

**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, O.D. (In)	Wall Thickness, (In)	Length (ft)	Volume (ft <sup>3</sup> )	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-scrbr	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
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)

Blanco Plant C-2 Turbine Compressor Oil Spill  
Released Liquids Estimation  
NMOCD Incident Number nAPP2614035530

<b>Current Length of Impacted Area (Feet)</b>	<b>Current Width of Impacted Area (Feet)</b>	<b>Current Depth of Impacted Area (Feet)</b>	<b>Current Square Feet (surface expression)</b>	<b>Current Cubic Yards of Soil Impacted</b>	<b>Estimated Liquids Released (BBLs)</b>
300	300	0.166	9000	555	5-10

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 589591

**QUESTIONS**

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 589591
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2614035530
Incident Name	NAPP2614035530 BLANCO PLANT C-2 TURBINE @ B-14-29N-11W
Incident Type	Oil Release
Incident Status	Initial C-141 Received

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	Blanco Plant C-2 Turbine
Date Release Discovered	05/20/2026
Surface Owner	Private

<b>Incident Details</b>	
<i>Please answer all the questions in this group.</i>	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

<b>Nature and Volume of Release</b>	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Other (Specify)   Crude Oil   Released: 5 BBL   Recovered: 0 BBL   Lost: 5 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Cause: Normal Operations   Other (Specify)   Natural Gas Vented   Released: 72 Mcf   Recovered: 0 Mcf   Lost: 72 Mcf.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	The material release was compressor oil.

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, Page 2

Action 589591

**QUESTIONS (continued)**

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 589591
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>Yes, according to supplied volumes this will be treated as a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>No</b>
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>

*With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.*

**Initial Response**

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.*

The source of the release has been stopped	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 05/29/2026
--	---

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, Page 3

Action 589591

**QUESTIONS (continued)**

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 589591
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

**Site Characterization**

*Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	OCD Imaging Records Lookup
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 100 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 300 and 500 (ft.)
An occupied permanent residence, school, hospital, institution, or church	Between 1000 (ft.) and ½ (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between 500 and 1000 (ft.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Zero feet, overlying, or within area
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

*Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

Requesting a remediation plan approval with this submission	No
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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

General Information  
Phone: (505) 629-6116

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

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

CONDITIONS

Action 589591

**CONDITIONS**

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 589591
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**CONDITIONS**

Created By	Condition	Condition Date
michael.buchanan	Initial C141 is approved. A remediation work plan, site characterization plan or remediation closure is due to the OCD no later than 90-days after the date of discovery, not to exceed 08/21/2026.	6/2/2026