



January 14, 2026

New Mexico Oil Conservation Division

New Mexico Energy, Minerals, and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**Re: Closure Request
Avion Federal 301H
Incident Number nAPP2535249646
Lea County, New Mexico**

To Whom It May Concern:

COG Operating, LLC, (COG), has prepared this *Closure Request* to document the findings of a liner integrity inspection conducted at the Avion Federal 301H (Site) following the release of an oil/produced water mixture within a lined containment. Based on the liner integrity inspection activities, COG is submitting this Closure Request, describing assessment activities that have occurred and requesting no further action and closure for Incident Number nAPP2535249646.

SITE DESCRIPTION AND RELEASE SUMMARY

The site is located in Unit A, Section 22, Township 23 South, Range 32 East, in Lea County, New Mexico (32.2960922, -103.6550313) and is associated with oil and gas exploration and production operations on surface lands managed by the Bureau of Land Management (BLM).

On December 17, 2025, field personnel discovered an overfilled produced water tank causing two hundred thirty-seven point one five three nine (237.1539) barrels of an oil/produced water mixture to be released into a lined containment. A vacuum truck was dispatched to the site to recover free-standing fluids and approximately two hundred thirty-seven (237) barrels of fluid were recovered. The tank was isolated to prevent fluid being further released. COG reported the release to the New Mexico Oil Conservation Division (NMOCD) on a *Release Notification Form C-141* (Form C-141) on December 18, 2025. The release was assigned Incident Number nAPP2535249646.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers databases, there is no known water source within a 0.50-mile radius of the location. The closest well is located approximately 0.99 miles Northwest of the Site in Unit Letter C, S15, T23S, R32E and was drilled in 2024. The well has a reported depth of 105 feet below ground surface and no groundwater was encountered. Per the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria were utilized in assessing the site.

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 100 mg/kg (GRO + DRO + MRO).
- Chloride: 600 mg/kg.

LINER INTEGRITY INSPECTION ACTIVITIES

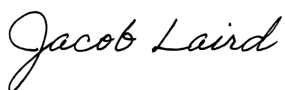
A 48-hour advance notice of the liner inspection was submitted to the NMOCD on January 7, 2026. Prior to conducting the liner integrity inspection, COG operations power washed the liner to remove dirt and debris and recover any residual produced water. A liner integrity inspection was conducted by Jacob Laird on January 9, 2026. Upon inspection, no rips, tears, holes, or damage was observed. The liner was determined to be sufficient, and all released fluids have been removed. Refer to photolog for details.

CLOSURE REQUEST

Based on the liner inspection throughout the facility, the liner was determined to be sufficient. The release was contained laterally by the lined containment and the liner was performing as designed. No further actions are required at the site. COG, LLC respectfully requests that the New Mexico Oil Conservation Division grant closure approval for Incident Number nAPP2535249646.

Should you have any questions or concerns please do not hesitate to contact me.

Sincerely,



Jacob Laird
Environmental Engineer
jacob.laird@conocophillips.com

Appendices:

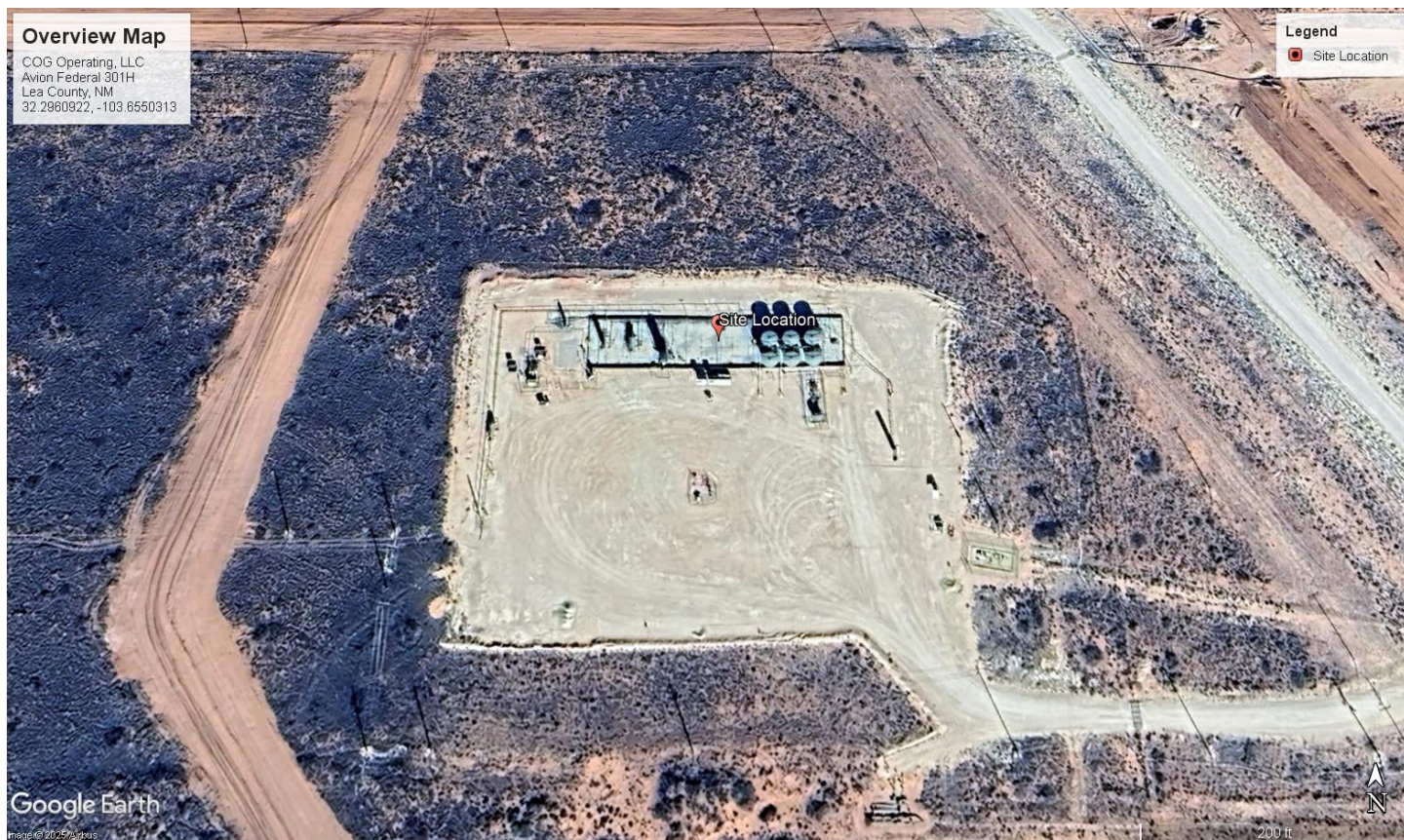
Figures- Site Map Overview, Topography Map, Secondary Containment Map

Appendix A: NMOCD Correspondence

Appendix B: Photolog

Appendix C: Site Characterization and Ground Water

Figures: Site Maps



Overview Map

COG Operating, LLC
Avion Federal 301H
Lea County, New Mexico
32.2960922, -103.6550313



Topographical Map

COG Operating, LLC
Avion Federal 301H
Lea County, New Mexico
32.2960922, -103.6550313



Secondary Containment Map

COG Operating, LLC
Avion Federal 301H
Lea County, New Mexico
32.2960922, -103.6550313

Appendix A: NMOCD Correspondence

Spill Calculation - On-Pad Surface Pool Spill

Received by OCD: 1/14/2026 10:50:29 AM

Page 9 of 38

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	Estimated <u>Pool</u> Area (sq. ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture (%)	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	20	50	1.7	1000.00	25.22	0.01	25.40	2%	0.51	24.89
Rectangle B	6	54	1.7	324.00	8.17	0.01	8.23		0.16	8.06
Rectangle C	7	54	1.7	378.00	9.53	0.01	9.60		0.19	9.41
Rectangle D	7	54	1.7	378.00	9.53	0.01	9.60		0.19	9.41
Rectangle E	155	50	1.7	7750.00	195.43	0.01	196.81		3.94	192.88
Rectangle F				0.00	0.00	0.00	0.00		0.00	0.00
Rectangle G				0.00	0.00	0.00	0.00		0.00	0.00
Rectangle H				0.00	0.00	0.00	0.00		0.00	0.00
Rectangle I				0.00	0.00	0.00	0.00		0.00	0.00
Rectangle J				0.00	0.00	0.00	0.00		0.00	0.00

Released to Imaging: 1/16/2026 1:35:13 PM

Total Volume Release, Soil not impacted:

237.1539

4.7431

232.4108

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 536800

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 536800
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2535249646
Incident Name	NAPP2535249646 AVION FEDERAL 301H @ FAPP2129336058
Incident Type	Release Other
Incident Status	Initial C-141 Received
Incident Facility	[fAPP2129336058] Avion Federal 301H - RT BTTY

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Avion Federal 301H
Date Release Discovered	12/17/2025
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Release Other
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	
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	Cause: Overflow - Tank, Pit, Etc. Tank (Any) Crude Oil Released: 5 BBL Recovered: 4 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. Tank (Any) Produced Water Released: 232 BBL Recovered: 232 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
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)	Full release was within a lined facility.

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 536800

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 536800
	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)	No, according to supplied volumes this does not appear 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: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
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	Full release was within a lined facility.

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: Jacob Laird Title: Environmental Engineer Email: jacob.laird@conocophillips.com Date: 12/22/2025
--	---

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 536800

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 536800
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Site Characterization	
<i>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.</i>	
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	
<i>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.</i>	
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/oed/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 536800

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 536800
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scwells	Initial C-141 approved. A remediation plan or a remediation closure report is due to the OCD by 3/17/2026.	12/23/2025

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 540822

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 540822
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2535249646
Incident Name	NAPP2535249646 AVION FEDERAL 301H @ FAPP2129336058
Incident Type	Release Other
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2129336058] Avion Federal 301H - RT BTTY

Location of Release Source	
Site Name	Avion Federal 301H
Date Release Discovered	12/17/2025
Surface Owner	Federal

Liner Inspection Event Information	
<i>Please answer all the questions in this group.</i>	
What is the liner inspection surface area in square feet	11,715
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	01/09/2026
Time liner inspection will commence	09:30 AM
Please provide any information necessary for observers to liner inspection	Jacob Laird 575-703-5482
Please provide any information necessary for navigation to liner inspection site	32.2960922, -103.6550313

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

CONDITIONS

Action 540822

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 540822
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
jlaire	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	1/7/2026

Appendix B: Photolog

Photographic Log

Facility: Avion Federal 301H

County: Lea County, New Mexico

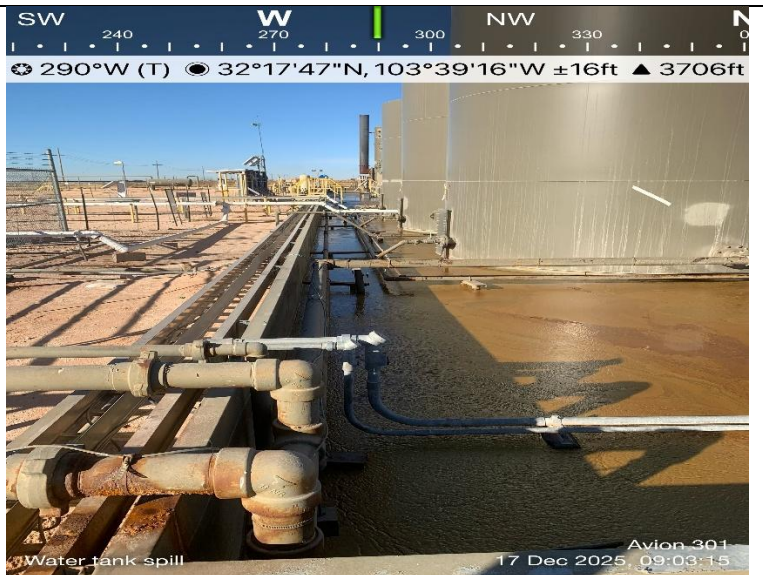
Description: Facility Sign



Facility: Avion Federal 301H

County: Lea County, New Mexico

Description: Original release photo from 12/17/2025



Facility: Avion Federal 301H

County: Lea County, New Mexico

Description: Original release photo from 12/17/2025



Facility: Avion Federal 301H

County: Lea County, New Mexico

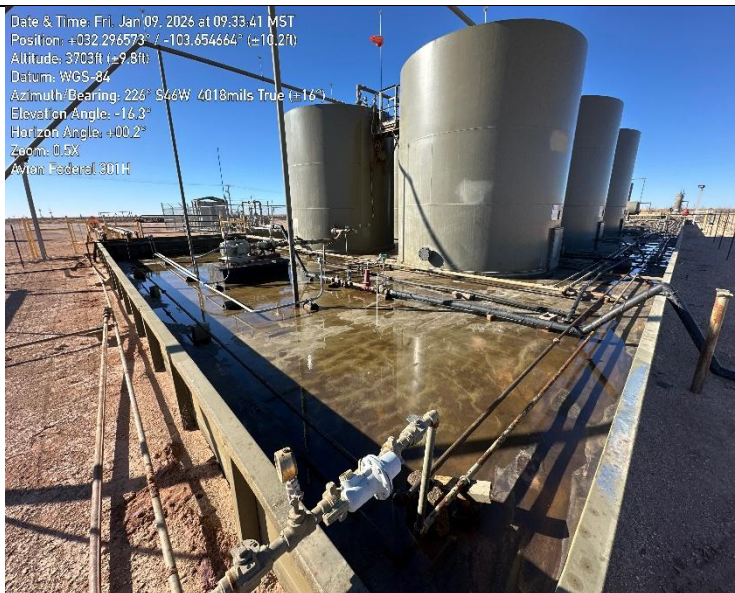
Description: View facing Northwest. Lined area East of production tanks. (Fluid in containment is rainwater from the previous night)



Facility: Avion Federal 301H

County: Lea County, New Mexico

Description: View facing Southwest. (Fluid in containment is rainwater from the previous night)



Facility: Avion Federal 301H

County: Lea County, New Mexico

Description: View facing West. Lined area North of production tank. (Fluid in containment is rainwater from the previous night)



Facility: Avion Federal 301H

County: Lea County, New Mexico

Description: View facing West. Lined area between production tanks. (Fluid in containment is rainwater from the previous night)

Date & Time: Fri, Jan 09, 2026 at 09:34:07 MST
Position: +032.296504° / -103.654686° (±9.6ft)
Altitude: 3703ft (±9.8ft)
Datum: WGS-84
Azimuth/Bearing: 254° S74W 451.6mils True (±16°)
Elevation Angle: -15.9°
Horizon Angle: -00.3°
Zoom: 0.5X
Avion Federal 301H

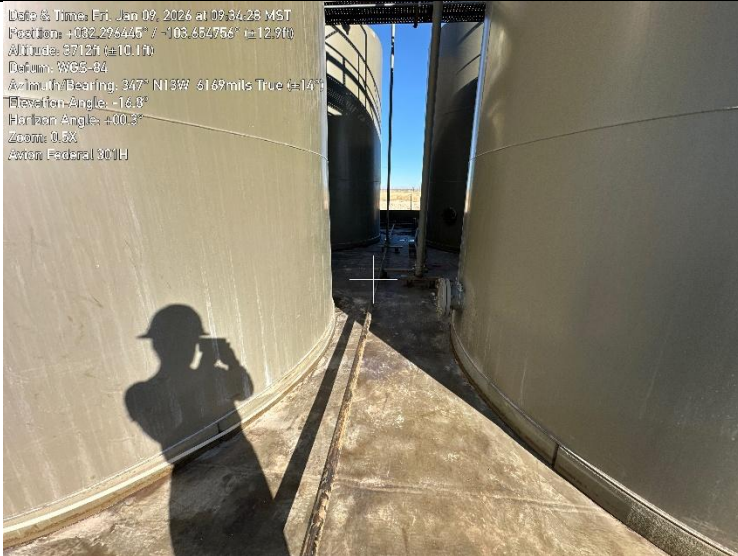


Facility: Avion Federal 301H

County: Lea County, New Mexico

Description: View facing East. View facing West. Lined area between production tanks. (Fluid in containment is rainwater from the previous night)

Date & Time: Fri, Jan 09, 2026 at 09:34:28 MST
Position: +032.296446° / -103.654756° (±12.9ft)
Altitude: 3712ft (±10.1ft)
Datum: WGS-84
Azimuth/Bearing: 347° N13W 51.6mils True (±14°)
Elevation Angle: -16.3°
Horizon Angle: +00.4°
Zoom: 0.5X
Avion Federal 301H



Facility: Avion Federal 301H

County: Lea County, New Mexico

Description: View facing West. Lined area South of production tanks. (Fluid in containment is rainwater from the previous night)

Date & Time: Fri, Jan 09, 2026 at 09:34:34 MST
Position: +032.296431° / -103.654760° (±15.2ft)
Altitude: 3709ft (±12.7ft)
Datum: WGS-84
Azimuth/Bearing: 263° S83W 467.6mils True (±12°)
Elevation Angle: -18.4°
Horizon Angle: -00.7°
Zoom: 0.5X
Avion Federal 301H



Facility: Avion Federal 301H

County: Lea County, New Mexico

Description: View facing West. Lined area North of production tank. (Fluid in containment is rainwater from the previous night)



Facility: Avion Federal 301H

County: Lea County, New Mexico

Description: View facing East. View facing West. Lined area between production tanks. (Fluid in containment is rainwater from the previous night)



Facility: Avion Federal 301H

County: Lea County, New Mexico

Description: View facing East. Lined area between production tanks. (Fluid in containment is rainwater from the previous night)



Facility: Avion Federal 301H

County: Lea County, New Mexico

Description: View facing East. Lined area South of production tanks. (Fluid in containment is rainwater from the previous night)



Facility: Avion Federal 301H

County: Lea County, New Mexico

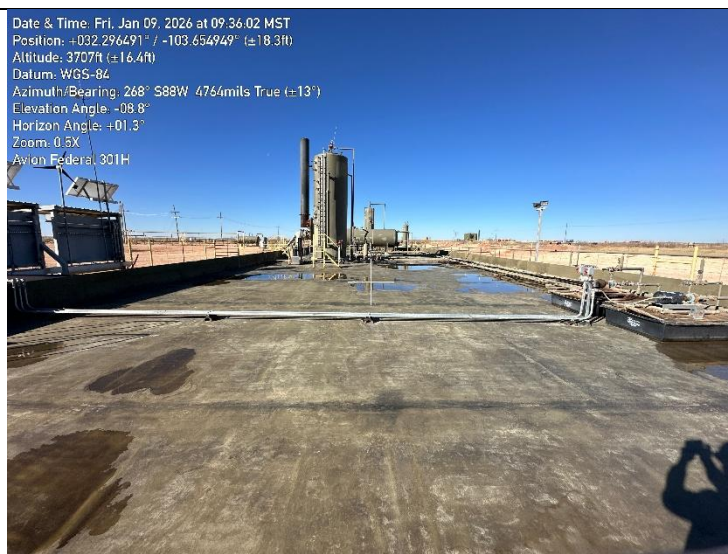
Description: View facing West. Lined area West of production tanks. (Fluid in containment is rainwater from the previous night)



Facility: Avion Federal 301H

County: Lea County, New Mexico

Description: View facing West. Lined area West of production tanks. (Fluid in containment is rainwater from the previous night)



Facility: Avion Federal 301H

County: Lea County, New Mexico

Description: View facing West. Lined area West of production tanks and production piping. (Fluid in containment is rainwater from the previous night)

Date & Time: Fri, Jan 09, 2026 at 09:36:14 MST
 Position: -032.296552° / -103.654953° (±19.5ft)
 Altitude: 3707ft (±16.0ft)
 Datum: WGS-84
 Azimuth/Bearing: 269° S89°W 4782mils True (±13°)
 Elevation Angle: -11.5°
 Horizon Angle: -00.1°
 Zoom: 0.5X
 Avion Federal 301H



Facility: Avion Federal 301H

County: Lea County, New Mexico

Description: View facing Northwest. Lined area near production equipment. (Fluid in containment is rainwater from the previous night)

Date & Time: Fri, Jan 09, 2026 at 09:36:42 MST
 Position: -032.296649° / -103.655120° (±14.4ft)
 Altitude: 3705ft (±11.5ft)
 Datum: WGS-84
 Azimuth/Bearing: 322° N38°W 5726mils True (±12°)
 Elevation Angle: -12.7°
 Horizon Angle: -01.1°
 Zoom: 0.5X
 Avion Federal 301H



Facility: Avion Federal 301H

County: Lea County, New Mexico

Description: View facing Southwest. Lined area near production equipment and production piping. (Fluid in containment is rainwater from the previous night)

Date & Time: Fri, Jan 09, 2026 at 09:37:03 MST
 Position: -032.296567° / -103.655109° (±14.8ft)
 Altitude: 3703ft (±11.9ft)
 Datum: WGS-84
 Azimuth/Bearing: 237° S52°W 4213mils True (±10°)
 Elevation Angle: -15.5°
 Horizon Angle: -00.4°
 Zoom: 0.6X
 Avion Federal 301H



Facility: Avion Federal 301H

County: Lea County, New Mexico

Description: View facing Northwest. Lined area near production equipment. (Fluid in containment is rainwater from the previous night)



Facility: Avion Federal 301H

County: Lea County, New Mexico

Description: View facing West. Lined area near production equipment. (Fluid in containment is rainwater from the previous night)



Facility: Avion Federal 301H

County: Lea County, New Mexico

Description: View facing Southwest. Lined area near production equipment and production piping. (Fluid in containment is rainwater from the previous night)



Facility: Avion Federal 301H

County: Lea County, New Mexico

Description: View facing Northwest. Lined area near production equipment and production piping. (Fluid in containment is rainwater from the previous night)

Date & Time: Fri, Jan 09, 2026 at 09:38:22 MST
 Position: +032.296512° / -103.655264° (±14.1ft)
 Altitude: 3703ft (±11.3ft)
 Datum: WGS-84
 Azimuth/Bearing: 298° N62W 5298mils True (±20°)
 Elevation Angle: -19.5°
 Horizon Angle: +00.7°
 Zoom: 0.5X
 Avion Federal 301H



Facility: Avion Federal 301H

County: Lea County, New Mexico

Description: View facing Southwest. Lined area near production equipment and production piping. (Fluid in containment is rainwater from the previous night)

Date & Time: Fri, Jan 09, 2026 at 09:43:31 MST
 Position: +032.296493° / -103.655310° (±16.1ft)
 Altitude: 3704ft (±9.8ft)
 Datum: WGS-84
 Azimuth/Bearing: 225° S45W 4000mils True (±17°)
 Elevation Angle: -16.5°
 Horizon Angle: +00.5°
 Zoom: 0.5X
 Avion Federal 301H



Facility: Avion Federal 301H

County: Lea County, New Mexico

Description: View facing Northwest. Lined area near production equipment and production piping. (Fluid in containment is rainwater from the previous night)

Date & Time: Fri, Jan 09, 2026 at 09:38:51 MST
 Position: +032.296442° / -103.655310° (±15.6ft)
 Altitude: 3703ft (±12.6ft)
 Datum: WGS-84
 Azimuth/Bearing: 295° N65W 5246mils True (±16°)
 Elevation Angle: -16.7°
 Horizon Angle: +00.3°
 Zoom: 0.5X
 Avion Federal 301H



Facility: Avion Federal 301H

County: Lea County, New Mexico

Description: View facing West. Lined area near production equipment and production piping. (Fluid in containment is rainwater from the previous night)

Date & Time: Fri, Jan 09, 2026 at 09:39:05 MST
Position: -032.294534° / -103.655322° (±12.9ft)
Altitude: 3703ft (±10.1ft)
Datum: WGS-84
Azimuth/Bearing: 270° S90W 4800mils True (±14°)
Elevation Angle: -19.2°
Horizon Angle: +01.5°
Zoom: 0.5X
Avion Federal 301H



Facility: Avion Federal 301H

County: Lea County, New Mexico

Description: View facing North. Lined area near production equipment and production piping. (Fluid in containment is rainwater from the previous night)

Date & Time: Fri, Jan 09, 2026 at 09:40:00 MST
Position: -032.294434° / -103.655344° (±40.4ft)
Altitude: 3705ft (±9.8ft)
Datum: WGS-84
Azimuth/Bearing: 341° N19W 6062mils True (±18°)
Elevation Angle: -14.6°
Horizon Angle: -00.3°
Zoom: 0.5X
Avion Federal 301H



Appendix C: Site Characterization and Ground Water



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is closed) (quarters are smallest to largest)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance (meters)	Well Depth (In feet)	Depth Water	Water Column
C 04889 POD1		CUB	LE	SE	NE	NW	15	23S	32E	625771.5	3575426.3		1586	105		

Average Depth to Water: 0 feet

Minimum Depth: 0 feet

Maximum Depth: 0 feet

Record Count: 1

Basin/County Search:
County: LE

UTM Filters (in meters):
Easting: 626635.33
Northing: 3574095.83
Radius: 1600
* UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

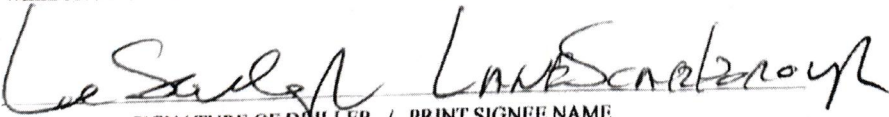
1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1		WELL TAG ID NO. N/A		OSE FILE NO(S). C-04889 POD1			
	WELL OWNER NAME(S) Devon Energy Production Company, LP				PHONE (OPTIONAL) 575-689-7597			
	WELL OWNER MAILING ADDRESS 5315 Buena Vista Dr				CITY Carlsbad	STATE NM	ZIP 88220	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 18	SECONDS 30.96 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
		LONGITUDE 103	39	50.45 W				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Unit C, Section 15, Township 23S, Range 32E, Lea County, NM								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD1188		NAME OF LICENSED DRILLER John Scarborough			NAME OF WELL DRILLING COMPANY John Scarborough Drilling Inc		
	DRILLING STARTED 10/21/2024	DRILLING ENDED 10/21/2024	DEPTH OF COMPLETED WELL (FT) 105	BORE HOLE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A			
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES – SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER – SPECIFY:							
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0 105		5.00	Soil Boring				
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
				N/A				

OSE DII ROSWELL NM
16 DEC '24 10:29

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO. C-04889	POD NO. 1	TRN NO. 768314
LOCATION 23S. 32E. 15. 421	WELL TAG ID NO. —	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO				
	0	10	10	Sand with Silt, Red to Medium Brown, Coarse to Very Fine	Y ✓ N	
	10	20	10	Sand with Gravel, Light Brown to Tan, Medium to Coarse with Gravel	Y ✓ N	
	20	30	10	Gravel with Sand, White to Tan, Small to Large with Medium to Coarse	Y ✓ N	
	30	40	10	Sand with Gravel, Medium to Light Brown, Coarse to Fine with Gravel	Y ✓ N	
	40	50	10	Sand with Gravel, Light Brown to Tan, Coarse to Fine with Gravel	Y ✓ N	
	50	60	10	Silty Sand, Light Brown to Red, Coarse to Very Fine	Y ✓ N	
	60	70	10	Inter-bedded Sandstone and Sand, Medium Brown, Medium to Coarse	Y ✓ N	
	70	80	10	Clayey Sand, Dark to Medium Brown, Medium to Fine Grained	Y ✓ N	
	80	90	10	Clayey Sand, Dark to Medium Brown, Medium to Fine Grained	Y ✓ N	
	90	100	10	Clayey Sand, Dark Red to Medium Brown, Medium to Fine Grained	Y ✓ N	
	100	105	5	Silty Sand, Light Brown to Tan, Coarse to Fine Grained	Y ✓ N	
	105	105	0	Silty Sand, Tan to Green, Coarse to Fine Grained	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:						
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to 10 ft below ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface.					
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Scott Scarborough						
6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.					
	 SIGNATURE OF DRILLER / PRINT SIGNED NAME					12/13/2024 DATE

FOR OSE INTERNAL USE

FILE NO. C-04889

235. 82E. 15. 421

POD NO. 1

WR-20 WELL RECORD & LOG (Version 04/30/2019)

TRN NO. 768314



Neatest Water Well Map

COG Operating, LLC
Avion Federal 301H
Lea County, New Mexico
32.2960922, -103.6550313



Karst Map

COG Operating, LLC
Avion Federal 301H
Lea County, New Mexico
32.2960922, -103.6550313



Hydrology Map

COG Operating, LLC
Avion Federal 301H
Lea County, New Mexico
32.2960922, -103.6550313

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 543057

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 543057
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2535249646
Incident Name	NAPP2535249646 AVION FEDERAL 301H @ FAPP2129336058
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2129336058] Avion Federal 301H - RT BTTY

Location of Release Source

Please answer all the questions in this group.

Site Name	Avion Federal 301H
Date Release Discovered	12/17/2025
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

Incident Type	Release Other
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

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	Cause: Overflow - Tank, Pit, Etc. Tank (Any) Crude Oil Released: 5 BBL Recovered: 4 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. Tank (Any) Produced Water Released: 232 BBL Recovered: 232 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
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)	Full release was within a lined facility.

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 543057

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 543057
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear 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: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
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	Full release was within a lined facility.

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: Jacob Laird Title: Environmental Engineer Email: jacob.laird@conocophillips.com Date: 01/14/2026
--	---

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 543057

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	543057
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Site Characterization	
<i>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.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
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)	Between 1 and 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	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between ½ and 1 (mi.)
A wetland	Between 1 and 5 (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	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>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.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	Yes
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	01/09/2026
On what date will (or did) the final sampling or liner inspection occur	01/09/2026
On what date will (or was) the remediation complete(d)	01/09/2026
What is the estimated surface area (in square feet) that will be remediated	11715
What is the estimated volume (in cubic yards) that will be remediated	0
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<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/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 4

Action 543057

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 543057
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
Is (or was) there affected material present needing to be removed	Yes
Is (or was) there a power wash of the lined containment area (to be) performed	Yes
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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: Jacob Laird Title: Environmental Engineer Email: jacob.laird@conocophillips.com Date: 01/14/2026
<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/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 6

Action 543057

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 543057
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Liner Inspection Information	
Last liner inspection notification (C-141L) recorded	540822
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	01/09/2026
Was all the impacted materials removed from the liner	Yes
What was the liner inspection surface area in square feet	11715

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	Yes
What was the total surface area (in square feet) remediated	11715
What was the total volume (cubic yards) remediated	0
Summarize any additional remediation activities not included by answers (above)	Liner integrity inspection activities were conducted following a release of produced water within a lined containment at the Site. Upon inspection, no rips, tears, holes, or damage was observed, and the liner was determined to be sufficient. The release was contained laterally by the lined containment and the liner was performing as designed.
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Jacob Laird Title: Environmental Engineer Email: jacob.laird@conocophillips.com Date: 01/14/2026

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

CONDITIONS

Action 543057

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 543057
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	1/16/2026