

GRI GlyCalc Information

Meter Number:	--	Flow Pressure:	345
Meter Name:	SJ Blanco D-Plant Inlet 2-17-2023	Flow Temp:	70
Location:	SJ Blanco Plant	H2O, Lb/MMCF:	--
Sample Date:	2/17/2023	H2S, ppmol:	--
File name	SJ Blanco D-Plant Inlet 2-17-2023_1.D	Type:	Spot
		Pulled by:	Les McLaughlin

Component	Mol%	Wt%	LV%
Carbon Dioxide	1.6328	3.6030	1.5045
Hydrogen Sulfide	0.0000	0.0000	0.0000
Nitrogen	0.2248	0.3158	0.1335
Oxygen	0.0070	0.0112	0.0034
Methane	84.5013	67.9721	77.3493
Ethane	7.6267	11.4988	11.0130
Propane	3.3079	7.3138	4.9206
Isobutane	0.6359	1.8533	1.1236
n-Butane	0.8783	2.5597	1.4951
Isopentane	0.3255	1.1776	0.6428
n-Pentane	0.2412	0.8725	0.4721
Cyclopentane	0.0179	0.0631	0.0287
n-Hexane	0.0878	0.3793	0.1949
Cyclohexane	0.0504	0.2125	0.0925
Other Hexanes	0.2034	0.8735	0.4366
Heptanes	0.1077	0.5390	0.2630
Methylcyclohexane	0.0610	0.3001	0.1323
2,2,4 Trimethylpentane	0.0000	0.0000	0.0000
Benzene	0.0190	0.0746	0.0288
Toluene	0.0249	0.1149	0.0450
Ethylbenzene	0.0006	0.0030	0.0012
Xylenes	0.0047	0.0251	0.0098
C8+ Heavies	0.0412	0.2372	0.1095
Total	100.0000	100.0000	100.0000

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	Volume	Operating	Operating	Std		
				O.D.	Thickness,			Pressure			Temp (F)	% Gas
				(In)	(In)	(ft)	(ft³)	(psig)		(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	18.056	
ESD	C-Plant Outlet Piping			24.000	0.375	6.000	17.690	390	94	100	0.453	
ESD	C-Plant Outlet BD Piping			8.625	0.322	15.000	5.211	390	94	100	0.133	
ESD	C-Plant Outlet Piping to ESD Vlv			36.000	0.375	14.000	94.880	390	94	100	2.428	
ESD	C-Plant LP Piping to SJ Plant			24.000	0.375	1033.000	3,045.605	390	94	100	77.940	
ESD	Plant Piping to D-Plant			36.000	0.375	26.000	176.205	390	94	100	4.509	
ESD	Plant Piping to D-Plant			24.000	0.375	688.000	2,028.438	390	94	100	51.909	
ESD	Plant Piping to D-Plant			30.000	0.375	735.000	3,429.782	390	94	100	87.771	
ESD	Chaco X-Over Feed Pipe			10.750	0.365	40.000	21.904	390	94	100	0.561	
ESD	Chaco X-Over Feed BD Piping			2.375	0.154	26.000	0.606	390	94	100	0.016	
D Plant	Suction Piping			30.000	0.375	122.000	569.297	390	94	100	14.569	
D Plant	Discharge Piping			24.000	0.375	87.000	256.503	900	204	100	12.432	
D Plant	Discharge Piping			6.625	0.280	9.000	1.806	900	204	100	0.088	
D Plant	Discharge Piping			4.500	0.237	3.000	0.265	900	204	100	0.013	
D Plant	Recycle Piping			16.000	0.375	278.000	352.624	900	204	100	17.090	
D Plant	Recycle Scrubber			72.000	0.000	12.000	395.841	900	204	100	19.185	
ESD	D-Plant Outlet Piping			24.000	0.375	1061.000	3,128.158	900	204	100	151.609	
ESD	D-Plant Cooler Inlet Piping			8.625	0.322	336.000	116.730	900	204	100	5.657	
ESD	D-Plant Coolers			X	X	X	398.000	900	86	100	23.458	
ESD	D-Plant Cooler Outlet Piping			8.625	0.322	336.000	116.730	900	91	100	6.818	
ESD	D-Plant Outlet Piping			24.000	0.375	183.000	539.541	900	91	100	31.512	
ESD	D-Plant Outlet HP Scrubber			54.000	0.000	10.000	182.900	900	91	100	10.682	
ESD	D-Plant HP Piping to SJ Plant			24.000	0.375	810.000	2,388.132	900	91	100	139.480	
ESD	Fuel Gas Piping from SJ Plant			30.000	0.375	440.000	2,053.203	875	65	100	122.405	
ESD	Fuel Gas Piping to C-Plant			4.500	0.237	407.000	35.981	875	65	100	2.145	
ESD	Fuel Gas Piping to C-Plant			2.375	0.154	68.000	1.585	875	65	100	0.094	
ESD	Fuel Gas Piping to C-Plant			8.625	0.322	22.000	7.643	875	65	100	0.456	
ESD	Fuel Gas Piping to C-Plant			6.625	0.280	726.000	145.655	875	65	100	8.683	
ESD	Fuel Gas Piping to D-Plant			4.500	0.237	380.000	33.594	875	65	100	2.003	
ESD	Fuel Gas Piping to D-Plant			4.500	0.237	380.000	33.594	875	65	100	2.003	
ESD	Fuel Gas Piping to D-Plant			2.375	0.154	4.000	0.093	875	65	100	0.006	
ESD	Fuel Gas Piping to D-Plant			6.625	0.280	33.000	6.621	875	65	100	0.395	
ESD	Fuel Gas Piping to D-Plant			1.315	0.133	11.000	0.066	875	65	100	0.004	
ESD	Fuel Gas Container for D-Plant			24.000	0.000	10.000	33.510	875	65	100	1.998	
ESD	HP, LP, and Fuel Line BD Piping			6.625	0.280	31.000	6.219	875	65	100	0.371	
ESD	Boilerhouse Flare Fuel Piping			6.625	0.280	357.000	71.624	875	65	100	4.270	
ESD	Boilerhouse Flare Fuel Piping			4.500	0.237	152.000	13.438	875	65	100	0.801	
ESD	Boilerhouse Flare Fuel Piping			2.375	0.154	1133.000	26.402	875	65	100	1.574	
ESD	Boilerhouse Flare Fuel Piping			1.315	0.133	32.000	0.192	875	65	100	0.011	
ESD	Total Compressor Blowdown										263.443	lb VOC
C1	Individual Unit Blowdown										5.821	
C2	Individual Unit Blowdown										11.864	
D Plant	Individual Unit Blowdown										63.376	
C1	Unit Starting Gas & Purge										66.760	
C2	Unit Starting Gas & Purge										71.560	
D Plant	Unit Starting Gas & Purge										80.140	

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)

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DEFINITIONS

Action 296608

DEFINITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 296608
	Action Type: [C-129] Venting and/or Flaring (C-129)

DEFINITIONS

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application: • this application's operator, hereinafter "this operator"; • venting and/or flaring, hereinafter "vent or flare"; • any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms"; • the statements in (and/or attached to) this, hereinafter "the statements in this"; • and the past tense will be used in lieu of mixed past/present tense questions and statements.
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QUESTIONS

Action 296608

QUESTIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 296608
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Prerequisites	
<i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i>	
Incident Well	Unavailable.
Incident Facility	[fAPP2122931016] ENTERPRISE FARMINGTON GS

Determination of Reporting Requirements	
<i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
Was this vent or flare caused by an emergency or malfunction	Yes
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	No
Is this considered a submission for a vent or flare event	Yes, minor venting and/or flaring of natural gas.
<i>An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during venting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.</i>	
Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this vent or flare 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
Was the vent or flare within an incorporated municipal boundary or within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	Yes

Equipment Involved	
Primary Equipment Involved	Gas Compressor Station
Additional details for Equipment Involved. Please specify	Not answered.

Representative Compositional Analysis of Vented or Flared Natural Gas	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	85
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	2
Oxygen (O2) percentage, if greater than one percent	0
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
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.

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QUESTIONS, Page 2
Action 296608

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 296608
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	12/18/2023
Time vent or flare was discovered or commenced	07:17 PM
Time vent or flare was terminated	07:18 PM
Cumulative hours during this event	0

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Equipment Failure Gas Compressor Station Natural Gas Vented Released: 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 significant Mcf values reported)	Yes, according to supplied volumes this appears to be a "gas only" report.

Venting or Flaring Resulting from Downstream Activity	
Was this vent or flare a result of downstream activity	No
Was notification of downstream activity received by this operator	Not answered.
Downstream OGRID that should have notified this operator	Not answered.
Date notified of downstream activity requiring this vent or flare	Not answered.
Time notified of downstream activity requiring this vent or flare	Not answered.

Steps and Actions to Prevent Waste	
For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control.	True
Please explain reason for why this event was beyond this operator's control	Oil seal Leak
Steps taken to limit the duration and magnitude of vent or flare	None
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Flx Oil Seal

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ACKNOWLEDGMENTS

Action 296608

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	Action Number: 296608
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☒	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a complete C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
☒	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively.
☒	I hereby certify the statements in this report are true and correct to the best of my knowledge and acknowledge that any false statement may be subject to civil and criminal penalties under the Oil and Gas Act.
☒	I acknowledge that the acceptance of any C-129 forms by the OCD does not relieve this operator of liability should their operations have failed to adequately investigate, report, and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment.
☒	I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations.

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CONDITIONS

Action 296608

CONDITIONS

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	Action Number: 296608
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
tjlong	If the information provided in this report requires an amendment, submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	12/20/2023