SPILL TO SOIL (including spill to dry creek beds/banks)

Rev 3.0: 11/13/2018
All calculations & conversions confirmed on: 11/13/2018

Location: EC-1 Carrasco Line **Date:** 2/17/2025

V = D x A x P x Adj x 7.48

V = Volume of hydrocarbon (oil) released, gallons
D = Average depth of oil penetration across impacted area, inches
A = Area of spill, square feet
P = Porosity of soil (void space between soil particles) of impacted media (soil), unitless
Use Table 1 to select best fit for observed impacted soil conditions
Adj = Correction factor of 50% for soil porosity factor overestimating volume of oil in soil (standard assumption), %
The factor can be adjusted lower or higher for local observed conditions. For Lower Adj = 50% * (100% - % decrease). For Higher Adj = 50% * (100% + % increase).
For example:

Observed Condition	% Decrease/Increase	New Adj
Ground is saturated with water	decrease by 25%	37.5%
Ground is frozen	decrease by 50%	25.0%
Dry cracked clay	increase by 40%	70.0%

7.48 = Conversion factor: cubic feet to gallons

Enter data for each individual impacted soil area
All dimensions, except depth, are maximums observed

= Data Entry Fields
= Standard Assumptions

Square or Rectangle

Loc	Length ft	Width ft	Depth (D) in	Depth (D) ft	Area (A) ft²	Volume ft³	Porosity (P)	Adjustment (Adj)	Oil Volume (V) ft³	Oil Volume (V) gal	Oil Volume (V) bbl
1				0.25	20.0	5.0	0.33	50%	0.825	6.171	0.147
2				-	-	-		50%	-	-	-
3				-	-	-		50%	-	-	-
4				-	-	-		50%	-	-	-
5				-	-	-		50%	-	-	-
6				-	-	-		50%	-	-	-
			Sub-Total		20.0	5.0			0.825	6.171	0.147

Triangular

Loc	Base ft	Height ft	Depth (D) in	Depth (D) ft	Area (A) ft²	Volume ft³	Porosity (P)	Adjustment (Adj)	Oil Volume (V) ft³	Oil Volume (V) gal	Oil Volume (V) bbl
1				-	-	-		50%	-	-	-
2				-	-	-		50%	-	-	-
3				-	-	-		50%	-	-	-
4				-	-	-		50%	-	-	-
5				-	-	-		50%	-	-	-
			Sub-Total		-	-			-	-	-

Circular

Loc	Diameter ft	Depth (D) in	Depth (D) ft	Area (A) ft²	Volume ft³	Porosity (P)	Adjustment (Adj)	Oil Volume (V) ft³	Oil Volume (V) gal	Oil Volume (V) bbl
1			-	-	-		50%	-	-	-
2			-	-	-		50%	-	-	-
3			-	-	-		50%	-	-	-
4			-	-	-		50%	-	-	-
5			-	-	-		50%	-	-	-
		Sub-Total		-	-			-	-	-

			ft³	gal	bbl
Total Soil Volume:	5.0	Total Oil Volume:	0.825	6.171	0.147

NOTES:

Use Best Professional Judgement
Table 1: Soil Porosity for Different Soils [1]

Soil	Description	Porosity
Gravel	Gravel	0.31
	Sandy gravel, with little or no fines	0.27
	Silty gravels, silty sandy gravels	0.19
	Clayey gravels, clayey sandy gravels	0.22
Sand	Coarse sand	0.35
	Fine sand	0.38
	Gravelly sands, with little or no fines	0.33
	Silty sands	0.37
	Clayey sands	0.26
Silt	Uniform silt, silty or clayey fine sands, silty clays	0.49
Clay	Clay	0.63
	Silty or sandy clay	0.39

Sources:
[1] http://www.geotechdata.info/parameter/soil-porosity.html

SERC Address:
13 Bataan Blvd Santa Fe, NM 87508

LEPC Address:

FAX To: Regional Environmental Department 111-111-1111

SERC/LEPC Notification Form

Facility Name:	Carlsbad PL/Gathering	**Date:**	2/17/2025 10:19 AM	**County:**	EDDY
Location:	Event GPS Coordinates: 32.3098109, -104.0664060 Driving Directions:				

X	**Initial Report**
	Updated Report
	Final Report

Type of Incident:	Maintenance	**Release Occurred To:**	Air	**Release Type:**	Vented
Started On:	2/17/2025 7:00 AM	**Ended On:**	Unknown	**Discovered On:**	2/17/2025 7:27 AM

Event Duration:
Minutes

Material Released:

Material Composition:
Carbon Dioxide 0.161%, Methane 73.633%, Hexane 0.355%, Butane 1.783%, Pentane 0.485%, Heptane 0.2779%, n-Nonane 0.024%, n-Octane 0.112%, Nitrogen 3.871%, Propane 6.264%, Ethane 11.877%, Isobutane 0.705%, Isopentane 0.454%,

Calculations:
Compound Calculation Used to Obtain Released Amount (Id: 119112)
Hexane: 26356.9 {scf/event} * 0.00355000019073486 {mole fraction} * 86.1754 {lb/lb-mole} / 379.3 {scf/lb-mole}
Butane: 26356.9 {scf/event} * 0.0178299999237061 {mole fraction} * 58.1222 {lb/lb-mole} / 379.3 {scf/lb-mole}
Pentane: 26356.9 {scf/event} * 0.00485000014305115 {mole fraction} * 72.1488 {lb/lb-mole} / 379.3 {scf/lb-mole}
Heptane: 26356.9 {scf/event} * 0.00277900010347366 {mole fraction} * 100.2019 {lb/lb-mole} / 379.3 {scf/lb-mole}
n-Nonane: 26356.9 {scf/event} * 0.000240000002086163 {mole fraction} * 128.2551 {lb/lb-mole} / 379.3 {scf/lb-mole}
n-Octane: 26356.9 {scf/event} * 0.00112000003457069 {mole fraction} * 114.2285 {lb/lb-mole} / 379.3 {scf/lb-mole}
Propane: 26356.9 {scf/event} * 0.0626399993896484 {mole fraction} * 44.0956 {lb/lb-mole} / 379.3 {scf/lb-mole}
Isobutane: 26356.9 {scf/event} * 0.00705000042915344 {mole fraction} * 58.1222 {lb/lb-mole} / 379.3 {scf/lb-mole}
Isopentane: 26356.9 {scf/event} * 0.00453999996185303 {mole fraction} * 72.1488 {lb/lb-mole} / 379.3 {scf/lb-mole}
Nitrogen: 26356.9 {scf/event} * 0.0387100028991699 {mole fraction} * 28.0134 {lb/lb-mole} / 379.3 {scf/lb-mole}
Ethane: 26356.9 {scf/event} * 0.118770008087158 {mole fraction} * 30.069 {lb/lb-mole} / 379.3 {scf/lb-mole}

Volume Calculations Used to Obtain Release Amount
26.3569 {mscf/event}
Vol=3.14159 * (Dia / 12 / 2)^2 * Len * (StartPressure - EndPressure) / 14.7 / 1000 Dia=6, Len(ft)=2631.00, StartPressure=750, EndPressure=0

Violations:

Known or anticipated acute or chronic health risks associated with the emergency:

Medical attention advised for exposed individuals:

Cause of the upset:
corrosion, old pipe

Actions taken to correct the upset and minimize emissions:
shut-in blew down line

Precautions taken as a result of the release:

A. AI Number	**N. Failure Pt No: O. Failure Pt. Description:** EC-1				
A. NOx: 0 lb	**B. SO2:** 0 lb	**C. CO:** 0 lb	**D. PM:**	**E. VOC:** 391.14 lb	**F. H2S:** 0 lb
Vol=26.36 mscf/event					

SERC Email Notification:	henry.jolly@state.nm.us	**LEPC Email Notification:**	

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

Operator: DCP OPERATING COMPANY, LP 2331 Citywest Blvd Houston, TX 77042	OGRID: 36785
	Action Number: 433313
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2505023887**
Incident Name	**NAPP2505023887 EC-1 CARRASCO LINE @ 0**
Incident Type	**Blow Out**
Incident Status	**Initial C-141 Received**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	EC-1 Carrasco Line
Date Release Discovered	02/17/2025
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Blow Out
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	Yes
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	
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.	
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	Cause: Blow Out | Pipeline (Any) | Condensate | Released: 0 BBL | Recovered: 0 BBL | Lost: 0 BBL.
Natural Gas Vented (Mcf) Details	Cause: Blow Out | Pipeline (Any) | Natural Gas Vented | Released: 26 MCF | Recovered: 0 MCF | Lost: 26 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)	*Not answered.*

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QUESTIONS (continued)

Operator: DCP OPERATING COMPANY, LP 2331 Citywest Blvd Houston, TX 77042	OGRID: 36785
	Action Number: 433313
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

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	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(2) an unauthorized release of a volume that:** **(c) may with reasonable probability endanger public health.**

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	*Not answered.*

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: Nick Case Title: Environmental Email: Nicholas.L.Case@P66.com Date: 02/19/2025

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QUESTIONS (continued)

Operator: DCP OPERATING COMPANY, LP 2331 Citywest Blvd Houston, TX 77042	OGRID: 36785
	Action Number: 433313
	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	*Not answered.*
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	*Not answered.*
An occupied permanent residence, school, hospital, institution, or church	*Not answered.*
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	*Not answered.*

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
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.	

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CONDITIONS

Operator: DCP OPERATING COMPANY, LP 2331 Citywest Blvd Houston, TX 77042	OGRID: 36785
	Action Number: 433313
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	None	2/21/2025