GRI GlyCalc Information

Meter Number:	02273	**Flow Pressure:**	129
Meter Name:	SJ Blanco C Suction 02-18-2022	**Flow Temp:**	61
Location:	SJ Blanco Plant	**H20, Lb/MMCF:**	--
Sample Date:	2/18/2022	**H2S, ppmmol:**	--
File name	SJ Blanco C Suction 02-18-2022_1.D	**Type:**	Spot
		Pulled by:	Les McLaughlin

Component	Mol%	Wt%	LV%
Carbon Dioxide	1.6657	3.6346	1.5281
Hydrogen Sulfide	0.0000	0.0000	0.0000
Nitrogen	0.2294	0.3186	0.1357
Oxygen	0.0000	0.0000	0.0000
Methane	84.0124	66.8239	76.5630
Ethane	7.7841	11.6050	11.1907
Propane	3.4118	7.4592	5.0528
Isobutane	0.6500	1.8732	1.1434
n-Butane	0.9074	2.6147	1.5377
Isopentane	0.3374	1.2070	0.6633
n-Pentane	0.2495	0.8926	0.4862
Cyclopentane	0.0179	0.0621	0.0284
n-Hexane	0.0848	0.3625	0.1875
Cyclohexane	0.0462	0.1928	0.0845
Other Hexanes	0.2000	0.8496	0.4280
Heptanes	0.1046	0.5174	0.2527
Methylcyclohexane	0.0551	0.2684	0.1191
2,2,4 Trimethylpentane	0.0000	0.0000	0.0000
Benzene	0.0174	0.0674	0.0262
Toluene	0.0220	0.1006	0.0396
Ethylbenzene	0.0008	0.0041	0.0016
Xylenes	0.0038	0.0200	0.0079
C8+ Heavies	0.1997	1.1266	0.5235
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

Suction Pressure, Psig Various
Discharge Pressure, Psig Various

Input pressures here.

Equipment Tag	Equipment Name	Diameter, O.D. (In)	Wall Thickness, (In)	Length (ft)	Volume (ft^3)	Operating Pressure (psig)	Operating Temp (F)	% Gas	Std 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	18.056	
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	lb VOC
ESD	Total Compressor Blowdown								263.443	1960.013
C1	Individual Unit Blowdown								5.821	43.308
C2	Individual Unit Blowdown								11.864	88.267
D Plant	Individual Unit Blowdown								63.376	471.517
C1	Unit Starting Gas & Purge								66.760	12.213
C2	Unit Starting Gas & Purge								71.560	47.928
D Plant	Unit Starting Gas & Purge								80.140	111.764

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
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

DEFINITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 104068
	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.

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 104068

QUESTIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 104068
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Prerequisites	
Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.	
Incident Well	*Not answered.*
Incident Facility	**[fAPP2122931016] Enterprise Farmington GS**

Determination of Reporting Requirements	
Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide addional guidance.	
Was this vent or flare caused by an emergency or malfunction	No
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.**
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.	
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 withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	Yes

Equipment Involved	
Primary Equipment Involved	Other (Specify)
Additional details for Equipment Involved. Please specify	Annual Testing of the Emergency Shutdown Equipment

Representative Compositional Analysis of Vented or Flared Natural Gas	
Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	84
Nitrogen (N2) percentage, if greater than one percent	0
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	2
Oxygen (02) 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 Sufide (H2S) PPM quality requirement	*Not answered.*
Carbon Dioxide (C02) percentage quality requirement	*Not answered.*
Oxygen (02) percentage quality requirement	*Not answered.*

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 (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 104068
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	05/03/2022
Time vent or flare was discovered or commenced	09:00 AM
Time vent or flare was terminated	09:05 AM
Cumulative hours during this event	0

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Normal Operations | Other (Specify) | Natural Gas Vented | Released: 263 Mcf | Recovered: 0 Mcf | Lost: 263 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	Yes
Downstream OGRID that should have notified this operator	*Not answered.*
Date notified of downstream activity requiring this vent or flare	04/18/2022
Time notified of downstream activity requiring this vent or flare	01:27 PM

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.	False
Please explain reason for why this event was beyond this operator's control	This was the required annual ESD testing.
Steps taken to limit the duration and magnitude of vent or flare	None. Required annual testing of the Emergency Shutdown System.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	None.

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

ACKNOWLEDGMENTS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 104068
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit a *Venting and/or Flaring* (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.

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

CONDITIONS

Action 104068

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 104068
	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.	5/5/2022