

GRI GlyCalc Information

Meter Number: 2273
Meter Name: SJ Blanco C Inlet 3-25-21
Location: SJ Blanco Plant
Sample Date: 3/25/2021
File name SJ Blanco C Inlet 3-25-21_1.D

Flow Pressure: 128
Flow Temp: 65
H2O, Lb/MMCF: --
H2S, ppmmol: --
Type: Spot
Pulled by: Michael Fauteaux

Component	Mol%	Wt%	LV%
Carbon Dioxide	1.7251	3.7806	1.5863
Hydrogen Sulfide	0.0000	0.0000	0.0000
Nitrogen	0.1983	0.2766	0.1175
Oxygen	0.0000	0.0000	0.0000
Methane	84.4292	67.4490	77.1272
Ethane	7.5660	11.3292	10.9032
Propane	3.2654	7.1705	4.8477
Isobutane	0.6276	1.8165	1.1066
n-Butane	0.8756	2.5342	1.4874
Isopentane	0.3268	1.1740	0.6439
n-Pentane	0.2414	0.8671	0.4714
Cyclopentane	0.0169	0.0589	0.0269
n-Hexane	0.0810 % VOCs	0.3477	0.1795
Cyclohexane	0.0441 6.0815	0.1847	0.0808
Other Hexanes	0.1902	0.8116	0.4081
Heptanes	0.0967	0.4809	0.2359
Methylcyclohexane	0.0526	0.2573	0.1140
2,2,4 Trimethylpentane	0.0000	0.0000	0.0000
Benzene	0.0163	0.0635	0.0246
Toluene	0.0207	0.0948	0.0373
Ethylbenzene	0.0007	0.0038	0.0015
Xylenes	0.0063	0.0331	0.0130
C8+ Heavies	0.2192	1.2661	0.5870
Total	100.0000	100.0000	100.0000

tjlong	Dry Basis Mole %	MW	lb/lb-mol	lb/Mscf
CO ₂	1.73	44.01	0.76	2.00
H ₂ S	0.00	34.08		
N ₂	0.20	28.01	0.06	0.15
O ₂	0.00	16.00		
Methane	84.43	16.04	13.54	35.69
Ethane	7.57	30.07	2.28	6.00
Propane	3.27	44.10	1.44	3.79
i-butane	0.63	58.12	0.36	0.96
n-butane	0.88	58.12	0.51	1.34
i-pentane	0.33	72.15	0.24	0.62
n-pentane	0.24	72.15	0.17	0.46
Other C6+	0.74	86.117	0.64	1.69
Total:	100.0	Avg. MW = 20.00		
		VOC lb/MCF:		8.87

Density at STP calculated using the ideal gas law.
 $\text{lb voc/MCF} = ((\text{mol\%} * \text{MW})/100) * 1000/379.482$

Constants Used: GPA Standard 2145-16 (FPS)

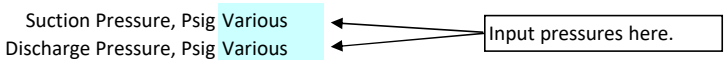
Blowdown Volumes/Maintenance Releases

Blanco C & D Plant

Assume 2:1 Semi-elliptical Heads; GPSA Formula Section 6, Storage

$$V = (\pi/12) \cdot D^3 + (\pi/4) \cdot D^2 \cdot L$$

Vessel volume with 2:1 ellipsoidal heads



Equipment Tag	Equipment Name	Diameter,	Wall	Length (ft)	Volume (ft³)	Operating		% Gas	Std
		O.D. (In)	Thickness, (In)			Pressure (psig)	Operating Temp (F)		Volume (Mscf)
ESD	Inlet Piping	24.000	0.375	361.000	1,064.340	174	60	100	13.411
ESD	Inlet Piping Blowdown Pipe	4.500	0.237	1.500	0.133	174	60	100	0.002
ESD	A-Inlet Scrubber Piping	16.000	0.375	144.000	182.654	174	60	100	2.301
ESD	A-Inlet Scrubber V23A	89.000	0.000	22.333	1,071.644	174	60	100	13.503
ESD	A-Inlet Scrubber V23B	89.000	0.000	22.333	1,071.644	174	60	100	13.503
ESD	A-Inlet Scrubber V23C	89.000	0.000	22.333	1,071.644	174	60	100	13.503
ESD	A-Inlet Scrubber Bypass	16.000	0.375	31.000	39.321	174	60	100	0.495
ESD	A-Inlet Scrubber Outlet Piping	24.000	0.375	204.000	601.455	174	60	100	7.578
ESD	B-Inlet Scrubber Piping	14.000	0.375	115.000	110.118	174	60	100	1.387
ESD	B-Inlet Scrubber V-9101	79.000	0.000	20.000	755.485	174	60	100	9.519
ESD	B-Inlet Scrubber V-9102	79.000	0.000	20.000	755.485	174	60	100	9.519
ESD	B-Inlet Scrubber V-9103	79.000	0.000	20.000	755.485	174	60	100	9.519
ESD	B-Inlet Scrubber Outlet Piping	24.000	0.375	269.000	793.096	174	60	100	9.993
ESD	B-Inlet Scrubber Outlet Piping	16.000	0.375	36.000	45.664	174	60	100	0.575
ESD	Suction Scrubber 1	48.000	0.000	16.420	223.095	174	60	100	2.811
ESD	Suction Scrubber 2	36.000	0.000	8.000	63.617	174	60	100	0.802
ESD	Plant Piping to EP from B-scrbbr	8.625	0.322	40.000	13.896	174	60	100	0.175
ESD	Piping to C-Plant	36.000	0.375	497.000	3,368.232	174	60	100	42.440
ESD	Piping to C-Plant	30.000	0.375	8.000	37.331	174	60	100	0.470
ESD	ESD Valve Bypass Piping	4.500	0.237	14.000	1.238	174	60	100	0.016
ESD	Suction ESD Valve Bypass Piping	4.500	0.237	12.000	1.061	174	60	100	0.013
C-1	Suction Piping	30.000	0.375	43.000	200.654	174	60	100	2.528
C-1	Discharge Piping	30.000	0.375	45.000	209.987	235	146	100	3.017
C-1	Discharge Piping	6.625	0.280	3.000	0.602	235	146	100	0.009
C-1	Recycle Piping	10.750	0.365	34.000	18.618	235	146	100	0.267
ESD	C-1 Disch./C-2 Suct. ESD Piping	30.000	0.375	19.000	88.661	235	146	100	1.274
ESD	C-1 Disch./C-2 Suct. ESD Piping	36.000	0.375	41.000	277.862	235	146	100	3.992
C-2	Suction Piping	30.000	0.375	91.000	424.640	235	146	100	6.100
C-2	Suction Piping	6.625	0.280	3.000	0.602	235	146	100	0.009
C-2	Discharge Piping	30.000	0.375	3.000	13.999	390	220	100	0.292
C-2	Discharge Piping	36.000	0.375	20.000	135.543	390	220	100	2.826
C-2	Recycle Piping	10.750	0.365	35.000	19.166	390	220	100	0.400
C-2	Bypass Piping	30.000	0.375	23.000	107.326	390	220	100	2.238
ESD	Discharge Piping to Coolers	30.000	0.375	36.000	167.989	390	220	100	3.502
ESD	Discharge Piping to Coolers	36.000	0.375	141.000	955.575	390	220	100	19.923
ESD	Gas Cooler Inlet Piping	30.000	0.375	77.000	359.310	390	220	100	7.491
ESD	Gas Coolers	X	X	X	620.000	390	157	100	14.246
ESD	Gas Cooler Outlet Piping	30.000	0.375	77.000	359.310	390	94	100	9.195
ESD	C-Plant Outlet Piping	36.000	0.375	78.000	528.616	390	94	100	13.528
ESD	King Scrubber V-9101	84.000	0.000	16.000	705.549	390	94	100	18.

Note 1: Purge calculations assume purging 3 times the piping & compressor volume with 7.440 lb-VOC's/MCF

Note 2: Starting Gas is 17,000 lb/hr for 10 minutes which is 65.47 MCF of sales quality gas with 0.040 lb-VOC's/MCF

Note 3: Yellow hi-lighted numbers are used on tracking spreadsheet for annual numbers.

*Assumptions: All piping wall thicknesses are assumed to be standard weight.
Shell and tube gas coolers after C-Plant are assumed to contain 50/50 mix of gas and water by volume
Assumes no pressure loss in piping and vessels for simplicity (due to variability of daily operating conditions)

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

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District IV

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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 32720

QUESTIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 32720
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS**Determination of Reporting Requirements**

Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.

Was or is this venting or flaring caused by an emergency or malfunction	Yes
Did or will this venting or flaring last eight hours or more cumulatively within any 24-hour period from a single event	No
Is this considered a submission for a notification of a major venting or flaring	Yes, minor venting or flaring of natural gas.
The operator shall file a form C-141 instead of a form C-129 for a release that includes liquid during venting or flaring that is or may be a major or minor release under 19.13.29.7 NMAC.	
Was there or will there be at least 50 MCF of natural gas vented or flared during this event	Yes
Did this venting or flaring result in the release of ANY liquids (not fully and/or completely flared) that reached (or has a chance of reaching) the ground, a surface, a watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water	No

Unregistered Facility Site

Please provide the facility details, if the venting or flaring occurred or is occurring at a facility that does not have an Facility ID (##) yet.

Facility or Site Name	Blanco Compressor D Turbine
Facility Type	Compressor Station - (CS)

Equipment Involved

Primary Equipment Involved	Gas Compressor Station
Additional details for Equipment Involved. Please specify	While conducting D plant piping and equipment FLIR inspection a crack on compressor balance line was discovered.

Representative Compositional Analysis of Vented or Flared Natural Gas

Please provide the mole percent for the percentage questions in this group.

Methane (CH4) percentage	67
Nitrogen (N2) percentage, if greater than one percent	0
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	4
Oxygen (O2) percentage, if greater than one percent	0
If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.	
Methane (CH4) percentage quality requirement	Not answered.
Nitrogen (N2) percentage quality requirement	Not answered.
Hydrogen Sulfide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (CO2) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

Date(s) and Time(s)

Date venting or flaring was discovered or commenced	06/17/2021
Time venting or flaring was discovered or commenced	01:00 PM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	06/17/2021
Time venting or flaring was terminated	01:01 PM
Total duration of venting or flaring in hours, if venting or flaring has terminated	0
Longest duration of cumulative hours within any 24-hour period during this event	0

Measured or Estimated Volume of Vented or Flared Natural Gas

Natural Gas Vented (Mcf) Details	Cause: Equipment Failure Other (Specify) Natural Gas Vented Spilled: 63 Mcf Recovered: 0 Mcf Lost: 63 Mcf]
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Not answered.
Is this a gas only submission (i.e. only Mcf values reported)	Yes, according to supplied volumes this appears to be a "gas only" report.

Venting or Flaring Resulting from Downstream Activity

Was or is this venting or flaring a result of downstream activity	No
Date notified of downstream activity requiring this venting or flaring	06/17/2021
Time notified of downstream activity requiring this venting or flaring	01:00 PM

Steps and Actions to Prevent Waste

For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control.	True
Please explain reason for why this event was beyond your operator's control	While conducting D plant piping and equipment FLIR inspection a crack on compressor balance line was discovered, unit was taken out of service for repairs.
Steps taken to limit the duration and magnitude of venting or flaring	The venting duration was less than one minute. No other steps could be implemented to limit the blow down.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	Repairs to the compressor balance line have been completed.

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CONDITIONS

Action 32720

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Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 32720
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
system	If the information provided in this report requires an amendment, submit a [C-129] Request to Amend Venting and/or Flaring Incident, utilizing your incident number from this event.	6/21/2021