

Event Number: 15

Description: aroyo valve ruptue

The parameters include:

- Distance from guage to ruptue (L): 0 feet = 0.000 miles
- Outside Diameter (OD): 4 inches
- Wall thickness (Wall): 0.313 inches
- Approximate area of ruptue (A): 0.25 in^2
- Atmospheric pressure (Pa): 14.7 psig
- Compressibility (Zs): 0.95
- Gas temperature (Ts): 85°F => Tr = 545°R
- Specific Gravity (G): 0.6
- Cost of Gas: \$2.0000/MSCF

Gas was blown from the following piping segments:

Op	PSIG	PSIG	Downstream	Escaping	Time	Time	Total	Total
Cond	@Gauge	@Rupt	flowrate	flowrate	hrs.	min.	Time	Gasloss
(P1g)	(P2g)	(Qf-SCFD)	(Qv-SCFD)	(t-min)	(Vp-MSCF)			
1	923	923	0	6,581,815	1	30	90	411.4
					-----		-----	
Total:					90		411.4	

The total cost of gas lost is \$822.73

90 minutes of blowing gas, prior to the controlled blowdown (MLV 109 & MLV 110 shut-in)

411.4 MSCF

Event Number: 15

Description: aroyo valve ruptue

The gas flow from the pipeline (Qw) is flowing either
(1) through the hole in the pipe (Qv) and/or
(2) downstream from the rupture (Qf)

Therefore, $Q_w = Q_v + Q_f$
where Qf is the flow downstream, entered if known

Qv is the flow through the hole and
is approximated using the simplified Anderson-Greenwood equation:

$$Q_v = 15.07 \times A \times P_2 \times \left(\frac{T_b}{T_r \times Z_s \times SG} \right) \times 60 \times 24 \quad \text{'SCFD}$$

Qw is the gas flow through the pipeline and
is calculated using the Weymouth equation:

$$Q_w = 433.45 \times \frac{T_b}{P_b} \times ID^{2.667} \times \left(\frac{P_1^2 - P_2^2}{L \times SG \times T_r \times Z_s} \right) \quad \text{'SCFD}$$

where $ID = OD - 2 \times \text{Wall}$

$T_b = 520^\circ R$

$P_b = 14.7 \text{ psia}$

$P_1 = P_{1g} + P_a$

$P_2 = P_{2g} + P_a$

Solve for P2 where P2 is the pressure at the rupture.
(NOTE: P2 = P1 pressure at gauge if L = 0).

Then, calculate gasloss (Vp):
 $V_p = Q_v \times t$

These flow capacities were calculated using the Enron Gas Loss Program
(GasLoss Program Version 1.10 - June 21, 1998)
See Enron Engineering Standard 5402 for Equations and Tables



Certificate of Analysis

Number: 6030-25121056-002A

Artesia Laboratory
 200 E Main St.
 Artesia, NM 88210
 Phone 575-746-3481

Patrick Long
 Energy Transfer
 1015 Bounds Road
 Loving, NM 88256

Station Name:	ATOKA 2 COMP	Report Date:	12/16/2025
Station Location:	Transwestern	Sampled By:	Steven A
Sampling Method:	Purge/Fill	Sample Of:	Gas
Heating Method:	N/A	Sample Type:	Spot
PO/Ref. No:	2605170052	Sample Conditions:	729 psig, @ 58 °F Ambient: 69 °F
Method:	GPA 2286	Sample Date:	No sample date provided
Instrument:	6030_GC2 (Agilent GC-7890B)	Received Date:	12/11/2025
Last Inst. Cal.:	12/15/2025 06:37:47	Login Date:	12/11/2025
Analyzed:	12/15/2025 08:05:08 by EBH	Effective Date:	12/01/2025
		Flow Rate:	

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Nitrogen	1.744	1.794	3.020		GPM TOTAL C2+	0.705
Methane	92.887	95.557	92.108		GPM TOTAL C3+	0.020
Carbon Dioxide	0.022	0.023	0.061		GPM TOTAL iC5+	0.000
Ethane	2.483	2.554	4.614	0.685		
Propane	0.064	0.066	0.175	0.018		
Iso-butane	0.002	0.002	0.007	0.001		
n-Butane	0.002	0.002	0.007	0.001		
Iso-pentane	0.001	0.001	0.004	0.000		
n-Pentane	0.001	0.001	0.004	0.000		
Hexanes Plus	0.000	0.000	0.000	0.000		
	97.206	100.000	100.000	0.705		

Calculated Physical Properties	Total
Relative Density Real Gas	0.5756
Calculated Molecular Weight	16.64
Compressibility Factor	0.9979
GPA 2172 Calculation:	
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F	
Real Gas Dry BTU	1017
Water Sat. Gas Base BTU	999

Mostaq Ahamed

Petroleum Chemist

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.



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 1015 Bounds Road
 Loving, NM 88256

Station Name: ATOKA 2 COMP
 Station Location: Transwestern
 PO/Ref. No: 2605170052
 Method: GPA 2286
 Instrument: 6030_GC2, HP7890 Signal 1
 Analyzed: 12/15/2025 08:05:08 by EBH

Report Date: 12/16/2025
 Sampled By: Steven A
 Sample Of: Gas Spot
 Sample Conditions: 729 psig, @ 58 °F
 Sample Date: No sample date provided
 Received Date: 12/11/2025
 Login Date: 12/11/2025

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia
Nitrogen	1.794	3.020	
Methane	95.557	92.108	
Carbon Dioxide	0.023	0.061	
Ethane	2.554	4.614	0.685
Propane	0.066	0.175	0.018
Iso-Butane	0.002	0.007	0.001
n-Butane	0.002	0.007	0.001
Iso-Pentane	0.001	0.004	0.000
n-Pentane	0.001	0.004	0.000
i-Hexanes	0.000	0.000	0.000
n-Hexane	0.000	0.000	0.000
Benzene	0.000	0.000	0.000
Cyclohexane	0.000	0.000	0.000
i-Heptanes	0.000	0.000	0.000
n-Heptane	0.000	0.000	0.000
Toluene	0.000	0.000	0.000
i-Octanes	0.000	0.000	0.000
n-Octane	0.000	0.000	0.000
Ethylbenzene	0.000	0.000	0.000
Xylenes	0.000	0.000	0.000
i-Nonanes	0.000	0.000	0.000
n-Nonane	0.000	0.000	0.000
Decane Plus	0.000	0.000	0.000
	<u>100.000</u>	<u>100.000</u>	<u>0.705</u>

Calculated Physical Properties **Total**
 Calculated Molecular Weight 16.64
GPA 2172 Calculation:
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F
 Real Gas Dry BTU 1016.6
 Water Sat. Gas Base BTU 998.9
 Relative Density Real Gas 0.5756
 Compressibility Factor 0.9979

Mostaq Ahamed
 Petroleum Chemist

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated. The test results apply to the sample as received.

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 587993

QUESTIONS

Operator: Transwestern Pipeline Company, LLC 8501 Jefferson NE Albuquerque, NM 87113	OGRID: 329750
	Action Number: 587993
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2613337339
Incident Name	NAPP2613337339 TRANSWESTERN PIPELINE CO - LONG ARROYO LATERAL @ E-25-14S-27E 2140N 674W
Incident Type	Natural Gas Release
Incident Status	Initial C-141 Received

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	Transwestern Pipeline Co - Long Arroyo Lateral
Date Release Discovered	05/12/2026
Surface Owner	State

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Natural Gas 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

Nature and Volume of Release	
<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	Not answered.
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: Equipment Failure Valve Natural Gas Vented Released: 411 Mcf Recovered: 0 Mcf Lost: 411 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 release occurred from a failed valve that had been uncovered prior to the leak occurring. The release of gas was directly to the atmosphere, not to the soil. The gas released was fuel gas being delivered to Transwestern's customer at the Long Arroyo Compressor Station. The gas is pipeline quality natural gas less than 1% VOCs (i.e., propane+ components), and no free liquids. Operations personnel were onsite and directly observing the valve when the release occurred and were able to respond immediately to minimize the impacts. No free liquids were released along with the natural gas.

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QUESTIONS, Page 2

Action 587993

QUESTIONS (continued)

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QUESTIONS

Nature and Volume of Release (continued)	
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.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
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	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	All actions to contain the release and minimize damage to people, property and the environment have been completed. This is a gas loss to the atmosphere. No release to the soil. No liquids released.

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: Kerry Egan Title: Regulatory Manager Email: kerry.egan@energytransfer.com Date: 05/26/2026
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QUESTIONS, Page 3

Action 587993

QUESTIONS (continued)

Operator: Transwestern Pipeline Company, LLC 8501 Jefferson NE Albuquerque, NM 87113	OGRID: 329750
	Action Number: 587993
	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)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
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>	

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CONDITIONS

Action 587993

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Operator: Transwestern Pipeline Company, LLC 8501 Jefferson NE Albuquerque, NM 87113	OGRID: 329750
	Action Number: 587993
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CONDITIONS

Created By	Condition	Condition Date
nvez	None	6/2/2026