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,

--

Dennis Marelich

Owner

Denergy 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. 619-96

09/2019-08/2020

		U	sage	Factor			Emissions			!	
	Equipment	This month	12-month rolling period	co	NOx	VOC1	HAP	СО	МОх	TOTAL VOC²	HAP
U674-S G3406 N	Naturally Aspirated Compressor Facility A Fuel Gas MMcf	0.752	7.57	0.215	1.7	0.041		1.63	12.87	0.31	
N/A	Low Emission Compressor Facility Fuel Gas MMcf			0.043	0.17	0.0205					-
N/A	Tank Thruput bbl					0.000052					
N/A	Tank Capacity bbl					0.000037		—			
N/A	Crude Oil Trucked bbl					0.0014					
N/A	Niagaran Dehy ³ gpm	<u></u>				25.5	20.7		<u> </u>		
N/A	Prairie Duchein Dehy³ gpm	A-LAMINE-PORTER				8.6	1.1	Arriva			
N/A	Antrim Dehy ³ gpm					0.046					
	TOTAL Tons per 12-month rolling period							0.0	0.0	0.0	0.0

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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BOUGHNER/GILLIS MONTHLY GAS PRODUCTION 09/2019-82020 PN619-96

	BOUGHNER		GIL	LIS	
SEPTEMBER 2019	3,172	106	1,950	65	
OCTOBER 2019	2,861	92	1,911	62	
NOVEMBER 2019	2,611	87	1,904	63	
DECEMBER 2019	3,095	100	1,406	45	
JANUARY 2020	2,828	91	1,230	40	
FEBRUARY 2020	2,450	84	2,010	69	
MARCH 2020	2,667	86	1,454	47	
APRIL 2020	2,398	80	1,379	46	
MAY 2020	2,502	81	1,376	44	
JUNE 2020	2,722	91	1,406	47	
JULY 2020	2,471	80	1,743	56	
AUGUST 2020	2,274	73	1,531	49	

TOTALS	32,051	88	19,300	53
COMBINED PRODUCTION	51,	351		

Single Well Report For: Boughner - Boughner/Gillis_674S Fuel - From: 2019-09-02 - To: 2019-10-01

Date	Gas	Diff	Line
2019-09-02 12:00:00	24.60	1.00	112.80
2019-09-03 12:00:00	24.60	1.00	112.70
2019-09-04 12:00:00	24.50	1.00	112.40
2019-09-05 12:00:00	24.40	1.00	112.40
2019-09-06 12:00:00	24.40	1.00	112.30
2019-09-07 12:00:00	24.50	1.00	112.20
2019-09-08 12:00:00	24.10	1.00	112.10
2019-09-09 12:00:00	23.90	1.00	112.00
2019-09-10 12:00:00	24.00	1.00	111.80
2019-09-11 12:00:00	23.20	0.90	113.70
2019-09-12 12:00:00	22.50	0.80	113.80
2019-09-13 12:00:00	22.20	0.80	113.60
2019-09-14 12:00:00	22.00	0.80	113.20
2019-09-15 12:00:00	22.20	0.80	113.10
2019-09-16 12:00:00	22.00	0.80	112.90
2019-09-17 12:00:00	22.30	0.80	112.80
2019-09-18 12:00:00	22.40	0.90	112.80
2019-09-19 12:00:00	22.70	0.90	112.70
2019-09-20 12:00:00	22.70	0.90	112.60
2019-09-21 12:00:00	20.60	0.80	116.70
2019-09-22 12:00:00	22.80	0.90	113.60
2019-09-23 12:00:00	22.60	0.90	113.30
2019-09-24 12:00:00	22.20	0.80	113.10
2019-09-25 12:00:00	22.10	0.80	112.90
2019-09-26 12:00:00	22.30	0.80	112.70
2019-09-27 12:00:00	20.50	1.10	119.10
2019-09-28 12:00:00	20.20	0.70	115.20
2019-09-29 12:00:00	21.10	0.70	114.10
2019-09-30 12:00:00	21.00	0.70	113.10
2019-10-01 12:00:00	21.60	0.80	113.60
Sums	680.20		
Averages	22.67	0.88	113.31

Single Well Report For: Boughner - Boughner/Gillis_674S Fuel - From: 2019-10-02 - To: 2019-11-01

Date	Gas	Diff	Line
2019-10-02 12:00:00	21.30	0.90	114.40
2019-10-03 12:00:00	22.90	0.90	112.60
2019-10-04 12:00:00	22.00	0.90	115.00
2019-10-05 12:00:00	22.50	0.80	114.40
2019-10-06 12:00:00	22.40	0.80	113.90
2019-10-07 12:00:00	23.00	0.90	113.80
2019-10-08 12:00:00	22.90	0.90	113.60
2019-10-09 12:00:00	20.70	0.80	116.40
2019-10-10 12:00:00	23.00	0.90	114.20
2019-10-11 12:00:00	22.90	0.90	114.00
2019-10-12 12:00:00	22.90	0.90	113.50
2019-10-13 12:00:00	22.50	0.90	113.20
2019-10-14 12:00:00	22.20	0.80	113.00
2019-10-15 12:00:00	22.30	0.80	112.90
2019-10-16 12:00:00	22.70	0.90	112.60
2019-10-17 12:00:00	22.90	0.90	113.40
2019-10-18 12:00:00	22.50	0.90	113.70
2019-10-19 12:00:00	22.50	0.90	113.50
2019-10-20 12:00:00	6.00	0.20	127.40
2019-10-21 12:00:00	14.60	0.60	121.10
2019-10-22 12:00:00	22.10	0.90	116.50
2019-10-23 12:00:00	23.30	0.90	113.60
2019-10-24 12:00:00	23.10	0.90	113.60
2019-10-25 12:00:00	22.00	0.80	114.50
2019-10-26 12:00:00	21.90	0.80	114.10
2019-10-27 12:00:00	22.30	0.80	113.70
2019-10-28 12:00:00	22.60	0.90	113.60
2019-10-29 12:00:00	22.70	0.90	113.60
2019-10-30 12:00:00	22.90	0.90	113.50
2019-10-31 12:00:00	22.70	0.90	113.40
2019-11-01 12:00:00	22.60	0.90	113.10
Sums	672.90		
Averages	21.71	0.84	114.51

Single Well Report For: Boughner - Boughner/Gillis_674S Fuel - From: 2019-11-02 - To: 2019-12-01

Date	Gas	Diff	Line
2019-11-02 12:00:00	22.50	0.90	113.10
2019-11-03 12:00:00	22.70	0.90	113.20
2019-11-04 12:00:00	22.90	0.90	113.20
2019-11-05 12:00:00	22.90	0.90	113.10
2019-11-06 12:00:00	22.90	0.90	113.10
2019-11-07 12:00:00	22.80	0.90	112.90
2019-11-08 12:00:00	22.70	0.90	113.20
2019-11-09 12:00:00	22.60	0.90	113.00
2019-11-10 12:00:00	22.60	0.90	112.80
2019-11-11 12:00:00	22.90	0.90	112.90
2019-11-12 12:00:00	22.50	0.90	112.80
2019-11-13 12:00:00	22.40	0.80	112.80
2019-11-14 12:00:00	22.80	0.90	112.70
2019-11-15 12:00:00	23.20	0.90	112.60
2019-11-16 12:00:00	23.10	0.90	112.70
2019-11-17 12:00:00	22.90	0.90	112.70
2019-11-18 12:00:00	23.30	0.90	112.40
2019-11-19 12:00:00	23.40	0.90	112.20
2019-11-20 12:00:00	23.30	0.90	112.20
2019-11-21 12:00:00	23.50	0.90	112.20
2019-11-22 12:00:00	24.40	0.90	111.90
2019-11-23 12:00:00	23.40	0.90	112.10
2019-11-24 12:00:00	23.30	0.90	111.90
2019-11-25 12:00:00	23.40	0.90	111.70
2019-11-26 12:00:00	23.40	0.90	111.60
2019-11-27 12:00:00	23.40	0.90	111.60
2019-11-28 12:00:00	23.60	1.00	111.50
2019-11-29 12:00:00	23.50	0.90	111.90
2019-11-30 12:00:00	23.30	0.90	111.80
2019-12-01 12:00:00	23.30	0.90	111.50
Sums	692.90		
Averages	23.10	0.90	112.44

Single Well Report For: Boughner - Boughner/Gillis_674S Fuel - From: 2019-12-02 - To: 2020-01-01

Date	Gas	Diff	Line
2019-12-02 12:00:00	23.30	0.90	111.20
2019-12-03 12:00:00	23.00	0.90	111.50
2019-12-04 12:00:00	22.80	0.90	111.10
2019-12-05 12:00:00	22.90	0.90	111.00
2019-12-06 12:00:00	22.90	0.90	110.70
2019-12-07 12:00:00	21.30	1.10	95.80
2019-12-08 12:00:00	14.00	0.50	125.90
2019-12-09 12:00:00	20.40	0.80	118.60
2019-12-10 12:00:00	17.50	0.70	121.70
2019-12-11 12:00:00	21.00	0.80	116.30
2019-12-12 12:00:00	20.70	0.70	115.40
2019-12-13 12:00:00	21.00	0.70	115.00
2019-12-14 12:00:00	21.70	0.80	114.80
2019-12-15 12:00:00	21.70	0.80	114.50
2019-12-16 12:00:00	21.50	0.80	114.60
2019-12-17 12:00:00	21.40	0.80	114.50
2019-12-18 12:00:00	21.40	0.80	114.30
2019-12-19 12:00:00	20.40	0.70	114.40
2019-12-20 12:00:00	21.10	0.70	114.50
2019-12-21 12:00:00	21.50	0.80	114.40
2019-12-22 12:00:00	21.50	0.80	114.20
2019-12-23 12:00:00	23.00	1.00	115.70
2019-12-24 12:00:00	24.60	1.00	114.70
2019-12-25 12:00:00	24.50	1.00	114.60
2019-12-26 12:00:00	24.50	1.00	114.40
2019-12-27 12:00:00	24.50	1.00	114.30
2019-12-28 12:00:00	24.50	1.00	114.40
2019-12-29 12:00:00	24.40	1.00	114.10
2019-12-30 12:00:00	24.50	1.00	113.90
2019-12-31 12:00:00	24.30	1.00	113.60
2020-01-01 12:00:00	24.40	1.00	113.80
Sums	686.20		
Averages	22.14	0.86	114.13

Single Well Report For: Boughner - Boughner/Gillis_674S Fuel - From: 2020-01-02 - To: 2020-02-01

Date	Gas	Diff	Line
2020-01-02 12:00:00	24.30	1.00	113.70
2020-01-03 12:00:00	24.50	1.00	113.50
2020-01-04 12:00:00	24.50	1.00	113.70
2020-01-05 12:00:00	24.50	1.00	113.80
2020-01-06 12:00:00	24.60	1.00	113.60
2020-01-07 12:00:00	24.50	1.00	113.70
2020-01-08 12:00:00	22.20	0.90	116.00
2020-01-09 12:00:00	23.40	0.90	115.10
2020-01-10 12:00:00	23.40	0.90	114.80
2020-01-11 12:00:00	23.70	1.00	112.90
2020-01-12 12:00:00	23.10	0.90	114.70
2020-01-13 12:00:00	23.00	0.90	114.50
2020-01-14 12:00:00	24.00	1.00	114.30
2020-01-15 12:00:00	23.70	0.90	114.60
2020-01-16 12:00:00	23.60	0.90	114.40
2020-01-17 12:00:00	23.50	0.90	114.40
2020-01-18 12:00:00	23.10	0.90	115.00
2020-01-19 12:00:00	23.30	0.90	114.80
2020-01-20 12:00:00	22.80	0.90	114.90
2020-01-21 12:00:00	22.90	0.90	114.80
2020-01-22 12:00:00	22.70	0.90	114.70
2020-01-23 12:00:00	19.10	0.70	113.80
2020-01-24 12:00:00	17.00	0.60	114.30
2020-01-25 12:00:00	18.70	0.60	114.10
2020-01-26 12:00:00	19.10	0.60	113.80
2020-01-27 12:00:00	19.20	0.60	113.70
2020-01-28 12:00:00	19.40	0.60	113.60
2020-01-29 12:00:00	19.60	0.60	113.60
2020-01-30 12:00:00	19.50	0.60	113.50
2020-01-31 12:00:00	19.50	0.60	113.40
2020-02-01 12:00:00	19.30	0.60	113.20
Sums	685.70		
Averages	22.12	0.83	114.16

Single Well Report For: Boughner - Boughner/Gillis_674S Fuel - From: 2020-02-02 - To: 2020-03-01

Date	Gas	Diff	Line
2020-02-02 12:00:00	19.10	0.60	113.00
2020-02-03 12:00:00	19.10	0.60	113.10
2020-02-04 12:00:00	19.10	0.60	113.20
2020-02-05 12:00:00	19.10	0.60	113.40
2020-02-06 12:00:00	18.30	0.60	113.20
2020-02-07 12:00:00	18.80	0.60	113.00
2020-02-08 12:00:00	18.70	0.60	113.00
2020-02-09 12:00:00	16.80	0.60	113.10
2020-02-10 12:00:00	19.30	0.60	113.10
2020-02-11 12:00:00	19.20	0.60	113.10
2020-02-12 12:00:00	19.40	0.60	113.00
2020-02-13 12:00:00	19.40	0.60	112.90
2020-02-14 12:00:00	5.40	0.40	113.00
2020-02-15 12:00:00	6.00	0.50	113.20
2020-02-16 12:00:00	10.80	0.50	113.00
2020-02-17 12:00:00	10.40	0.50	113.10
2020-02-18 12:00:00	9.90	0.50	113.10
2020-02-19 12:00:00	12.80	0.50	112.90
2020-02-20 12:00:00	10.40	0.50	115.90
2020-02-21 12:00:00	8.30	0.50	115.60
2020-02-22 12:00:00	13.60	0.50	115.20
2020-02-23 12:00:00	15.40	0.50	114.90
2020-02-24 12:00:00	18.20	0.60	114.60
2020-02-25 12:00:00	18.80	0.60	114.60
2020-02-26 12:00:00	18.70	0.60	114.40
2020-02-27 12:00:00	17.80	0.60	114.30
2020-02-28 12:00:00	16.40	0.60	114.00
2020-02-29 12:00:00	17.70	0.60	113.90
2020-03-01 12:00:00	17.40	0.60	114.00
Sums	454.30		
Averages	15.67	0.56	113.68

Single Well Report For: Boughner - Boughner/Gillis_674S Fuel - From: 2020-03-02 - To: 2020-04-01

Date	Gas	Diff	Line
2020-03-02 12:00:00	18.10	0.60	113.80
2020-03-03 12:00:00	18.00	0.60	113.60
2020-03-04 12:00:00	18.30	0.60	113.50
2020-03-05 12:00:00	18.20	0.60	113.70
2020-03-06 12:00:00	18.50	0.60	113.50
2020-03-07 12:00:00	17.30	0.60	113.70
2020-03-08 12:00:00	17.50	0.60	113.60
2020-03-09 12:00:00	19.30	0.60	113.30
2020-03-10 12:00:00	19.30	0.60	113.20
2020-03-11 12:00:00	18.80	0.60	113.40
2020-03-12 12:00:00	19.00	0.60	113.10
2020-03-13 12:00:00	19.10	0.60	112.80
2020-03-14 12:00:00	19.00	0.60	113.00
2020-03-15 12:00:00	18.60	0.60	113.30
2020-03-16 12:00:00	18.30	0.60	113.20
2020-03-17 12:00:00	19.10	0.60	114.30
2020-03-18 12:00:00	12.90	0.50	117.20
2020-03-19 12:00:00	15.80	0.60	114.90
2020-03-20 12:00:00	16.60	0.60	114.60
2020-03-21 12:00:00	13.70	0.50	114.60
2020-03-22 12:00:00	10.90	0.50	114.70
2020-03-23 12:00:00	13.20	0.50	114.50
2020-03-24 12:00:00	14.90	0.50	114.30
2020-03-25 12:00:00	14.70	0.50	114.10
2020-03-26 12:00:00	16.30	0.60	113.80
2020-03-27 12:00:00	16.20	0.60	113.70
2020-03-28 12:00:00	15.50	0.60	113.90
2020-03-29 12:00:00	15.10	0.50	113.70
2020-03-30 12:00:00	16.60	0.60	113.50
2020-03-31 12:00:00	16.50	0.60	113.60
2020-04-01 12:00:00	16.30	0.60	113.60
Sums	521.60		
Averages	16.83	0.58	113.86

Single Well Report For: Boughner - Boughner/Gillis_674S Fuel - From: 2020-04-02 - To: 2020-05-01

Date	Gas	Diff	Line
2020-04-02 12:00:00	16.30	0.60	112.90
2020-04-03 12:00:00	16.00	0.60	113.00
2020-04-04 12:00:00	16.80	0.60	113.50
2020-04-05 12:00:00	16.20	0.60	113.40
2020-04-06 12:00:00	16.40	0.60	113.40
2020-04-07 12:00:00	16.90	0.60	113.20
2020-04-08 12:00:00	17.20	0.60	112.90
2020-04-09 12:00:00	16.80	0.60	112.90
2020-04-10 12:00:00	14.60	0.50	112.80
2020-04-11 12:00:00	15.90	0.60	112.80
2020-04-12 12:00:00	16.10	0.60	112.60
2020-04-13 12:00:00	17.20	0.60	112.40
2020-04-14 12:00:00	16.90	0.60	114.20
2020-04-15 12:00:00	19.30	0.70	112.10
2020-04-16 12:00:00	19.60	0.70	111.90
2020-04-17 12:00:00	17.50	0.60	113.60
2020-04-18 12:00:00	17.20	0.60	114.30
2020-04-19 12:00:00	17.90	0.60	114.00
2020-04-20 12:00:00	17.10	0.60	113.90
2020-04-21 12:00:00	17.90	0.60	113.50
2020-04-22 12:00:00	17.20	0.60	113.60
2020-04-23 12:00:00	17.50	0.60	113.50
2020-04-24 12:00:00	18.00	0.60	113.30
2020-04-25 12:00:00	18.30	0.60	113.30
2020-04-26 12:00:00	18.50	0.60	113.20
2020-04-27 12:00:00	17.90	0.60	113.20
2020-04-28 12:00:00	17.60	0.60	112.80
2020-04-29 12:00:00	18.40	0.60	113.00
2020-04-30 12:00:00	18.30	0.60	112.80
2020-05-01 12:00:00	17.80	0.60	112.80
Sums	519.30		
Averages	17.31	0.60	113.16

Single Well Report For: Boughner - Boughner/Gillis_674S Fuel - From: 2020-05-02 - To: 2020-06-01

Date	Gas	Diff	Line
2020-05-02 12:00:00	18.50	0.60	112.90
2020-05-03 12:00:00	18.60	0.60	112.70
2020-05-04 12:00:00	18.10	0.60	112.60
2020-05-05 12:00:00	16.50	0.50	113.90
2020-05-06 12:00:00	18.70	0.60	114.20
2020-05-07 12:00:00	18.80	0.60	113.90
2020-05-08 12:00:00	18.50	0.60	113.80
2020-05-09 12:00:00	18.30	0.60	113.80
2020-05-10 12:00:00	18.10	0.60	113.70
2020-05-11 12:00:00	18.00	0.60	113.60
2020-05-12 12:00:00	18.80	0.60	112.90
2020-05-13 12:00:00	19.30	0.60	112.60
2020-05-14 12:00:00	19.60	0.70	112.50
2020-05-15 12:00:00	19.70	0.70	112.20
2020-05-16 12:00:00	19.60	0.70	112.00
2020-05-17 12:00:00	19.40	0.60	112.10
2020-05-18 12:00:00	19.40	0.60	112.00
2020-05-19 12:00:00	19.80	0.70	111.90
2020-05-20 12:00:00	20.00	0.70	112.00
2020-05-21 12:00:00	20.90	0.70	111.70
2020-05-22 12:00:00	20.70	0.70	123.50
2020-05-23 12:00:00	21.30	0.70	129.00
2020-05-24 12:00:00	21.50	0.70	128.70
2020-05-25 12:00:00	21.20	0.70	128.50
2020-05-26 12:00:00	21.50	0.70	128.30
2020-05-27 12:00:00	21.50	0.70	128.00
2020-05-28 12:00:00	21.50	0.70	127.70
2020-05-29 12:00:00	21.30	0.70	127.50
2020-05-30 12:00:00	21.00	0.70	127.40
2020-05-31 12:00:00	17.40	0.60	128.10
2020-06-01 12:00:00	27.30	1.20	128.80
Sums	614.80		
Averages	19.83	0.66	118.15

Single Well Report For: Boughner - Boughner/Gillis_674S Fuel - From: 2020-06-02 - To: 2020-07-01

Date	Gas	Diff	Line
2020-06-02 12:00:00	22.40	1.50	124.10
2020-06-03 12:00:00	20.10	1.50	128.80
2020-06-04 12:00:00	20.00	1.50	128.60
2020-06-05 12:00:00	15.40	1.20	119.80
2020-06-06 12:00:00	20.10	1.50	129.60
2020-06-07 12:00:00	10.50	0.80	120.20
2020-06-08 12:00:00	14.00	0.90	115.20
2020-06-09 12:00:00	18.10	1.40	134.10
2020-06-10 12:00:00	20.60	1.60	129.30
2020-06-11 12:00:00	20.50	1.50	128.90
2020-06-12 12:00:00	20.10	1.50	129.00
2020-06-13 12:00:00	19.80	1.40	128.90
2020-06-14 12:00:00	19.80	1.50	128.70
2020-06-15 12:00:00	19.80	1.40	128.60
2020-06-16 12:00:00	20.00	1.50	128.60
2020-06-17 12:00:00	20.20	1.50	128.40
2020-06-18 12:00:00	20.20	1.50	128.20
2020-06-19 12:00:00	20.30	1.50	128.00
2020-06-20 12:00:00	20.30	1.50	127.90
2020-06-21 12:00:00	20.30	1.50	127.60
2020-06-22 12:00:00	20.30	1.50	127.50
2020-06-23 12:00:00	20.20	1.50	127.30
2020-06-24 12:00:00	20.00	1.50	127.10
2020-06-25 12:00:00	19.90	1.50	127.20
2020-06-26 12:00:00	20.00	1.50	127.10
2020-06-27 12:00:00	20.20	1.50	126.90
2020-06-28 12:00:00	20.20	1.50	126.70
2020-06-29 12:00:00	20.10	1.50	126.60
2020-06-30 12:00:00	20.20	1.50	126.50
2020-07-01 12:00:00	20.30	1.50	126.50
Sums	583.90		
Averages	19.46	1.44	127.06

Single Well Report For: Boughner - Boughner/Gillis_674S Fuel - From: 2020-07-02 - To: 2020-08-01

Date	Gas	Diff	Line
2020-07-02 12:00:00	20.30	1.60	126.30
2020-07-03 12:00:00	20.40	1.60	126.20
2020-07-04 12:00:00	20.30	1.60	126.10
2020-07-05 12:00:00	20.00	1.50	125.90
2020-07-06 12:00:00	20.00	1.50	125.60
2020-07-07 12:00:00	20.00	1.50	125.70
2020-07-08 12:00:00	20.50	1.60	125.70
2020-07-09 12:00:00	20.30	1.60	125.30
2020-07-10 12:00:00	20.40	1.60	124.90
2020-07-11 12:00:00	20.40	1.60	124.90
2020-07-12 12:00:00	20.20	1.50	124.90
2020-07-13 12:00:00	20.10	1.50	125.00
2020-07-14 12:00:00	20.10	1.50	125.30
2020-07-15 12:00:00	20.30	1.60	125.40
2020-07-16 12:00:00	24.20	2.10	125.10
2020-07-17 12:00:00	25.20	2.40	125.30
2020-07-18 12:00:00	24.70	2.30	129.30
2020-07-19 12:00:00	25.20	2.40	128.70
2020-07-20 12:00:00	25.40	2.50	129.40
2020-07-21 12:00:00	23.80	2.20	130.80
2020-07-22 12:00:00	24.40	2.20	129.10
2020-07-23 12:00:00	24.50	2.20	128.70
2020-07-24 12:00:00	24.50	2.20	128.60
2020-07-25 12:00:00	24.60	2.20	128.30
2020-07-26 12:00:00	24.60	2.30	128.30
2020-07-27 12:00:00	24.90	2.30	128.10
2020-07-28 12:00:00	25.00	2.30	127.60
2020-07-29 12:00:00	25.00	2.30	127.40
2020-07-30 12:00:00	25.00	2.30	127.20
2020-07-31 12:00:00	24.90	2.30	127.10
2020-08-01 12:00:00	25.00	2.30	126.90
Sums	704.20		
Averages	22.72	1.95	126.87

Single Well Report For: Boughner - Boughner/Gillis_674S Fuel - From: 2020-08-02 - To: 2020-09-01

Date	Gas	Diff	Line
2020-08-02 12:00:00	25.00	2.40	126.70
2020-08-03 12:00:00	24.90	2.30	126.50
2020-08-05 12:00:00	24.70	2.30	126.00
2020-08-06 12:00:00	24.90	2.30	126.10
2020-08-07 12:00:00	24.80	2.30	126.00
2020-08-08 12:00:00	24.70	2.30	125.80
2020-08-09 12:00:00	24.90	2.40	125.90
2020-08-10 12:00:00	25.10	2.40	125.60
2020-08-11 12:00:00	25.00	2.40	125.50
2020-08-12 12:00:00	24.60	2.30	125.60
2020-08-13 12:00:00	24.80	2.30	125.50
2020-08-14 12:00:00	25.20	2.40	125.70
2020-08-15 12:00:00	25.00	2.40	125.40
2020-08-16 12:00:00	24.90	2.40	125.10
2020-08-17 12:00:00	25.10	2.40	125.10
2020-08-18 12:00:00	25.00	2.40	124.90
2020-08-19 12:00:00	25.00	2.40	124.90
2020-08-20 12:00:00	25.00	2.40	124.60
2020-08-21 12:00:00	25.30	2.50	124.10
2020-08-22 12:00:00	25.40	2.50	124.10
2020-08-23 12:00:00	25.40	2.50	124.10
2020-08-24 12:00:00	25.40	2.50	124.10
2020-08-25 12:00:00	25.40	2.50	123.80
2020-08-26 12:00:00	25.40	2.50	124.00
2020-08-27 12:00:00	25.90	2.60	123.90
2020-08-28 12:00:00	25.50	2.50	124.60
2020-08-29 12:00:00	25.20	2.40	124.50
2020-08-30 12:00:00	24.90	2.40	124.20
2020-08-31 12:00:00	24.70	2.30	128.30
2020-09-01 12:00:00	24.60	2.20	128.90
Sums	751.70		
Averages	25.06	2.40	125.32

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

Scheduled Services (Lube, Oil, Filters)

617-96	Service	619-96	Service	620-9	6 Service	622-96 S	ervice
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	Explaination 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

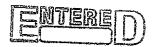
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Mai	ntenance F	erfor	med	}_		1	TAP	URA	AL C	BAS	CO	MP	RES	SIC	N S	YS	EMS	wo)			ارم بارم
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Cus	tomer			·			Unit	#				Loca	ation					Date				
		DE	LTA					į	J 978-	-S		ĺ		В	RILEY	31			_	9/30	/2019)
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CLE	ANED UP W	HILE	WAITI	NG FC	OR ST	AME	R. HAI	DSTE	AMER	CLE/	AN UP	COO	LER/F	AN/BE	LT GL	JARD.	HAD STEAM	/IER I	FILL E	NGINE	WIT	1
15 M	ER. START	UP AN	ID LO	AD UN	IIT. HC	OKE	D UP F	<u>IOSE</u>	OFF T	OP O	F DAY	TAN	C. HAE	STE	AMER	CLEA	N UP REST	OF U	NIT. A	DD W	ATER	EVERY
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Valv	e Adjust In./	Exh.	Avg.	Clear.	Befor	e Set	Type	Of Oi	1				Tim	ning			<u> </u>	Amb. Temp	Sep.	Press	Pre C	at	Post Cat
		1			<u> </u>			,															
Com	pression	LB	1	2	3	4	5	6	7	8	Suc I	Press	1st	Int F	>res	s	2nd I	nt Press	3rd li	it Pres	SS	Disc	Press
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<u> </u>	 -							<u> </u>			es/Brid				ir Fi					Chec	k pack	ing	
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WIP	E PIPES WE	REI	WAS	OING	TOV	MORK	FOLU	ND 2	INIL A	LUC	BELC	V CHE	CKE	DO	VE	RUNI	AND	LAID DOWN	OIL	SOAK	SON	SKID	AND
PUL	LED OFF O	L CO	DLER	AND C	LEAN	ED U	PEVE	RYTH	ING. II	VSTAL	LED	NEW (א ווכ	200	I FF	CINA	CASI	CET AND OR	RELS	DRA	INED	OIL CO	OOLER.
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WAT	ER. START	UP AN	VD LO	ad un	IIT. HO	OOKE	D UP I	HOSE	OFF 1	TOP O	F DAY	(TAN	K. HA	AD S	STE	AMER	CLE/	N UP REST	OF U	NIT A	יעו מם.	ATER	FVERY
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Custo	omer					•	Unit	#				Loca	tion						Date				
		DE	LTA					į	J 978-	-S					BRILE	Y 31					10/2/2	2019	
Equipr	nent		<u></u>		Hours 5236			of Wed	ek IESD/	YY	Time	In 7:30		Ti	me Out 10:		Tot	ai Billabi 3	le Reg	Total E	3illable	OT	NonBillable
Eng. N	lodel & Se	erial # AT 379	TA	72B0	1257	·	•		presso EROI S				VFEP	G	3 S#561	0X49	Cyl	inder Siz	zes				
Water	Temp In		r Tem	p Out	RPM		;		Oil To		Fuel	Press	Aux \	Wa	ter in	Aux	Wate	r Out	Vac.	Left	1	Vac.	Right
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		PARTS	LIST	
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1 OR-0803	water pump	jab6	Rolocidise	n/s
1 5L-2660	bearing	jab 1	Black adhesive	n/s
1 8L-5197	gasket	}6	cans of break clean	
1 4L-7885	gasket	jab1	Black silicone	n/s
1-4L-7885	gasker			
1 4L-8121	gasket	jab		
1 4L-5832	gasket	jab		
1 4L-3437	gasket	ab		
1 4L-8606	gasket-	jab		
1 5H-6012	seal	jab		
2 6L-1650	s oring	TOB TE		

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HRS. 8.5 jab Service Unit Oil Sample Eng./Frame Test shutdowns X Oil & A/F Levels -25 Change Oil & Fillers Regap/Replace Spark plugs Grease Bearings Adjust Valves/Bridges Air Filler Check Pool Compression Carb Linkage Check Baltery Level Check Compression Carb Linkage Check Baltery Level Check Fuel Press Check O2 Converter Maintenance Check Fuel Press Check CO Converter Maintenance Check Penel Writing Check NOX Coalescer Differential Replace Pro Flo Balt Algument MAINTENANCE PERFORMED call out by Pat for water pump leaking. Arrived at unit and unit was down, drained coolant. Removed and replaced water pump. Filled unit with new coolant, for throttle linkage boilt missing. Found both and nut and put back on, started unit and unit would barely run, checked fuel, checked firming, checked spark on all spa plugs and left bank plugs weren't firing, shut unit down and replaced left bank spark plugs. started unit. checked for leaks. let unit warm up and loaded, all pressure and temps normal. PARTS LIST OTY PART#/DESCRIPTION INV. LOC OTY PART#/DESCRIPTION INV. LOC 1 OR-0803 water pump jab 3 5L-9284 oring ATL jab 1 SL-9297 gasket jab 3 6L-1651 oring ATL jab 1 SL-9297 gasket jab 1 box of rags sparket jab 1 box of rags plugs sparket jab 1 box of rags plugs sparket jab 1 box of rags plugs sparket jab 1 box of rags plugs sparket jab 1 box of rags plugs sparket jab 1 box of rags plugs sparket jab 1 box of rags plugs plug customer supplied) custom 1 4L-8302 gasket jab 1 box of rags plugs plug customer supplied) custom 1 4L-8302 gasket jab 1 box of rags plugs plug customer supplied) custom 1 4L-8302 gasket jab 1 box of rags plugs plug customer supplied) custom 1 4L-8302 gasket jab 1 box of rags plugs plugs plug customer supplied) 2 5H-6012 seal jab 4 roloc disc plus plugs plu	Read	ıngs	KB	1	2	3	4	5	٥	'	٥		iub iub	2110	emp !	ara i	emp I		JOII PI			OII II	
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Maintenance Performed from/brar seal FIELD MAINTENANCE REPORT 47677 Customer Delta	35	,	;		()																	jjq
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Check Compression Carb Linkage Check Salt Filter Diff Check Hold Downs Compressor Valves Check Battery Level Check Hold Downs Compressor Valves Check Battery Level Check Fuel Press Check CO Converter Maintenance Check Relits/Bearings Check CO Converter Maintenance Check Relits/Bearings Check NOX Coalescer Differential Replace Pro Fio Batt Alignment Replace Pro Fio 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. Unbock all lines connecting to compressor. Unbock to compressor 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 quard. Removed betts and pulleys. Removed damper. Removed adapter and old seal. Installed new front seal. Reinstalled damper. Reinstalled pulley and betts. Reinstalled flan quard. 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 OTY PART#/DESCRIPTION INV. LOC. GTY PART#/DESCRIPTION INV. LOC. 1 4W-2806 front seal Reinstalled River	6.5 CW	_							Chan	ge Oil	& Filte	rs				lace S	park plugs		_			
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tan 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	on pipes. Hooke	a up a	ווקוק וונ	ng ani	d lines	s. Reti	illed w	ith co	mpres	SSOF O	il. Ren	noved	fan at	ıard. I	Remo	ved b	elts and nul	levs F	Remov	ed		
Part List	fan guard Insta	ea aa	apter :	and o	ld sea	i. inst	alled r	ew fr	ont se	al. Re	<u>einstal</u>	led da	mper.	Reins	talled	pulle	y and belts.	Reins	stalled			
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	than put back or	line.	ICAA CI	DINDIG	28801	ineis.	. rnea	umit	Dack L	<u>ıp. Un</u>	ескес	i unit c	ver go	000. E	very	ning lo	oked good	<u>Unit</u>	was			
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Customer Signature

Kyle Purvis

Mechanic

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