	46.91
			2/27/2017	3:08:47 AM	47.62
			2/27/2017	3:02:47 AM	45.94
			2/27/2017	2:56:47 AM	45.6
			2/27/2017	2:50:47 AM	47.96
			2/27/2017	2:44:47 AM	50.29
			2/27/2017	2:32:47 AM	50.51
			2/27/2017	2:26:47 AM	50.55
			2/27/2017	2:20:47 AM	53.55

2/27/2017	2:14:47 AM	54.41
2/27/2017	2:08:47 AM	55.2
2/27/2017	2:02:47 AM	55.35
2/27/2017	1:56:47 AM	55.65
2/27/2017	1:50:47 AM	55.46
2/27/2017	1:44:47 AM	55.43
2/27/2017	1:38:47 AM	56.06
2/27/2017	1:32:47 AM	55.84
2/27/2017	1:26:47 AM	55.88
2/27/2017	1:20:47 AM	55.58
2/27/2017	1:14:47 AM	54.9
2/27/2017	1:08:47 AM	55.43
2/27/2017	1:02:47 AM	56.74
2/27/2017	12:56:47 AM	58.35
2/27/2017	12:50:47 AM	60.86
2/27/2017	12:44:47 AM	62.14
2/27/2017	12:38:47 AM	61.5
2/27/2017	12:32:47 AM	60.56
2/27/2017	12:26:47 AM	60.71
2/27/2017	12:20:47 AM	61.16
2/27/2017	12:14:47 AM	61.43
2/27/2017	12:08:47 AM	61.65
2/27/2017	12:02:47 AM	59.21
2/26/2017	11:56:47 PM	59.51
2/26/2017	11:50:47 PM	58.84
2/26/2017	11:44:47 PM	58.99
2/26/2017	11:38:47 PM	58.91
2/26/2017	11:32:47 PM	59.21
2/26/2017	11:26:47 PM	58.99
2/26/2017	11:20:47 PM	59.06
2/26/2017	11:14:47 PM	59.03
2/26/2017	11:08:47 PM	59.25

Paulson

Unit was flowing during the event and did have the wrong set point in for the PAHH on the discharge of the pump. The unit appears to have shut down correctly on the set point entered in for PAHH. The set point was rectified on 02/27/2017 ~ 10 PM CST

20170227 Morning S.P.: 390
20170227 Night S.P.: 310
20170310 S.P.: 310
PT-110

FT-100			PT-110		
Date	Time	Flowrate (bbl/d)	Date	Time	Pressure (psig)
	MAX:	1823.61		MAX:	379.47
	MIN:	0.00		MIN:	0.62
	AVG:	1656.02		AVG:	16.03
2/27/2017	11:32:49 AM	0	2/27/2017	7:26:49 PM	1.49
2/27/2017	11:26:49 AM	1807.551	2/27/2017	7:02:49 PM	1.51
2/27/2017	11:20:49 AM	1800.464	2/27/2017	6:50:49 PM	1.54
2/27/2017	11:14:48 AM	1799.013	2/27/2017	6:38:49 PM	1.56
2/27/2017	11:08:48 AM	1764.776	2/27/2017	6:26:48 PM	1.59
2/27/2017	2:32:49 AM	0	2/27/2017	6:14:48 PM	1.61
2/27/2017	2:26:49 AM	1803.923	2/27/2017	6:08:48 PM	1.63
2/27/2017	2:20:49 AM	1803.351	2/27/2017	6:02:49 PM	1.61
2/27/2017	2:14:49 AM	1791.152	2/27/2017	5:56:49 PM	1.63
2/27/2017	2:08:49 AM	1812.781	2/27/2017	5:50:49 PM	1.61
2/27/2017	2:02:49 AM	1795	2/27/2017	5:44:49 PM	1.63
2/27/2017	1:56:49 AM	1795.328	2/27/2017	5:38:49 PM	1.66
2/27/2017	1:50:49 AM	1801.26	2/27/2017	5:14:49 PM	1.63
2/27/2017	1:44:49 AM	1806.493	2/27/2017	5:08:49 PM	1.59
2/27/2017	1:38:49 AM	1800.407	2/27/2017	4:50:49 PM	1.54
2/27/2017	1:32:49 AM	1799.764	2/27/2017	4:20:49 PM	1.59
2/27/2017	1:26:49 AM	1799.193	2/27/2017	4:02:49 PM	1.61
2/27/2017	1:20:49 AM	1813.952	2/27/2017	3:56:49 PM	1.63
2/27/2017	1:14:49 AM	1793.381	2/27/2017	3:50:49 PM	1.66
2/27/2017	1:08:49 AM	1802.047	2/27/2017	3:44:49 PM	1.68
2/27/2017	1:02:49 AM	1796.928	2/27/2017	3:38:49 PM	1.71
2/27/2017	12:56:49 AM	1782.386	2/27/2017	3:26:49 PM	1.75
2/27/2017	12:50:49 AM	1796.703	2/27/2017	3:20:49 PM	1.78
2/27/2017	12:44:49 AM	1810.913	2/27/2017	3:14:49 PM	1.83
2/27/2017	12:38:49 AM	1823.611	2/27/2017	3:08:49 PM	1.85
			2/27/2017	3:02:49 PM	1.9
			2/27/2017	2:56:49 PM	1.92
			2/27/2017	2:50:49 PM	2.02
			2/27/2017	2:44:49 PM	1.92
			2/27/2017	2:38:49 PM	1.95
			2/27/2017	2:32:49 PM	1.99
			2/27/2017	2:26:49 PM	2.04
			2/27/2017	2:20:49 PM	2.09
			2/27/2017	2:14:49 PM	2.16
			2/27/2017	2:08:49 PM	2.19
			2/27/2017	2:02:49 PM	2.26
			2/27/2017	1:56:49 PM	2.31
			2/27/2017	1:50:49 PM	2.36
			2/27/2017	1:38:49 PM	2.38
			2/27/2017	1:32:49 PM	2.4
			2/27/2017	1:26:49 PM	2.43
			2/27/2017	1:20:49 PM	2.45
			2/27/2017	1:14:49 PM	2.48
			2/27/2017	1:08:49 PM	2.52

2/27/2017	1:02:49 PM	2.64
2/27/2017	12:56:49 PM	2.81
2/27/2017	12:50:49 PM	2.98
2/27/2017	12:44:49 PM	3.2
2/27/2017	12:38:48 PM	3.44
2/27/2017	12:32:49 PM	3.68
2/27/2017	12:26:49 PM	3.92
2/27/2017	12:20:49 PM	4.16
2/27/2017	12:14:49 PM	4.42
2/27/2017	12:08:49 PM	4.76
2/27/2017	12:02:49 PM	5.07
2/27/2017	11:56:49 AM	5.38
2/27/2017	11:50:49 AM	5.74
2/27/2017	11:44:49 AM	6.51
2/27/2017	11:38:49 AM	7.11
2/27/2017	11:32:49 AM	7.55
2/27/2017	11:26:49 AM	379.47
2/27/2017	11:20:49 AM	351.64
2/27/2017	11:14:49 AM	295.52
2/27/2017	11:08:49 AM	183.04
2/27/2017	11:02:49 AM	20.77
2/27/2017	10:56:49 AM	15.98
2/27/2017	10:50:48 AM	13.53
2/27/2017	10:44:48 AM	12.5
2/27/2017	10:38:49 AM	12.09
2/27/2017	10:32:49 AM	12.14
2/27/2017	10:26:49 AM	12.11
2/27/2017	10:20:49 AM	11.94
2/27/2017	10:14:49 AM	11.42
2/27/2017	10:08:49 AM	11.97
2/27/2017	10:02:49 AM	11.42
2/27/2017	9:56:49 AM	11.46
2/27/2017	9:50:49 AM	11.66
2/27/2017	9:44:49 AM	11.75
2/27/2017	9:38:49 AM	11.73
2/27/2017	9:32:49 AM	11.39
2/27/2017	9:26:50 AM	10.17
2/27/2017	9:20:50 AM	9.64
2/27/2017	9:14:50 AM	7.88
2/27/2017	9:08:50 AM	7.93
2/27/2017	9:02:50 AM	8.72
2/27/2017	8:56:49 AM	9.01
2/27/2017	8:50:49 AM	8.77
2/27/2017	8:44:49 AM	8.05
2/27/2017	8:38:49 AM	7.23
2/27/2017	8:32:49 AM	6.95
2/27/2017	8:26:49 AM	5.67
2/27/2017	8:20:49 AM	4.97
2/27/2017	8:14:49 AM	4.66
2/27/2017	8:08:49 AM	4.42
2/27/2017	8:02:49 AM	4.28
2/27/2017	7:56:49 AM	4.11
2/27/2017	7:50:50 AM	3.46
2/27/2017	7:44:50 AM	0.62
2/27/2017	7:38:50 AM	1.61
2/27/2017	7:32:50 AM	2.62
2/27/2017	7:26:50 AM	11.78
2/27/2017	7:20:49 AM	13.53
2/27/2017	7:14:49 AM	13.48
2/27/2017	7:08:49 AM	13.46
2/27/2017	7:02:49 AM	13.19

2/27/2017	6:56:49 AM	13.22
2/27/2017	6:50:49 AM	13.17
2/27/2017	6:44:49 AM	13.05
2/27/2017	6:38:49 AM	12.86
2/27/2017	6:32:49 AM	12.79
2/27/2017	6:26:49 AM	11.94
2/27/2017	6:20:49 AM	11.87
2/27/2017	6:14:49 AM	11.9
2/27/2017	6:08:49 AM	11.94
2/27/2017	6:02:49 AM	11.97
2/27/2017	5:56:49 AM	12.06
2/27/2017	5:50:49 AM	12.09
2/27/2017	5:44:49 AM	12.26
2/27/2017	5:38:49 AM	12.14
2/27/2017	5:32:49 AM	12.33
2/27/2017	5:26:49 AM	12.4
2/27/2017	5:20:49 AM	12.26
2/27/2017	5:14:49 AM	12.79
2/27/2017	5:08:49 AM	12.76
2/27/2017	5:02:49 AM	12.59
2/27/2017	4:56:49 AM	12.52
2/27/2017	4:50:49 AM	12.69
2/27/2017	4:44:49 AM	12.71
2/27/2017	4:38:49 AM	12.74
2/27/2017	4:32:49 AM	12.38
2/27/2017	4:14:49 AM	11.7
2/27/2017	4:02:49 AM	11.78
2/27/2017	3:56:49 AM	11.99
2/27/2017	3:50:49 AM	11.68
2/27/2017	3:44:49 AM	11.87
2/27/2017	3:38:49 AM	11.99
2/27/2017	3:32:49 AM	12.11
2/27/2017	3:26:49 AM	12.16
2/27/2017	3:20:49 AM	12.35
2/27/2017	3:14:49 AM	12.43
2/27/2017	3:08:49 AM	12.47
2/27/2017	3:02:49 AM	12.11
2/27/2017	2:56:49 AM	12.04
2/27/2017	2:50:49 AM	12.98
2/27/2017	2:44:49 AM	14.56
2/27/2017	2:38:49 AM	14.59
2/27/2017	2:32:49 AM	14.56
2/27/2017	2:26:49 AM	22.38
2/27/2017	2:20:49 AM	22.4
2/27/2017	2:14:49 AM	22.78
2/27/2017	2:08:49 AM	23.7
2/27/2017	2:02:49 AM	23.87
2/27/2017	1:56:49 AM	24.01
2/27/2017	1:50:49 AM	23.99
2/27/2017	1:44:49 AM	24.25
2/27/2017	1:38:49 AM	24.75
2/27/2017	1:32:49 AM	24.83
2/27/2017	1:26:49 AM	24.75
2/27/2017	1:20:49 AM	24.59
2/27/2017	1:14:49 AM	24.27
2/27/2017	1:08:49 AM	23.82
2/27/2017	1:02:49 AM	23.46
2/27/2017	12:56:49 AM	22.98
2/27/2017	12:50:49 AM	21.61
2/27/2017	12:44:49 AM	21.63
2/27/2017	12:38:49 AM	21.08

2/27/2017	12:32:49 AM	12.52
2/27/2017	12:26:49 AM	12.64
2/27/2017	12:20:49 AM	12.74
2/27/2017	12:14:49 AM	12.86
2/27/2017	12:08:49 AM	13
2/27/2017	12:02:49 AM	12.09
2/26/2017	11:56:49 PM	12.19
2/26/2017	11:50:49 PM	11.51
2/26/2017	11:44:49 PM	11.56
2/26/2017	11:38:49 PM	11.49
2/26/2017	11:32:49 PM	11.54
2/26/2017	11:26:49 PM	11.51
2/26/2017	11:20:49 PM	11.46
2/26/2017	11:14:49 PM	11.54
2/26/2017	11:08:49 PM	11.49
2/26/2017	11:02:49 PM	11.42

Peaks

Analysis: Unit was not flowing during the event. Increased pressures appear to be from faulty check valves, this has been reported to Operations to inspect and clean (potentially paraffin buildup). PAHH was identified as being incorrect and was changed to 125 as a result of the temporary set point changes.

20170227 Morning S.P.: 390
20170227 Night S.P.: 390
20170310 S.P.: 125

FT-100			PT-110		
Date	Time	Flowrate (bbl/d)	Date	Time	Pressure (psig)
	MAX:	1869.13		MAX:	405.78
	MIN:	0.00		MIN:	24.78
	AVG:	1512.33		AVG:	108.96
2/27/2017	9:32:55 AM	0	2/27/2017	7:26:55 PM	47.13
2/27/2017	9:26:55 AM	1796.759	2/27/2017	7:20:55 PM	47.8
2/27/2017	9:20:55 AM	1781.24	2/27/2017	7:14:55 PM	47.59
2/27/2017	9:14:55 AM	1830.049	2/27/2017	7:08:55 PM	47.56
2/27/2017	9:08:55 AM	1754.078	2/27/2017	6:56:55 PM	47.49
2/27/2017	9:02:55 AM	1757.21	2/27/2017	6:50:55 PM	47.18
2/27/2017	8:56:55 AM	1822.183	2/27/2017	6:44:55 PM	47.15
2/27/2017	8:50:55 AM	1751.442	2/27/2017	6:38:55 PM	47.11
2/27/2017	5:14:55 AM	0	2/27/2017	6:32:55 PM	46.87
2/27/2017	5:08:55 AM	1869.13	2/27/2017	6:26:55 PM	46.84
2/27/2017	5:02:55 AM	1849.534	2/27/2017	6:20:55 PM	46.82
2/27/2017	4:56:55 AM	1783.673	2/27/2017	6:14:55 PM	46.87
2/27/2017	4:50:55 AM	1761.827	2/27/2017	6:08:55 PM	46.89
2/27/2017	4:44:55 AM	1751.482	2/27/2017	6:02:55 PM	45.23
2/27/2017	4:38:55 AM	1437.642	2/27/2017	5:56:55 PM	45.14
2/27/2017	12:38:55 AM	0	2/27/2017	5:50:55 PM	46.05
2/27/2017	12:32:55 AM	1793.196	2/27/2017	5:44:55 PM	46.65
2/27/2017	12:26:55 AM	1749.277	2/27/2017	5:38:55 PM	46.63
2/27/2017	12:20:55 AM	1762.747	2/27/2017	5:32:55 PM	46.82
2/27/2017	12:14:55 AM	1753.51	2/27/2017	5:26:55 PM	46.84
2/27/2017	12:08:55 AM	1753.883	2/27/2017	5:20:55 PM	44.01
			2/27/2017	5:14:55 PM	44.03
			2/27/2017	5:08:55 PM	46.17
			2/27/2017	5:02:55 PM	48.72
			2/27/2017	4:56:55 PM	51.96
			2/27/2017	4:50:55 PM	57.92
			2/27/2017	4:44:55 PM	282.25
			2/27/2017	4:38:55 PM	281.41
			2/27/2017	4:32:55 PM	276.43
			2/27/2017	4:26:55 PM	271.96
			2/27/2017	4:20:55 PM	271.29
			2/27/2017	4:14:55 PM	271.8
			2/27/2017	4:08:55 PM	272.23
			2/27/2017	4:02:55 PM	272.08
			2/27/2017	3:56:55 PM	270.86
			2/27/2017	3:50:55 PM	267.37
			2/27/2017	3:44:55 PM	261.01
			2/27/2017	3:38:55 PM	251.82
			2/27/2017	3:32:55 PM	242.4
			2/27/2017	3:26:55 PM	236.61
			2/27/2017	3:20:55 PM	235.15
			2/27/2017	3:14:55 PM	234.21
			2/27/2017	3:08:55 PM	232.96
			2/27/2017	3:02:55 PM	230.22

2/27/2017	2:56:55 PM	226.18
2/27/2017	2:50:55 PM	221.54
2/27/2017	2:44:55 PM	215.77
2/27/2017	2:38:55 PM	209.29
2/27/2017	2:32:55 PM	201.33
2/27/2017	2:26:55 PM	195.75
2/27/2017	2:20:55 PM	192.89
2/27/2017	2:14:55 PM	193.04
2/27/2017	2:08:55 PM	193.76
2/27/2017	2:02:55 PM	194.29
2/27/2017	1:56:55 PM	193.95
2/27/2017	1:50:56 PM	190.13
2/27/2017	1:44:56 PM	180.44
2/27/2017	1:38:56 PM	166.1
2/27/2017	1:32:56 PM	153.26
2/27/2017	1:26:56 PM	144.11
2/27/2017	1:20:55 PM	134.78
2/27/2017	1:14:55 PM	123.46
2/27/2017	1:08:55 PM	107.81
2/27/2017	1:02:55 PM	402.13
2/27/2017	12:56:55 PM	399.63
2/27/2017	12:50:55 PM	401.63
2/27/2017	12:44:55 PM	403.65
2/27/2017	12:38:55 PM	405.78
2/27/2017	12:32:55 PM	392.04
2/27/2017	12:26:55 PM	377.98
2/27/2017	12:20:55 PM	369.13
2/27/2017	12:14:55 PM	360.29
2/27/2017	12:08:55 PM	351.66
2/27/2017	12:02:55 PM	341.47
2/27/2017	11:56:55 AM	329.38
2/27/2017	11:50:55 AM	314.98
2/27/2017	11:44:55 AM	297.2
2/27/2017	11:38:55 AM	273.5
2/27/2017	11:32:55 AM	247.07
2/27/2017	11:26:55 AM	221.57
2/27/2017	11:20:55 AM	197.22
2/27/2017	11:14:55 AM	171.7
2/27/2017	11:08:55 AM	142.93
2/27/2017	11:02:55 AM	109.33
2/27/2017	10:56:55 AM	80.83
2/27/2017	10:50:55 AM	71.74
2/27/2017	10:44:55 AM	66.38
2/27/2017	10:38:55 AM	61.69
2/27/2017	10:32:55 AM	56.36
2/27/2017	10:26:55 AM	52.42
2/27/2017	10:20:55 AM	50.42
2/27/2017	10:08:55 AM	47.51
2/27/2017	10:02:55 AM	47.49
2/27/2017	9:50:55 AM	47.51
2/27/2017	9:44:55 AM	47.49
2/27/2017	9:38:55 AM	47.61
2/27/2017	9:32:55 AM	40.88
2/27/2017	9:26:55 AM	49.39
2/27/2017	9:20:55 AM	49.15
2/27/2017	9:14:55 AM	49.27
2/27/2017	9:08:55 AM	49.49
2/27/2017	9:02:55 AM	49.58
2/27/2017	8:56:55 AM	49.32
2/27/2017	8:50:55 AM	49.27
2/27/2017	8:44:55 AM	47.18

2/27/2017	8:38:56 AM	47.25
2/27/2017	8:32:56 AM	47.27
2/27/2017	8:26:56 AM	47.3
2/27/2017	8:20:56 AM	47.37
2/27/2017	8:14:56 AM	47.54
2/27/2017	8:08:55 AM	47.68
2/27/2017	8:02:55 AM	47.54
2/27/2017	7:56:55 AM	47.35
2/27/2017	7:44:55 AM	47.44
2/27/2017	7:38:55 AM	47.39
2/27/2017	7:32:55 AM	47.66
2/27/2017	7:26:55 AM	47.88
2/27/2017	7:14:55 AM	48
2/27/2017	7:08:55 AM	48.31
2/27/2017	7:02:55 AM	48.36
2/27/2017	6:56:55 AM	48.33
2/27/2017	6:50:55 AM	48.43
2/27/2017	6:44:55 AM	48.38
2/27/2017	6:38:55 AM	48.26
2/27/2017	6:32:55 AM	48.16
2/27/2017	6:26:55 AM	48.24
2/27/2017	6:14:55 AM	48.6
2/27/2017	6:08:55 AM	48.5
2/27/2017	6:02:55 AM	48.38
2/27/2017	5:56:55 AM	48.26
2/27/2017	5:50:55 AM	48.28
2/27/2017	5:44:55 AM	48.4
2/27/2017	5:32:55 AM	48.6
2/27/2017	5:26:55 AM	48.67
2/27/2017	5:20:55 AM	48.57
2/27/2017	5:14:55 AM	24.78
2/27/2017	5:08:55 AM	50.64
2/27/2017	5:02:55 AM	50.74
2/27/2017	4:56:55 AM	50.71
2/27/2017	4:50:55 AM	50.16
2/27/2017	4:44:55 AM	50.13
2/27/2017	4:38:55 AM	49.03
2/27/2017	4:32:55 AM	47.51
2/27/2017	4:26:55 AM	47.56
2/27/2017	4:20:55 AM	47.8
2/27/2017	4:14:55 AM	47.78
2/27/2017	4:08:55 AM	47.73
2/27/2017	4:02:55 AM	47.66
2/27/2017	3:56:55 AM	47.51
2/27/2017	3:50:55 AM	47.42
2/27/2017	3:44:55 AM	47.49
2/27/2017	3:38:55 AM	47.44
2/27/2017	3:32:55 AM	47.47
2/27/2017	3:26:55 AM	47.42
2/27/2017	3:14:55 AM	47.47
2/27/2017	3:08:55 AM	47.39
2/27/2017	3:02:55 AM	46.63
2/27/2017	2:56:55 AM	48.04
2/27/2017	2:50:55 AM	48.24
2/27/2017	2:44:55 AM	48.36
2/27/2017	2:32:55 AM	48.38
2/27/2017	2:26:55 AM	48.24
2/27/2017	2:20:55 AM	48.74
2/27/2017	2:14:55 AM	48.91
2/27/2017	2:08:55 AM	48.88
2/27/2017	2:02:55 AM	48.86

2/27/2017	1:56:55 AM	48.81
2/27/2017	1:50:55 AM	48.84
2/27/2017	1:44:55 AM	49.03
2/27/2017	1:38:55 AM	49.1
2/27/2017	1:32:55 AM	49.24
2/27/2017	1:26:55 AM	49.77
2/27/2017	1:20:55 AM	49.7
2/27/2017	1:14:55 AM	49.46
2/27/2017	1:08:55 AM	48.84
2/27/2017	1:02:55 AM	48.64
2/27/2017	12:55:57 AM	48.4
2/27/2017	12:50:55 AM	48.33
2/27/2017	12:44:55 AM	48.09
2/27/2017	12:38:55 AM	25.24
2/27/2017	12:32:55 AM	50.16
2/27/2017	12:26:55 AM	50.28
2/27/2017	12:20:55 AM	50.52
2/27/2017	12:14:55 AM	50.23
2/27/2017	12:08:55 AM	49.87
2/27/2017	12:02:55 AM	47.37
2/26/2017	11:56:55 PM	46.96
2/26/2017	11:50:55 PM	46.82
2/26/2017	11:38:55 PM	46.79
2/26/2017	11:32:55 PM	46.82
2/26/2017	11:26:55 PM	46.79
2/26/2017	11:20:55 PM	46.89
2/26/2017	11:14:55 PM	46.84
2/26/2017	11:08:55 PM	46.89
2/26/2017	11:02:55 PM	46.91

Roen

Analysis: Unit was flowing during the event. It stopped flowing as a result of the volume batch being complete and shut down due to normal operating conditions.

20170227 Morning S.P.: 405
20170227 Night S.P.: 405
20170310 S.P.: 405

FE-101			PIT-102		
Date	Time	Flowrate (bbl/d)	Date	Time	Pressure (psig)
	MAX:	2010.83		MAX:	310.75
	MIN:	0.00		MIN:	4.47
	AVG:	1843.06		AVG:	36.84
2/27/2017	11:14:55 AM	0	2/27/2017	7:32:55 PM	12.72
2/27/2017	11:08:55 AM	1999.04	2/27/2017	7:26:55 PM	12.81
2/27/2017	11:02:55 AM	1971.935	2/27/2017	7:20:55 PM	15.58
2/27/2017	10:56:55 AM	1991.159	2/27/2017	7:14:55 PM	16.2
2/27/2017	10:50:55 AM	1996.726	2/27/2017	7:08:55 PM	16.8
2/27/2017	10:44:55 AM	1981.206	2/27/2017	7:02:55 PM	17.45
2/27/2017	10:38:55 AM	1975.522	2/27/2017	6:56:55 PM	18.1
2/27/2017	10:32:55 AM	1977.279	2/27/2017	6:50:55 PM	18.75
2/27/2017	10:26:55 AM	1984.982	2/27/2017	6:44:55 PM	19.4
2/27/2017	10:20:55 AM	1959.768	2/27/2017	6:38:55 PM	19.9
2/27/2017	10:14:55 AM	2010.061	2/27/2017	6:32:55 PM	20.24
2/27/2017	10:08:55 AM	2007.911	2/27/2017	6:26:55 PM	20.02
2/27/2017	10:02:55 AM	2009.817	2/27/2017	6:20:55 PM	18.08
2/27/2017	9:56:55 AM	2006.229	2/27/2017	6:14:55 PM	17.12
2/27/2017	9:50:55 AM	2006.261	2/27/2017	6:08:55 PM	17.31
2/27/2017	9:44:55 AM	2006.18	2/27/2017	6:02:55 PM	17.38
2/27/2017	9:38:55 AM	832.227	2/27/2017	5:56:55 PM	18.7
2/27/2017	6:26:55 AM	0	2/27/2017	5:50:55 PM	18.8
2/27/2017	6:20:55 AM	2004.691	2/27/2017	5:44:55 PM	18.77
2/27/2017	6:14:55 AM	2010.827	2/27/2017	5:38:55 PM	18.39
2/27/2017	6:08:55 AM	2009.111	2/27/2017	5:32:55 PM	22.38
2/27/2017	6:02:55 AM	2008.22	2/27/2017	5:20:55 PM	22.5
2/27/2017	5:56:55 AM	2006.167	2/27/2017	5:14:55 PM	22.24
2/27/2017	5:50:55 AM	2005.14	2/27/2017	5:08:55 PM	22.31
2/27/2017	5:44:55 AM	2001.432	2/27/2017	5:02:55 PM	25
2/27/2017	5:38:55 AM	1998.509	2/27/2017	4:56:55 PM	28.46
2/27/2017	5:32:55 AM	1998.109	2/27/2017	4:50:55 PM	29.74
2/27/2017	5:26:55 AM	1998.128	2/27/2017	4:44:55 PM	31.06
2/27/2017	5:20:55 AM	1999.404	2/27/2017	4:38:55 PM	32.45
2/27/2017	5:14:55 AM	1994.597	2/27/2017	4:32:55 PM	33.89
2/27/2017	5:08:55 AM	1995.168	2/27/2017	4:26:55 PM	35.55
2/27/2017	5:02:55 AM	1992.369	2/27/2017	4:20:55 PM	37.33
2/27/2017	4:56:55 AM	1794.657	2/27/2017	4:14:55 PM	39.11
2/27/2017	1:32:55 AM	0	2/27/2017	4:08:55 PM	40.87
2/27/2017	1:26:55 AM	1976.707	2/27/2017	4:02:55 PM	42.72
2/27/2017	1:20:55 AM	1970.97	2/27/2017	3:56:55 PM	44.66
2/27/2017	1:14:55 AM	1979.786	2/27/2017	3:50:55 PM	46.66
2/27/2017	1:08:55 AM	1978.556	2/27/2017	3:44:55 PM	48.65
2/27/2017	1:02:55 AM	1981.268	2/27/2017	3:38:55 PM	50.31
2/27/2017	12:56:55 AM	1978.243	2/27/2017	3:32:55 PM	51.35
2/27/2017	12:50:55 AM	1980.186	2/27/2017	3:26:55 PM	50.62
2/27/2017	12:44:55 AM	1978.178	2/27/2017	3:20:55 PM	43.7
2/27/2017	12:38:55 AM	1983.221	2/27/2017	3:14:55 PM	37.6
2/27/2017	12:32:55 AM	1980.019	2/27/2017	3:08:55 PM	37.79

2/27/2017	12:26:55 AM	1978.365	2/27/2017	3:02:55 PM	40.02
2/27/2017	12:20:55 AM	2003.54	2/27/2017	2:56:55 PM	42.62
2/27/2017	12:14:55 AM	2004.073	2/27/2017	2:50:55 PM	46.32
2/27/2017	12:08:55 AM	2000.605	2/27/2017	2:44:55 PM	56.73
2/27/2017	12:02:55 AM	2003.585	2/27/2017	2:38:55 PM	42.19
			2/27/2017	2:32:55 PM	43.92
			2/27/2017	2:26:55 PM	45.75
			2/27/2017	2:20:55 PM	47.72
			2/27/2017	2:14:55 PM	49.9
			2/27/2017	2:08:55 PM	52.19
			2/27/2017	2:02:55 PM	54.52
			2/27/2017	1:56:55 PM	56.78
			2/27/2017	1:50:55 PM	59.13
			2/27/2017	1:44:55 PM	61.49
			2/27/2017	1:38:55 PM	63.85
			2/27/2017	1:32:55 PM	66.15
			2/27/2017	1:26:55 PM	67.19
			2/27/2017	1:20:55 PM	67.67
			2/27/2017	1:14:55 PM	67.24
			2/27/2017	1:08:55 PM	64.59
			2/27/2017	1:02:55 PM	55.5
			2/27/2017	12:56:55 PM	48.34
			2/27/2017	12:50:55 PM	48.03
			2/27/2017	12:44:55 PM	49.45
			2/27/2017	12:38:55 PM	50.75
			2/27/2017	12:32:55 PM	52.02
			2/27/2017	12:26:55 PM	53.32
			2/27/2017	12:20:55 PM	53.85
			2/27/2017	12:14:55 PM	49.06
			2/27/2017	12:08:55 PM	41.8
			2/27/2017	12:02:55 PM	39.62
			2/27/2017	11:56:55 AM	41.73
			2/27/2017	11:50:55 AM	43.75
			2/27/2017	11:44:55 AM	45.82
			2/27/2017	11:38:55 AM	47.79
			2/27/2017	11:32:55 AM	48.92
			2/27/2017	11:26:55 AM	49.57
			2/27/2017	11:20:55 AM	48.56
			2/27/2017	11:14:55 AM	44.95
			2/27/2017	11:08:55 AM	310.75
			2/27/2017	11:02:55 AM	147.62
			2/27/2017	10:56:55 AM	105.99
			2/27/2017	10:50:55 AM	95.1
			2/27/2017	10:44:55 AM	87.67
			2/27/2017	10:38:55 AM	80.72
			2/27/2017	10:32:55 AM	75.17
			2/27/2017	10:26:55 AM	70.31
			2/27/2017	10:20:55 AM	84.62
			2/27/2017	10:14:55 AM	64.86
			2/27/2017	10:08:55 AM	65.58
			2/27/2017	10:02:55 AM	66.78
			2/27/2017	9:56:55 AM	67.31
			2/27/2017	9:50:55 AM	68.2
			2/27/2017	9:44:55 AM	70.17
			2/27/2017	9:38:55 AM	60.14
			2/27/2017	9:32:55 AM	5.96
			2/27/2017	9:26:55 AM	6.11
			2/27/2017	9:20:55 AM	6.03
			2/27/2017	9:14:55 AM	5.53
			2/27/2017	9:08:55 AM	5.19
			2/27/2017	9:02:55 AM	5.36

2/27/2017	8:56:55 AM	5.55
2/27/2017	8:50:55 AM	5.75
2/27/2017	8:44:55 AM	6.01
2/27/2017	8:38:55 AM	6.23
2/27/2017	8:32:55 AM	6.42
2/27/2017	8:26:55 AM	6.56
2/27/2017	8:20:55 AM	6.71
2/27/2017	8:14:55 AM	6.8
2/27/2017	8:08:55 AM	6.83
2/27/2017	8:02:55 AM	6.47
2/27/2017	7:56:55 AM	5.96
2/27/2017	7:50:55 AM	5.62
2/27/2017	7:44:55 AM	5.75
2/27/2017	7:38:55 AM	5.87
2/27/2017	7:32:55 AM	5.99
2/27/2017	7:26:55 AM	6.11
2/27/2017	7:20:55 AM	6.03
2/27/2017	7:14:55 AM	5.48
2/27/2017	7:08:55 AM	5.12
2/27/2017	7:02:55 AM	5.24
2/27/2017	6:56:55 AM	5.38
2/27/2017	6:50:55 AM	5.46
2/27/2017	6:44:55 AM	5.5
2/27/2017	6:38:55 AM	5.55
2/27/2017	6:32:55 AM	5.53
2/27/2017	6:26:55 AM	5.34
2/27/2017	6:20:55 AM	64.64
2/27/2017	6:14:55 AM	64.21
2/27/2017	6:08:55 AM	64.33
2/27/2017	6:02:55 AM	64.59
2/27/2017	5:56:55 AM	64.78
2/27/2017	5:50:55 AM	64.98
2/27/2017	5:44:55 AM	65.67
2/27/2017	5:38:55 AM	65.94
2/27/2017	5:32:55 AM	66.56
2/27/2017	5:26:55 AM	67.24
2/27/2017	5:20:55 AM	62.81
2/27/2017	5:14:55 AM	63.53
2/27/2017	5:08:55 AM	64.59
2/27/2017	5:02:55 AM	66.08
2/27/2017	4:56:55 AM	68.2
2/27/2017	4:50:55 AM	7.12
2/27/2017	4:44:55 AM	6.66
2/27/2017	4:38:55 AM	6.47
2/27/2017	4:32:55 AM	6.73
2/27/2017	4:26:55 AM	7.04
2/27/2017	4:20:55 AM	7.33
2/27/2017	4:14:55 AM	7.62
2/27/2017	4:08:55 AM	7.93
2/27/2017	4:02:55 AM	8.2
2/27/2017	3:56:55 AM	8.49
2/27/2017	3:50:55 AM	8.77
2/27/2017	3:44:55 AM	9.04
2/27/2017	3:32:55 AM	9.18
2/27/2017	3:26:55 AM	8.7
2/27/2017	3:20:55 AM	8.32
2/27/2017	3:14:55 AM	8.29
2/27/2017	3:08:55 AM	8.53
2/27/2017	3:02:55 AM	8.77
2/27/2017	2:56:55 AM	8.97
2/27/2017	2:50:55 AM	9.11

2/27/2017	2:44:55 AM	9.18
2/27/2017	2:38:55 AM	8.77
2/27/2017	2:26:55 AM	8.39
2/27/2017	2:20:55 AM	8.77
2/27/2017	2:14:55 AM	9.13
2/27/2017	2:08:55 AM	9.4
2/27/2017	2:02:55 AM	9.64
2/27/2017	1:56:55 AM	9.83
2/27/2017	1:44:55 AM	9.95
2/27/2017	1:38:55 AM	9.81
2/27/2017	1:32:55 AM	9.35
2/27/2017	1:26:55 AM	81.27
2/27/2017	1:20:55 AM	81.51
2/27/2017	1:14:55 AM	81.27
2/27/2017	1:02:55 AM	79.98
2/27/2017	12:56:55 AM	79.93
2/27/2017	12:50:55 AM	79.95
2/27/2017	12:44:55 AM	79.83
2/27/2017	12:38:55 AM	80.05
2/27/2017	12:32:55 AM	80.55
2/27/2017	12:26:55 AM	81.06
2/27/2017	12:20:55 AM	87.98
2/27/2017	12:14:55 AM	89.42
2/27/2017	12:08:55 AM	90.38
2/27/2017	12:02:55 AM	92.76
2/26/2017	11:56:55 PM	4.47
2/26/2017	11:50:55 PM	4.59
2/26/2017	11:44:55 PM	4.71
2/26/2017	11:38:55 PM	4.83
2/26/2017	11:32:55 PM	4.98
2/26/2017	11:26:55 PM	5.1
2/26/2017	11:20:55 PM	5.22
2/26/2017	11:14:55 PM	5.34
2/26/2017	11:08:55 PM	5.46
2/26/2017	11:02:55 PM	5.58

Sanders

Analysis: Unit was not flowing during the event and did not display any AOCs.

20170227 Morning S.P.: 295
20170227 Night S.P.: 295
20170310 S.P.: 295

FT-100			PT-110		
Date	Time	Flowrate (bbl/d)	Date	Time	Pressure (psig)
	MAX:	1700.80		MAX:	37.40
	MIN:	0.00		MIN:	1.57
	AVG:	1524.53		AVG:	16.03
2/27/2017	5:20:52 AM	0	2/27/2017	7:40:11 PM	6.25
2/27/2017	5:14:52 AM	1,680.10	2/27/2017	7:38:52 PM	6.22
2/27/2017	5:08:52 AM	1,571.90	2/27/2017	7:26:52 PM	6.25
2/27/2017	5:02:52 AM	1,700.80	2/27/2017	7:20:52 PM	6.22
2/27/2017	4:56:52 AM	1,446.40	2/27/2017	7:14:52 PM	6.28
2/27/2017	4:50:52 AM	1,592.90	2/27/2017	7:08:52 PM	6.31
2/27/2017	4:44:52 AM	1,589.60	2/27/2017	7:02:52 PM	6.38
2/27/2017	4:38:52 AM	1,587.30	2/27/2017	6:56:52 PM	6.47
2/27/2017	4:32:52 AM	1,682.40	2/27/2017	6:50:52 PM	6.54
2/27/2017	4:26:52 AM	1,623.70	2/27/2017	6:44:52 PM	6.6
2/27/2017	4:20:52 AM	1,594.00	2/27/2017	6:38:52 PM	6.63
2/27/2017	4:14:52 AM	1,633.30	2/27/2017	6:32:52 PM	6.7
2/27/2017	4:08:52 AM	1,558.20	2/27/2017	6:26:52 PM	6.73
2/27/2017	4:02:52 AM	1,456.80	2/27/2017	6:20:52 PM	6.83
2/27/2017	3:56:52 AM	1,678.60	2/27/2017	6:14:52 PM	6.89
2/27/2017	3:50:52 AM	1,613.70	2/27/2017	6:08:52 PM	6.99
2/27/2017	3:44:52 AM	1,552.20	2/27/2017	6:02:52 PM	7.08
2/27/2017	3:38:52 AM	1,628.00	2/27/2017	5:56:52 PM	7.15
2/27/2017	3:32:52 AM	1,536.50	2/27/2017	5:50:52 PM	7.21
2/27/2017	3:26:52 AM	1,620.50	2/27/2017	5:44:52 PM	7.27
2/27/2017	3:20:52 AM	1,625.50	2/27/2017	5:38:52 PM	7.34
2/27/2017	3:14:52 AM	1,603.00	2/27/2017	5:32:52 PM	7.43
2/27/2017	3:08:52 AM	1,488.80	2/27/2017	5:26:52 PM	7.53
			2/27/2017	5:20:52 PM	7.63
			2/27/2017	5:14:52 PM	7.72
			2/27/2017	5:08:52 PM	7.88
			2/27/2017	5:02:52 PM	7.95
			2/27/2017	4:56:52 PM	8.04
			2/27/2017	4:50:52 PM	8.11
			2/27/2017	4:44:52 PM	8.24
			2/27/2017	4:38:52 PM	8.33
			2/27/2017	4:32:52 PM	8.46
			2/27/2017	4:26:52 PM	8.56
			2/27/2017	4:20:52 PM	8.68
			2/27/2017	4:02:52 PM	8.88
			2/27/2017	3:56:52 PM	8.91
			2/27/2017	3:44:52 PM	8.81
			2/27/2017	3:38:52 PM	8.78
			2/27/2017	3:32:52 PM	8.72
			2/27/2017	3:26:52 PM	8.84
			2/27/2017	3:20:52 PM	8.81
			2/27/2017	3:14:52 PM	8.84
			2/27/2017	3:08:52 PM	8.81
			2/27/2017	3:02:52 PM	8.84

2/27/2017	2:56:52 PM	8.72
2/27/2017	2:32:52 PM	8.65
2/27/2017	2:26:52 PM	8.72
2/27/2017	2:14:52 PM	8.65
2/27/2017	2:02:52 PM	8.56
2/27/2017	1:44:52 PM	8.46
2/27/2017	1:32:52 PM	8.52
2/27/2017	1:26:52 PM	8.46
2/27/2017	1:20:52 PM	8.4
2/27/2017	1:14:52 PM	8.36
2/27/2017	1:02:52 PM	8.27
2/27/2017	12:50:52 PM	8.14
2/27/2017	12:44:52 PM	8.11
2/27/2017	12:38:52 PM	7.98
2/27/2017	12:32:52 PM	7.85
2/27/2017	12:26:52 PM	7.69
2/27/2017	12:20:52 PM	7.59
2/27/2017	12:08:52 PM	7.5
2/27/2017	12:02:52 PM	7.43
2/27/2017	11:56:52 AM	7.34
2/27/2017	11:50:52 AM	7.21
2/27/2017	11:44:52 AM	7.11
2/27/2017	11:38:52 AM	6.95
2/27/2017	11:32:52 AM	6.89
2/27/2017	11:26:53 AM	6.86
2/27/2017	11:20:53 AM	6.83
2/27/2017	11:14:53 AM	6.73
2/27/2017	11:08:53 AM	6.7
2/27/2017	11:02:53 AM	6.6
2/27/2017	10:56:52 AM	6.47
2/27/2017	10:50:52 AM	6.44
2/27/2017	10:38:52 AM	6.41
2/27/2017	10:32:52 AM	6.47
2/27/2017	10:26:52 AM	6.57
2/27/2017	10:14:52 AM	6.54
2/27/2017	10:08:52 AM	6.47
2/27/2017	10:02:52 AM	6.44
2/27/2017	9:56:52 AM	6.51
2/27/2017	9:44:52 AM	6.54
2/27/2017	9:32:52 AM	6.67
2/27/2017	9:14:52 AM	6.6
2/27/2017	9:08:52 AM	6.67
2/27/2017	8:56:52 AM	6.73
2/27/2017	8:44:52 AM	6.7
2/27/2017	8:38:52 AM	6.6
2/27/2017	8:32:52 AM	6.51
2/27/2017	8:26:52 AM	6.34
2/27/2017	8:20:52 AM	6.25
2/27/2017	8:14:52 AM	6.15
2/27/2017	8:02:52 AM	6.02
2/27/2017	7:56:52 AM	6.18
2/27/2017	7:50:52 AM	6.28
2/27/2017	7:44:52 AM	6.22
2/27/2017	7:38:52 AM	6.15
2/27/2017	7:32:52 AM	6.02
2/27/2017	7:26:52 AM	5.93
2/27/2017	7:20:52 AM	5.86
2/27/2017	7:14:52 AM	5.9
2/27/2017	7:08:52 AM	5.96
2/27/2017	7:02:52 AM	5.9
2/27/2017	6:56:52 AM	5.77

2/27/2017	6:50:52 AM	5.58
2/27/2017	6:44:52 AM	5.42
2/27/2017	6:38:52 AM	5.26
2/27/2017	6:32:52 AM	5.19
2/27/2017	6:26:53 AM	5.13
2/27/2017	6:20:52 AM	5.06
2/27/2017	6:14:52 AM	4.84
2/27/2017	6:08:52 AM	4.61
2/27/2017	6:02:52 AM	4.26
2/27/2017	5:56:52 AM	3.94
2/27/2017	5:50:52 AM	3.62
2/27/2017	5:44:52 AM	3.4
2/27/2017	5:38:52 AM	3.04
2/27/2017	5:32:52 AM	2.66
2/27/2017	5:26:52 AM	2.18
2/27/2017	5:20:52 AM	1.57
2/27/2017	5:14:52 AM	34.83
2/27/2017	5:08:52 AM	34.77
2/27/2017	5:02:52 AM	35.12
2/27/2017	4:56:52 AM	34.74
2/27/2017	4:50:52 AM	34.83
2/27/2017	4:44:52 AM	34.7
2/27/2017	4:38:52 AM	35.09
2/27/2017	4:32:52 AM	34.42
2/27/2017	4:26:52 AM	33.74
2/27/2017	4:20:52 AM	34.06
2/27/2017	4:14:52 AM	34.61
2/27/2017	4:08:52 AM	34.35
2/27/2017	4:02:52 AM	34.16
2/27/2017	3:56:52 AM	34.35
2/27/2017	3:50:52 AM	33.84
2/27/2017	3:44:52 AM	34.45
2/27/2017	3:38:52 AM	34.77
2/27/2017	3:32:52 AM	34.35
2/27/2017	3:26:52 AM	34.96
2/27/2017	3:20:52 AM	34.99
2/27/2017	3:14:52 AM	34.74
2/27/2017	3:08:52 AM	35.63
2/27/2017	3:02:52 AM	31.31
2/27/2017	2:56:52 AM	29.1
2/27/2017	2:50:52 AM	32.72
2/27/2017	2:44:52 AM	33.78
2/27/2017	2:38:52 AM	33.87
2/27/2017	2:32:52 AM	33.52
2/27/2017	2:26:52 AM	34.26
2/27/2017	2:20:52 AM	34.22
2/27/2017	2:14:52 AM	32.4
2/27/2017	2:08:52 AM	35.54
2/27/2017	2:02:52 AM	35.86
2/27/2017	1:56:52 AM	35.95
2/27/2017	1:50:52 AM	36.11
2/27/2017	1:44:52 AM	34.74
2/27/2017	1:38:52 AM	37.3
2/27/2017	1:32:52 AM	37.4
2/27/2017	1:26:52 AM	37.11
2/27/2017	1:20:52 AM	36.4
2/27/2017	1:14:52 AM	35.6
2/27/2017	1:08:52 AM	35.03
2/27/2017	1:02:52 AM	34.42
2/27/2017	12:56:52 AM	33.71
2/27/2017	12:50:52 AM	31.44

2/27/2017	12:44:52 AM	32.53
2/27/2017	12:38:53 AM	31.92
2/27/2017	12:32:52 AM	31.98
2/27/2017	12:26:52 AM	32.11
2/27/2017	12:20:52 AM	32.37
2/27/2017	12:14:52 AM	32.33
2/27/2017	12:08:52 AM	32.11
2/27/2017	12:02:52 AM	31.79
2/26/2017	11:56:52 PM	31.53
2/26/2017	11:50:52 PM	31.28
2/26/2017	11:44:53 PM	31.47
2/26/2017	11:38:52 PM	31.28
2/26/2017	11:32:52 PM	31.5
2/26/2017	11:26:52 PM	31.34
2/26/2017	11:20:52 PM	31.24
2/26/2017	11:14:52 PM	31.18
2/26/2017	11:08:52 PM	31.02
2/26/2017	11:02:52 PM	30.51

Shock

Analysis: Unit was not flowing during the event. Increased pressures appear to be from faulty check valves, this has been reported to Operations to inspect and clean (potentially paraffin buildup). PAHH was identified as being incorrect and was changed to 125 as a result of the temporary set point changes.

20170227 Morning S.P.: 390
20170227 Night S.P.: 390
20170310 S.P.: 125

FT-100			PT-110		
Date	Time	Flowrate (bbl/d)	Date	Time	Pressure (psig)
	MAX:	1846.23		MAX:	113.37
	MIN:	0.00		MIN:	8.10
	AVG:	1611.14		AVG:	63.65
2/27/2017	7:40:12 PM	0	2/27/2017	7:40:12 PM	47.06
2/27/2017	6:02:55 PM	0	2/27/2017	7:38:55 PM	47.06
2/27/2017	5:56:55 PM	1827.533	2/27/2017	7:32:55 PM	47.08
2/27/2017	5:50:55 PM	1794.74	2/27/2017	7:26:55 PM	46.65
2/27/2017	5:44:55 PM	1782.835	2/27/2017	7:20:55 PM	47.32
2/27/2017	5:38:55 PM	1787.573	2/27/2017	7:14:55 PM	47.3
2/27/2017	5:32:55 PM	1769.681	2/27/2017	7:02:55 PM	47.2
2/27/2017	5:26:55 PM	1784.58	2/27/2017	6:56:55 PM	47.13
2/27/2017	5:20:55 PM	1837.207	2/27/2017	6:50:55 PM	46.96
2/27/2017	5:14:55 PM	1789.805	2/27/2017	6:44:55 PM	46.89
2/27/2017	5:08:55 PM	1785.398	2/27/2017	6:38:55 PM	46.77
2/27/2017	5:02:55 PM	1785.417	2/27/2017	6:32:55 PM	46.51
2/27/2017	4:56:55 PM	1797.035	2/27/2017	6:26:55 PM	46.46
2/27/2017	4:50:55 PM	1570.569	2/27/2017	6:20:55 PM	46.48
2/27/2017	9:14:55 AM	0	2/27/2017	6:14:55 PM	46.51
2/27/2017	9:08:55 AM	1821.91	2/27/2017	6:08:55 PM	46.65
2/27/2017	9:02:55 AM	1780.823	2/27/2017	6:02:55 PM	8.1
2/27/2017	8:56:55 AM	1779.183	2/27/2017	5:56:55 PM	47.59
2/27/2017	8:50:55 AM	1773.915	2/27/2017	5:44:55 PM	47.66
2/27/2017	8:44:55 AM	1808.675	2/27/2017	5:38:55 PM	47.44
2/27/2017	8:38:55 AM	1767.208	2/27/2017	5:32:55 PM	47.08
2/27/2017	8:32:55 AM	1829.26	2/27/2017	5:26:55 PM	47.03
2/27/2017	8:26:55 AM	1782.061	2/27/2017	5:20:55 PM	46.99
2/27/2017	8:20:55 AM	1818.447	2/27/2017	5:14:55 PM	46.87
2/27/2017	8:14:55 AM	1796.371	2/27/2017	5:08:55 PM	46.94
2/27/2017	8:08:55 AM	1817.013	2/27/2017	5:02:55 PM	48.96
2/27/2017	8:02:55 AM	1846.229	2/27/2017	4:56:55 PM	52.25
2/27/2017	2:26:55 AM	0	2/27/2017	4:50:55 PM	58.07
2/27/2017	2:20:55 AM	1765.514	2/27/2017	4:44:55 PM	95.08
2/27/2017	2:14:55 AM	1795.837	2/27/2017	4:38:55 PM	95.41
2/27/2017	2:08:55 AM	1785.339	2/27/2017	4:32:55 PM	95.92
2/27/2017	2:02:55 AM	1769.645	2/27/2017	4:26:55 PM	96.88
2/27/2017	1:56:55 AM	1811.263	2/27/2017	4:20:55 PM	98.15
2/27/2017	1:50:55 AM	1822.649	2/27/2017	4:14:55 PM	100.39
2/27/2017	1:44:55 AM	1775.853	2/27/2017	4:08:55 PM	106.28
2/27/2017	1:38:55 AM	1796.086	2/27/2017	4:02:55 PM	105.82
2/27/2017	1:32:55 AM	1794.865	2/27/2017	3:56:55 PM	102.02
2/27/2017	1:26:55 AM	1783.115	2/27/2017	3:50:55 PM	101.88
2/27/2017	1:20:55 AM	1796.337	2/27/2017	3:44:55 PM	103.18
2/27/2017	1:14:55 AM	1815.722	2/27/2017	3:38:55 PM	104.59
			2/27/2017	3:32:55 PM	105.94
			2/27/2017	3:26:55 PM	107.45
			2/27/2017	3:20:55 PM	108.75
			2/27/2017	3:14:55 PM	109.76

2/27/2017	3:08:55 PM	108.9
2/27/2017	3:02:55 PM	104.21
2/27/2017	2:56:55 PM	97.65
2/27/2017	2:50:55 PM	94.57
2/27/2017	2:44:55 PM	95.85
2/27/2017	2:38:55 PM	98.95
2/27/2017	2:32:55 PM	103.99
2/27/2017	2:26:55 PM	109.69
2/27/2017	2:20:55 PM	112.62
2/27/2017	2:14:56 PM	113.34
2/27/2017	2:08:56 PM	113.37
2/27/2017	2:02:56 PM	110.12
2/27/2017	1:56:56 PM	104.5
2/27/2017	1:50:56 PM	101.45
2/27/2017	1:38:55 PM	101.16
2/27/2017	1:32:55 PM	101.71
2/27/2017	1:26:55 PM	102.46
2/27/2017	1:20:55 PM	104.14
2/27/2017	1:14:55 PM	107.43
2/27/2017	1:08:55 PM	111.13
2/27/2017	1:02:55 PM	112
2/27/2017	12:56:55 PM	108.39
2/27/2017	12:50:55 PM	107
2/27/2017	12:44:55 PM	107.77
2/27/2017	12:38:55 PM	108.39
2/27/2017	12:32:55 PM	108.66
2/27/2017	12:26:55 PM	109.14
2/27/2017	12:20:55 PM	109.09
2/27/2017	12:14:55 PM	108.3
2/27/2017	12:08:55 PM	104.79
2/27/2017	12:02:55 PM	96.71
2/27/2017	11:56:55 AM	90.87
2/27/2017	11:50:55 AM	87.15
2/27/2017	11:44:55 AM	85.99
2/27/2017	11:38:55 AM	85.7
2/27/2017	11:32:55 AM	85.92
2/27/2017	11:26:55 AM	88.13
2/27/2017	11:20:55 AM	91.33
2/27/2017	11:14:55 AM	93.85
2/27/2017	11:08:55 AM	95.13
2/27/2017	11:02:55 AM	93.18
2/27/2017	10:56:55 AM	80.39
2/27/2017	10:50:55 AM	71.24
2/27/2017	10:44:55 AM	65.95
2/27/2017	10:38:55 AM	61.33
2/27/2017	10:32:55 AM	56.09
2/27/2017	10:26:55 AM	52.2
2/27/2017	10:20:55 AM	49.94
2/27/2017	10:14:55 AM	47.3
2/27/2017	10:08:55 AM	47.27
2/27/2017	10:02:55 AM	47.3
2/27/2017	9:56:55 AM	47.35
2/27/2017	9:50:55 AM	47.3
2/27/2017	9:44:55 AM	47.23
2/27/2017	9:38:55 AM	47.32
2/27/2017	9:32:55 AM	46.67
2/27/2017	9:26:55 AM	46.89
2/27/2017	9:20:55 AM	46.51
2/27/2017	9:14:55 AM	25.64
2/27/2017	8:56:55 AM	47.63
2/27/2017	8:50:55 AM	47.59

2/27/2017	8:44:55 AM	47.37
2/27/2017	8:38:55 AM	47.51
2/27/2017	8:32:55 AM	47.49
2/27/2017	8:20:55 AM	47.61
2/27/2017	8:14:55 AM	47.8
2/27/2017	8:08:55 AM	47.97
2/27/2017	8:02:55 AM	47.75
2/27/2017	7:56:55 AM	46.72
2/27/2017	7:44:55 AM	46.7
2/27/2017	7:38:55 AM	46.82
2/27/2017	7:32:55 AM	46.96
2/27/2017	7:26:55 AM	47.23
2/27/2017	7:20:55 AM	47.3
2/27/2017	7:14:55 AM	47.32
2/27/2017	7:08:55 AM	47.75
2/27/2017	7:02:55 AM	47.78
2/27/2017	6:56:55 AM	47.75
2/27/2017	6:50:55 AM	47.47
2/27/2017	6:44:55 AM	47.44
2/27/2017	6:32:55 AM	47.61
2/27/2017	6:26:55 AM	47.73
2/27/2017	6:20:55 AM	48.28
2/27/2017	6:14:55 AM	48.31
2/27/2017	6:08:55 AM	48.21
2/27/2017	6:02:55 AM	48.12
2/27/2017	5:56:55 AM	47.97
2/27/2017	5:50:55 AM	47.92
2/27/2017	5:44:55 AM	48.09
2/27/2017	5:38:55 AM	48.33
2/27/2017	5:32:55 AM	48.28
2/27/2017	5:26:55 AM	48.31
2/27/2017	5:20:55 AM	48.04
2/27/2017	5:14:55 AM	48.14
2/27/2017	5:08:55 AM	48.4
2/27/2017	5:02:55 AM	48.19
2/27/2017	4:56:55 AM	47.97
2/27/2017	4:50:55 AM	47.49
2/27/2017	4:44:55 AM	47.3
2/27/2017	4:38:55 AM	47.18
2/27/2017	4:32:55 AM	46.89
2/27/2017	4:26:55 AM	46.94
2/27/2017	4:20:55 AM	47.32
2/27/2017	4:14:55 AM	47.3
2/27/2017	4:08:55 AM	47.27
2/27/2017	4:02:55 AM	47.08
2/27/2017	3:56:55 AM	46.91
2/27/2017	3:50:55 AM	46.87
2/27/2017	3:44:55 AM	46.94
2/27/2017	3:38:55 AM	46.87
2/27/2017	3:32:55 AM	46.94
2/27/2017	3:14:55 AM	46.91
2/27/2017	3:08:55 AM	46.94
2/27/2017	3:02:55 AM	46.17
2/27/2017	2:56:55 AM	47.75
2/27/2017	2:50:55 AM	48.02
2/27/2017	2:38:55 AM	48.14
2/27/2017	2:32:55 AM	48.09
2/27/2017	2:26:55 AM	46
2/27/2017	2:20:55 AM	49.27
2/27/2017	2:14:55 AM	49.34
2/27/2017	2:08:55 AM	49.24

2/27/2017	2:02:55 AM	49.27
2/27/2017	1:50:55 AM	49.22
2/27/2017	1:44:55 AM	49.49
2/27/2017	1:38:55 AM	49.56
2/27/2017	1:32:55 AM	49.7
2/27/2017	1:26:55 AM	50.61
2/27/2017	1:20:55 AM	50.57
2/27/2017	1:14:55 AM	50.35
2/27/2017	1:08:55 AM	46.91
2/27/2017	1:02:55 AM	47.3
2/27/2017	12:56:55 AM	47.56
2/27/2017	12:50:55 AM	47.37
2/27/2017	12:44:55 AM	47.23
2/27/2017	12:38:55 AM	47.15
2/27/2017	12:32:55 AM	47.54
2/27/2017	12:26:55 AM	47.51
2/27/2017	12:20:55 AM	48.19
2/27/2017	12:14:55 AM	48.02
2/27/2017	12:08:55 AM	47.68
2/27/2017	12:02:55 AM	47.15
2/26/2017	11:56:55 PM	46.26
2/26/2017	11:50:55 PM	45.9
2/26/2017	11:38:55 PM	46.02
2/26/2017	11:32:55 PM	46
2/26/2017	11:26:55 PM	45.83
2/26/2017	11:20:55 PM	44.34
2/26/2017	11:14:55 PM	43.07
2/26/2017	11:08:55 PM	42.56
2/26/2017	11:02:55 PM	43.89

Simpson

Unit was not flowing during the event and did not display any AOCs. PAHH was identified as being incorrect and was changed to 100 as a result of the temporary set point changes.

20170227 Morning S.P.: 390
20170227 Night S.P.: 390
20170310 S.P.: 100

FT-100			PT-110		
Date	Time	Flowrate (bbl/d)	Date	Time	Pressure (psig)
	MAX:	1842.72		MAX:	20.38
	MIN:	-72.44		MIN:	0.00
	AVG:	1505.54		AVG:	7.66
2/27/2017	7:40:12 PM	0	2/27/2017	7:40:12 PM	0
2/27/2017	7:26:55 PM	0	2/27/2017	7:26:55 PM	0
2/27/2017	7:20:55 PM	1758.037	2/27/2017	7:20:55 PM	15.65
2/27/2017	7:14:55 PM	1813.773	2/27/2017	7:14:55 PM	15.45
2/27/2017	7:08:55 PM	1752.77	2/27/2017	7:08:55 PM	15.36
2/27/2017	7:02:55 PM	1826.759	2/27/2017	7:02:55 PM	15.41
2/27/2017	6:56:55 PM	1786.691	2/27/2017	6:56:55 PM	15.33
2/27/2017	6:50:55 PM	1774.264	2/27/2017	6:50:55 PM	15.24
2/27/2017	6:44:55 PM	1822.833	2/27/2017	6:44:55 PM	14.83
2/27/2017	6:38:55 PM	1818.742	2/27/2017	6:38:55 PM	14.92
2/27/2017	6:32:55 PM	1806.463	2/27/2017	6:32:55 PM	14.68
2/27/2017	6:26:55 PM	1785.838	2/27/2017	6:26:55 PM	14.66
2/27/2017	6:20:55 PM	1775.02	2/27/2017	6:20:55 PM	14.32
2/27/2017	6:14:55 PM	1807.564	2/27/2017	6:14:55 PM	14.59
2/27/2017	6:08:55 PM	1802.927	2/27/2017	6:08:55 PM	14.78
2/27/2017	6:02:55 PM	1820.032	2/27/2017	6:02:55 PM	14.66
2/27/2017	5:56:55 PM	1792.651	2/27/2017	5:56:55 PM	15.17
2/27/2017	5:50:55 PM	1777.858	2/27/2017	5:50:55 PM	15.02
2/27/2017	5:44:55 PM	1814.558	2/27/2017	5:44:55 PM	15.09
2/27/2017	5:38:55 PM	1816.401	2/27/2017	5:38:55 PM	13.65
2/27/2017	10:56:55 AM	0	2/27/2017	5:26:55 PM	0.26
2/27/2017	10:50:55 AM	-72.442	2/27/2017	5:20:55 PM	0.29
2/27/2017	10:44:55 AM	-50.413	2/27/2017	5:08:55 PM	0.31
2/27/2017	7:14:55 AM	0	2/27/2017	4:50:55 PM	0.34
2/27/2017	7:08:55 AM	1823.499	2/27/2017	4:38:55 PM	0.36
2/27/2017	7:02:55 AM	1798.952	2/27/2017	4:32:55 PM	0.34
2/27/2017	6:56:55 AM	1842.715	2/27/2017	4:26:55 PM	0.36
2/27/2017	6:50:55 AM	1789.595	2/27/2017	3:38:55 PM	0.38
2/27/2017	6:44:55 AM	1802.943	2/27/2017	3:32:55 PM	0.36
2/27/2017	6:38:55 AM	1841.307	2/27/2017	3:26:55 PM	0.38
2/27/2017	6:32:55 AM	1799.754	2/27/2017	3:02:55 PM	0.36
2/27/2017	6:26:55 AM	1808.411	2/27/2017	2:44:55 PM	0.34
2/27/2017	6:20:55 AM	1775.969	2/27/2017	2:38:55 PM	0.31
2/27/2017	6:14:55 AM	1807.588	2/27/2017	2:32:55 PM	0.34
2/27/2017	6:08:55 AM	1816.069	2/27/2017	2:20:55 PM	0.31
2/27/2017	6:02:55 AM	1829.983	2/27/2017	2:08:55 PM	0.29
2/27/2017	5:56:55 AM	1781.539	2/27/2017	1:56:55 PM	0.24
2/27/2017	5:50:55 AM	1818.201	2/27/2017	1:50:55 PM	0.19
2/27/2017	5:44:55 AM	1824.837	2/27/2017	1:38:55 PM	0.17
2/27/2017	5:38:55 AM	1812.375	2/27/2017	1:14:55 PM	0.14
2/27/2017	5:32:55 AM	1742.672	2/27/2017	1:08:55 PM	0.12
2/27/2017	5:26:55 AM	1791.34	2/27/2017	1:02:55 PM	0.14
2/27/2017	4:44:55 AM	0	2/27/2017	12:02:55 PM	0.12
			2/27/2017	11:38:55 AM	0.14

2/27/2017	11:20:55 AM	0.17
2/27/2017	11:08:55 AM	0.14
2/27/2017	11:02:55 AM	0.1
2/27/2017	10:56:55 AM	0.02
2/27/2017	10:26:55 AM	0
2/27/2017	10:20:55 AM	0.29
2/27/2017	10:14:55 AM	0.26
2/27/2017	10:08:55 AM	0.24
2/27/2017	10:02:55 AM	0.22
2/27/2017	9:56:55 AM	0.17
2/27/2017	9:50:55 AM	0.14
2/27/2017	9:44:55 AM	0.12
2/27/2017	9:38:55 AM	0.1
2/27/2017	9:32:55 AM	0.02
2/27/2017	9:14:55 AM	0
2/27/2017	9:08:55 AM	0.02
2/27/2017	7:14:55 AM	0
2/27/2017	7:08:55 AM	16.03
2/27/2017	7:02:55 AM	16.05
2/27/2017	6:56:55 AM	15.91
2/27/2017	6:50:55 AM	16.1
2/27/2017	6:44:55 AM	16.22
2/27/2017	6:38:55 AM	15.91
2/27/2017	6:32:55 AM	15.86
2/27/2017	6:26:55 AM	15.77
2/27/2017	6:20:55 AM	20.24
2/27/2017	6:14:55 AM	20
2/27/2017	6:08:55 AM	19.97
2/27/2017	6:02:55 AM	19.88
2/27/2017	5:56:55 AM	19.71
2/27/2017	5:50:55 AM	19.76
2/27/2017	5:44:55 AM	20.04
2/27/2017	5:38:55 AM	20.12
2/27/2017	5:32:55 AM	20.16
2/27/2017	5:26:55 AM	20.38

Stone

Unit was flowing during the event and did have the wrong set point in for the PAHH on the discharge of the pump. The unit appears to have shut down correctly on the set point entered in for PAHH. The set point was rectified on 02/27/2017 ~ 10 PM CST

20170227 Morning S.P.: 390
20170227 Night S.P.: 315
20170310 S.P.: 315

FT-100			PT-110		
Date	Time	Flowrate (bbl/d)	Date	Time	Pressure (psig)
	MAX:	1838.25		MAX:	398.19
	MIN:	0.00		MIN:	10.62
	AVG:	1692.62		AVG:	122.25
2/27/2017	7:40:12 PM	1801.656	2/27/2017	7:40:12 PM	52.2
2/27/2017	7:38:55 PM	1802.591	2/27/2017	7:38:55 PM	52.23
2/27/2017	7:32:55 PM	1772.309	2/27/2017	7:32:55 PM	52.15
2/27/2017	7:26:55 PM	1763.637	2/27/2017	7:26:55 PM	52.06
2/27/2017	7:20:55 PM	1838.245	2/27/2017	7:20:55 PM	51.94
2/27/2017	7:14:55 PM	1828.635	2/27/2017	7:14:55 PM	51.62
2/27/2017	7:08:55 PM	1797.97	2/27/2017	7:02:55 PM	51.55
2/27/2017	7:02:55 PM	1776.942	2/27/2017	6:56:55 PM	51.5
2/27/2017	6:56:55 PM	1814.853	2/27/2017	6:50:55 PM	51.55
2/27/2017	6:50:55 PM	1804.019	2/27/2017	6:44:55 PM	49.63
2/27/2017	11:26:55 AM	0	2/27/2017	6:38:55 PM	49.53
2/27/2017	11:20:55 AM	1798.152	2/27/2017	6:32:55 PM	49.41
2/27/2017	11:14:55 AM	1795.078	2/27/2017	6:26:55 PM	48.88
2/27/2017	11:08:55 AM	1801.114	2/27/2017	6:20:55 PM	48.81
2/27/2017	11:02:55 AM	1810.868	2/27/2017	6:14:55 PM	48.79
2/27/2017	10:56:55 AM	1792.301	2/27/2017	6:02:55 PM	48.74
2/27/2017	10:50:55 AM	1776.142	2/27/2017	5:56:55 PM	48.69
			2/27/2017	5:50:55 PM	48.64
			2/27/2017	5:44:55 PM	48.55
			2/27/2017	5:38:55 PM	48.43
			2/27/2017	5:32:55 PM	48.31
			2/27/2017	5:26:55 PM	48.24
			2/27/2017	5:20:55 PM	48.12
			2/27/2017	5:14:55 PM	48
			2/27/2017	5:08:55 PM	47.71
			2/27/2017	5:02:55 PM	47.61
			2/27/2017	4:56:55 PM	47.39
			2/27/2017	4:50:55 PM	47.32
			2/27/2017	4:44:55 PM	314.34
			2/27/2017	4:38:55 PM	316.98
			2/27/2017	4:32:55 PM	319.55
			2/27/2017	4:26:55 PM	322.17
			2/27/2017	4:20:55 PM	324
			2/27/2017	4:14:55 PM	314.31
			2/27/2017	4:08:55 PM	314.74
			2/27/2017	4:02:55 PM	317.27
			2/27/2017	3:56:55 PM	319.65
			2/27/2017	3:50:55 PM	322.12
			2/27/2017	3:44:55 PM	324.65
			2/27/2017	3:38:55 PM	327.12
			2/27/2017	3:32:55 PM	329.65
			2/27/2017	3:26:55 PM	332.17
			2/27/2017	3:20:55 PM	334.69
			2/27/2017	3:14:55 PM	337.31

2/27/2017	3:08:55 PM	339.88
2/27/2017	3:02:55 PM	342.48
2/27/2017	2:56:55 PM	345.1
2/27/2017	2:50:55 PM	347.72
2/27/2017	2:44:55 PM	350.34
2/27/2017	2:38:55 PM	353.01
2/27/2017	2:32:55 PM	355.72
2/27/2017	2:26:55 PM	358.34
2/27/2017	2:20:55 PM	360.99
2/27/2017	2:14:55 PM	363.61
2/27/2017	2:08:55 PM	366.25
2/27/2017	2:02:55 PM	369.04
2/27/2017	1:56:55 PM	371.82
2/27/2017	1:50:55 PM	374.71
2/27/2017	1:44:55 PM	377.59
2/27/2017	1:38:55 PM	380.5
2/27/2017	1:32:55 PM	383.46
2/27/2017	1:26:55 PM	358.2
2/27/2017	1:20:55 PM	326.67
2/27/2017	1:14:55 PM	297.92
2/27/2017	1:08:55 PM	270.14
2/27/2017	1:02:55 PM	383.41
2/27/2017	12:56:56 PM	377.71
2/27/2017	12:50:56 PM	379.73
2/27/2017	12:44:56 PM	381.77
2/27/2017	12:38:56 PM	383.87
2/27/2017	12:32:56 PM	386.05
2/27/2017	12:26:55 PM	388.24
2/27/2017	12:20:55 PM	390.64
2/27/2017	12:14:55 PM	393.02
2/27/2017	12:08:55 PM	395.57
2/27/2017	12:02:56 PM	398.19
2/27/2017	11:56:56 AM	383.65
2/27/2017	11:50:56 AM	318.13
2/27/2017	11:44:56 AM	246.68
2/27/2017	11:38:56 AM	174.8
2/27/2017	11:32:55 AM	102.74
2/27/2017	11:26:55 AM	33.21
2/27/2017	11:20:55 AM	385.07
2/27/2017	11:14:55 AM	328.56
2/27/2017	11:08:55 AM	218.23
2/27/2017	11:02:55 AM	94.21
2/27/2017	10:56:55 AM	62.1
2/27/2017	10:50:55 AM	53.79
2/27/2017	10:44:55 AM	15.81
2/27/2017	10:38:55 AM	15.93
2/27/2017	10:26:55 AM	16.03
2/27/2017	10:20:55 AM	15.79
2/27/2017	10:14:55 AM	15.14
2/27/2017	10:08:55 AM	14.3
2/27/2017	10:02:55 AM	13.72
2/27/2017	9:56:55 AM	13.55
2/27/2017	9:50:55 AM	13.7
2/27/2017	9:44:55 AM	13.87
2/27/2017	9:38:55 AM	13.92
2/27/2017	9:32:55 AM	13.82
2/27/2017	9:26:55 AM	13.41
2/27/2017	9:20:55 AM	12.83
2/27/2017	9:14:55 AM	12.43
2/27/2017	9:08:55 AM	12.38
2/27/2017	9:02:55 AM	12.67

2/27/2017	8:56:55 AM	12.95
2/27/2017	8:44:55 AM	13.17
2/27/2017	8:38:55 AM	12.67
2/27/2017	8:32:55 AM	12.04
2/27/2017	8:26:55 AM	11.73
2/27/2017	8:20:55 AM	11.92
2/27/2017	8:14:55 AM	12.28
2/27/2017	8:08:55 AM	12.67
2/27/2017	8:02:55 AM	12.93
2/27/2017	7:56:55 AM	12.91
2/27/2017	7:50:55 AM	12.43
2/27/2017	7:44:55 AM	11.75
2/27/2017	7:38:55 AM	11.34
2/27/2017	7:32:55 AM	11.46
2/27/2017	7:26:55 AM	11.87
2/27/2017	7:20:55 AM	12.21
2/27/2017	7:14:55 AM	12.19
2/27/2017	7:08:55 AM	11.42
2/27/2017	7:02:55 AM	10.74
2/27/2017	6:56:55 AM	10.62
2/27/2017	6:50:55 AM	11.46
2/27/2017	6:44:55 AM	12.91
2/27/2017	6:38:55 AM	14.2
2/27/2017	6:32:55 AM	14.66
2/27/2017	6:26:55 AM	14.23
2/27/2017	6:20:55 AM	14.42
2/27/2017	6:14:55 AM	16.34
2/27/2017	6:08:55 AM	20.45
2/27/2017	6:02:55 AM	25.45
2/27/2017	5:56:55 AM	30.28
2/27/2017	5:50:55 AM	34.06
2/27/2017	5:44:55 AM	35.74
2/27/2017	5:38:55 AM	35.71
2/27/2017	5:32:55 AM	37.2
2/27/2017	5:26:55 AM	41.46
2/27/2017	5:20:55 AM	46.91
2/27/2017	5:14:55 AM	50.83
2/27/2017	5:08:55 AM	50.64
2/27/2017	5:02:55 AM	50.74
2/27/2017	4:56:55 AM	50.93
2/27/2017	4:50:55 AM	50.86
2/27/2017	4:44:55 AM	50.81
2/27/2017	4:38:55 AM	50.78
2/27/2017	4:32:55 AM	50.61
2/27/2017	4:26:55 AM	50.11
2/27/2017	4:20:55 AM	50.28
2/27/2017	4:14:55 AM	50.21
2/27/2017	4:08:55 AM	50.3
2/27/2017	4:02:55 AM	50.42
2/27/2017	3:56:55 AM	50.59
2/27/2017	3:50:55 AM	50.18
2/27/2017	3:44:55 AM	50.37
2/27/2017	3:38:55 AM	50.54
2/27/2017	3:26:55 AM	50.61
2/27/2017	3:20:55 AM	50.9
2/27/2017	3:14:55 AM	50.98
2/27/2017	3:08:55 AM	51.17
2/27/2017	3:02:55 AM	50.06
2/27/2017	2:56:55 AM	49.75
2/27/2017	2:50:55 AM	50.54
2/27/2017	2:44:55 AM	51.48

2/27/2017	2:38:55 AM	51.58
2/27/2017	2:32:55 AM	51.6
2/27/2017	2:26:55 AM	51.86
2/27/2017	2:20:55 AM	51.94
2/27/2017	2:14:55 AM	52.06
2/27/2017	2:08:55 AM	52.49
2/27/2017	2:02:55 AM	52.56
2/27/2017	1:56:55 AM	52.71
2/27/2017	1:50:55 AM	52.9
2/27/2017	1:44:55 AM	53.02
2/27/2017	1:38:55 AM	54.05
2/27/2017	1:32:55 AM	54.15
2/27/2017	1:26:55 AM	54.12
2/27/2017	1:20:55 AM	53.86
2/27/2017	1:14:55 AM	53.45
2/27/2017	1:08:55 AM	53.07
2/27/2017	1:02:55 AM	52.78
2/27/2017	12:56:04 AM	52.42
2/27/2017	12:50:55 AM	51.48
2/27/2017	12:44:55 AM	51.26
2/27/2017	12:38:55 AM	50.95
2/27/2017	12:26:55 AM	50.54
2/27/2017	12:20:55 AM	50.64
2/27/2017	12:14:55 AM	50.78
2/27/2017	12:08:55 AM	50.9
2/27/2017	12:02:55 AM	50.47
2/26/2017	11:56:55 PM	50.61
2/26/2017	11:50:55 PM	50.23
2/26/2017	11:44:55 PM	50.28
2/26/2017	11:38:55 PM	50.21
2/26/2017	11:32:55 PM	50.04
2/26/2017	11:26:55 PM	50.01
2/26/2017	11:20:55 PM	50.06
2/26/2017	11:08:55 PM	50.09
2/26/2017	11:02:55 PM	50.13

Tommy K

Unit was not flowing during the event. Increased pressures appear to be from a faulty check valves, this has been reported to Operations to inspect and clean (potentially paraffin buildup).

20170227 Morning S.P.: 335

20170227 Night S.P.: 335

20170310 S.P.: 335

FQIT-1000			PT-1100		
Date	Time	Flowrate (bbl/d)	Date	Time	Pressure (psig)
	MAX:	1492.00		MAX:	340.09
	MIN:	-51.70		MIN:	20.51
	AVG:	1282.12		AVG:	112.03
2/27/2017	7:40:10 PM	0	2/27/2017	7:46:11 PM	31.95
2/27/2017	6:38:50 PM	0	2/27/2017	7:40:10 PM	31.85
2/27/2017	6:32:49 PM	-51.7	2/27/2017	7:38:49 PM	31.79
2/27/2017	7:26:49 AM	0	2/27/2017	7:32:49 PM	31.76
2/27/2017	7:20:49 AM	1,354.10	2/27/2017	7:26:49 PM	31.69
2/27/2017	7:14:50 AM	1,456.80	2/27/2017	7:20:49 PM	31.56
2/27/2017	7:08:49 AM	1,430.80	2/27/2017	7:14:49 PM	31.05
2/27/2017	7:02:50 AM	1,385.20	2/27/2017	7:08:49 PM	30.89
2/27/2017	6:56:50 AM	1,341.50	2/27/2017	7:02:49 PM	30.8
2/27/2017	6:50:50 AM	1,399.30	2/27/2017	6:56:49 PM	30.76
2/27/2017	6:44:50 AM	1,373.70	2/27/2017	6:50:49 PM	30.73
2/27/2017	6:38:50 AM	1,443.10	2/27/2017	6:44:49 PM	29.9
2/27/2017	6:32:50 AM	1,365.90	2/27/2017	6:38:49 PM	29.22
2/27/2017	6:26:50 AM	1,492.00	2/27/2017	6:32:49 PM	27.33
2/27/2017	6:20:50 AM	1,415.70	2/27/2017	6:26:49 PM	23.04
2/27/2017	6:14:50 AM	1,399.70	2/27/2017	6:20:49 PM	22.94
2/27/2017	6:08:50 AM	1,407.00	2/27/2017	6:14:49 PM	22.88
2/27/2017	6:02:50 AM	1,375.20	2/27/2017	6:08:49 PM	22.85
2/27/2017	5:56:50 AM	1,440.00	2/27/2017	6:02:49 PM	22.75
2/27/2017	5:50:50 AM	1,404.50	2/27/2017	5:56:49 PM	22.66
2/27/2017	5:44:50 AM	1,434.70	2/27/2017	5:50:49 PM	22.5
2/27/2017	5:38:50 AM	1,330.00	2/27/2017	5:44:49 PM	22.43
2/27/2017	5:32:50 AM	1,434.20	2/27/2017	5:38:49 PM	22.37
2/27/2017	5:26:50 AM	1,411.20	2/27/2017	5:32:49 PM	22.21
2/27/2017	5:20:50 AM	1,416.60	2/27/2017	5:26:49 PM	22.05
2/27/2017	5:14:50 AM	1,430.50	2/27/2017	5:20:49 PM	21.82
2/27/2017	5:08:50 AM	1,423.60	2/27/2017	5:14:49 PM	21.66
2/27/2017	5:02:49 AM	1,320.50	2/27/2017	5:08:49 PM	21.02
2/27/2017	4:56:49 AM	1,429.00	2/27/2017	5:02:49 PM	20.77
2/27/2017	4:50:50 AM	1,484.70	2/27/2017	4:56:49 PM	20.51
2/27/2017	4:44:50 AM	1,409.10	2/27/2017	4:50:49 PM	21.44
2/27/2017	4:38:50 AM	1,405.20	2/27/2017	4:44:49 PM	296.19
2/27/2017	4:32:50 AM	1,418.90	2/27/2017	4:38:49 PM	298.11
2/27/2017	4:26:50 AM	1,398.40	2/27/2017	4:26:49 PM	299.3
2/27/2017	4:20:50 AM	1,408.00	2/27/2017	4:20:49 PM	299.75
2/27/2017	4:14:49 AM	1,428.10	2/27/2017	4:14:49 PM	297.79
2/27/2017	4:08:50 AM	1,469.30	2/27/2017	4:08:49 PM	297.28
2/27/2017	4:02:50 AM	1,388.50	2/27/2017	4:02:49 PM	298.34
2/27/2017	3:56:50 AM	1,429.10	2/27/2017	3:56:49 PM	297.22
2/27/2017	3:50:50 AM	1,415.40	2/27/2017	3:50:49 PM	297.09
2/27/2017	3:44:49 AM	1,369.80	2/27/2017	3:44:49 PM	298.82
2/27/2017	3:38:49 AM	1,435.80	2/27/2017	3:38:49 PM	300.45
2/27/2017	3:32:50 AM	1,352.90	2/27/2017	3:32:49 PM	301.64
2/27/2017	3:26:50 AM	1,429.10	2/27/2017	3:26:49 PM	300.58

2/27/2017	3:20:50 AM	1,441.10	2/27/2017	3:20:49 PM	300.71
2/27/2017	3:14:50 AM	1,411.20	2/27/2017	3:14:49 PM	302.15
2/27/2017	3:08:49 AM	1,470.30	2/27/2017	3:08:49 PM	303.85
2/27/2017	3:02:50 AM	1,403.20	2/27/2017	3:02:49 PM	304.59
2/27/2017	2:56:49 AM	1,394.20	2/27/2017	2:56:49 PM	302.54
2/27/2017	2:50:49 AM	1,462.10	2/27/2017	2:50:49 PM	303.14
2/27/2017	2:44:50 AM	1,343.50	2/27/2017	2:44:49 PM	304.94
2/27/2017	2:38:50 AM	1,447.10	2/27/2017	2:38:49 PM	306.48
2/27/2017	2:32:50 AM	1,388.50	2/27/2017	2:32:49 PM	305.61
2/27/2017	2:26:50 AM	167.9	2/27/2017	2:26:49 PM	304.94
			2/27/2017	2:20:49 PM	306.64
			2/27/2017	2:14:49 PM	308.08
			2/27/2017	2:08:49 PM	308.14
			2/27/2017	2:02:49 PM	307.5
			2/27/2017	1:56:49 PM	309.23
			2/27/2017	1:50:49 PM	311.35
			2/27/2017	1:44:49 PM	312.82
			2/27/2017	1:38:49 PM	312.25
			2/27/2017	1:32:49 PM	311.67
			2/27/2017	1:26:49 PM	314.04
			2/27/2017	1:20:49 PM	317.5
			2/27/2017	1:14:49 PM	315.71
			2/27/2017	1:08:49 PM	308.18
			2/27/2017	1:02:49 PM	310.03
			2/27/2017	12:56:49 PM	309.33
			2/27/2017	12:50:49 PM	310.71
			2/27/2017	12:44:49 PM	311.03
			2/27/2017	12:38:49 PM	309.84
			2/27/2017	12:32:49 PM	311.22
			2/27/2017	12:26:49 PM	312.89
			2/27/2017	12:20:49 PM	314.17
			2/27/2017	12:14:49 PM	313.33
			2/27/2017	12:08:49 PM	315.32
			2/27/2017	12:02:49 PM	317.56
			2/27/2017	11:56:49 AM	319.33
			2/27/2017	11:50:49 AM	319.1
			2/27/2017	11:44:49 AM	322.37
			2/27/2017	11:38:49 AM	326.92
			2/27/2017	11:32:49 AM	331.5
			2/27/2017	11:26:49 AM	334.36
			2/27/2017	11:20:49 AM	339.87
			2/27/2017	11:14:49 AM	340.09
			2/27/2017	11:08:49 AM	249.24
			2/27/2017	11:02:49 AM	86.84
			2/27/2017	10:56:49 AM	44.99
			2/27/2017	10:50:49 AM	34.99
			2/27/2017	10:44:49 AM	32.62
			2/27/2017	10:38:49 AM	31.88
			2/27/2017	10:32:49 AM	31.66
			2/27/2017	10:26:49 AM	31.5
			2/27/2017	10:20:49 AM	31.37
			2/27/2017	10:14:49 AM	31.34
			2/27/2017	10:08:49 AM	31.31
			2/27/2017	9:56:49 AM	31.21
			2/27/2017	9:50:49 AM	31.15
			2/27/2017	9:44:49 AM	31.08
			2/27/2017	9:38:49 AM	31.05
			2/27/2017	9:32:49 AM	31.02
			2/27/2017	9:26:49 AM	30.96
			2/27/2017	9:20:49 AM	30.86
			2/27/2017	9:02:49 AM	30.83

2/27/2017	8:56:49 AM	30.8
2/27/2017	8:50:49 AM	30.86
2/27/2017	8:44:49 AM	30.89
2/27/2017	8:32:49 AM	31.21
2/27/2017	8:26:49 AM	31.31
2/27/2017	8:20:49 AM	31.37
2/27/2017	8:14:49 AM	31.63
2/27/2017	8:08:49 AM	32.14
2/27/2017	8:02:49 AM	32.49
2/27/2017	7:56:49 AM	32.59
2/27/2017	7:50:50 AM	32.75
2/27/2017	7:38:49 AM	32.81
2/27/2017	7:32:49 AM	32.65
2/27/2017	7:26:49 AM	32.62
2/27/2017	7:20:49 AM	35.15
2/27/2017	7:14:49 AM	34.99
2/27/2017	7:08:49 AM	34.93
2/27/2017	7:02:49 AM	34.38
2/27/2017	6:56:49 AM	34.29
2/27/2017	6:50:49 AM	34.1
2/27/2017	6:44:49 AM	33.87
2/27/2017	6:38:49 AM	33.81
2/27/2017	6:32:49 AM	34.19
2/27/2017	6:26:49 AM	32.81
2/27/2017	6:20:49 AM	32.43
2/27/2017	6:14:49 AM	32.27
2/27/2017	6:08:49 AM	32.24
2/27/2017	6:02:49 AM	32.3
2/27/2017	5:56:49 AM	32.4
2/27/2017	5:50:49 AM	32.53
2/27/2017	5:38:50 AM	32.69
2/27/2017	5:32:49 AM	32.81
2/27/2017	5:26:49 AM	32.78
2/27/2017	5:20:49 AM	33.13
2/27/2017	5:14:49 AM	33.65
2/27/2017	5:08:49 AM	33.58
2/27/2017	5:02:49 AM	33.36
2/27/2017	4:56:49 AM	33.26
2/27/2017	4:50:49 AM	33.55
2/27/2017	4:44:49 AM	33.52
2/27/2017	4:38:49 AM	33.49
2/27/2017	4:32:49 AM	33.13
2/27/2017	4:26:49 AM	32.04
2/27/2017	4:20:49 AM	32.24
2/27/2017	4:14:49 AM	32.17
2/27/2017	4:08:49 AM	32.37
2/27/2017	4:02:49 AM	32.24
2/27/2017	3:56:49 AM	32.59
2/27/2017	3:50:49 AM	32.21
2/27/2017	3:44:49 AM	32.17
2/27/2017	3:38:49 AM	32.46
2/27/2017	3:32:49 AM	32.56
2/27/2017	3:26:49 AM	32.65
2/27/2017	3:20:49 AM	32.72
2/27/2017	3:14:49 AM	32.81
2/27/2017	3:08:49 AM	33.33
2/27/2017	3:02:49 AM	32.17
2/27/2017	2:56:49 AM	32.33
2/27/2017	2:50:49 AM	34.19
2/27/2017	2:38:50 AM	36.24
2/27/2017	2:32:49 AM	36.4

2/27/2017	2:26:49 AM	36.44
2/27/2017	2:20:49 AM	36.18
2/27/2017	2:14:50 AM	36.76
2/27/2017	2:08:49 AM	37.91
2/27/2017	2:02:49 AM	38.01
2/27/2017	1:56:49 AM	38.1
2/27/2017	1:50:49 AM	38.36
2/27/2017	1:44:49 AM	38.55
2/27/2017	1:32:49 AM	39.35
2/27/2017	1:26:49 AM	39.29
2/27/2017	1:20:50 AM	39.03
2/27/2017	1:14:49 AM	38.55
2/27/2017	1:08:49 AM	38.04
2/27/2017	1:02:49 AM	37.59
2/27/2017	12:56:49 AM	37.04
2/27/2017	12:50:49 AM	35.03
2/27/2017	12:44:49 AM	35.35
2/27/2017	12:38:49 AM	34.51
2/27/2017	12:26:49 AM	33.55
2/27/2017	12:20:50 AM	33.78
2/27/2017	12:14:50 AM	34
2/27/2017	12:08:49 AM	34.03
2/27/2017	12:02:50 AM	32.21
2/26/2017	11:56:49 PM	32.43
2/26/2017	11:44:49 PM	31.44
2/26/2017	11:26:50 PM	31.5
2/26/2017	11:08:50 PM	31.44
2/26/2017	11:02:49 PM	31.4

Wahlstrom

Unit was flowing during the event. It stopped flowing as a result of the volume batch being complete and shut down due to normal operating conditions. PAHH was identified as being incorrect and was changed to 125 as a result of the temporary set point changes. Increased pressures appear to be from a faulty check valves, this has been reported to Operations to inspect and clean (potentially paraffin buildup).

20170227 Morning S.P.: 390
20170227 Night S.P.: 390
20170310 S.P.: 125

FT-100			PT-110		
Date	Time	Flowrate (bbl/d)	Date	Time	Pressure (psig)
	MAX:	2049.11		MAX:	394.66
	MIN:	0.00		MIN:	17.30
	AVG:	1646.35		AVG:	103.53
2/27/2017	7:40:12 PM	0	2/27/2017	7:46:14 PM	19.66
2/27/2017	11:20:55 AM	0	2/27/2017	7:40:12 PM	19.32
2/27/2017	11:14:55 AM	1766.72	2/27/2017	7:38:56 PM	19.4
2/27/2017	11:08:55 AM	1878.072	2/27/2017	7:32:56 PM	19.59
2/27/2017	11:02:55 AM	2049.105	2/27/2017	7:26:56 PM	17.3
2/27/2017	10:56:55 AM	1823.516	2/27/2017	7:20:56 PM	20.91
2/27/2017	10:50:55 AM	1573.099	2/27/2017	7:14:56 PM	20.72
2/27/2017	10:44:55 AM	1611.415	2/27/2017	7:08:56 PM	20.62
2/27/2017	10:38:55 AM	1882.859	2/27/2017	7:02:56 PM	20.55
2/27/2017	10:32:55 AM	1860.001	2/27/2017	6:56:56 PM	20.45
2/27/2017	10:26:55 AM	1689.112	2/27/2017	6:50:56 PM	20.24
2/27/2017	10:20:55 AM	1828.92	2/27/2017	6:44:55 PM	20.04
2/27/2017	10:14:55 AM	1810.548	2/27/2017	6:38:55 PM	19.97
2/27/2017	10:08:55 AM	1779.759	2/27/2017	6:32:56 PM	19.64
2/27/2017	10:02:55 AM	1765.438	2/27/2017	6:26:56 PM	19.68
2/27/2017	9:56:55 AM	1773.035	2/27/2017	6:20:56 PM	19.59
2/27/2017	9:50:55 AM	1772.298	2/27/2017	6:14:56 PM	19.61
2/27/2017	9:44:55 AM	1822.581	2/27/2017	6:08:56 PM	19.85
2/27/2017	9:38:55 AM	1759.682	2/27/2017	6:02:56 PM	19.61
2/27/2017	9:32:55 AM	1872.191	2/27/2017	5:56:56 PM	20.24
2/27/2017	9:26:55 AM	1763.595	2/27/2017	5:50:56 PM	20.33
2/27/2017	12:26:55 AM	0	2/27/2017	5:44:56 PM	20.28
2/27/2017	12:20:55 AM	1863.308	2/27/2017	5:38:56 PM	19.23
2/27/2017	12:14:55 AM	1730.462	2/27/2017	5:32:56 PM	18.67
2/27/2017	12:08:55 AM	1767.237	2/27/2017	5:26:56 PM	18.6
2/27/2017	12:02:55 AM	1898.829	2/27/2017	5:20:56 PM	18.48
2/26/2017	11:56:55 PM	1785.368	2/27/2017	5:14:56 PM	18.43
2/26/2017	11:50:55 PM	1789.023	2/27/2017	5:08:56 PM	18.53
2/26/2017	11:44:55 PM	1738.274	2/27/2017	5:02:56 PM	20.72
2/26/2017	11:38:55 PM	1772.603	2/27/2017	4:56:56 PM	24.06
2/26/2017	11:32:55 PM	1793.136	2/27/2017	4:50:55 PM	29.75
2/26/2017	11:26:55 PM	1833.575	2/27/2017	4:44:56 PM	307.27
2/26/2017	11:20:55 PM	1790.119	2/27/2017	4:38:56 PM	309.82
2/26/2017	11:14:55 PM	1788.548	2/27/2017	4:32:56 PM	312.39
2/26/2017	11:08:55 PM	1772.952	2/27/2017	4:26:56 PM	314.89
2/26/2017	11:02:55 PM	1863.168	2/27/2017	4:20:56 PM	316.45
			2/27/2017	4:14:56 PM	306.45
			2/27/2017	4:08:56 PM	307.51
			2/27/2017	4:02:56 PM	310.54
			2/27/2017	3:56:56 PM	312.53
			2/27/2017	3:50:56 PM	315.47
			2/27/2017	3:44:56 PM	317.53
			2/27/2017	3:38:56 PM	320.44
			2/27/2017	3:32:56 PM	322.56

2/27/2017	3:26:56 PM	325.49
2/27/2017	3:20:56 PM	328.06
2/27/2017	3:14:56 PM	330.27
2/27/2017	3:08:56 PM	333.2
2/27/2017	3:02:56 PM	335.82
2/27/2017	2:56:56 PM	338.35
2/27/2017	2:50:56 PM	341.11
2/27/2017	2:44:56 PM	343.75
2/27/2017	2:38:56 PM	346.47
2/27/2017	2:32:56 PM	349.16
2/27/2017	2:26:56 PM	351.8
2/27/2017	2:20:56 PM	354.42
2/27/2017	2:14:56 PM	357.07
2/27/2017	2:08:56 PM	354.64
2/27/2017	2:02:56 PM	339.23
2/27/2017	1:56:56 PM	323.59
2/27/2017	1:50:56 PM	312.92
2/27/2017	1:44:56 PM	296.6
2/27/2017	1:38:56 PM	285.42
2/27/2017	1:32:56 PM	268.1
2/27/2017	1:26:56 PM	252.62
2/27/2017	1:20:56 PM	224.88
2/27/2017	1:14:56 PM	199.86
2/27/2017	1:08:56 PM	178.86
2/27/2017	1:02:56 PM	378.24
2/27/2017	12:56:56 PM	371.34
2/27/2017	12:50:56 PM	373.39
2/27/2017	12:44:56 PM	375.41
2/27/2017	12:38:56 PM	377.42
2/27/2017	12:32:56 PM	379.73
2/27/2017	12:26:56 PM	381.94
2/27/2017	12:20:56 PM	384.32
2/27/2017	12:14:56 PM	386.7
2/27/2017	12:08:56 PM	389.22
2/27/2017	12:02:56 PM	391.87
2/27/2017	11:56:56 AM	394.66
2/27/2017	11:50:56 AM	350.1
2/27/2017	11:44:56 AM	289.17
2/27/2017	11:38:56 AM	229.86
2/27/2017	11:32:56 AM	168.19
2/27/2017	11:26:56 AM	93.23
2/27/2017	11:20:56 AM	28.41
2/27/2017	11:14:56 AM	322.2
2/27/2017	11:08:56 AM	213.3
2/27/2017	11:02:56 AM	90.85
2/27/2017	10:56:56 AM	58.35
2/27/2017	10:50:56 AM	49
2/27/2017	10:44:56 AM	43.72
2/27/2017	10:38:56 AM	38.96
2/27/2017	10:32:56 AM	33.86
2/27/2017	10:26:56 AM	30.21
2/27/2017	10:20:55 AM	37.8
2/27/2017	10:14:56 AM	25.12
2/27/2017	10:08:55 AM	25.04
2/27/2017	10:02:56 AM	25.21
2/27/2017	9:56:56 AM	25.14
2/27/2017	9:50:56 AM	25.07
2/27/2017	9:44:56 AM	24.99
2/27/2017	9:38:56 AM	24.27
2/27/2017	9:32:56 AM	21.37
2/27/2017	9:26:56 AM	21.49

2/27/2017	9:20:57 AM	18.53
2/27/2017	9:14:57 AM	18.67
2/27/2017	9:08:57 AM	19.08
2/27/2017	9:02:57 AM	19.27
2/27/2017	8:56:57 AM	19.15
2/27/2017	8:50:56 AM	18.96
2/27/2017	8:44:56 AM	18.94
2/27/2017	8:38:56 AM	18.99
2/27/2017	8:32:56 AM	18.96
2/27/2017	8:20:56 AM	18.94
2/27/2017	8:14:56 AM	19.18
2/27/2017	8:08:56 AM	19.42
2/27/2017	8:02:56 AM	19.32
2/27/2017	7:56:56 AM	19.03
2/27/2017	7:50:56 AM	19.01
2/27/2017	7:44:56 AM	18.94
2/27/2017	7:38:56 AM	18.84
2/27/2017	7:32:56 AM	18.89
2/27/2017	7:26:56 AM	19.18
2/27/2017	7:20:56 AM	19.4
2/27/2017	7:14:56 AM	19.64
2/27/2017	7:08:56 AM	21.29
2/27/2017	7:02:56 AM	21.27
2/27/2017	6:56:56 AM	21.25
2/27/2017	6:50:56 AM	21.22
2/27/2017	6:44:56 AM	21.17
2/27/2017	6:38:56 AM	20.98
2/27/2017	6:32:56 AM	20.91
2/27/2017	6:26:56 AM	21.08
2/27/2017	6:20:56 AM	25.04
2/27/2017	6:14:56 AM	24.8
2/27/2017	6:08:56 AM	24.68
2/27/2017	6:02:56 AM	24.61
2/27/2017	5:56:56 AM	24.37
2/27/2017	5:50:56 AM	24.3
2/27/2017	5:44:56 AM	24.9
2/27/2017	5:38:56 AM	25.19
2/27/2017	5:32:56 AM	25.14
2/27/2017	5:26:56 AM	25.21
2/27/2017	5:20:56 AM	22.04
2/27/2017	5:14:56 AM	21.99
2/27/2017	5:08:56 AM	22.01
2/27/2017	5:02:56 AM	22.23
2/27/2017	4:56:56 AM	22.04
2/27/2017	4:50:56 AM	20.21
2/27/2017	4:44:56 AM	20.02
2/27/2017	4:38:56 AM	20.24
2/27/2017	4:32:56 AM	19.56
2/27/2017	4:26:56 AM	19.47
2/27/2017	4:20:56 AM	20.24
2/27/2017	4:14:56 AM	20.52
2/27/2017	4:08:56 AM	20.4
2/27/2017	4:02:56 AM	20.21
2/27/2017	3:56:56 AM	19.95
2/27/2017	3:50:56 AM	20.04
2/27/2017	3:44:56 AM	20.12
2/27/2017	3:38:56 AM	19.85
2/27/2017	3:32:56 AM	20.21
2/27/2017	3:26:56 AM	20.12
2/27/2017	3:20:56 AM	20.07
2/27/2017	3:14:56 AM	19.83

2/27/2017	3:08:56 AM	19.97
2/27/2017	3:02:56 AM	18.77
2/27/2017	2:56:56 AM	22.74
2/27/2017	2:50:56 AM	22.69
2/27/2017	2:44:56 AM	23.02
2/27/2017	2:38:56 AM	23.22
2/27/2017	2:32:56 AM	23.1
2/27/2017	2:26:56 AM	21.22
2/27/2017	2:20:56 AM	22.01
2/27/2017	2:08:56 AM	22.16
2/27/2017	2:02:56 AM	22.09
2/27/2017	1:56:56 AM	22.06
2/27/2017	1:50:56 AM	22.09
2/27/2017	1:44:56 AM	22.33
2/27/2017	1:38:56 AM	22.45
2/27/2017	1:32:56 AM	22.52
2/27/2017	1:26:56 AM	26.27
2/27/2017	1:20:56 AM	26.2
2/27/2017	1:14:56 AM	25.93
2/27/2017	1:08:56 AM	24.95
2/27/2017	1:02:56 AM	24.75
2/27/2017	12:50:56 AM	24.44
2/27/2017	12:44:56 AM	24.23
2/27/2017	12:38:56 AM	24.13
2/27/2017	12:32:56 AM	24.47
2/27/2017	12:26:56 AM	18.51
2/27/2017	12:20:56 AM	29.87
2/27/2017	12:14:56 AM	29.61
2/27/2017	12:08:56 AM	29.3
2/27/2017	12:02:56 AM	28.79
2/26/2017	11:56:56 PM	23.77
2/26/2017	11:50:56 PM	20.86
2/26/2017	11:44:56 PM	20.93
2/26/2017	11:32:56 PM	21.05
2/26/2017	11:26:56 PM	21.01
2/26/2017	11:20:56 PM	21.1
2/26/2017	11:14:56 PM	20.89
2/26/2017	11:08:56 PM	21.17
2/26/2017	11:02:56 PM	21.13

Hay Butte 1A (Decomissioned)

Unit was not flowing at the time of the event. Increased pressures appear to be from a faulty check valves, this has been reported to Operations to inspect and clean (potentially paraffin buildup).

20170227 Morning S.P.: 315

20170227 Night S.P.: 315

20170310 S.P.: 315

PT-4017A

Date	Time	Pressure (psig)
	MAX:	49.88
	MIN:	2.06
	AVG:	10.98
2/27/2017	7:56:48 PM	2.06
2/27/2017	7:53:48 PM	2.1
2/27/2017	7:47:48 PM	2.21
2/27/2017	7:44:48 PM	2.33
2/27/2017	7:41:48 PM	2.4
2/27/2017	7:40:07 PM	2.48
2/27/2017	7:38:48 PM	2.48
2/27/2017	7:29:48 PM	2.55
2/27/2017	7:23:48 PM	2.62
2/27/2017	7:20:48 PM	2.55
2/27/2017	7:17:48 PM	2.59
2/27/2017	7:02:48 PM	2.55
2/27/2017	6:59:48 PM	2.66
2/27/2017	6:56:48 PM	2.7
2/27/2017	6:53:48 PM	2.74
2/27/2017	6:50:48 PM	2.78
2/27/2017	6:47:48 PM	2.93
2/27/2017	6:44:48 PM	3.04
2/27/2017	6:41:48 PM	3.15
2/27/2017	6:38:48 PM	3.26
2/27/2017	6:35:48 PM	3.3
2/27/2017	6:23:48 PM	3.38
2/27/2017	6:20:48 PM	3.34
2/27/2017	6:17:48 PM	3.3
2/27/2017	6:14:48 PM	3.26
2/27/2017	6:11:48 PM	3.23
2/27/2017	6:02:48 PM	3.19
2/27/2017	5:59:48 PM	3.11
2/27/2017	5:53:48 PM	3.15
2/27/2017	5:50:48 PM	3.11
2/27/2017	5:29:48 PM	3.19
2/27/2017	5:26:48 PM	3.08
2/27/2017	5:23:48 PM	3.04
2/27/2017	5:20:48 PM	2.93
2/27/2017	5:17:48 PM	2.89
2/27/2017	5:14:48 PM	2.74
2/27/2017	5:11:48 PM	2.66
2/27/2017	5:08:48 PM	2.59
2/27/2017	5:05:48 PM	2.62
2/27/2017	5:02:48 PM	2.55
2/27/2017	4:59:48 PM	2.48
2/27/2017	4:56:48 PM	2.4
2/27/2017	4:53:48 PM	2.36
2/27/2017	4:50:48 PM	3.08

2/27/2017	4:47:48 PM	9.11
2/27/2017	4:44:48 PM	9.04
2/27/2017	4:41:48 PM	8.93
2/27/2017	4:38:48 PM	8.85
2/27/2017	4:35:48 PM	8.74
2/27/2017	4:32:48 PM	8.59
2/27/2017	4:29:48 PM	8.4
2/27/2017	4:26:48 PM	8.21
2/27/2017	4:23:48 PM	8.06
2/27/2017	4:20:48 PM	7.88
2/27/2017	4:17:48 PM	7.73
2/27/2017	4:14:48 PM	7.65
2/27/2017	4:08:48 PM	7.58
2/27/2017	4:05:48 PM	7.65
2/27/2017	4:02:48 PM	7.8
2/27/2017	3:59:48 PM	8.03
2/27/2017	3:56:48 PM	8.48
2/27/2017	3:53:48 PM	9.3
2/27/2017	3:50:48 PM	10.84
2/27/2017	3:47:48 PM	12.68
2/27/2017	3:44:48 PM	14.62
2/27/2017	3:41:48 PM	16.54
2/27/2017	3:38:48 PM	18.08
2/27/2017	3:35:48 PM	19.28
2/27/2017	3:32:48 PM	19.2
2/27/2017	3:29:48 PM	18.9
2/27/2017	3:26:48 PM	18.71
2/27/2017	3:23:48 PM	18.68
2/27/2017	3:20:48 PM	18.64
2/27/2017	3:17:48 PM	18.71
2/27/2017	3:14:48 PM	18.94
2/27/2017	3:11:48 PM	19.12
2/27/2017	3:08:48 PM	19.28
2/27/2017	3:05:48 PM	19.5
2/27/2017	3:02:48 PM	19.69
2/27/2017	2:59:48 PM	19.95
2/27/2017	2:56:48 PM	20.18
2/27/2017	2:53:48 PM	20.36
2/27/2017	2:50:48 PM	20.44
2/27/2017	2:47:48 PM	20.51
2/27/2017	2:44:48 PM	20.36
2/27/2017	2:41:48 PM	20.1
2/27/2017	2:38:48 PM	19.8
2/27/2017	2:35:48 PM	19.43
2/27/2017	2:32:48 PM	19.12
2/27/2017	2:29:48 PM	18.86
2/27/2017	2:26:48 PM	18.53
2/27/2017	2:23:48 PM	18.3
2/27/2017	2:20:48 PM	18.15
2/27/2017	2:17:48 PM	18
2/27/2017	2:14:48 PM	17.93
2/27/2017	2:08:48 PM	17.89
2/27/2017	2:05:48 PM	18
2/27/2017	2:02:48 PM	18.15
2/27/2017	1:59:48 PM	18.49
2/27/2017	1:56:48 PM	18.86
2/27/2017	1:53:48 PM	19.09
2/27/2017	1:50:48 PM	19.35
2/27/2017	1:44:48 PM	19.39
2/27/2017	1:41:48 PM	19.31
2/27/2017	1:38:48 PM	19.2

2/27/2017	1:35:48 PM	18.94
2/27/2017	1:32:48 PM	18.71
2/27/2017	1:29:48 PM	18.53
2/27/2017	1:26:48 PM	18.3
2/27/2017	1:23:48 PM	18.11
2/27/2017	1:20:48 PM	17.93
2/27/2017	1:17:48 PM	17.74
2/27/2017	1:14:48 PM	17.55
2/27/2017	1:11:48 PM	17.36
2/27/2017	1:08:48 PM	17.18
2/27/2017	1:05:48 PM	17.03
2/27/2017	1:02:48 PM	16.8
2/27/2017	12:59:48 PM	16.65
2/27/2017	12:56:48 PM	16.5
2/27/2017	12:53:48 PM	16.31
2/27/2017	12:50:48 PM	16.16
2/27/2017	12:47:48 PM	16.01
2/27/2017	12:44:48 PM	15.86
2/27/2017	12:41:48 PM	15.75
2/27/2017	12:38:48 PM	15.6
2/27/2017	12:35:48 PM	15.49
2/27/2017	12:32:48 PM	15.34
2/27/2017	12:29:48 PM	15.23
2/27/2017	12:11:48 PM	15.19
2/27/2017	12:08:48 PM	15.34
2/27/2017	12:05:48 PM	15.49
2/27/2017	12:02:48 PM	15.6
2/27/2017	11:59:48 AM	15.75
2/27/2017	11:56:48 AM	15.9
2/27/2017	11:53:48 AM	16.09
2/27/2017	11:50:48 AM	16.24
2/27/2017	11:47:48 AM	16.43
2/27/2017	11:44:48 AM	16.65
2/27/2017	11:41:48 AM	16.91
2/27/2017	11:38:48 AM	17.21
2/27/2017	11:35:48 AM	17.55
2/27/2017	11:32:48 AM	17.96
2/27/2017	11:29:48 AM	18.53
2/27/2017	11:26:48 AM	19.24
2/27/2017	11:23:48 AM	20.06
2/27/2017	11:20:48 AM	21.11
2/27/2017	11:17:48 AM	22.5
2/27/2017	11:14:48 AM	24.49
2/27/2017	11:11:48 AM	27.49
2/27/2017	11:08:48 AM	33.83
2/27/2017	11:05:48 AM	49.88
2/27/2017	11:02:48 AM	49.5
2/27/2017	10:59:48 AM	32.48
2/27/2017	10:56:48 AM	19.84
2/27/2017	10:53:48 AM	13.95
2/27/2017	10:50:48 AM	11.18
2/27/2017	10:47:48 AM	10.24
2/27/2017	10:44:48 AM	9.79
2/27/2017	10:41:48 AM	9.45
2/27/2017	10:38:48 AM	9.26
2/27/2017	10:35:48 AM	9.15
2/27/2017	10:32:48 AM	9.04
2/27/2017	10:29:48 AM	8.93
2/27/2017	10:26:48 AM	8.85
2/27/2017	10:23:48 AM	8.78
2/27/2017	10:20:48 AM	8.74

2/27/2017	10:14:48 AM	8.66
2/27/2017	10:11:48 AM	8.62
2/27/2017	10:05:48 AM	8.59
2/27/2017	9:59:48 AM	8.51
2/27/2017	9:53:48 AM	8.48
2/27/2017	9:47:48 AM	8.44
2/27/2017	9:38:48 AM	8.4
2/27/2017	9:29:48 AM	8.29
2/27/2017	9:26:48 AM	8.25
2/27/2017	9:23:48 AM	8.18
2/27/2017	9:11:48 AM	8.21
2/27/2017	9:05:48 AM	8.25
2/27/2017	9:02:48 AM	8.29
2/27/2017	8:56:48 AM	8.25
2/27/2017	8:50:48 AM	8.29
2/27/2017	8:47:48 AM	8.33
2/27/2017	8:44:48 AM	8.4
2/27/2017	8:41:48 AM	8.48
2/27/2017	8:38:48 AM	8.59
2/27/2017	8:29:48 AM	8.66
2/27/2017	8:26:48 AM	8.7
2/27/2017	8:20:48 AM	8.78
2/27/2017	8:17:48 AM	8.89
2/27/2017	8:14:48 AM	9
2/27/2017	8:11:48 AM	9.26
2/27/2017	8:08:48 AM	9.64
2/27/2017	8:05:48 AM	9.71
2/27/2017	8:02:48 AM	9.79
2/27/2017	7:59:48 AM	9.83
2/27/2017	7:56:48 AM	9.9
2/27/2017	7:50:48 AM	9.94
2/27/2017	7:38:48 AM	9.98
2/27/2017	7:32:48 AM	9.94
2/27/2017	7:29:48 AM	10.12
2/27/2017	7:26:48 AM	10.99
2/27/2017	7:23:48 AM	11.33
2/27/2017	7:20:48 AM	11.25
2/27/2017	7:17:48 AM	11.18
2/27/2017	7:14:48 AM	11.14
2/27/2017	7:11:48 AM	11.03
2/27/2017	7:08:48 AM	10.88
2/27/2017	7:05:48 AM	10.65
2/27/2017	7:02:48 AM	10.5
2/27/2017	6:59:48 AM	10.43
2/27/2017	6:56:48 AM	10.31
2/27/2017	6:53:48 AM	10.24
2/27/2017	6:50:48 AM	10.12
2/27/2017	6:47:48 AM	10.01
2/27/2017	6:44:48 AM	9.9
2/27/2017	6:41:48 AM	9.83
2/27/2017	6:38:48 AM	9.75
2/27/2017	6:35:48 AM	9.6
2/27/2017	6:32:48 AM	9.15
2/27/2017	6:29:48 AM	8.96
2/27/2017	6:26:48 AM	8.85
2/27/2017	6:23:48 AM	8.74
2/27/2017	6:20:48 AM	8.62
2/27/2017	6:17:48 AM	8.51
2/27/2017	6:11:48 AM	8.48
2/27/2017	6:08:48 AM	8.44
2/27/2017	6:05:48 AM	8.48

2/27/2017	6:02:48 AM	8.51
2/27/2017	5:59:48 AM	8.59
2/27/2017	5:56:48 AM	8.66
2/27/2017	5:53:48 AM	8.74
2/27/2017	5:50:48 AM	8.81
2/27/2017	5:47:48 AM	8.89
2/27/2017	5:44:48 AM	8.96
2/27/2017	5:41:48 AM	9
2/27/2017	5:38:48 AM	9.08
2/27/2017	5:32:48 AM	9.11
2/27/2017	5:26:48 AM	9.15
2/27/2017	5:23:48 AM	9.19
2/27/2017	5:20:48 AM	9.34
2/27/2017	5:17:48 AM	9.71
2/27/2017	5:14:48 AM	9.83
2/27/2017	5:11:48 AM	9.79
2/27/2017	5:08:48 AM	9.75
2/27/2017	5:05:48 AM	9.71
2/27/2017	5:02:48 AM	9.64
2/27/2017	4:53:48 AM	9.68
2/27/2017	4:50:48 AM	9.64
2/27/2017	4:47:48 AM	9.53
2/27/2017	4:44:48 AM	9.26
2/27/2017	4:41:48 AM	8.96
2/27/2017	4:38:48 AM	8.59
2/27/2017	4:35:48 AM	7.88
2/27/2017	4:32:48 AM	6.6
2/27/2017	4:29:48 AM	4.46
2/27/2017	4:14:48 AM	5.06
2/27/2017	4:11:48 AM	5.1
2/27/2017	4:08:48 AM	5.14
2/27/2017	4:05:48 AM	5.18
2/27/2017	4:02:48 AM	5.25
2/27/2017	3:59:48 AM	5.33
2/27/2017	3:56:48 AM	5.4
2/27/2017	3:53:48 AM	5.48
2/27/2017	3:50:48 AM	5.55
2/27/2017	3:47:48 AM	5.62
2/27/2017	3:44:48 AM	5.7
2/27/2017	3:38:48 AM	5.81
2/27/2017	3:35:48 AM	5.89
2/27/2017	3:26:48 AM	5.96
2/27/2017	3:23:48 AM	6
2/27/2017	3:20:48 AM	6.04
2/27/2017	3:17:48 AM	6.11
2/27/2017	3:14:48 AM	6.15
2/27/2017	3:11:48 AM	6.19
2/27/2017	3:08:48 AM	6.26
2/27/2017	3:05:48 AM	6.3
2/27/2017	3:02:48 AM	6.45
2/27/2017	2:59:48 AM	6.75
2/27/2017	2:56:48 AM	7.09
2/27/2017	2:53:48 AM	7.69
2/27/2017	2:50:48 AM	8.66
2/27/2017	2:47:48 AM	10.09
2/27/2017	2:44:48 AM	12.04
2/27/2017	2:41:48 AM	12.11
2/27/2017	2:38:48 AM	12.15
2/27/2017	2:35:48 AM	12.11
2/27/2017	2:32:48 AM	12.26
2/27/2017	2:29:48 AM	12.83

2/27/2017	2:26:48 AM	12.64
2/27/2017	2:23:48 AM	12.79
2/27/2017	2:20:48 AM	12.86
2/27/2017	2:17:48 AM	13.01
2/27/2017	2:14:48 AM	13.99
2/27/2017	2:11:48 AM	14.85
2/27/2017	2:08:48 AM	14.93
2/27/2017	2:05:48 AM	14.96
2/27/2017	2:02:48 AM	15.08
2/27/2017	1:59:48 AM	15.15
2/27/2017	1:56:48 AM	15.3
2/27/2017	1:53:48 AM	15.41
2/27/2017	1:50:48 AM	15.49
2/27/2017	1:47:48 AM	15.56
2/27/2017	1:44:48 AM	15.64
2/27/2017	1:41:48 AM	16.46
2/27/2017	1:38:48 AM	16.5
2/27/2017	1:35:48 AM	16.54
2/27/2017	1:29:48 AM	16.46
2/27/2017	1:26:48 AM	16.43
2/27/2017	1:23:48 AM	16.28
2/27/2017	1:20:48 AM	16.09
2/27/2017	1:17:48 AM	15.79
2/27/2017	1:14:48 AM	15.53
2/27/2017	1:11:48 AM	15.23
2/27/2017	1:08:48 AM	14.93
2/27/2017	1:05:48 AM	14.62
2/27/2017	1:02:48 AM	14.25
2/27/2017	12:59:48 AM	13.69
2/27/2017	12:56:48 AM	12.83
2/27/2017	12:53:48 AM	11.44
2/27/2017	12:50:48 AM	9.83
2/27/2017	12:47:48 AM	8.33
2/27/2017	12:44:48 AM	6.49
2/27/2017	12:41:48 AM	3.86
2/27/2017	12:38:48 AM	4.84
2/27/2017	12:35:48 AM	4.76
2/27/2017	12:32:48 AM	4.69
2/27/2017	12:29:48 AM	4.65
2/27/2017	12:26:48 AM	4.61
2/27/2017	12:23:48 AM	4.58
2/27/2017	12:20:48 AM	4.54
2/27/2017	12:08:48 AM	4.5
2/26/2017	11:56:48 PM	4.39
2/26/2017	11:50:48 PM	4.35
2/26/2017	11:47:48 PM	4.31
2/26/2017	11:44:48 PM	4.28
2/26/2017	11:41:48 PM	4.24
2/26/2017	11:38:48 PM	4.16
2/26/2017	11:32:48 PM	4.09
2/26/2017	11:29:48 PM	4.05
2/26/2017	11:23:48 PM	4.01
2/26/2017	11:20:48 PM	4.05
2/26/2017	11:14:48 PM	4.09
2/26/2017	11:11:48 PM	4.12
2/26/2017	11:08:48 PM	4.2
2/26/2017	11:05:48 PM	4.16

Hay Butte 1B (Decomissioned)

Unit was not flowing at the time of the event. Increased pressures appear to be from a faulty check valves, this has been reported to Operations to inspect and clean (potentially paraffin buildup).

20170227 Morning S.P.: 315

20170227 Night S.P.: 315

20170310 S.P.: 315

PT-4017B

Date	Time	Pressure (psig)
	MAX:	25.80
	MIN:	0.00
	AVG:	7.41
2/27/2017	7:47:48 PM	0
2/27/2017	7:44:48 PM	0.08
2/27/2017	7:41:48 PM	0.41
2/27/2017	7:40:07 PM	0.6
2/27/2017	7:38:48 PM	0.75
2/27/2017	7:35:48 PM	1.01
2/27/2017	7:32:48 PM	1.2
2/27/2017	7:26:48 PM	1.35
2/27/2017	7:23:48 PM	1.2
2/27/2017	7:20:48 PM	1.09
2/27/2017	7:17:48 PM	0.86
2/27/2017	7:14:48 PM	0.71
2/27/2017	7:11:48 PM	0.6
2/27/2017	7:08:48 PM	0.41
2/27/2017	7:05:48 PM	0.26
2/27/2017	6:56:48 PM	0.23
2/27/2017	6:53:48 PM	0.34
2/27/2017	6:50:48 PM	0.45
2/27/2017	6:47:48 PM	0.86
2/27/2017	6:44:48 PM	1.2
2/27/2017	6:41:48 PM	1.69
2/27/2017	6:38:48 PM	2.14
2/27/2017	6:35:48 PM	2.51
2/27/2017	6:32:48 PM	2.89
2/27/2017	6:29:48 PM	3.04
2/27/2017	6:26:48 PM	3.11
2/27/2017	6:23:48 PM	3.08
2/27/2017	6:20:48 PM	3.04
2/27/2017	6:17:48 PM	2.93
2/27/2017	6:14:48 PM	2.81
2/27/2017	6:11:48 PM	2.7
2/27/2017	6:08:48 PM	2.59
2/27/2017	6:05:48 PM	2.51
2/27/2017	6:02:48 PM	2.4
2/27/2017	5:59:48 PM	2.29
2/27/2017	5:53:48 PM	2.21
2/27/2017	5:50:48 PM	2.25
2/27/2017	5:47:48 PM	2.4
2/27/2017	5:44:48 PM	2.55
2/27/2017	5:41:48 PM	2.7
2/27/2017	5:38:48 PM	2.81
2/27/2017	5:35:48 PM	2.93
2/27/2017	5:32:48 PM	3
2/27/2017	5:29:48 PM	2.93

2/27/2017	5:26:48 PM	3
2/27/2017	5:23:48 PM	2.96
2/27/2017	5:20:48 PM	2.89
2/27/2017	5:17:48 PM	2.78
2/27/2017	5:14:48 PM	2.74
2/27/2017	5:11:48 PM	2.59
2/27/2017	5:08:48 PM	2.51
2/27/2017	5:05:48 PM	2.44
2/27/2017	5:02:48 PM	2.33
2/27/2017	4:59:48 PM	2.21
2/27/2017	4:53:48 PM	2.1
2/27/2017	4:50:48 PM	2.89
2/27/2017	4:47:48 PM	1.46
2/27/2017	4:44:48 PM	1.35
2/27/2017	4:41:48 PM	1.12
2/27/2017	4:38:48 PM	0.75
2/27/2017	4:35:48 PM	0.38
2/27/2017	4:32:48 PM	0.04
2/27/2017	3:50:48 PM	0
2/27/2017	3:47:48 PM	0.64
2/27/2017	3:44:48 PM	3.45
2/27/2017	3:41:48 PM	6.11
2/27/2017	3:38:48 PM	8.66
2/27/2017	3:35:48 PM	10.65
2/27/2017	3:32:48 PM	10.84
2/27/2017	3:29:48 PM	10.43
2/27/2017	3:26:48 PM	9.98
2/27/2017	3:23:48 PM	9.41
2/27/2017	3:20:48 PM	8.96
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2/27/2017	3:02:48 PM	9.53
2/27/2017	2:59:48 PM	9.98
2/27/2017	2:56:48 PM	10.54
2/27/2017	2:53:48 PM	11.03
2/27/2017	2:50:48 PM	11.48
2/27/2017	2:47:48 PM	12.34
2/27/2017	2:41:48 PM	12.79
2/27/2017	2:38:48 PM	12.6
2/27/2017	2:35:48 PM	12.26
2/27/2017	2:32:48 PM	11.85
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2/27/2017	1:35:48 PM	15.38

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2/27/2017	11:11:48 AM	21.45
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2/27/2017	10:05:48 AM	6.86
2/27/2017	10:02:48 AM	6.79
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2/27/2017	4:56:48 AM	5.59
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2/26/2017	11:20:48 PM	2.74
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2/26/2017	11:14:48 PM	2.89
2/26/2017	11:11:48 PM	3
2/26/2017	11:08:48 PM	3.15
2/26/2017	11:05:48 PM	3.26
2/26/2017	11:02:48 PM	3.38

Hay Butte 2A (Pump On)

Analysis: Unit was flowing during the event. It stopped flowing as a result of the volume batch being complete and shut down due to normal operating conditions.

20170227 Morning S.P.: 315
20170227 Night S.P.: 315
20170310 S.P.: 315

PT-4017C

Pump Status	Date	Time	Pressure (psig)
		MAX:	233.14
		MIN:	0.00
		AVG:	19.59
Off	2/27/2017	7:40:07 PM	0
Off	2/27/2017	11:59:48 AM	0
Off	2/27/2017	11:56:48 AM	0.38
Off	2/27/2017	11:53:48 AM	1.24
Off	2/27/2017	11:50:48 AM	1.35
Off	2/27/2017	11:47:48 AM	1.61
Off	2/27/2017	11:44:48 AM	2.14
Off	2/27/2017	11:41:48 AM	2.85
Off	2/27/2017	11:38:48 AM	3.6
Off	2/27/2017	11:35:48 AM	4.5
Off	2/27/2017	11:32:48 AM	5.74
Off	2/27/2017	11:29:48 AM	7.2
Off	2/27/2017	11:26:48 AM	8.66
Off	2/27/2017	11:23:48 AM	10.16
Off	2/27/2017	11:20:48 AM	11.74
Off	2/27/2017	11:17:48 AM	13.24
Off	2/27/2017	11:14:48 AM	14.62
Off	2/27/2017	11:11:48 AM	15.56
On	2/27/2017	11:08:48 AM	233.14
On	2/27/2017	11:05:48 AM	131.21
On	2/27/2017	11:02:48 AM	71.18
On	2/27/2017	10:59:48 AM	42.94
On	2/27/2017	10:56:48 AM	29.51
On	2/27/2017	10:53:48 AM	22.91
On	2/27/2017	10:50:48 AM	19.69
On	2/27/2017	10:47:48 AM	18.38
On	2/27/2017	10:44:48 AM	17.89
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On	2/27/2017	9:56:48 AM	16.61
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On	2/27/2017	9:44:48 AM	16.46

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On	2/27/2017	9:38:48 AM	16.5
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On	2/27/2017	9:32:48 AM	16.43
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On	2/27/2017	9:26:48 AM	16.43
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On	2/27/2017	8:59:48 AM	16.35
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On	2/27/2017	7:56:48 AM	17.96
On	2/27/2017	7:53:48 AM	18
On	2/27/2017	7:50:48 AM	18.04
On	2/27/2017	7:47:48 AM	18
On	2/27/2017	7:44:48 AM	18.04
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On	2/27/2017	7:29:48 AM	17.96
On	2/27/2017	7:26:48 AM	18.94
On	2/27/2017	7:23:48 AM	19.39
On	2/27/2017	7:17:48 AM	19.31
On	2/27/2017	7:14:48 AM	19.28
On	2/27/2017	7:11:48 AM	19.16
On	2/27/2017	7:08:48 AM	19.09
On	2/27/2017	7:05:48 AM	18.9
On	2/27/2017	7:02:48 AM	18.64
On	2/27/2017	6:59:48 AM	18.68
On	2/27/2017	6:56:48 AM	18.49
On	2/27/2017	6:53:48 AM	18.41
On	2/27/2017	6:50:48 AM	18.3
On	2/27/2017	6:47:48 AM	18.15
On	2/27/2017	6:44:48 AM	18.11
On	2/27/2017	6:41:48 AM	17.96
On	2/27/2017	6:38:48 AM	17.85
On	2/27/2017	6:35:48 AM	17.78
On	2/27/2017	6:32:48 AM	17.44
On	2/27/2017	6:29:48 AM	17.1
On	2/27/2017	6:26:48 AM	16.91
On	2/27/2017	6:23:48 AM	16.8
On	2/27/2017	6:20:48 AM	16.76
On	2/27/2017	6:17:48 AM	16.65
On	2/27/2017	6:14:48 AM	16.61
On	2/27/2017	6:11:48 AM	16.46

On	2/27/2017	6:08:48 AM	16.61
On	2/27/2017	6:05:48 AM	16.58
On	2/27/2017	5:59:48 AM	16.61
On	2/27/2017	5:53:48 AM	16.8
On	2/27/2017	5:50:48 AM	16.91
On	2/27/2017	5:47:48 AM	16.99
On	2/27/2017	5:44:48 AM	17.06
On	2/27/2017	5:35:48 AM	17.1
On	2/27/2017	5:29:48 AM	17.14
On	2/27/2017	5:23:48 AM	17.18
On	2/27/2017	5:20:48 AM	17.25
On	2/27/2017	5:17:48 AM	17.62
On	2/27/2017	5:11:48 AM	17.85
On	2/27/2017	5:08:48 AM	17.89
On	2/27/2017	5:05:48 AM	17.85
On	2/27/2017	5:02:48 AM	17.7
On	2/27/2017	4:56:48 AM	17.78
On	2/27/2017	4:53:48 AM	17.81
On	2/27/2017	4:47:48 AM	17.7
On	2/27/2017	4:44:48 AM	17.55
On	2/27/2017	4:41:48 AM	17.4
On	2/27/2017	4:38:48 AM	17.18
On	2/27/2017	4:35:48 AM	16.73
On	2/27/2017	4:32:48 AM	16.05
On	2/27/2017	4:29:48 AM	14.7
On/Off	2/27/2017	2:47:48 AM	0
On	2/27/2017	2:44:48 AM	19.8
On	2/27/2017	2:41:48 AM	19.88
On	2/27/2017	2:38:48 AM	19.95
On	2/27/2017	2:35:48 AM	19.99
On	2/27/2017	2:32:48 AM	20.06
On	2/27/2017	2:29:48 AM	20.51
On	2/27/2017	2:26:48 AM	20.44
On	2/27/2017	2:23:48 AM	20.7
On	2/27/2017	2:20:48 AM	20.78
On	2/27/2017	2:17:48 AM	20.81
On	2/27/2017	2:14:48 AM	21.64
On	2/27/2017	2:11:48 AM	22.8
On	2/27/2017	2:08:48 AM	22.95
On	2/27/2017	2:05:48 AM	23.03
On	2/27/2017	1:59:48 AM	23.06
On	2/27/2017	1:56:48 AM	23.21
On	2/27/2017	1:53:48 AM	23.33
On	2/27/2017	1:50:48 AM	23.4
On	2/27/2017	1:47:48 AM	23.55
On	2/27/2017	1:44:48 AM	23.59
On	2/27/2017	1:41:48 AM	24.34
On	2/27/2017	1:38:48 AM	24.41
On	2/27/2017	1:32:48 AM	24.53
On	2/27/2017	1:29:48 AM	24.41
On	2/27/2017	1:26:48 AM	24.49
On	2/27/2017	1:23:48 AM	24.38
On	2/27/2017	1:20:48 AM	24.19
On	2/27/2017	1:17:48 AM	23.96
On	2/27/2017	1:14:48 AM	23.74
On	2/27/2017	1:11:48 AM	23.33
On	2/27/2017	1:08:48 AM	23.18
On	2/27/2017	1:05:48 AM	22.84
On	2/27/2017	1:02:48 AM	22.58
On	2/27/2017	12:59:48 AM	22.09
On	2/27/2017	12:56:48 AM	21.6

On	2/27/2017	12:53:48 AM	20.62
On	2/27/2017	12:50:48 AM	19.16
On	2/27/2017	12:47:48 AM	17.62
On	2/27/2017	12:44:48 AM	16.05
On	2/27/2017	12:41:48 AM	19.95

Hay Butte 2B (Pump Off)

Analysis: Unit was not flowing during the event and did not display any AOCs.

20170227 Morning S.P.: 315

20170227 Night S.P.: 315

20170310 S.P.: 315

PT-4017D

Date	Time	Pressure (psig)	
		MAX:	0.00
		MIN:	-3.38
		AVG:	-1.13
2/27/2017	7:40:07 PM		0
2/27/2017	11:02:48 AM		0
2/27/2017	10:59:48 AM		-3.38



DOT Condition Number:

DOT Identification Number:

DOT Hazardous Liquid Safety Related Condition Report

Operator Name: Caliber North Dakota LLC

OPID: 39099

Street Address: 1200 17th Street Suite 2100

City: Denver

State: CO

Zip: 80202

Date of Report: 3/3/2017

Date Received:

Reporting Official's Name: Skip Vest

Title: QHSE Director

Phone: 720-684-4388

Determining Person's Name: Brian Videtich

Title: Operations Engineer

Phone: 720-630-2651

Date Condition Discovered: 2/27/17

Date Determined to Exist: 2/27/17

Condition Location: Alexander, McKenzie County, ND

16" and 12" portion of the Caliber Midstream Rawson Crude Oil Gathering System

REASON FOR REPORT (MARK ALL APPLICABLE CATEGORIES)

- ☐ 1. General corrosion on a Transmission pipeline that has reduced the pipe wall thickness to less than required for MOP and localized pitting is advanced to a degree that it may cause a pipeline operating at 20% or more of SMYS to leak.
- ☐ 2. Unintended movement or abnormal loading by environmental causes that impairs service of any pipeline.
- ☐ 3. Material defect or physical damage to a gas or liquid pipeline operating at 20% or more of SMYS.
- ☒ 4. Malfunction or operating error causing pressure to rise above its MOP.
- ☐ 5. Leak that constitutes an emergency.
- ☐ 6. Condition that could lead to an imminent hazard and causes a 20% or more reduction in operating pressure or shutdown of operation.
- ☐ 7. A leak on a Transmission pipeline less than 220 yards from a building intended for human occupancy or outdoor place of assembly, reports are also required for conditions within the right-of-way of an active railroad, paved road, street or highway if the repairs are going to exceed the reporting deadline.
- ☐ 8. Other:

Product in Pipeline: Crude Oil

Size of Pipeline: 16"

Length of Pipeline: 21.6

Normal Operating Pressure: 150 psig

MOP: 500 psig





DOT Condition Number:

DOT Identification Number:

DOT Hazardous Liquid Safety Related Condition Report

Description of Condition: Please see attached narrative.

Discovery Circumstances: Please see attached narrative.

Significant Effects on Safety: Please see attached narrative.

Corrective Action Taken: Please see attached narrative.

Reduced Pressure From: 522 psig **To:** 2.5 psig

Shutdown?: Yes, automatic shutdown

Date Action Taken: 2-27-17

Planned Follow-up/Corrective Action: Please see attached narrative.

Date to Begin: _____ **To Be Completed By:** _____

Jurisdictional to (Region or State/Agency): PHMSA Central

Date Sent to Region: 3/3/17

Region: Central

Date Sent To State: N/A

State/Agency: N/A

OPS Representative: _____

Date: _____



Date: 02/27/2017

Time Reported: 4:26 PM MST via David Mattison (Caliber Field Technician)

Condition Location: The condition occurred on both the 12" and 16" portions of our Crude Oil Line to Alex Oil Facility.

Size of Pipeline: 12" and 16" FBE coated Steel Lines

Length of Pipeline: 21.6 miles

Normal Operating Pressure: 150 psig

Description of Condition: At approximately 11:20 AM CST on 02/27/2017, the Alex Oil Facility experienced an ESD where the inlet pipeline control valve closed as a result of LEL and H2S sensor calibrations. The I&E technician performing the calibrations onsite acknowledged the LEL and H2S alarms from the local HMI (as a result of his operations). The I & E technician failed to inspect and confirm the opening of the ESD valve upon acknowledgement and the ESD valve remained latched as a result of relays not being reset, a failsafe at the facility. The inlet pipeline pressure at the facility rose to 522.76 psig as recorded by SCADA as a result of several LACT units continuing to pressure up the pipeline against a blocked valve. As each LACT unit pressured up at its respective location, the units shut-off appropriately at the current PSHH pressure set point as designed. However, some of those set points, although confirmed in April of 2016 by field technicians, were altered and higher than expected based on the surge model that was previously completed on the system which incorporated recommended shut-down pressure set points. As a result, pressures on the pipeline rose higher than intended.

The I & E technician continued to perform calibration tests onsite until 2:05 PM CST when it was realized the inlet pipeline valve had not correctly opened. The I & E technician reset the relays onsite and the inlet pipeline valve opened. Inlet pipeline pressure continued to stay high around 470 psig per SCADA data as a result of an anomaly on the system. The inlet pipeline pressure remained around 400 psig. At 5:26 PM CST, an onsite field technician noticed the pipeline pressure at the inlet was much higher than normal. A call to Caliber's Operations/Engineering Department was made to assist in finding the source of the pressure. The field technician realized that the inlet pipeline flow was only flowing through the Bypass Line as defined in Caliber's *SOP-1001-2100 Liquid Pigging Procedure*. The field technician then opened the Mainline Valve and pressure was immediately reduced on the pipeline system as it entered the Alex Facility. The Mainline Valve remained open as it was determined that the Bypass Line must have an obstruction which caused blockage in the line. Once the Mainline Valve was opened, the inlet pipeline pressure returned to its normal operating pressure of 2.5 psig.

Discovery Circumstances: The malfunction or operating error causing pressure to rise above its MOP was first discovered, however not acted upon, by LACT field technicians whom reported several

PSHH alarms from LACT units whose alarms were relayed via Caliber's SCADA system. Due to low production volumes and a separation of operations alarms due to coverage areas, the alarms from the LACT units came in one at a time to different operating groups which didn't contribute to the operators piecing together that the pipeline was over pressured. After more LACTs went down throughout the event due to PSHH alarms, a LACT field technician contacted the field technician at the Alex Facility and began asking questions as to why they were seeing PSHH alarms. The field technician drove to the Alex Facility and discovered via the local HMI that the pressure on the pipeline was 400psig. The field technician then went to the physical location to assure the pressure transmitter was reading accurately and it was verified to match with a manual gauge nearby. At that time, a call was made to Caliber's Operations/Engineering Department where an engineer assessed via SCADA data and was able to assist in troubleshooting where the problem may be located. As a result, the field technician was able to relieve the pressure on the pipeline at 5:50 PM CST

Significant Effects on Safety: There were no significant effects on safety. The 16" Crude Oil Steel Line has a design pressure of 1170psig and the weakest component in the system is an ANSI 300 classified component with pressure rating of 720 psig. The 12" Crude Oil Steel Line has a design pressure of 1104 psig and the weakest component in the system is an ANSI 300 classified component with a pressure rating of 720 psig. Engineering calculations estimated pressures experienced on the system may have been 630 psig in low elevated areas.

Corrective Actions Taken: Once it was discovered that the pipeline was operating at a pressure above its MOP by the field technician onsite, a call was made to Caliber's Operations/Engineering Department where an engineer assessed via SCADA data and was able to assist in troubleshooting where the problem may be located. As a result, the field technician was able to relieve the pressure on the pipeline at 5:50 PM CST by opening the Mainline Valve as defined in Caliber's *SOP-1001-2100 Liquid Pigging Procedure*. Once pressure was relieved on the inlet pipeline and all flow was directed through the Mainline Valve, field technicians determined that there was a blockage in the Bypass Line which had caused the line to remain pressurized after the ESD inlet pipeline valve was opened. Field technicians isolated the bypass line on the receiver and by means of borescope and an abnormality in the pipeline pigging bars were able to determine that a pipeline pig that was static in the barrel from pigging operations was stuck in the Bypass Line. Reports indicate that (2) pipeline pigs were in the barrel of the 16" crude oil receiver were in the barrel awaiting extraction at the time of the event. The first pig was a 16" foam pig that had shredded against the pigging bars as a result of the AOC that occurred on the system and ended up in the inlet strainers downstream of the receiver. The second pig was a poly coated foam pig which was much more durable than the first pig. It is theorized that when the ESD valve was re-opened, a differential pressure of 480 psig across the pig caused the pig to breakoff the pigging bars of the Bypass Line and caused the 16" pig to become wedged in the 6" Bypass Line. On 03/02/2017, the Bypass Line which had been isolated since the event was inspected via a borescope and the wedged pig was removed by mechanical means. As a result of the pigging incident, the pigging bars on the bypass line were broken off.

Reduced Pressure From: 522 psig to 2.5 psig

Shutdown?: Pipeline was not shutdown manually, automatic systems did work.

Date Action Taken: 02/27/2017

Planned Follow-Up/Corrective Action: The following items have been identified to assist in correcting this condition in the future:

- 1.) Pigging bars need to be replaced on the Bypass Line on the 16" Crude Oil Receiver at Alex

Date to Begin: March 20th, 2017

To Be Completed By: March 31st, 2017

- 2.) Alarms added on PT-100 at Alex Facility. Alarms are created in SCADA and are designed to send out to operators, however the programming did not link that value of PT-100 to the alarm set points on site. Once tied, these alarms can assist in the identification of an AOC.

Date to Begin: March 2nd, 2017

To Be Completed By: March 10th, 2017

- 3.) Review of I & E Bypass Procedures for LEL and H2S Calibrations

Date to Begin: March 20th, 2017

To Be Completed By: March 31st, 2017

- 4.) Operations Review of SOP-1001-2100-Liquid Pigging Procedures. It was identified that the procedure states that the Mainline Valve be partially closed upon receiving the pig. If this Mainline Valve had been slightly closed, the pressure in the receiver when released by the opening of the ESD at the inlet pipeline, most likely would not have caused the pig in the barrel to have become wedged in the Bypass Line.

Date to Begin: March 15th, 2017

To Be Completed By: March 22nd, 2017

- 5.) Engineering Addition and Review of SOP-1001-2100-Liquid Pigging Procedure. It was identified within the current revision of the SOP that the requirement for pulling received pigs from the barrel immediately after they are received is an expectation of the procedure. This will be discussed with Engineering and Operations and a duration will be added to the SOP.

Date to Begin: March 20th, 2017

To Be Completed By: March 31st, 2017

- 6.) Review and Updating of PSHH shutdowns on LACT units. It was identified that some LACT units had higher than expected shutdown set points as identified in a previously ran model that determined slugging pressures and the recommended set points at each LACT. These set points will be reviewed, and all set points verified at the direction of the Engineering Department. These points have also been brought into the SCADA system for monitoring and alarms will be setup to notify

Engineering of a set point change onsite. Caliber is also running an additional model for a scenario that may be probable on the pipeline. As a result of this study, the most conservative recommendations from the results will be the final PSHH for the LACT units based on location.

Date to Begin: March 20th, 2017

To Be Completed By: April 30th, 2017

7.) Provide PSHH Alarms via SCADA to all Operations Personnel as a Safety Related Condition

Date to Begin: March 20th, 2017

To Be Completed By: March 31st, 2017