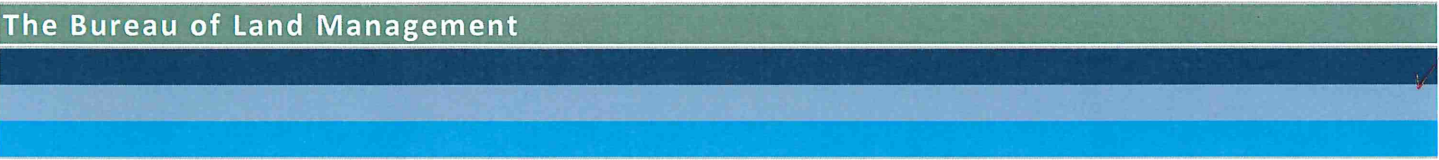


Shawna Martinez

**From:** Vanessa Fields  
**Sent:** Monday, July 19, 2021 8:13 AM  
**To:** Shawna Martinez  
**Subject:** FW: Well Name: SOUTH BLANCO FEDERAL 22, Well Number: 5, Notification of Sundry Accepted

**From:** AFMSS <blm-afmss-notifications@blm.gov>  
**Sent:** Monday, July 19, 2021 5:10 AM  
**To:** Vanessa Fields <vanessa@walsheng.net>  
**Subject:** Well Name: SOUTH BLANCO FEDERAL 22, Well Number: 5, Notification of Sundry Accepted



Notice of Notice Of Intent Approval

- Operator Name: **EPIC ENERGY LLC**
- Well Name: **SOUTH BLANCO FEDERAL 22**
- Well Number: **5**
- US Well Number: **300453426000S1**
- Sundry ID: **2508195**

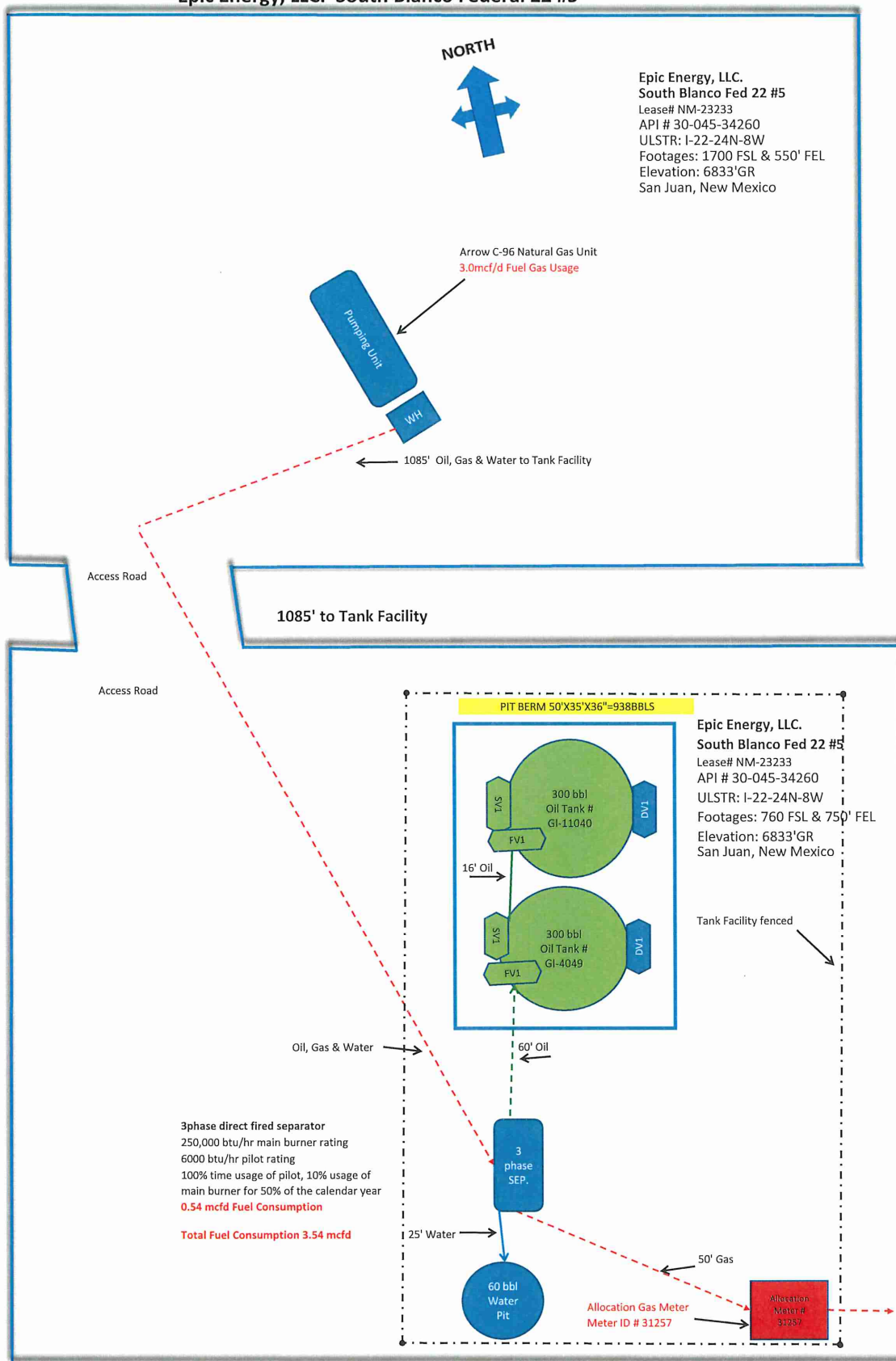
The BLM received your Notice Of Intent, Other on 07/16/2021. This is to notify you that we are Accepting your Notice Of Intent Other. Please login to your account in AFMSS II to see the final documents.

If this Notice Of Intent prompted the BLM to create another work task, it will generate in your worklist.

You may contact the field office if you have any questions.

This notification is automatically generated. Please do not reply to this message as this account is not monitored.

# Epic Energy, LLC. South Blanco Federal 22 #5







**Fuel gas calculations methodology:**

Fuel gas is calculated by using the BTU rating of the gas (wet rating) that has been determined via gas analysis, the elevation of the well (due to derating of HP), separator burner rating, natural gas engines located on location with the manufacturer HP rating at 80% load which is the maximum recommended continuous run rating HP from the manufacturers.

Main Burner gas usage calculation -  $((\text{burner BTU-hr/Actual BTU})^{*24}/1000) * (\text{Time \% factor}/100) = \text{Gas used by main burner}$

Pilot Burner gas usage calculation -  $((\text{burner BTU-hr/Actual BTU})^{*24}/1000) * (\text{Time \% factor}/100) = \text{Gas used by main burner}$

Pump unit engine - fuel usage per manufacturer specs if available, if not, calculated per HP calculations comparable to compressor calcs

Compressor fuel usage -

calculated by derating engine for the elevation -

$(\text{HP Rating @ 80\% Load}) * (1 - ((\text{Elevation} - 2000) / 1000)) * (\text{Elevation derating factor for naturally aspirated or turbo charged engines})$

then using the following formula -  $((\text{Engine fuel usage from manufacturer/BTU from gas analysis}) * \text{Elevation derated HP})^{*24} / 1000$

Fuel usage for all equipment is then summed for the site.

## **Attachment to the Site Security Diagram -**

**Epic Energy, LLC.**

**South Blanco Fed 22 #5**

Lease# NM-23233

API # 30-045-34260

ULSTR: I-22-24N-8W

Footages: 760 FSL & 750' FEL

Elevation: 6833'GR

San Juan, New Mexico

## **Attachment to the Site Facility Diagram - South Blanco Federal 22 #5**

### **Production phase:**

All drain valves DV1, DV2 sealed closed.

All sales valves SV1 or SV2 sealed closed.

Fill Valve FV1 or FV2 open

### **Sales phase:**

The tank from which the sales are being made will be isolated by sealing closed the drain valve, fill valve (FV1) or (FV2) during the sale.

### **Drain phase:**

The tank from which the drain is being made will be isolated by sealing closed the sales valve and fill valve during the water drain.

Fuelgas Usage Calculations

Lease Name: Epic Energy, LLC.

South Blanco Fed 22 #5

Lease# NM-23233

API # 30-045-34260

ULSTR: I-22-24N-8W

Footages: 1700 FSL & 550' FEL

Elevation: 6833'GR

San Juan, New Mexico

Fuel gas Calculations:

HV from Gas Analysis

BTU / scf

1379

% Used

Burner Pilot

10

100

Pump Unit Engine Table

| Engine Type            | A | HP   | MCF/D USAGE | B            |
|------------------------|---|------|-------------|--------------|
| C-46 ARROW             |   | 8.8  | 2           | (from Arrow) |
| C-46 ARROW             |   | 12.3 | 2.5         | (from Arrow) |
| C-96 ARROW             |   | 18.8 | 3.0         | (from Arrow) |
| Electric               |   | NA   | 0           |              |
| KUBOTA 1600            |   | 16   | 2           |              |
| KUBOTA 3200            |   | 32   | 3.81        |              |
| KUBOTA (DG-972-E2)     |   | 25   | 2.5         |              |
| KOHLER 27 hp           |   | 25   | 3           |              |
| KOHLER 18 hp           |   | 16   | 2           |              |
| AJAX DP60 (9 1/2 x 12) |   | 60   | 7.1         |              |
| AJAX E42 (8 1/2 x 10)  |   | 42   | 5           |              |
| AJAX EA30 (7 1/2 x 8)  |   | 30   | 3.6         |              |
| AJAX EA15              |   | 15   | 2           |              |
| AJAX EA22 (6 1/2 x 8)  |   | 22   | 2.6         |              |
| None                   |   | NA   | 0           |              |

Horsepower Engine Table

| Engine Type                      | HP (100% Load) | HP (80% Load) | Fuel Consumption | E           |
|----------------------------------|----------------|---------------|------------------|-------------|
| GS-10 - 80hp                     | 80             | 64            | 8319             | (Estimated) |
| Twin Stars BOSS GM3.0L           | 32             | 26            | 8500             | (Estimated) |
| Gemini G26                       | 26             | 21            | 8000             |             |
| Twin Stars 5.9 Cummins           | 84             | 39            | 8725             |             |
| Twin Stars 5.9 Cummins           | 84             | 67            | 8066             |             |
| Twin Stars 5.9E Cummins          | 118            | 94            | 8422             |             |
| GS12 (8.3 nat.asp cummins)       | 118            | 94            | 8553             |             |
| GS17 (8.3 Turbo Cummins)         | 175            | 140           | 7560             | (Estimated) |
| GS24 (855 Turbo)                 | 281            | 225           | 8617             | (Estimated) |
| 496 and 454 Chevy - 110          | 110            | 88            | 8500             | (Estimated) |
| 460 Ford                         | 85             | 68            | 8000             |             |
| 300 6 cyl Ford                   | 65             | 52            | 8650             |             |
| 8.3 Cummins (natural aspirated)  | 118            | 94            | 8553             |             |
| 8.3E Cummins (natural aspirated) | 118            | 94            | 8933             |             |
| 8.3 Cummins (turbo charged)      | 175            | 140           | 7560             |             |
| 855 Cummins (turbo)              | 281            | 225           | 8617             |             |
| KTA19GC                          | 420            | 336           | 7961             |             |
| KTA19GC-SLB                      | 420            | 336           | 8172             |             |
| FLUID COMP GM-350                | 80             | 64            | 8319             |             |
| 3304 CATERPILLAR                 | 95             | 76            | 7778             |             |
| VRG-330 ARROW/WAKESHAW           | 68             | 54            | 8038             | (Estimated) |
| KAWASAKI(Poquillo) - 750         | 15             | 12            | 8350             | (Estimated) |
| KUBOTA (DG-972-E2)               | 23.6           | 19            | 8000             |             |
| VRG-220 ARROW/WAKESHAW           | 52             | 42            | 8250             |             |
| KOHLER - 18hp                    | 18             | 14            | 8500             | (Estimated) |
| KOHLER - 27hp                    | 27             | 22            | 8500             | (Estimated) |
| Electric                         |                |               | 0                |             |
| None                             |                |               | 0                |             |

REFERENCES:

|                                                                                                                                                                        |       |                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------|
| De-Rating for Elevation Change                                                                                                                                         | 2.44% | Turbo Charged Engines |
| (every 1000' above 2000' elevation)                                                                                                                                    | 3.63% | Naturally Aspirated   |
| 6000 BTU is avg value to use for Pilot Calculations for Vessels                                                                                                        |       |                       |
| How to Use: All Blue Text Cells require some kind of manual data entry, either by typing the value in, or selecting from a drop down menu (Engines Calculation Table). |       |                       |
| The Red Text Cells are calculated values. The total fuel gas to be reported for the lease                                                                              |       |                       |

| Vessels        | Burner BTU Rating | mscf/day | Pilot BTU Rating | mscf/day | Total |
|----------------|-------------------|----------|------------------|----------|-------|
| Separator      | 2500000           | 0.4      | 6000             | 0.10     | 0.54  |
| Tank #1        |                   | 0.0      |                  | 0.00     | 0.00  |
| Tank #2        |                   | 0.0      |                  | 0.00     | 0.00  |
| Tank #3        |                   | 0.0      |                  | 0.00     | 0.00  |
| Tank #4        |                   | 0.0      |                  | 0.00     | 0.00  |
| Tank #5        |                   | 0.0      |                  | 0.00     | 0.00  |
| Total MSCF/DAY |                   | 0.44     |                  | 0.10     | 0.54  |

Engines

|                           |            |
|---------------------------|------------|
| Compressor Engine         | None       |
| Pump Unit Engine          | C-96 ARROW |
| HP Rating @ 80% Load (D)  | 18.88      |
| Fuel Consumption (E)      | 0          |
| Pump Jack mcf/day (B)     | 3.0        |
| De-Rating % for Elevation | 0.0366     |
| De-Rated HP @ 80% Load    | 15.5       |

Total MSCF/DAY 3.00

Other Use

|                          |   |
|--------------------------|---|
| House Tap                | 0 |
| Chemical Injection Pumps | 0 |
| Auxiliary Equipment      | 0 |
| combuster                |   |

|                          |      |          |
|--------------------------|------|----------|
| Total Fuel Gas to Report | 3.54 | mscf/day |
|--------------------------|------|----------|

Fuel gas calculations methodology:

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Fuel usage to all equipment is then summed for the site.

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

QUESTIONS

Action 491046

QUESTIONS

|                                                                      |                                                   |
|----------------------------------------------------------------------|---------------------------------------------------|
| Operator:<br>EPIC ENERGY, L.L.C.<br>332 Road 3100<br>Aztec, NM 87410 | OGRID:<br>372834                                  |
|                                                                      | Action Number:<br>491046                          |
|                                                                      | Action Type:<br>[UF-FAC] TB Registration (TB-REG) |

QUESTIONS

|                                                |                              |
|------------------------------------------------|------------------------------|
| Facility Details                               |                              |
| Please answer all the questions in this group. |                              |
| Name of the facility                           | South Blanco Federal 22 5 TB |
| Date the facility was opened                   | 09/02/2007                   |
| Depth to ground water, if known                | Not answered.                |

|                                                                |    |
|----------------------------------------------------------------|----|
| Verification                                                   |    |
| Does the operator have other facilities with a matching name   | No |
| Are there other facilites located within approximately 50 feet | No |

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ACKNOWLEDGMENTS

Action 491046

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|                                                                      |                                                   |
|----------------------------------------------------------------------|---------------------------------------------------|
| Operator:<br>EPIC ENERGY, L.L.C.<br>332 Road 3100<br>Aztec, NM 87410 | OGRID:<br>372834                                  |
|                                                                      | Action Number:<br>491046                          |
|                                                                      | Action Type:<br>[UF-FAC] TB Registration (TB-REG) |

ACKNOWLEDGMENTS

|                                     |                                                                                              |
|-------------------------------------|----------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | I certify that I am authorized to register a facility on behalf of the responsible operator. |
| <input checked="" type="checkbox"/> | I certify that I will notify OCD of any changes of ownership for this facility.              |
| <input checked="" type="checkbox"/> | I certify that I will notify OCD when this facility is closed.                               |