

Puite, Tammie (EGLE)

From: Dickman, Rob (EGLE)
Sent: Monday, December 21, 2020 7:48 AM
To: Nixon, Shane (EGLE); Puite, Tammie (EGLE)
Subject: FW: AirUsePermits
Attachments: EGLE_AQD_617-96_PermitRecords092019-082020.zip; EGLE_AQD_619-96_PermitRecords092019082020.zip; EGLE_AQD_620-96_PermitRecords092019-082020.zip; EGLE_AQD_622-96_PermitRecords092019-082020.zip; EGLE_AQD_AirPermitChecklist.pdf; Maintenance Log 092019-082020.xlsx; Permit Maintenance Field Support Logs.pdf

The facility sent me the attached records in response to the VN.

From: Dennis Marelich <dennis.denergyservices@gmail.com>
Sent: Tuesday, December 15, 2020 3:35 PM
To: Dickman, Rob (EGLE) <DICKMANR@michigan.gov>
Cc: Chris Kokenis <c_kokenis@deltaoperations.com>
Subject: AirUsePermits

CAUTION: This is an External email. Please send suspicious emails to abuse@michigan.gov

Rob,

Attached is the information you requested for permits 617-96, 619-96, 620-96, and 622-96. I hope this is what you are looking for and if any other information is needed please let me know. I also hope this brings Delta Oil Co back into compliance.

Thanks for you patience,

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Dennis Marelich
Owner
Denenergy Services Co LLC
Mobile: 989-370-3194



Rob Dickman

EGLE-Air Quality Division

Cadillac District Office

Rob,

Regarding the inspections and subsequent records requested for the air use permits 617-96, 619-96, 620-96, and 622-96:

The rolling emissions calculations for CO, VOC, and NOx have been completed.

There are no HAP's to report.

Monthly fuel consumption spreadsheets have been completed individually for all compressors relative to permits requested.

None of our facilities produce, collect, process, or truck crude oil or condensates.

Only one of the facilities permitted has a dehy to log glycol circulation, that being the Avery24/31 PN 622-96. The others are satellite screw compressor units that move produced gas to a CPF for processing before sales.

Records of produced gas have been completed for each permit.

A maintenance and repair log has been completed for each permit.

There were no catalysts bypassed for the requested period.

All fuel used for all compressors is sweet natural gas derived from the produced Antrim gas of each respective field.

Appendix A
Force Energy Company
Permit No. 622-96

09/2019-08/2020

U841S
379 TA

U1307
3512 LE

N/A

N/A

N/A

N/A

N/A

Equipment	Usage		Factor				Emissions			
	This month	12-month rolling period	CO	NOx	VOC ¹	HAP	CO	NOx	TOTAL VOC ²	HAP
Naturally Aspirated Compressor Facility Fuel Gas MMcf	2.7	31.93	0.215	1.7	0.041	—	6.86	54.28	1.31	—
Low Emission Compressor Facility Fuel Gas MMcf	4.87	58.49	0.043	0.17	0.0205	—	2.52	9.94	1.2	—
Tank Thruput bbl			—	—	0.000052	—	—	—		—
Tank Capacity bbl	—		—	—	0.000037	—	—	—		—
Crude Oil Trucked bbl			—	—	0.0014	—	—	—		—
Niagaran Dehy ³ gpm	—		—	—	25.5	20.7	—	—		
Prairie Duchein Dehy ³ gpm	—		—	—	8.6	1.1	—	—		
Antrim Dehy ³ gpm	—	2.004	—	—	0.046	—	—	—	.092	—

TOTAL Tons per 12-month rolling period

0.0	0.0	0.0	0.0
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17.29 64.22 2.602

Notes-

- 1 - VOC factors in this column are non-HAP VOCs; but all HAPs are VOCs
- 2 - This column must be the TOTAL of the non-hap VOCs column and the HAPs columns
- 3 - Only ONE of the dehydrator types will be applicable for a particular facility

Example -

Fuel Gas MMcf	2.2	23.5	0.215	1.7	0.041	—	5.1	40.0	1.0	—
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Avery 24/32 MONTHLY GAS PRODUCTION 09/2019-08/2020 PN 622-96

	AVERY 24		AVERY 31	
SEPTEMBER 2019	16,111	575	23,414	780
OCTOBER 2019	15,609	504	27,117	875
NOVEMBER 2019	17,290	576	23,098	770
DECEMBER 2019	14,581	470	26,090	842
JANUARY 2020	13,988	451	26,957	870
FEBRUARY 2020	13,053	450	24,549	847
MARCH 2020	13,971	451	26,421	852
APRIL 2020	13,292	443	25,484	849
MAY 2020	14,301	461	25,203	813
JUNE 2020	14,098	470	23,354	778
JULY 2020	14,050	453	26,355	850
AUGUST 2020	15,543	501	26,200	845

TOTALS	175,887	484	304,242	831
COMBINED TOTAL	480,129			

Single Well Report For: Avery_31 - Avery24/31_U-841S_Fuel - From: 2019-09-02 - To: 2019-10-01

Date	Gas	Diff	Line
2019-09-02 12:00:00	90.60	20.60	78.30
2019-09-03 12:00:00	90.50	20.60	78.00
2019-09-04 12:00:00	90.30	20.30	78.50
2019-09-05 12:00:00	90.50	20.50	78.40
2019-09-06 12:00:00	91.30	20.30	79.50
2019-09-07 12:00:00	89.80	20.20	78.70
2019-09-08 12:00:00	90.20	20.50	78.30
2019-09-09 12:00:00	91.00	20.60	78.70
2019-09-10 12:00:00	89.50	20.10	79.10
2019-09-11 12:00:00	88.30	20.20	78.00
2019-09-12 12:00:00	90.10	20.50	77.90
2019-09-13 12:00:00	90.70	20.50	78.20
2019-09-14 12:00:00	88.70	19.90	78.00
2019-09-15 12:00:00	89.20	20.00	78.30
2019-09-16 12:00:00	89.70	20.00	78.70
2019-09-17 12:00:00	89.50	20.20	78.10
2019-09-18 12:00:00	89.50	20.20	78.30
2019-09-19 12:00:00	89.70	20.40	78.20
2019-09-20 12:00:00	89.40	20.40	78.00
2019-09-21 12:00:00	90.00	20.60	77.90
2019-09-22 12:00:00	89.30	20.30	78.30
2019-09-23 12:00:00	88.90	20.20	78.10
2019-09-24 12:00:00	90.80	20.40	78.70
2019-09-25 12:00:00	90.30	20.20	78.60
2019-09-26 12:00:00	89.00	20.10	77.50
2019-09-27 12:00:00	79.90	17.80	90.70
2019-09-28 12:00:00	88.50	19.60	79.10
2019-09-29 12:00:00	89.40	19.90	79.10
2019-09-30 12:00:00	89.20	19.40	79.80
2019-10-01 12:00:00	88.10	19.50	78.70
Sums	2,681.90		
Averages	89.40	20.13	78.86

Single Well Report For: Avery_31 - Avery24/31_U-841S_Fuel - From: 2019-10-02 - To: 2019-11-01

Date	Gas	Diff	Line
2019-10-02 12:00:00	88.30	19.70	78.50
2019-10-03 12:00:00	90.10	19.90	78.90
2019-10-04 12:00:00	89.20	19.60	78.80
2019-10-05 12:00:00	90.00	19.90	79.10
2019-10-06 12:00:00	89.40	19.60	79.40
2019-10-07 12:00:00	87.00	19.30	78.40
2019-10-08 12:00:00	87.90	19.50	78.60
2019-10-09 12:00:00	89.20	19.60	79.30
2019-10-10 12:00:00	87.50	19.10	80.20
2019-10-11 12:00:00	89.10	19.50	79.70
2019-10-12 12:00:00	88.20	19.40	79.60
2019-10-13 12:00:00	89.80	19.70	79.60
2019-10-14 12:00:00	90.30	19.80	79.00
2019-10-15 12:00:00	90.50	19.70	79.30
2019-10-16 12:00:00	90.00	19.50	79.40
2019-10-17 12:00:00	89.10	19.40	79.00
2019-10-18 12:00:00	89.90	19.60	79.10
2019-10-19 12:00:00	90.20	19.60	79.30
2019-10-20 12:00:00	89.40	19.30	79.20
2019-10-21 12:00:00	88.10	19.20	78.70
2019-10-22 12:00:00	73.30	16.00	82.20
2019-10-23 12:00:00	90.60	20.00	79.60
2019-10-24 12:00:00	91.40	20.20	79.40
2019-10-25 12:00:00	92.20	20.40	79.80
2019-10-26 12:00:00	92.00	20.10	80.00
2019-10-27 12:00:00	90.20	19.50	80.10
2019-10-28 12:00:00	88.70	19.40	79.20
2019-10-29 12:00:00	89.00	19.60	79.30
2019-10-30 12:00:00	90.00	19.80	79.20
2019-10-31 12:00:00	90.10	19.80	79.50
2019-11-01 12:00:00	90.40	19.60	79.40
Sums	2,761.10		
Averages	89.07	19.53	79.38

Single Well Report For: Avery_31 - Avery24/31_U-841S_Fuel - From: 2019-11-02 - To: 2019-12-01

Date	Gas	Diff	Line
2019-11-02 12:00:00	90.30	19.50	79.40
2019-11-03 12:00:00	89.20	19.30	79.20
2019-11-04 12:00:00	89.60	19.50	79.20
2019-11-05 12:00:00	88.60	19.20	79.00
2019-11-06 12:00:00	90.10	19.60	79.50
2019-11-07 12:00:00	90.40	19.60	79.70
2019-11-08 12:00:00	35.00	8.90	80.20
2019-11-09 12:00:00	86.40	17.90	81.10
2019-11-10 12:00:00	90.00	19.60	81.10
2019-11-11 12:00:00	89.10	19.50	80.90
2019-11-12 12:00:00	89.20	19.30	81.60
2019-11-13 12:00:00	87.00	18.00	81.40
2019-11-14 12:00:00	87.00	18.00	81.30
2019-11-15 12:00:00	86.40	17.90	81.20
2019-11-16 12:00:00	86.30	18.00	81.00
2019-11-17 12:00:00	85.80	17.80	81.50
2019-11-18 12:00:00	86.40	17.90	80.80
2019-11-19 12:00:00	85.80	17.50	81.20
2019-11-20 12:00:00	84.80	17.00	81.60
2019-11-21 12:00:00	85.80	17.80	80.80
2019-11-22 12:00:00	99.60	17.70	80.20
2019-11-23 12:00:00	86.40	17.90	80.40
2019-11-24 12:00:00	85.00	17.60	80.10
2019-11-25 12:00:00	84.10	17.60	79.60
2019-11-26 12:00:00	83.60	17.60	79.30
2019-11-27 12:00:00	86.30	18.00	79.90
2019-11-28 12:00:00	87.00	18.00	79.60
2019-11-29 12:00:00	87.00	18.10	80.00
2019-11-30 12:00:00	85.40	17.90	79.70
2019-12-01 12:00:00	84.80	17.80	79.40
Sums	2,572.40		
Averages	85.75	18.00	80.33

Single Well Report For: Avery_31 - Avery24/31_U-841S_Fuel - From: 2019-12-02 - To: 2020-01-01

Date	Gas	Diff	Line
2019-12-02 12:00:00	84.80	17.70	79.30
2019-12-03 12:00:00	86.00	17.80	80.10
2019-12-04 12:00:00	85.40	17.80	79.50
2019-12-05 12:00:00	85.70	18.00	79.50
2019-12-06 12:00:00	85.80	18.00	79.50
2019-12-07 12:00:00	86.10	17.80	80.10
2019-12-08 12:00:00	86.40	17.80	80.50
2019-12-09 12:00:00	84.00	17.40	79.90
2019-12-10 12:00:00	83.80	17.30	79.60
2019-12-11 12:00:00	86.60	17.90	80.40
2019-12-12 12:00:00	87.30	17.70	81.10
2019-12-13 12:00:00	84.80	17.10	80.60
2019-12-14 12:00:00	84.20	17.00	80.20
2019-12-15 12:00:00	84.40	16.90	80.80
2019-12-16 12:00:00	84.60	16.70	81.80
2019-12-17 12:00:00	83.80	16.70	81.30
2019-12-18 12:00:00	84.60	17.10	81.30
2019-12-19 12:00:00	87.70	17.40	82.50
2019-12-20 12:00:00	85.40	17.00	81.40
2019-12-21 12:00:00	85.50	17.20	81.30
2019-12-22 12:00:00	85.70	17.30	80.80
2019-12-23 12:00:00	85.70	17.30	80.50
2019-12-24 12:00:00	87.90	17.80	80.90
2019-12-25 12:00:00	85.60	17.40	80.50
2019-12-26 12:00:00	85.00	17.40	80.30
2019-12-27 12:00:00	84.80	17.30	80.10
2019-12-28 12:00:00	86.20	17.70	79.90
2019-12-29 12:00:00	85.30	17.50	80.30
2019-12-30 12:00:00	85.00	17.70	79.70
2019-12-31 12:00:00	85.40	17.60	79.80
2020-01-01 12:00:00	85.50	17.40	79.90
Sums	2,649.00		
Averages	85.45	17.44	80.43

Single Well Report For: Avery_31 - Avery24/31_U-841S_Fuel - From: 2020-01-02 - To: 2020-02-01

Date	Gas	Diff	Line
2020-01-02 12:00:00	85.10	17.30	79.80
2020-01-03 12:00:00	85.30	17.50	79.60
2020-01-04 12:00:00	88.00	18.00	80.00
2020-01-05 12:00:00	87.70	17.70	80.40
2020-01-06 12:00:00	86.20	17.40	79.90
2020-01-07 12:00:00	85.10	17.30	81.60
2020-01-08 12:00:00	85.70	17.70	81.30
2020-01-09 12:00:00	87.50	17.90	81.60
2020-01-10 12:00:00	85.80	17.40	81.40
2020-01-11 12:00:00	87.40	17.90	80.80
2020-01-12 12:00:00	88.40	18.30	80.80
2020-01-13 12:00:00	87.80	18.10	81.10
2020-01-14 12:00:00	86.30	18.00	80.60
2020-01-15 12:00:00	87.20	17.90	80.40
2020-01-16 12:00:00	88.10	18.00	80.50
2020-01-17 12:00:00	87.40	17.60	81.00
2020-01-18 12:00:00	85.60	17.40	81.20
2020-01-19 12:00:00	83.60	16.90	80.30
2020-01-20 12:00:00	86.40	17.50	80.90
2020-01-21 12:00:00	85.40	17.20	80.80
2020-01-22 12:00:00	84.30	17.00	80.60
2020-01-23 12:00:00	84.70	17.10	80.30
2020-01-24 12:00:00	85.90	17.40	80.00
2020-01-25 12:00:00	84.40	17.00	79.90
2020-01-26 12:00:00	85.30	17.10	79.80
2020-01-27 12:00:00	84.60	17.00	80.00
2020-01-28 12:00:00	82.90	16.90	79.70
2020-01-29 12:00:00	83.60	17.10	79.60
2020-01-30 12:00:00	84.10	17.20	79.80
2020-01-31 12:00:00	83.80	17.20	79.50
2020-02-01 12:00:00	83.70	17.00	79.70
Sums	2,657.30		
Averages	85.72	17.45	80.42

Single Well Report For: Avery_31 - Avery24/31_U-841S_Fuel - From: 2020-02-02 - To: 2020-03-01

Date	Gas	Diff	Line
2020-02-02 12:00:00	82.30	16.50	79.70
2020-02-03 12:00:00	82.10	16.60	78.90
2020-02-04 12:00:00	82.70	16.90	78.80
2020-02-05 12:00:00	84.40	17.30	79.70
2020-02-06 12:00:00	84.10	17.10	79.50
2020-02-07 12:00:00	82.20	16.60	79.00
2020-02-08 12:00:00	83.60	16.90	79.50
2020-02-09 12:00:00	85.00	17.20	79.80
2020-02-10 12:00:00	83.10	16.90	79.40
2020-02-11 12:00:00	83.50	17.00	79.60
2020-02-12 12:00:00	85.00	17.60	79.30
2020-02-13 12:00:00	84.00	17.20	81.10
2020-02-14 12:00:00	77.60	15.50	93.50
2020-02-15 12:00:00	86.50	17.10	81.70
2020-02-16 12:00:00	84.30	16.60	81.10
2020-02-17 12:00:00	85.00	16.90	81.30
2020-02-18 12:00:00	84.70	16.70	81.40
2020-02-19 12:00:00	83.70	16.70	80.80
2020-02-20 12:00:00	86.20	17.40	81.10
2020-02-21 12:00:00	86.60	17.30	81.50
2020-02-22 12:00:00	84.00	16.70	80.80
2020-02-23 12:00:00	81.90	16.40	80.10
2020-02-24 12:00:00	81.10	16.30	79.90
2020-02-25 12:00:00	83.00	16.90	79.90
2020-02-26 12:00:00	85.00	17.60	79.80
2020-02-27 12:00:00	86.30	17.70	80.20
2020-02-28 12:00:00	85.90	17.40	80.30
2020-02-29 12:00:00	84.10	17.10	80.20
2020-03-01 12:00:00	83.40	17.10	79.70
Sums	2,431.30		
Averages	83.84	16.94	80.61

Single Well Report For: Avery_31 - Avery24/31_U-841S_Fuel - From: 2020-03-02 - To: 2020-04-01

Date	Gas	Diff	Line
2020-03-02 12:00:00	81.40	16.60	79.20
2020-03-03 12:00:00	84.90	17.40	79.30
2020-03-04 12:00:00	86.10	17.70	79.30
2020-03-05 12:00:00	87.50	18.10	80.70
2020-03-06 12:00:00	85.70	17.90	80.70
2020-03-07 12:00:00	87.70	18.50	80.90
2020-03-08 12:00:00	86.90	18.20	80.90
2020-03-09 12:00:00	85.20	18.00	80.20
2020-03-10 12:00:00	86.30	18.10	80.20
2020-03-11 12:00:00	91.20	19.10	80.60
2020-03-12 12:00:00	85.50	17.70	80.30
2020-03-13 12:00:00	83.30	17.50	79.50
2020-03-14 12:00:00	85.70	18.30	79.60
2020-03-15 12:00:00	86.20	18.50	79.90
2020-03-16 12:00:00	83.40	18.60	80.20
2020-03-17 12:00:00	85.10	17.90	79.90
2020-03-18 12:00:00	86.10	18.20	79.90
2020-03-19 12:00:00	85.20	18.10	79.50
2020-03-20 12:00:00	84.10	17.70	79.70
2020-03-21 12:00:00	87.80	18.60	79.70
2020-03-22 12:00:00	87.70	18.60	80.20
2020-03-23 12:00:00	86.10	18.10	80.30
2020-03-24 12:00:00	88.10	18.60	79.90
2020-03-25 12:00:00	88.70	18.80	80.00
2020-03-26 12:00:00	86.90	18.30	79.70
2020-03-27 12:00:00	88.90	18.80	79.20
2020-03-28 12:00:00	88.70	18.80	79.80
2020-03-29 12:00:00	88.20	18.80	79.30
2020-03-30 12:00:00	86.30	18.30	78.70
2020-03-31 12:00:00	89.70	19.30	78.90
2020-04-01 12:00:00	89.20	19.20	79.20
Sums	2,683.80		
Averages	86.57	18.27	79.85

Single Well Report For: Avery_31 - Avery24/31_U-841S_Fuel - From: 2020-04-02 - To: 2020-05-01

Date	Gas	Diff	Line
2020-04-02 12:00:00	88.50	19.10	79.00
2020-04-03 12:00:00	88.40	19.20	79.00
2020-04-04 12:00:00	88.30	19.00	79.40
2020-04-05 12:00:00	88.70	19.00	79.30
2020-04-06 12:00:00	90.00	19.40	79.50
2020-04-07 12:00:00	89.10	19.00	79.40
2020-04-08 12:00:00	87.70	18.50	79.40
2020-04-09 12:00:00	85.90	18.20	78.70
2020-04-10 12:00:00	88.70	18.70	79.10
2020-04-11 12:00:00	89.30	19.00	78.90
2020-04-12 12:00:00	86.50	18.40	78.50
2020-04-13 12:00:00	84.30	17.90	78.40
2020-04-14 12:00:00	87.50	18.50	78.80
2020-04-15 12:00:00	89.70	19.00	79.30
2020-04-16 12:00:00	89.60	18.90	79.20
2020-04-17 12:00:00	88.80	18.70	79.20
2020-04-18 12:00:00	86.70	18.20	78.80
2020-04-19 12:00:00	84.40	17.60	78.80
2020-04-20 12:00:00	87.90	18.70	78.40
2020-04-21 12:00:00	85.70	18.00	78.40
2020-04-22 12:00:00	88.50	18.80	78.90
2020-04-23 12:00:00	86.20	18.40	78.60
2020-04-24 12:00:00	86.20	18.50	78.10
2020-04-25 12:00:00	86.70	18.50	78.60
2020-04-26 12:00:00	88.60	19.00	78.80
2020-04-27 12:00:00	88.80	19.00	78.90
2020-04-28 12:00:00	87.00	18.30	79.50
2020-04-29 12:00:00	85.80	18.00	79.00
2020-04-30 12:00:00	86.80	18.20	78.80
2020-05-01 12:00:00	87.60	18.50	78.50
Sums	2,627.90		
Averages	87.60	18.61	78.91

Single Well Report For: Avery_31 - Avery24/31_U-841S_Fuel - From: 2020-05-02 - To: 2020-06-01

Date	Gas	Diff	Line
2020-05-02 12:00:00	86.30	18.30	78.70
2020-05-03 12:00:00	84.60	18.10	80.10
2020-05-04 12:00:00	88.00	18.80	80.00
2020-05-05 12:00:00	89.30	18.90	80.30
2020-05-06 12:00:00	61.70	12.30	107.10
2020-05-07 12:00:00	84.50	17.20	80.60
2020-05-08 12:00:00	85.70	17.50	81.30
2020-05-09 12:00:00	87.20	17.80	80.90
2020-05-10 12:00:00	85.60	17.60	80.60
2020-05-11 12:00:00	86.20	17.80	80.30
2020-05-12 12:00:00	86.40	17.90	80.60
2020-05-13 12:00:00	51.70	10.40	95.30
2020-05-14 12:00:00	82.00	16.30	80.80
2020-05-15 12:00:00	81.10	16.00	80.30
2020-05-16 12:00:00	92.00	21.00	79.80
2020-05-17 12:00:00	99.30	24.20	79.70
2020-05-18 12:00:00	91.00	20.80	80.00
2020-05-19 12:00:00	75.50	14.40	81.00
2020-05-20 12:00:00	88.50	19.40	80.50
2020-05-21 12:00:00	87.50	19.40	80.40
2020-05-22 12:00:00	86.60	19.40	79.40
2020-05-23 12:00:00	86.60	19.80	78.80
2020-05-24 12:00:00	86.10	19.70	78.60
2020-05-25 12:00:00	87.40	20.10	78.30
2020-05-26 12:00:00	73.20	16.30	80.00
2020-05-27 12:00:00	73.80	15.50	80.80
2020-05-28 12:00:00	81.60	17.80	79.10
2020-05-29 12:00:00	84.50	18.80	79.10
2020-05-30 12:00:00	85.10	18.40	79.60
2020-05-31 12:00:00	84.60	17.60	80.00
2020-06-01 12:00:00	84.60	17.80	80.50
Sums	2,588.20		
Averages	83.49	17.91	81.37

Single Well Report For: Avery_31 - Avery24/31_U-841S_Fuel - From: 2020-06-02 - To: 2020-07-01

Date	Gas	Diff	Line
2020-06-02 12:00:00	84.00	18.20	79.60
2020-06-03 12:00:00	83.90	18.60	78.70
2020-06-04 12:00:00	83.80	18.60	78.50
2020-06-05 12:00:00	83.80	18.50	78.50
2020-06-06 12:00:00	84.70	18.80	78.30
2020-06-07 12:00:00	85.30	18.80	78.40
2020-06-08 12:00:00	84.70	18.40	79.00
2020-06-09 12:00:00	82.40	18.10	78.40
2020-06-10 12:00:00	81.70	18.10	77.90
2020-06-11 12:00:00	82.90	18.50	77.60
2020-06-12 12:00:00	85.40	18.70	78.50
2020-06-13 12:00:00	84.50	18.20	79.10
2020-06-14 12:00:00	85.00	18.40	79.10
2020-06-15 12:00:00	90.10	20.90	79.10
2020-06-16 12:00:00	93.90	22.90	78.80
2020-06-17 12:00:00	93.50	23.20	78.20
2020-06-18 12:00:00	92.60	23.10	78.00
2020-06-19 12:00:00	92.60	23.20	77.70
2020-06-20 12:00:00	93.10	23.50	77.70
2020-06-21 12:00:00	89.40	22.50	80.00
2020-06-22 12:00:00	63.10	15.50	81.90
2020-06-23 12:00:00	84.60	20.70	79.70
2020-06-24 12:00:00	95.40	23.50	78.60
2020-06-25 12:00:00	95.30	23.40	78.60
2020-06-26 12:00:00	94.10	23.30	78.60
2020-06-27 12:00:00	92.30	22.90	78.10
2020-06-28 12:00:00	94.50	23.70	78.20
2020-06-29 12:00:00	95.60	24.30	78.20
2020-06-30 12:00:00	94.50	24.10	78.10
2020-07-01 12:00:00	95.30	24.40	78.20
Sums	2,642.00		
Averages	88.07	20.83	78.64

Single Well Report For: Avery_31 - Avery24/31_U-841S_Fuel - From: 2020-07-02 - To: 2020-08-01

Date	Gas	Diff	Line
2020-07-02 12:00:00	95.30	24.40	78.00
2020-07-03 12:00:00	94.10	23.90	77.70
2020-07-04 12:00:00	94.20	23.90	77.60
2020-07-05 12:00:00	94.00	24.10	77.40
2020-07-06 12:00:00	95.70	24.60	77.50
2020-07-07 12:00:00	89.90	22.70	80.00
2020-07-08 12:00:00	93.70	23.40	78.40
2020-07-09 12:00:00	91.30	22.60	78.30
2020-07-10 12:00:00	92.60	23.10	78.00
2020-07-11 12:00:00	94.20	23.60	77.80
2020-07-12 12:00:00	96.80	24.60	77.80
2020-07-13 12:00:00	96.80	24.40	77.70
2020-07-14 12:00:00	96.60	24.70	77.50
2020-07-15 12:00:00	95.40	24.60	77.30
2020-07-16 12:00:00	94.00	23.80	77.40
2020-07-17 12:00:00	93.70	23.40	78.80
2020-07-18 12:00:00	96.30	25.00	78.10
2020-07-19 12:00:00	100.20	27.30	77.60
2020-07-20 12:00:00	104.60	29.70	77.20
2020-07-21 12:00:00	110.80	32.60	77.30
2020-07-22 12:00:00	89.00	22.70	79.10
2020-07-23 12:00:00	94.70	23.90	79.30
2020-07-24 12:00:00	96.30	24.30	78.60
2020-07-25 12:00:00	95.10	24.10	78.30
2020-07-26 12:00:00	94.50	24.20	77.90
2020-07-27 12:00:00	95.80	24.80	77.60
2020-07-28 12:00:00	96.70	25.10	77.50
2020-07-29 12:00:00	70.30	17.70	90.70
2020-07-30 12:00:00	95.30	23.80	78.40
2020-07-31 12:00:00	97.20	24.50	78.40
2020-08-01 12:00:00	96.90	24.50	78.20
Sums	2,942.00		
Averages	94.90	24.39	78.43

Single Well Report For: Avery_31 - Avery24/31_U-841S_Fuel - From: 2020-08-02 - To: 2020-09-01

Date	Gas	Diff	Line
2020-08-02 12:00:00	96.80	24.70	78.20
2020-08-03 12:00:00	97.40	25.00	77.80
2020-08-04 12:00:00	98.90	25.20	78.10
2020-08-05 12:00:00	99.60	26.10	78.80
2020-08-06 12:00:00	100.40	26.20	79.70
2020-08-07 12:00:00	98.90	25.60	78.40
2020-08-08 12:00:00	69.80	16.00	81.60
2020-08-09 12:00:00	83.50	18.30	78.50
2020-08-10 12:00:00	83.10	18.50	77.80
2020-08-11 12:00:00	83.70	18.80	77.70
2020-08-12 12:00:00	85.40	19.20	77.90
2020-08-13 12:00:00	85.40	19.30	77.70
2020-08-14 12:00:00	85.70	19.50	77.60
2020-08-15 12:00:00	84.70	19.20	77.60
2020-08-16 12:00:00	84.60	19.30	77.20
2020-08-17 12:00:00	85.90	19.50	77.30
2020-08-18 12:00:00	86.40	19.50	77.60
2020-08-19 12:00:00	86.60	19.30	77.70
2020-08-20 12:00:00	85.50	19.00	77.60
2020-08-21 12:00:00	83.60	18.70	77.00
2020-08-22 12:00:00	85.20	19.20	77.20
2020-08-23 12:00:00	84.40	19.10	77.10
2020-08-24 12:00:00	85.70	19.80	76.90
2020-08-25 12:00:00	86.20	20.00	76.90
2020-08-26 12:00:00	87.40	20.30	77.00
2020-08-27 12:00:00	86.50	19.90	77.10
2020-08-28 12:00:00	86.50	20.00	76.80
2020-08-29 12:00:00	86.70	20.00	77.00
2020-08-30 12:00:00	88.50	20.40	76.80
2020-08-31 12:00:00	88.00	20.40	76.90
2020-09-01 12:00:00	86.00	19.60	77.10
Sums	2,717.00		
Averages	87.65	20.50	77.70

Single Well Report For: Avery_31 - Avery 24/31_U-1307_Fuel - From: 2019-09-02 - To: 2019-10-01

Date	Gas	Diff	Line
2019-09-02 12:00:00	166.50	13.20	386.20
2019-09-03 12:00:00	166.60	13.20	386.00
2019-09-04 12:00:00	164.80	12.90	386.50
2019-09-05 12:00:00	164.90	12.90	386.30
2019-09-06 12:00:00	164.10	12.80	387.00
2019-09-07 12:00:00	165.00	13.00	385.90
2019-09-08 12:00:00	165.00	13.00	385.60
2019-09-09 12:00:00	163.40	12.70	387.30
2019-09-10 12:00:00	163.70	12.70	386.80
2019-09-11 12:00:00	166.00	13.20	384.30
2019-09-12 12:00:00	164.70	13.00	384.70
2019-09-13 12:00:00	162.90	12.60	385.90
2019-09-14 12:00:00	163.60	12.80	384.90
2019-09-15 12:00:00	163.20	12.70	385.40
2019-09-16 12:00:00	163.20	12.70	385.70
2019-09-17 12:00:00	164.20	12.90	384.50
2019-09-18 12:00:00	164.20	12.90	385.00
2019-09-19 12:00:00	165.40	13.10	384.70
2019-09-20 12:00:00	166.30	13.20	384.40
2019-09-21 12:00:00	166.00	13.20	384.30
2019-09-22 12:00:00	166.30	13.20	384.10
2019-09-23 12:00:00	166.10	13.20	384.60
2019-09-24 12:00:00	164.40	12.90	386.40
2019-09-25 12:00:00	163.60	12.80	385.90
2019-09-26 12:00:00	163.50	12.80	385.20
2019-09-27 12:00:00	144.60	10.90	385.10
2019-09-28 12:00:00	158.60	12.00	385.80
2019-09-29 12:00:00	158.60	12.00	385.90
2019-09-30 12:00:00	154.30	11.30	387.30
2019-10-01 12:00:00	159.90	12.20	385.60
Sums	4,893.60		
Averages	163.12	12.73	385.58

Single Well Report For: Avery_31 - Avery 24/31_U-1307_Fuel - From: 2019-10-02 - To: 2019-11-01

Date	Gas	Diff	Line
2019-10-02 12:00:00	161.20	12.40	384.70
2019-10-03 12:00:00	158.90	12.00	387.60
2019-10-04 12:00:00	159.60	12.10	387.40
2019-10-05 12:00:00	158.90	12.00	388.00
2019-10-06 12:00:00	158.00	11.80	388.20
2019-10-07 12:00:00	159.90	12.20	386.00
2019-10-08 12:00:00	159.70	12.10	386.90
2019-10-09 12:00:00	158.80	11.90	388.10
2019-10-10 12:00:00	156.10	11.90	379.40
2019-10-11 12:00:00	159.60	12.30	381.10
2019-10-12 12:00:00	161.00	12.60	380.20
2019-10-13 12:00:00	158.30	12.00	383.20
2019-10-14 12:00:00	157.20	11.80	384.10
2019-10-15 12:00:00	156.90	11.80	383.80
2019-10-16 12:00:00	157.20	11.80	384.00
2019-10-17 12:00:00	157.20	11.90	383.00
2019-10-18 12:00:00	157.80	11.90	383.50
2019-10-19 12:00:00	157.70	11.90	383.30
2019-10-20 12:00:00	157.80	12.00	382.30
2019-10-21 12:00:00	159.00	12.20	380.90
2019-10-22 12:00:00	151.60	11.30	381.70
2019-10-23 12:00:00	162.40	12.70	382.40
2019-10-24 12:00:00	161.10	12.50	382.70
2019-10-25 12:00:00	160.50	12.40	382.80
2019-10-26 12:00:00	159.60	12.20	384.00
2019-10-27 12:00:00	159.90	12.30	384.20
2019-10-28 12:00:00	161.20	12.50	382.20
2019-10-29 12:00:00	161.20	12.50	382.90
2019-10-30 12:00:00	161.20	12.50	383.50
2019-10-31 12:00:00	160.50	12.30	384.40
2019-11-01 12:00:00	159.40	12.20	384.60
Sums	4,929.40		
Averages	159.01	12.13	383.91

Single Well Report For: Avery_31 - Avery 24/31_U-1307_Fuel - From: 2019-11-02 - To: 2019-12-01

Date	Gas	Diff	Line
2019-11-02 12:00:00	159.20	12.10	384.50
2019-11-03 12:00:00	160.20	12.30	384.00
2019-11-04 12:00:00	159.90	12.20	384.30
2019-11-05 12:00:00	160.20	12.30	383.40
2019-11-06 12:00:00	159.60	12.20	385.20
2019-11-07 12:00:00	158.60	12.00	386.10
2019-11-08 12:00:00	103.90	6.20	385.00
2019-11-09 12:00:00	129.60	8.70	387.10
2019-11-10 12:00:00	164.50	12.90	385.10
2019-11-11 12:00:00	163.00	12.70	385.00
2019-11-12 12:00:00	161.80	12.40	387.80
2019-11-13 12:00:00	163.30	12.60	388.40
2019-11-14 12:00:00	163.20	12.60	387.90
2019-11-15 12:00:00	162.00	12.50	386.80
2019-11-16 12:00:00	162.70	12.70	384.80
2019-11-17 12:00:00	160.40	12.20	387.40
2019-11-18 12:00:00	158.80	12.10	384.30
2019-11-19 12:00:00	158.50	12.00	383.90
2019-11-20 12:00:00	155.80	11.60	384.50
2019-11-21 12:00:00	162.80	12.70	383.60
2019-11-22 12:00:00	174.40	13.50	383.00
2019-11-23 12:00:00	169.70	13.80	384.70
2019-11-24 12:00:00	175.00	14.70	383.60
2019-11-25 12:00:00	175.70	14.90	380.80
2019-11-26 12:00:00	171.90	14.40	378.90
2019-11-27 12:00:00	176.30	15.10	379.60
2019-11-28 12:00:00	170.50	14.10	380.80
2019-11-29 12:00:00	174.70	14.70	382.10
2019-11-30 12:00:00	175.00	14.80	380.60
2019-12-01 12:00:00	174.80	14.80	380.40
Sums	4,866.00		
Averages	162.20	12.73	384.12

Single Well Report For: Avery_31 - Avery 24/31_U-1307_Fuel - From: 2019-12-02 - To: 2020-01-01

Date	Gas	Diff	Line
2019-12-02 12:00:00	174.10	14.70	381.10
2019-12-03 12:00:00	164.90	13.10	381.60
2019-12-04 12:00:00	169.70	14.00	381.40
2019-12-05 12:00:00	176.70	15.10	380.10
2019-12-06 12:00:00	173.80	14.60	381.80
2019-12-07 12:00:00	172.20	14.30	382.30
2019-12-08 12:00:00	173.50	14.50	382.90
2019-12-09 12:00:00	174.10	14.60	381.80
2019-12-10 12:00:00	175.10	14.90	379.70
2019-12-11 12:00:00	172.50	14.30	382.80
2019-12-12 12:00:00	166.90	13.30	386.30
2019-12-13 12:00:00	167.40	13.40	386.00
2019-12-14 12:00:00	171.30	14.10	383.10
2019-12-15 12:00:00	171.30	14.30	381.60
2019-12-16 12:00:00	173.40	14.40	384.30
2019-12-17 12:00:00	173.80	14.50	384.30
2019-12-18 12:00:00	173.20	14.50	383.10
2019-12-19 12:00:00	170.60	13.90	385.40
2019-12-20 12:00:00	169.70	13.80	384.20
2019-12-21 12:00:00	163.30	12.90	381.90
2019-12-22 12:00:00	158.50	12.10	381.60
2019-12-23 12:00:00	159.80	12.40	380.40
2019-12-24 12:00:00	166.70	13.50	380.40
2019-12-25 12:00:00	175.30	14.90	380.30
2019-12-26 12:00:00	174.50	14.80	379.50
2019-12-27 12:00:00	172.50	14.50	378.50
2019-12-28 12:00:00	169.50	13.90	380.40
2019-12-29 12:00:00	164.10	13.10	380.20
2019-12-30 12:00:00	174.50	14.80	378.60
2019-12-31 12:00:00	174.70	14.80	380.70
2020-01-01 12:00:00	171.90	14.30	381.30
Sums	5,289.50		
Averages	170.63	14.07	381.86

Single Well Report For: Avery_31 - Avery 24/31_U-1307_Fuel - From: 2020-01-02 - To: 2020-02-01

Date	Gas	Diff	Line
2020-01-02 12:00:00	171.80	14.30	381.40
2020-01-03 12:00:00	172.00	14.30	380.10
2020-01-04 12:00:00	160.30	12.40	380.60
2020-01-05 12:00:00	157.80	12.00	381.40
2020-01-06 12:00:00	157.90	12.00	381.20
2020-01-07 12:00:00	157.90	12.10	381.80
2020-01-08 12:00:00	159.40	12.30	380.80
2020-01-09 12:00:00	158.00	12.00	383.60
2020-01-10 12:00:00	159.60	12.30	382.40
2020-01-11 12:00:00	169.30	13.90	380.30
2020-01-12 12:00:00	178.60	15.60	377.80
2020-01-13 12:00:00	176.90	15.10	381.00
2020-01-14 12:00:00	177.10	15.20	379.50
2020-01-15 12:00:00	175.60	14.90	380.60
2020-01-16 12:00:00	174.90	14.80	381.00
2020-01-17 12:00:00	171.50	14.10	382.70
2020-01-18 12:00:00	173.10	14.40	383.10
2020-01-19 12:00:00	172.40	14.30	381.60
2020-01-20 12:00:00	170.30	13.90	383.20
2020-01-21 12:00:00	170.00	13.90	383.50
2020-01-22 12:00:00	171.80	14.20	382.80
2020-01-23 12:00:00	170.20	13.90	383.00
2020-01-24 12:00:00	169.10	13.80	381.50
2020-01-25 12:00:00	170.40	14.00	380.80
2020-01-26 12:00:00	168.40	13.80	380.10
2020-01-27 12:00:00	170.00	14.00	381.00
2020-01-28 12:00:00	162.50	12.80	380.20
2020-01-29 12:00:00	165.90	13.30	381.20
2020-01-30 12:00:00	170.80	14.10	381.30
2020-01-31 12:00:00	171.20	14.20	381.60
2020-02-01 12:00:00	167.10	13.50	381.90
Sums	5,221.80		
Averages	168.45	13.72	381.39

Single Well Report For: Avery_31 - Avery 24/31_U-1307_Fuel - From: 2020-02-02 - To: 2020-03-01

Date	Gas	Diff	Line
2020-02-02 12:00:00	165.50	13.20	381.60
2020-02-03 12:00:00	166.40	13.40	380.60
2020-02-04 12:00:00	167.10	13.60	379.30
2020-02-05 12:00:00	166.10	13.30	381.70
2020-02-06 12:00:00	165.40	13.20	382.90
2020-02-07 12:00:00	164.90	13.10	381.60
2020-02-08 12:00:00	164.00	13.00	382.10
2020-02-09 12:00:00	163.60	12.80	384.10
2020-02-10 12:00:00	165.50	13.20	382.50
2020-02-11 12:00:00	165.60	13.20	381.80
2020-02-12 12:00:00	169.10	13.80	382.70
2020-02-13 12:00:00	169.80	13.90	382.80
2020-02-14 12:00:00	142.20	10.70	365.40
2020-02-15 12:00:00	151.30	10.90	386.70
2020-02-16 12:00:00	155.00	11.50	385.50
2020-02-17 12:00:00	157.90	12.00	383.10
2020-02-18 12:00:00	156.50	11.70	385.40
2020-02-19 12:00:00	158.40	12.00	383.10
2020-02-20 12:00:00	157.60	11.90	385.00
2020-02-21 12:00:00	156.60	11.70	385.80
2020-02-22 12:00:00	157.10	11.80	384.70
2020-02-23 12:00:00	158.10	12.10	381.50
2020-02-24 12:00:00	157.50	12.00	380.40
2020-02-25 12:00:00	158.00	12.10	380.30
2020-02-26 12:00:00	158.30	12.10	381.60
2020-02-27 12:00:00	156.90	11.80	382.60
2020-02-28 12:00:00	154.90	11.50	384.20
2020-02-29 12:00:00	155.50	11.60	383.80
2020-03-01 12:00:00	156.10	11.70	382.50
Sums	4,640.90		
Averages	160.03	12.37	382.25

Single Well Report For: Avery_31 - Avery 24/31_U-1307_Fuel - From: 2020-03-02 - To: 2020-04-01

Date	Gas	Diff	Line
2020-03-02 12:00:00	157.40	12.00	381.30
2020-03-03 12:00:00	157.10	11.90	380.90
2020-03-04 12:00:00	156.30	11.80	381.40
2020-03-05 12:00:00	153.20	11.50	379.10
2020-03-06 12:00:00	155.30	11.70	381.60
2020-03-07 12:00:00	157.60	12.00	381.80
2020-03-08 12:00:00	156.50	11.80	382.50
2020-03-09 12:00:00	157.60	12.00	381.60
2020-03-10 12:00:00	157.90	12.00	381.20
2020-03-11 12:00:00	157.30	11.90	383.40
2020-03-12 12:00:00	156.10	11.70	384.20
2020-03-13 12:00:00	158.20	12.10	381.30
2020-03-14 12:00:00	158.40	12.10	380.90
2020-03-15 12:00:00	158.40	12.10	380.40
2020-03-16 12:00:00	151.00	12.10	380.50
2020-03-17 12:00:00	156.80	11.90	381.30
2020-03-18 12:00:00	158.00	12.10	380.80
2020-03-19 12:00:00	157.10	11.90	381.10
2020-03-20 12:00:00	157.50	12.00	380.20
2020-03-21 12:00:00	157.00	11.90	381.80
2020-03-22 12:00:00	156.70	11.80	382.00
2020-03-23 12:00:00	156.50	11.80	382.20
2020-03-24 12:00:00	157.50	12.00	381.40
2020-03-25 12:00:00	158.60	12.10	382.40
2020-03-26 12:00:00	156.90	11.80	384.00
2020-03-27 12:00:00	157.30	11.90	383.80
2020-03-28 12:00:00	156.70	11.80	383.10
2020-03-29 12:00:00	156.50	11.80	382.90
2020-03-30 12:00:00	157.90	12.00	381.00
2020-03-31 12:00:00	156.90	11.90	382.00
2020-04-01 12:00:00	156.70	11.80	381.80
Sums	4,862.90		
Averages	156.87	11.91	381.74

Single Well Report For: Avery_31 - Avery 24/31_U-1307_Fuel - From: 2020-04-02 - To: 2020-05-01

Date	Gas	Diff	Line
2020-04-02 12:00:00	157.60	12.00	380.90
2020-04-03 12:00:00	158.10	12.10	380.70
2020-04-04 12:00:00	157.40	11.90	382.10
2020-04-05 12:00:00	156.30	11.70	384.20
2020-04-06 12:00:00	156.40	11.80	382.10
2020-04-07 12:00:00	156.50	11.80	381.90
2020-04-08 12:00:00	155.90	11.70	382.20
2020-04-09 12:00:00	157.30	12.00	379.90
2020-04-10 12:00:00	155.60	11.70	382.10
2020-04-11 12:00:00	155.30	11.60	382.90
2020-04-12 12:00:00	156.40	11.80	381.10
2020-04-13 12:00:00	157.40	12.00	379.60
2020-04-14 12:00:00	156.50	11.80	382.10
2020-04-15 12:00:00	155.30	11.60	383.70
2020-04-16 12:00:00	154.20	11.40	383.50
2020-04-17 12:00:00	152.70	11.20	383.30
2020-04-18 12:00:00	153.60	11.40	381.50
2020-04-19 12:00:00	155.30	11.60	381.60
2020-04-20 12:00:00	156.30	11.80	381.60
2020-04-21 12:00:00	154.70	11.50	382.50
2020-04-22 12:00:00	154.20	11.40	383.30
2020-04-23 12:00:00	155.30	11.60	382.30
2020-04-24 12:00:00	156.40	11.80	381.90
2020-04-25 12:00:00	156.70	11.90	380.60
2020-04-26 12:00:00	156.20	11.80	381.20
2020-04-27 12:00:00	157.30	11.90	382.50
2020-04-28 12:00:00	156.50	11.70	384.00
2020-04-29 12:00:00	157.40	11.90	382.10
2020-04-30 12:00:00	156.60	11.80	382.50
2020-05-01 12:00:00	156.90	11.90	381.70
Sums	4,682.30		
Averages	156.08	11.74	382.05

Single Well Report For: Avery_31 - Avery 24/31_U-1307_Fuel - From: 2020-05-02 - To: 2020-06-01

Date	Gas	Diff	Line
2020-05-02 12:00:00	155.70	11.70	380.80
2020-05-03 12:00:00	152.30	11.30	380.10
2020-05-04 12:00:00	153.90	11.40	382.20
2020-05-05 12:00:00	153.20	11.20	383.80
2020-05-06 12:00:00	130.00	9.30	382.60
2020-05-07 12:00:00	153.40	11.30	382.10
2020-05-08 12:00:00	149.30	10.70	382.90
2020-05-09 12:00:00	151.30	11.00	384.80
2020-05-10 12:00:00	156.40	11.70	383.70
2020-05-11 12:00:00	156.60	11.80	383.60
2020-05-12 12:00:00	156.40	11.80	382.90
2020-05-13 12:00:00	137.40	9.30	384.10
2020-05-14 12:00:00	156.90	11.80	383.10
2020-05-15 12:00:00	157.30	11.90	383.30
2020-05-16 12:00:00	156.30	11.80	380.70
2020-05-17 12:00:00	154.40	11.50	382.10
2020-05-18 12:00:00	153.40	11.30	383.10
2020-05-19 12:00:00	152.70	11.30	382.70
2020-05-20 12:00:00	157.50	12.00	380.40
2020-05-21 12:00:00	157.80	12.00	380.90
2020-05-22 12:00:00	157.60	12.00	380.50
2020-05-23 12:00:00	158.70	12.20	379.50
2020-05-24 12:00:00	159.50	12.30	379.80
2020-05-25 12:00:00	159.80	12.40	379.80
2020-05-26 12:00:00	140.40	10.80	378.00
2020-05-27 12:00:00	151.50	11.00	386.10
2020-05-28 12:00:00	157.60	11.90	384.90
2020-05-29 12:00:00	156.60	11.70	386.10
2020-05-30 12:00:00	153.60	11.20	386.90
2020-05-31 12:00:00	149.60	10.60	388.60
2020-06-01 12:00:00	151.70	10.90	388.50
Sums	4,748.80		
Averages	153.19	11.39	382.86

Single Well Report For: Avery_31 - Avery 24/31_U-1307_Fuel - From: 2020-06-02 - To: 2020-07-01

Date	Gas	Diff	Line
2020-06-02 12:00:00	154.40	11.30	387.20
2020-06-03 12:00:00	156.10	11.70	384.70
2020-06-04 12:00:00	155.70	11.60	384.30
2020-06-05 12:00:00	154.40	11.40	385.00
2020-06-06 12:00:00	154.60	11.40	385.60
2020-06-07 12:00:00	155.00	11.50	385.60
2020-06-08 12:00:00	153.20	11.10	387.50
2020-06-09 12:00:00	153.50	11.30	385.20
2020-06-10 12:00:00	153.20	11.20	384.00
2020-06-11 12:00:00	153.80	11.30	384.90
2020-06-12 12:00:00	153.90	11.30	386.80
2020-06-13 12:00:00	154.00	11.20	388.00
2020-06-14 12:00:00	156.30	11.60	387.40
2020-06-15 12:00:00	156.20	11.60	386.20
2020-06-16 12:00:00	155.40	11.50	385.90
2020-06-17 12:00:00	156.60	11.70	385.10
2020-06-18 12:00:00	156.10	11.70	385.00
2020-06-19 12:00:00	155.70	11.60	384.60
2020-06-20 12:00:00	157.20	11.80	384.30
2020-06-21 12:00:00	148.90	11.10	384.40
2020-06-22 12:00:00	123.40	9.10	375.70
2020-06-23 12:00:00	120.10	8.70	362.70
2020-06-24 12:00:00	155.60	11.60	383.70
2020-06-25 12:00:00	153.70	11.30	383.50
2020-06-26 12:00:00	154.30	11.40	383.00
2020-06-27 12:00:00	153.80	11.40	381.60
2020-06-28 12:00:00	155.20	11.80	380.40
2020-06-29 12:00:00	156.20	11.80	381.10
2020-06-30 12:00:00	158.80	12.20	380.40
2020-07-01 12:00:00	160.50	12.50	380.90
Sums	4,585.80		
Averages	152.86	11.36	383.49

Single Well Report For: Avery_31 - Avery 24/31_U-1307_Fuel - From: 2020-07-02 - To: 2020-08-01

Date	Gas	Diff	Line
2020-07-02 12:00:00	160.20	12.40	381.20
2020-07-03 12:00:00	157.40	12.00	380.60
2020-07-04 12:00:00	155.40	11.70	379.90
2020-07-05 12:00:00	157.10	12.00	380.50
2020-07-06 12:00:00	159.30	12.30	381.50
2020-07-07 12:00:00	158.90	12.30	380.40
2020-07-08 12:00:00	158.60	12.20	379.50
2020-07-09 12:00:00	153.80	11.50	379.90
2020-07-10 12:00:00	156.40	11.90	379.90
2020-07-11 12:00:00	157.20	11.90	381.00
2020-07-12 12:00:00	162.30	12.70	381.10
2020-07-13 12:00:00	161.20	12.50	382.20
2020-07-14 12:00:00	162.60	12.80	380.40
2020-07-15 12:00:00	164.00	13.00	379.70
2020-07-16 12:00:00	160.80	12.50	381.40
2020-07-17 12:00:00	157.00	12.10	380.50
2020-07-18 12:00:00	159.20	12.30	379.40
2020-07-19 12:00:00	160.10	12.40	379.50
2020-07-20 12:00:00	157.10	12.00	379.10
2020-07-21 12:00:00	151.60	11.10	380.90
2020-07-22 12:00:00	149.70	10.80	381.90
2020-07-23 12:00:00	156.90	11.90	381.20
2020-07-24 12:00:00	157.10	11.90	380.80
2020-07-25 12:00:00	157.60	12.00	380.60
2020-07-26 12:00:00	159.00	12.30	379.00
2020-07-27 12:00:00	160.20	12.50	378.60
2020-07-28 12:00:00	159.90	12.40	378.90
2020-07-29 12:00:00	146.40	10.60	380.20
2020-07-30 12:00:00	158.60	12.20	380.00
2020-07-31 12:00:00	157.60	12.00	380.60
2020-08-01 12:00:00	156.70	11.90	380.90
Sums	4,889.90		
Averages	157.74	12.07	380.36

Single Well Report For: Avery_31 - Avery 24/31_U-1307_Fuel - From: 2020-08-02 - To: 2020-09-01

Date	Gas	Diff	Line
2020-08-02 12:00:00	156.80	11.90	380.80
2020-08-03 12:00:00	156.90	11.90	380.90
2020-08-04 12:00:00	155.00	11.50	383.00
2020-08-05 12:00:00	152.90	11.50	382.40
2020-08-06 12:00:00	156.40	11.80	382.40
2020-08-07 12:00:00	158.30	12.10	381.10
2020-08-08 12:00:00	130.40	10.10	373.60
2020-08-09 12:00:00	157.30	12.10	378.50
2020-08-10 12:00:00	158.40	12.30	376.60
2020-08-11 12:00:00	160.20	12.60	376.20
2020-08-12 12:00:00	159.90	12.50	377.40
2020-08-13 12:00:00	160.00	12.50	376.80
2020-08-14 12:00:00	158.00	12.20	377.90
2020-08-15 12:00:00	157.80	12.20	377.50
2020-08-16 12:00:00	159.50	12.40	377.20
2020-08-17 12:00:00	158.60	12.30	377.70
2020-08-18 12:00:00	158.20	12.20	378.70
2020-08-19 12:00:00	157.50	12.00	379.40
2020-08-20 12:00:00	156.30	11.90	379.60
2020-08-21 12:00:00	158.70	12.30	377.60
2020-08-22 12:00:00	157.50	12.10	377.80
2020-08-23 12:00:00	158.30	12.20	377.50
2020-08-24 12:00:00	159.20	12.40	376.80
2020-08-25 12:00:00	159.60	12.50	376.80
2020-08-26 12:00:00	159.40	12.40	377.10
2020-08-27 12:00:00	158.20	12.20	379.00
2020-08-28 12:00:00	159.70	12.50	376.50
2020-08-29 12:00:00	158.50	12.20	378.80
2020-08-30 12:00:00	158.50	12.20	378.20
2020-08-31 12:00:00	158.20	12.20	379.30
2020-09-01 12:00:00	158.10	12.10	379.20
Sums	4,872.30		
Averages	157.17	12.11	378.46

Air Use Permit Maintenance Log 09/2019-08/2020

Scheduled Services (Lube, Oil, Filters)

617-96 Service		619-96 Service		620-96 Service		622-96 Service	
Unit #	Date	Unit #	Date	Unit #	Date	Unit #	Date
978-S	11/12/2019	674-S	9/4/2019	1319-S	9/9/2019	1307 & 841-S	11/7/2019
978-S	2/11/2020	674-S	12/3/2019	1319-S	12/19/2019	1308 & 841-S	2/9/2020
978-S	5/13/2020	674-S	3/10/2020	1319-S	3/26/2020	1309 & 841-S	5/5/2020
978-S	8/19/2020	674-S	6/8/2020	1319-S	6/24/2020	1310 & 841-S	8/7/2020

Engine Repairs

Unit #	Date	Explanation of Repairs
978-S	9/30/2019	Replace engine oil cooler
978-S	10/2/2019	Flush coolant system
978-S	10/15/2019	Replace piston, liner, and #8 cylinder head
841-S	10/21/2019	Replace engine water pump
841-S	11/8/2019	Replace engine fuel regulator
978-S	11/14/2019	Replace engine water pump, repair throttle linkage, replace plugs
978-S	11/20/2019	Replace left side exhaust manifold
1319-S	12/20/2019	Replace engine oil pan gasket
1319-S	4/10/2020	Changed head, oil cooler, coolant, and engine oil
841-S	5/5/2020	Changed front and rear main engine bearing seals
841-S	5/12/2020	Changed head and cleaned turbo nozzles
841-S	5/18/2020	Changed out governor
1319-S	6/9/2020	Replace engine block freeze plug and check oil cooler-OK
1307	8/7/2020	Change our rear main engine bearing seal

NATURAL GAS COMPRESSION SYSTEMS FIELD MAINTENANCE REPORT

Maintenance Performed REPLACED ENG. OIL COOLER	WO 46808
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Customer DELTA	Unit # U 978-S	Location BRILEY 31	Date 9/30/2019
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Equipment	Eng. Hours 36875	Day Of Week MONDAY	Time In 10:00	Time Out 19:30	Total Billable Reg 10.5	Total Billable OT	NonBillable
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Eng. Model & Serial # CAT 379 TA 72B01257	Compressor Model & serial # LEROI SCREW-LGL30270VFEP G3 S#5610X49	Cylinder Sizes
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Water Temp In	Water Temp Out	RPM	Oil Temp	Fuel Press	Aux Water In	Aux Water Out	Vac. Left	Vac. Right
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Valve Adjust In./Exh.	Avg. Clear. Before Set	Type Of Oil	Timing	Amb. Temp	Sep. Press	Pre Cat	Post Cat
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Compression	LB	1	2	3	4	5	6	7	8	Suc Press	1st Int Press	2nd Int Press	3rd Int Press	Disc Press
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Readings	RB	1	2	3	4	5	6	7	8	1st temp	2nd Temp	3rd Temp	4th Temp	Oil Press	Oil Temp
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HRS.	SERVICE CHECKLIST
9.5	PK ✓
1	Eric ✓
	Service Unit
	Oil Sample Eng./Frame
	Change Oil & Filters
	Adjust Valves/Bridges
	Check Compression
	Check Hold Downs
	Check Fuel Press
	Check Belts/Bearings
	Check Panel Wiring
	Replace Pro Flo Batt
	DUMPS
	Check Cooler
	Test shutdowns
	Regap/Replace Spark plugs
	Air Filter
	Carb Linkage
	Compressor Valves
	Check O2 %
	Check CO
	Check NOX
	Check Lube/Cycle time.
	Oil & A/F Levels -25
	Grease Bearings
	Check packing
	Check Salt Filter Diff
	Check Battery Level
	Check UNDER VOLTAGE
	Converter Maintenance
	Coalescer Differential
	Alignment

MAINTENANCE PERFORMED

CALLED TO LOCATION BY PETE L. THAT PUMPER WAS SHUTTING DOWN UNIT. OIL OVERFLOWING OUT OF COOLANT DAY TANK. PETE CALLED ARCHROCK FOR PART. MEET ERIC W. FOR PART. AT LOCATION CHECKED OVER UNIT AND LAID DOWN OIL SOAKS ON SKID AND WIPE PIPES WERE I WAS GOING TO WORK. FOUND 2 EMPTY BARRELS. DRAINED COOLANT SYSTEM INTO BARRELS. DRAINED OIL COOLER. PULLED OFF OIL COOLER AND CLEANED UP EVERYTHING. INSTALLED NEW OIL COOLER AND GASKET AND ORINGS. FINISHED UP. CLEANED UP WHILE WAITING FOR STEAMER. HAD STEAMER CLEAN UP COOLER/FAN/BELT GUARD. HAD STEAMER FILL ENGINE WITH WATER. START UP AND LOAD UNIT. HOOKED UP HOSE OFF TOP OF DAY TANK. HAD STEAMER CLEAN UP REST OF UNIT. ADD WATER EVERY 15 MINUTES. SHUTDOWN AND DRAINED SYSTEM. REFILL SYSTEM AND PURGED SYSTEM. START UP AND LOAD UNIT. ADDED WATER A FEW TIMES TO PUMP OFF OIL OUT THE TOP OF TANK. HAD STEAMER FILL BARREL WITH WATER. LEFT WATER IN SYSTEM.

PARTS LIST

QTY	PART#/DESCRIPTION	INV. LOC.	QTY	PART#/DESCRIPTION	INV. LOC.
1	OR 5540 OIL COOLER	CUST.			
1	109 2332 ORING	PK			
1	6L 1650 ORING	PK			
1	3P 0650 ORING	PK			
2	4F 7387 ORING	PK			
1	4L 8120 GASKET	PL			
1	10# RAGS	NS			
20	WHITE OIL SOAKS	NS			
3	ROLOC DISCS	NS			

Customer Signature _____

Mechanic PHILLIP KORFF



JS



pij

NATURAL GAS COMPRESSION SYSTEMS FIELD MAINTENANCE REPORT

Maintenance Performed REPLACED ENG. OIL COOLER		WO 46808
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Customer DELTA	Unit # U 978-S	Location BRILEY 31	Date 9/30/2019
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Equipment	Eng. Hours 36875	Day Of Week MONDAY	Time In 10:00	Time Out 19:30	Total Billable Reg 10.5	Total Billable OT	NonBillable
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Eng. Model & Serial # CAT 379 TA 72B01257	Compressor Model & serial # LEROI SCREW-LGL30270VFEP G3 S#5610X49	Cylinder Sizes
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Water Temp In	Water Temp Out	RPM	Oil Temp	Fuel Press	Aux Water In	Aux Water Out	Vac. Left	Vac. Right
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Valve Adjust In./Exh.	Avg. Clear. Before Set	Type Of Oil	Timing	Amb. Temp	Sep. Press	Pre Cat	Post Cat
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Compression	LB	1	2	3	4	5	6	7	8	Suc Press	1st Int Press	2nd Int Press	3rd Int Press	Disc Press
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Readings	RB	1	2	3	4	5	6	7	8	1st temp	2nd Temp	3rd Temp	4th Temp	Oil Press	Oil Temp
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HRS.		SERVICE CHECKLIST													
9.5	PK	Service Unit	Check Cooler	Check Lube/Cycle time											
1	Eric	Oil Sample Eng./Frame	Test shutdowns	X	Oil & A/F Levels -25										
		Change Oil & Filters	Regap/Replace Spark plugs		Grease Bearings										
		Adjust Valves/Bridges	Air Filter		Check packing										
		Check Compression	Carb Linkage		Check Salt Filter Diff										
		Check Hold Downs	Compressor Valves		Check Battery Level										
		Check Fuel Press	Check O2 %		Check UNDER VOLTAGE										
		Check Belts/Bearings	Check CO		Converter Maintenance										
		Check Panel Wiring	Check NOX		Coalescer Differential										
		Replace Pro Flo Batt			Alignment										
		DUMPS													

MAINTENANCE PERFORMED

CALLED TO LOCATION BY PETE L. THAT PUMPER WAS SHUTTING DOWN UNIT. OIL OVERFLOWING OUT OF COOLANT DAY TANK. PETE CALLED ARCHROCK FOR PART. MEET ERIC W. FOR PART. AT LOCATION CHECKED OVER UNIT AND LAID DOWN OIL SOAKS ON SKID AND WIPE PIPES WERE I WAS GOING TO WORK. FOUND 2 EMPTY BARRELS. DRAINED COOLANT SYSTEM INTO BARRELS. DRAINED OIL COOLER. PULLED OFF OIL COOLER AND CLEANED UP EVERYTHING. INSTALLED NEW OIL COOLER AND GASKET AND ORINGS. FINISHED UP. CLEANED UP WHILE WAITING FOR STEAMER. HAD STEAMER CLEAN UP COOLER/FAN/BELT GUARD. HAD STEAMER FILL ENGINE WITH WATER. START UP AND LOAD UNIT. HOOKED UP HOSE OFF TOP OF DAY TANK. HAD STEAMER CLEAN UP REST OF UNIT. ADD WATER EVERY 15 MINUTES. SHUTDOWN AND DRAINED SYSTEM. REFILL SYSTEM AND PURGED SYSTEM. START UP AND LOAD UNIT. ADDED WATER A FEW TIMES TO PUMP OFF OIL OUT THE TOP OF TANK. HAD STEAMER FILL BARREL WITH WATER. LEFT WATER IN SYSTEM.

PARTS LIST

QTY	PART#/DESCRIPTION	INV. LOC.	QTY	PART#/DESCRIPTION	INV. LOC.
1	OR 5540 OIL COOLER	CUST.			
1	109 2332 ORING	PK			
1	6L 1650 ORING	PK			
1	3P 0650 ORING	PK			
2	4F 7387 ORING	PK			
1	4L 8120 GASKET	PL			
1	10# RAGS	NS			
20	WHITE OIL SOAKS	NS			
3	ROLOC DISCS	NS			

Customer Signature _____

Mechanic PHILLIP KORFF

ENTERED

NATURAL GAS COMPRESSION SYSTEMS FIELD MAINTENANCE REPORT

Maintenance Performed Cyl. Head Piston and Liner		NATURAL GAS COMPRESSION SYSTEMS FIELD MAINTENANCE REPORT						WO 50 46843							
Customer Delta			Unit # U978-s			Location Briley 31			Date 10/15/2019						
Equipment		Eng. Hours		Day Of Week Tuesday		Time In 10:00		Time Out 22:30		Total Billable Reg 13.5	Total Billable OT 13	NonBillable			
Eng. Model & Serial # Cat 379 72B314				Compressor Model & serial # Leroy LGL3027ovfep 561ox49				Cylinder Sizes							
Water Temp In 79	Water Temp Out 150	RPM 1109	Oil Press. 68	Oil Temp 135	Fuel Press	Aux Water In 74	Aux Water Out 74	Vac. Left 0	Vac. Right						
Valve Adjust In./Exh.		Avg. Clear. Before Set		Type Of Oil				Timing		Amb. Temp	Sep. Press	Pre Cat	Post Cat		
Compression	LB	1	2	3	4	5	6	7	8	Suc Press -17	1st Int Press	2nd Int Press	3rd Int Press	Disc Press 38	
Readings	RB	1	2	3	4	5	6	7	8	1st temp 83	2nd Temp 211	3rd Temp	4th Temp	Oil Press 13	Oil Temp 145

HRS.	SERVICE CHECKLIST									
12.5	Chad Wright	10:00 - 22:30	5.5	SERVICE		Check Cooler		Check Lube/Cycle time		
11.5	Jeff Butler	10:30 - 22:00	5	Oil Sample Eng./Frame		Test shutdowns		Oil & A/F Levels -25		
2.5	Peter Latuszek	18:00 - 20:30	2.5	Change Oil & Filters		Regap/Replace Spark plugs		Grease Bearings		
				Adjust Valves/Bridges		Air Filter		Check packing		
				Check Compression		Carb Linkage		Check Salt Filter Diff		
				Check Hold Downs		Compressor Valves		Check Battery Level		
				Check Fuel Press		Check O2 %		Check UNDER VOLTAGE		
				Check Belts/Bearings		Check CO		Converter Maintenance		
				Check Panel Wiring		Check NOX		Coalescer Differential		
				Replace Pro Flo Batt				Alignment		
				DUMPS						

MAINTENANCE PERFORMED

Called to unit for suspected coolant getting into a cylinder I drove to location we shut unit down and pulled the spark plugs to find out what cylinder was filling up with coolant after letting it sit for a half hour we found that the coolant was leaking into the number 8 cylinder. We Drained the coolant part way down below the heads we then removed number 8 head. Upon inspection we could not find anything wrong with the head we then turned our attention to the liner where we then found pitting in the cylinder and coolant leaking from one of the spots. We then drained the rest of the coolant I drove to the shop for parts and liner tool drove back to location replaced the piston and liner and cylinder head filled engine up with coolant changed engine oil cleaned oil pan out installed new spark plugs started unit up checked for leaks everything looked good cleaned up skid and left location.

PARTS LIST

QTY	PART#/DESCRIPTION	INV. LOC.	QTY	PART#/DESCRIPTION	INV. LOC.
1	OR3286 Piston and liner pack	CW			
1	OR2670-R Cyl.Head	CW			
1	399054CP Gasket Kit	CW			
8	RL85G Spark Plugs	CW			
10	07480 roloc disc	non stk.			
6	Brake clean	non stk.			
1	10# Rags	non stk.			
1	Aero-Kroil penetrating	non stk.			

Customer Signature Chad Wright Compression Unit # Briley 31 / Raymer Mechanic Operations Project _____

AFE # _____ Acct # _____

Explanation: repair cylinder on

U. 978-s

Rob



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NATURAL GAS COMPRESSION SYSTEMS

FIELD MAINTENANCE REPORT

Maintenance Performed r & r water pump		W0					46879								
Customer DELTA		Unit # U841-S		Location AVERY 31		Date 10/21/2019									
Equipment		Eng. Hours n/a	Day Of Week Monday		Time In 12:00	Time Out 17:30	Total Billable Reg 9.5	Total Billable OT	NonBillable						
Eng. Model & Serial # CAT379 72B237			Compressor Model & serial # Leno LGL30270VFEF 5610X51			Cylinder Sizes 16 3/4 11R 7R 4 1/4									
Water Temp In 140	Water Temp Out 172	RPM 1134	Oil Press. 47	Oil Temp 175	Fuel Press	Aux Water In	Aux Water Out	Vac. Left	Vac. Right						
Valve Adjust In./Exh.		Avg. Clear. Before Set		Type Of Oil CHEVRON SAE 40				Timing	Amb. Temp. 53	Sep. Press	Pre-Cat	Post-Cat			
Compression	LB	1	2	3	4	5	6	7	8	Suc. Press -10	1st Int. Press	2nd Int. Press	3rd Int. Press	Disc Press 15	
Readings	RB	1	2	3	4	5	6	7	8	1st temp 62	2nd Temp	3rd Temp	4th Temp 154	Oil Press 32	Oil Temp 150

HRS.		SERVICE CHECKLIST											
5.5	jab	Service Unit				Check Cooler				Check Lube/Cycle time			
4	pjl	Oil Sample Eng./Frame				Test shutdowns				X Oil & A/F Levels -25			
		Change Oil & Filters				Regap/Replace Spark plugs				Grease Bearings			
		Adjust Valves/Bridges				Air Filter				Check packing			
		Check Compression				Carb Linkage				Check Salt Filter Diff			
		Check Hold Downs				Compressor Valves				Check Battery Level			
		Check Fuel Press				Check O2 %				Check UNDER VOLTAGE			
		Check Belts/Bearings				Check CO				Converter Maintenance			
		Check Panel Wiring				Check NOX				Coalescer Differential			
		Replace Pro Flo Batt								Alignment			

MAINTENANCE PERFORMED

call out by Bill for water pump leaking. Arrived at unit and water pump was leaking coolant out of a hole in the top of the water pump. Shut unit down and drained coolant. Removed and replaced water pump. Replaced all gaskets and orings on coolant bypass tube. Filled unit with coolant. started unit. checked for leaks. all pressure and temps normal.

PARTS LIST

QTY	PART#/DESCRIPTION	INV. LOC.	QTY	PART#/DESCRIPTION	INV. LOC.
1	OR-0803 water pump	jab	6	Roloc disc	n/s
1	5L-2660 bearing	jab	1	Black adhesive	n/s
1	8L-5197 gasket	jab	6	cans of break clean	n/s
1	4L-7885 gasket	jab	1	Black silicone	n/s
1	4L-7885 gasket	jab			
1	4L-8121 gasket	jab			
1	4L-5832 gasket	jab			
1	4L-3437 gasket	jab			
1	4L-8606 gasket	jab			
1	5H-6012 seal	jab			
2	6L-1650 oring	jab			

Customer Signature _____ Mechanic Jeff Butler



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**NATURAL GAS COMPRESSION SYSTEMS
FIELD MAINTENANCE REPORT**

Maintenance Performed Fuel regulator		NATURAL GAS COMPRESSION SYSTEMS FIELD MAINTENANCE REPORT						WO 46940							
Customer DELTA			Unit # U841-S			Location AVERY 31			Date 11/8/2019						
Equipment	Eng. Hours n/a	Day Of Week Friday	Time In 10:00	Time Out 12:30	Total Billable Reg 2.5	Total Billable OT	NonBillable								
Eng. Model & Serial # CAT379 72B237			Compressor Model & serial # Lerio LGL30270VFEP 5610X51			Cylinder Sizes									
Water Temp In 129	Water Temp Out 175	RPM 1170	Oil Press. 52	Oil Temp 180	Fuel Press 14	Aux Water In 71	Aux Water Out 76	Vac. Left	Vac. Right						
Valve Adjust In./Exh.	Avg. Clear. Before Set		Type Of Oil CHEVRON SAE 40			Timing 26	Amb. Temp. 13	Sep. Press	Pre Cat	Post Cat					
Compression	LB	1	2	3	4	5	6	7	8	Suc Press -8	1st Int Press	2nd Int Press	3rd Int Press	Disc Press 12	
Readings	RB	1	2	3	4	5	6	7	8	1st temp 51 175	2nd Temp	3rd Temp	4th Temp	Oil Press 51	Oil Temp 175

HRS.	SERVICE CHECKLIST														
2.5	Peter	Service Unit				Check Cooler				Check Lube/Cycle time					
		Oil Sample Eng./Frame				Test shutdowns				Oil & A/F Levels -25					
		Change Oil & Filters				Regap/Replace Spark plugs				Grease Bearings					
		Adjust Valves/Bridges				Air Filter				Check packing					
		Check Compression				Carb Linkage				Check Salt Filter Diff					
		Check Hold Downs				Compressor Valves				Check Battery Level					
		Check Fuel Press				Check O2 %				Check UNDER VOLTAGE					
		Check Belts/Bearings				Check CO				Converter Maintenance					
		Check Panel Wiring				Check NOX				Coalescer Differential					
		Replace Pro Flo Batt								Alignment					

MAINTENANCE PERFORMED

Callout by Kent, stated engine wouldn't start after the service and wanted the right fuel regulator replaced. At location, installed a new regulator. Started unit and checked the timing while warming up b/c Kent had replaced the magneto. Timing was too high. Shutdown and index the magneto. Restart unit and set timing to 26 BTDC. Engine was low on coolant fill engine with coolant.

PARTS LIST					
QTY	PART#/DESCRIPTION	INV. LOC.	QTY	PART#/DESCRIPTION	INV. LOC.
15	Gallons coolant	customer			
1	S201 regulator	PL			

Customer Signature _____ Mechanic Peter Latuszek

ENTERED

**NATURAL GAS COMPRESSION SYSTEMS
FIELD MAINTENANCE REPORT**

Maintenance Performed: left exhaust manifold
 Customer: Delta
 Unit #: U978-S
 Location: Briley 31
 Date: 11/20/2019

Equipment: eng hours
 Day Of Week: Wednesday
 Time In: 7:00
 Time Out: 13:30
 Total Billable Reg: 19.5
 Total Billable OT: NonBillable

Eng. Model & Serial #: 379TA 72B00314
 Compressor Model & serial #: LGL 30270VFEP 5610X49
 Cylinder Sizes:

Water Temp In: 114
 Water Temp Out: 188
 RPM: 1130
 Oil Press.: 62
 Oil Temp: 190
 Fuel Press:
 Aux Water In: 53
 Aux Water Out: 58
 Manifold psi left: 2.5#
 Manifold psi right: 2.5#

Valve Adjust In./Exh.:
 Avg. Clear. Before Set:
 Type Of Oil: chevron
 Timing: 27 ACT
 DES.
 Amb. Temp: 35
 Sep. Press:
 Pre Cat: 1030
 Post Cat: 949

Compression: LB 1 2 3 4 5 6 7 8
 Suc Press: -18
 1st Int Press: 2nd Int Press: 3rd Int Press: Disc Press: 35
 Readings: RB 1 2 3 4 5 6 7 8
 1st temp: 58 205
 2nd Temp: 3rd Temp: 4th Temp: Oil Press: 12
 Oil Temp: 200

HRS.	HOURS DETAIL	TECHNICIAN	SERVICE CHECKLIST		
6.5	/	Peter	Service Unit	Check Cooler	Check Lube/Cycle time
7	/	Kyle	Oil Sample Eng./Frame	Test shutdowns	Oil & A/F Levels -25
6	/	Phil	Change Oil & Filters	Regap/Replace Spark plugs	Grease Bearings
			Adjust Valves/Bridges	Air Filter	Check packing
			Check Compression	Carb Linkage	Check Salt Filter Diff
			Check Hold Downs	Compressor Valves	Check Battery Level
			Check Fuel Press	Check O2 %	Check Dumps
			Check Belts/Bearings	Check CO	Converter Maintenance
			Check Panel Wiring	Check NOX	Coalescer Differential
			Replace Pro Flo Batt		

MAINTENANCE PERFORMED

At location to replace the left exhaust manifold. Manifold has internal crack.
 Shutdown and drain the coolant. Remove left exhaust manifold. Clean all mating surfaces and install new manifold. Replace all related gaskets and o-rings.
 Refill engine with coolant and restart unit. Put unit back online.

PARTS LIST

QTY	PART#/DESCRIPTION	INV. LOC.	QTY	PART#/DESCRIPTION	INV. LOC.
1	4L-9151 Exhaust manifold- Marine exhaust	po#47246			
2	5L-8817 gasket	PL			
4	4H-5952 gasket (4 FDSOI)	PL			
1	4L-7907 gasket PK	PL			
1	7M-7273 gasket	PK			
4	2N-3238 gasket	n/s			
1	4L-8128 gasket	PL			
1	9M-4217 o-ring	KP			
1	10# Rags	n/s			
6	Brake clean	n/s			
1	Bolts (Atlanta Hardware)	N/S			

Mechanic: Peter J Latuszek

ENTERED

NATURAL GAS COMPRESSION SYSTEMS FIELD MAINTENANCE REPORT

Maintenance Performed head change		NATURAL GAS COMPRESSION SYSTEMS FIELD MAINTENANCE REPORT					WO 47517								
Customer DELTA			Unit # U1319-S		Location BRILEY 19		Date 4/10/2020								
Equipment	Eng. Hours 33928	Day Of Week Friday	Time In 6:30	Time Out 16:00	Total Billable Reg 19	Total Billable OT	NonBillable								
Eng. Model & Serial # 3406 4FD01614			Compressor Model & serial # LEROI 5265X231			Cylinder Sizes									
Water Temp In 127	Water Temp Out 188	RPM 1691	Oil Press. 78	Oil Temp 203	Fuel Press	Aux Water In 75	Aux Water Out 79	Vac. Left	Vac. Right						
Valve Adjust In./Exh.	Avg. Clear. Before Set	Type Of Oil chevron			Timing	Amb. Temp. 34	Sep. Press	Pre Cat	Post Cat						
Compression	LB	1	2	3	4	5	6	7	8	Suc Press -17	1st Int Press	2nd Int Press	3rd Int Press	Disc Press 29	
Readings	RB	1	2	3	4	5	6	7	8	1st temp 58	2nd Temp	3rd Temp	4th Temp 210	Oil Press 50	Oil Temp 175

HRS.		SERVICE CHECKLIST													
9.5	jab	Service Unit				Check Cooler				Check Lube/Cycle time					
9.5	PK	Oil Sample Eng./Frame				Test shutdowns				Oil & A/F Levels -25					
		Change Oil & Filters				Regap/Replace Spark plugs				Grease Bearings					
		Adjust Valves/Bridges				Air Filter				Check packing					
		Check Compression				Carb Linkage				Check Salt Filter Diff					
		Check Hold Downs				Compressor Valves				Check Battery Level					
		Check Fuel Press				Check O2 %				Check UNDER VOLTAGE					
		Check Belts/Bearings				Check CO				Converter Maintenance					
		Check Panel Wiring				Check NOX				Coalescer Differential					
		Replace Pro Flo Batt								Alignment					

MAINTENANCE PERFORMED

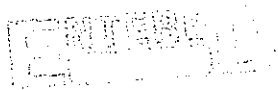
unit is scheduled for a head change. Arrived at unit. Drained coolant and engine oil. coolant was black. told Kent and he said he would get new coolant. Removed engine head. Cleaned engine deck. Installed new head. adjusted valves/bridges. removed and replaced oil filter, installed new spark plugs. removed oil cooler and inspected. oil cooler was clogged. drove to shop and picked up a new one. installed new oil cooler. removed sight glass and petcock and tube on coolant tank and cleaned. reinstalled sight glass and petcock. refilled unit with new coolant and oil. started unit. let unit warm up and loaded. all pressure and temps normal.

PARTS LIST

QTY	PART#/DESCRIPTION	INV. LOC.	QTY	PART#/DESCRIPTION	INV. LOC.
1	20R-0827 head	jab			
1	7X-7657 gasket kit	jab			
1	OR5511 oil cooler	jab			
1	6V-1185 gasket kit (459978)	jab			
6	RN79G spark plug	customer			
6	7E-0079 seal	customer			
1	1R-0716 oil filter	customer			
1	box of rags	n/s			
1	bag gray oil soaks	n/s			
12	break clean	n/s			
12	roloc disc's	n/s			

Customer Signature _____

Mechanic Jeff Butler



Maintenance Performed front/rear seal		NATURAL GAS COMPRESSION SYSTEMS FIELD MAINTENANCE REPORT					WO 47577	
Customer Delta		Unit # U841-S		Location Avery 31 booster		Date 5/5/2020		
Equipment screw	Eng. Hours 50093	Day Of Week Tuesday	Time In 7:00	Time Out 15:00	Total Billable Reg 23.5	Total Billable OT	NonBillable	
Eng. Model & Serial # CAT 379TA 72B0237		Compressor Model & serial # LeRio LGL30270YFEP 5610X51			Cylinder Sizes			
Water Temp In 137	Water Temp Out 170	RPM 1183	Oil Press. 47	Oil Temp 182	Fuel Press 26	Aux Water In	Aux Water Out	
Valve Adjust In./Exh.	Avg. Clear. Before Set	Type Of Oil Chevron Hdax Low Ash			Timing	Amb. Temp. 51	Sep. Press	
Compression	LB	1	2	3	4	5	6	
Readings	RB	1	2	3	4	5	6	
		Suc Press -15		1st Int Press		2nd Int Press		
		1st temp 60		2nd Temp		3rd Temp		
		201		4th Temp		Oil Press 30		
						Oil Temp 176		

HRS.	SERVICE CHECKLIST											
8	KP	Service Unit			Check Cooler			Check Lube/Cycle time				
9	PJL	Oil Sample Eng./Frame			Test shutdowns			Oil & A/F Levels -25				
6.5	CW	Change Oil & Filters			Regap/Replace Spark plugs			Grease Bearings				
		Adjust Valves/Bridges			Air Filter			Check packing				
		Check Compression			Carb Linkage			Check Salt Filter Diff				
		Check Hold Downs			Compressor Valves			Check Battery Level				
		Check Fuel Press			Check O2 %			Check UNDER VOLTAGE				
		Check Belts/Bearings			Check CO			Converter Maintenance				
		Check Panel Wiring			Check NOX			Coalescer Differential				
		Replace Pro Flo Batt						Alignment				

MAINTENANCE PERFORMED

Checked unit over good. Shut unit down. Blew unit down. Was there to change front and rear seal. Drain compressor oil down, shut oil valve off for compressor. Removed inlet and outlet pipe to compressor. Unhook all lines connecting to compressor. Unbolt compressor from engine and skid stand. Pull compressor out using boom truck. Changed coupling on compressor. Removed flywheel. Removed adapter and old seal. Cleaned up and installed new adapter and seal. Reinstalled flywheel and torque flywheel bolts. Reinstalled compressor and shimed mounts. Changed gasket on main inlet pipes. Also change seals on compressor oil pipes. Hooked up all piping and lines. Refilled with compressor oil. Removed fan guard. Removed belts and pulleys. Removed damper. Removed adapter and old seal. Installed new front seal. Reinstalled damper. Reinstalled pulley and belts. Reinstalled fan guard. Installed 4 new compressor filters. Fired unit back up. Checked unit over good. Everything looked good. Unit was than put back on line.

PARTS LIST					
QTY	PART#/DESCRIPTION	INV. LOC.	QTY	PART#/DESCRIPTION	INV. LOC.
1	4W-2606 front seal	KP	1	8T coupling	customer
1	4W-2607 rear seal	KP	2	.020 B-Type shims	n/s
1	2445-0490 garlock gasket	KP			
4	008-8000 2in dresser sleeves	KP			
4	B99 filters	KP			
12	cans of brake clean	N/S			
10	roltec disc	N/S			
2	scotch brit pads	N/S			
1	4W-2566 adapter	PJL			
1	4W-2567 adapter	PJL			
2	5L-2093 gaskets	PJL			

Customer Signature _____

Mechanic Kyle Purvis

MAY 27 ENT'D

