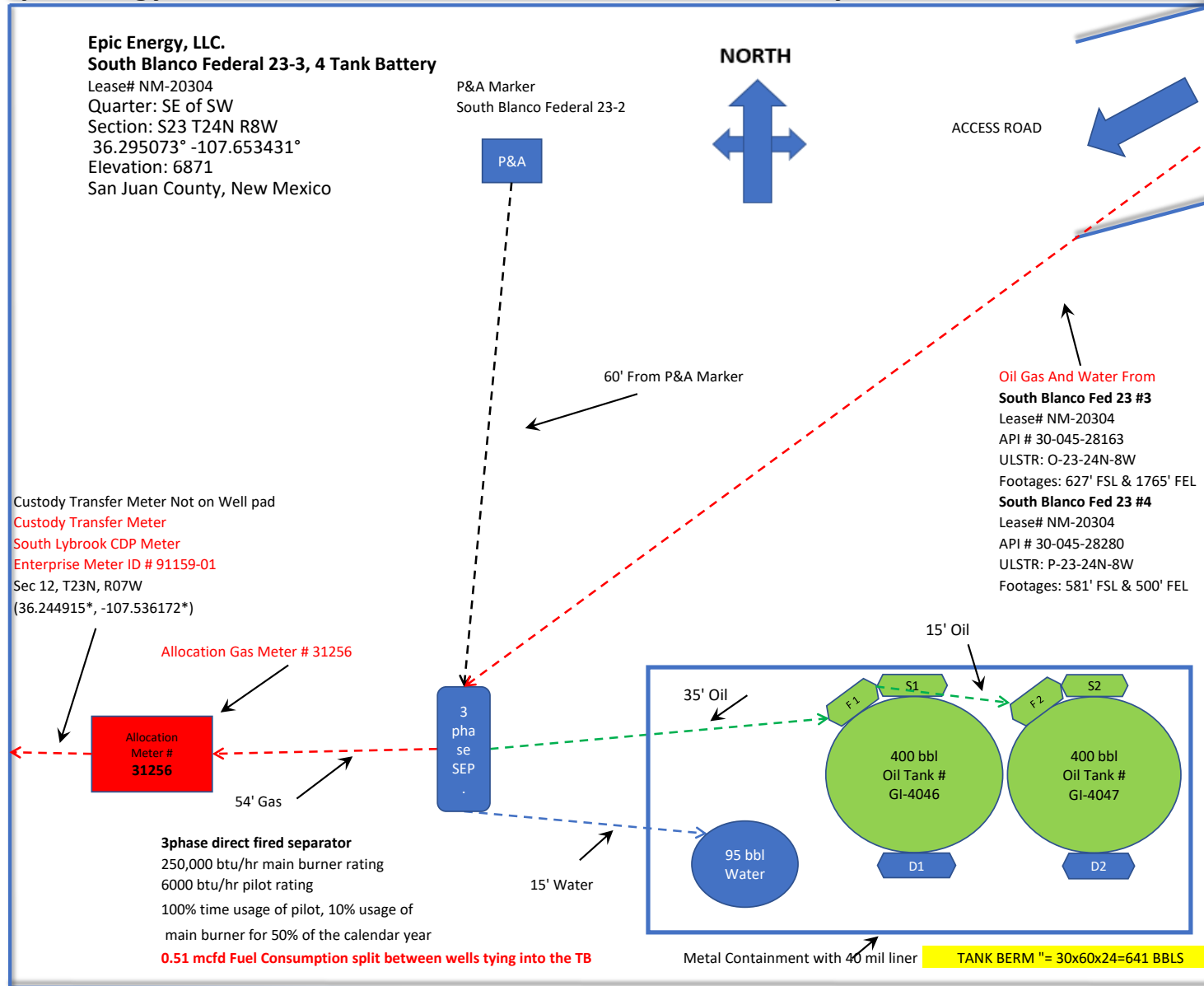


Epic Energy, LLC. South Blanco Federal 23-3, 4 Tank Battery SITE SECURITY DIAGRAM



Attachment to the Site Security Diagram - South Blanco Federal 23-3, 4 Tank Battery

Epic Energy, LLC.

South Blanco Federal 23-3, 4 Tank Battery

Lease# NM-20304

Quarter: SE of SW

Section: S23 T24N R8W

36.295073° -107.653431°

Elevation: 6871

San Juan County, New Mexico

Attachment to the Site Security Diagram - South Blanco Federal 23-3, 4 Tank Battery

Production phase:

All drain valves (D1), and (D2) sealed closed.

All sales valves (S1), and (S2) sealed closed.

Fill Valve (F1), or (F2) open

Sales phase:

The tank from which the sales are being made will be isolated by sealing closed the drain valve (DV1) or (DV2) and fill valve (FV1) or (FV2) and removing and recording the seal from (SV1) or (SV2) during the sale of the specified tank.

The sales valve will be sealed and recorded immediately following 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 Federal 23-3, 4 Tank Battery
Lease# NM-20304
Quarter: SE of SW
Section: S23 T24N R8W
Elevation: 6871
San Juan County, New Mexico

Pump Unit Engine Table	A	B
Engine Type	HP	MCF/D USAGE
C46 ARROW	8.8	2
C-66 ARROW	12.3	2.5
C-96 ARROW	18.8	3.0
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	D	E
Engine Type	HP (100% Load)	Fuel Consumption
GS-10 - 80hp	80	8319
Twin Stars BOSS GM3.0L	32	8500
Gemini G26	26	8000
Twin Stars 5.9 Cummins	49	8725
Twin Stars 5.9 Cummins	84	8056
Twin Stars 5.9E Cummins	84	8422
GS12 (8.3 nat asp cummins)	118	8553
GS17 (8.3 Turbo Cummins)	175	7560
GS24 (855 Turbo)	281	8617
496 and 454 Chevy - 110	110	8500
460 Ford	85	8000
300 6 cyl Ford	65	8650
8.3 Cummins (natural aspirated)	118	8553
8.3E Cummins (natural aspirated)	118	8933
8.3 Cummins (turbo charged)	175	7560
855 Cummins (turbo)	281	8617
KTA19GC	420	7961
KTA19GC-SLB	420	8172
FLUID COMP GM-350	80	8319
3304 CATERPILLAR	95	7778
VRG-330 ARROW/WAKESHAU	68	8038
KAWASAKI(Poquito) - 750	15	8350
KUBOTA (DG-972-E2)	23.6	8000
VRG-220 ARROW/WAKESHAU	52	8250
KOHLER - 18hp	18	8500
KOHLER - 27hp	27	8500
Electric		0
None		0

REFERENCES:
De-Rating for Elevation Change 2.44% Turbo Charged Engines
(every 1000' above 2000' elevation) 3.66% 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 Calculaiton Table).
The Red Text Cells are calculated values. The total fuel gas to be reported for the lease

Fuel gas Calculations:	BTU / scf	% Used
HV from Gas Analysis	1403	Burner 10
Elevation	6871	Pilot 100

All gas used split between the wells attached to the battery

Vessels	Burner BTU Rating	mscf/day	Pilot BTU Rating	mscf/day	Total
Separator	250000	0.4	6000	0.10	0.53
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		0.43		0.10	0.53

Engines	
Compressor Engine	None
Pump Unit Engine	None
HP Rating @ 80% Load (D)	
Fuel Consumption (E)	0
Pump Jack mcf/day (B)	0.0
De-Rating % for Elevation	0.0366
De-Rated HP @ 80% Load	0.0
Total MSCF/DAY	0.00

Other Use	mscf/day
House Tap	0
Chemical Injection Pumps	0
Auxiliary Equipment	0

combuster

Total Fuel Gas to Report	0.53	mscf/day
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All gas used split between the wells attached to the battery

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 - (((burner BTU-hr/Actual BTU)*24/1000)*(Time % factor/100) = Gas used by main burner
Pilot Burner gas usage calculation - (((burner BTU-hr/Actual BTU)*24/1000)*(Time % factor/100) = Gas used by main burner
Pump unit engine - fuel usage per manufacturer specs if available, if not, calculated per HP calculations comparabel to compressor calcs
Compressor fuel usage - calculated by derating engine for the elevation - (HP Rating @ 80% Load)*(1-((Elevation-2000)/1000)*(Elevation derating factor for naturally aspirated or turbo charged engines) then using the following formula - ((Engine fuel usage from manufacturer/BTU from gas analysis)*Elevation derated HP)*24/1000
Fuel usage for all equipment is then summed for the site.

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 - $\left(\frac{\text{burner BTU-hr/Actual BTU} \times 24}{1000}\right) \times \left(\frac{\text{Time \% factor}}{100}\right) = \text{Gas used by main burner}$

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

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 -

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

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

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 77428

QUESTIONS

Operator: EPIC ENERGY, L.L.C. 332 Road 3100 Aztec, NM 87410	OGRID: 372834
	Action Number: 77428
	Action Type: [UF-FAC] TB Registration (TB-REG)

QUESTIONS

Facility Details <i>Please answer all of the questions in this group.</i>	
Name of the facility	South Blanco Federal 23 #3, 4 TB
Date the facility was opened	Not answered.
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

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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.