



March 14, 2025

NM Oil Conservation Division  
Environmental Bureau  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

RE: Remediation and Reclamation Closure Report  
Incident ID: NPAC0616541526  
Coogan Federal #003  
Well API: 30-025-30640  
Lat/Long: 32.5142746, -103.1220551  
Project ID: contango-reclaim-cooganFed3  
Unit/Township/Range/Section: UL L, Sec. 01, T21S, R37E.

NMOCD:

McNabb Partners LLC submits this closure request for the above incident on behalf of Contango Resources, LLC. This report includes site assessment, remediation actions, confirmation sampling activities and reclamation activities conducted at the Coogan Federal #003 site. The release occurred on June 14<sup>th</sup>, 2006, due to a leak from a stuffing box. Approximately 1 bbl of crude oil was released around the wellhead.

## 1. Site Characterization

Based on a review of the USGS and NMOSE groundwater databases, there are 2 known groundwater sources within ½-mile of the site. Neither of those wells have recorded groundwater or boring well logs on file. The nearest OSE monitoring well with a recorded depth-to-groundwater (L-13546, drilled 06/17/2024, total depth – 75.88 feet, depth-to-water 72 feet) is located 1.08 miles northwest of the location and shown on Plat 2.

The site is located more than 200 feet from a lakebed, sinkhole, or playa lake, and over 300 feet from any occupied residence, school, hospital, institution, church, or wetland. The site is over 1,000 feet from a freshwater well or spring and is not within a 100-year floodplain or above a subsurface mine. The Site is located within a low karst potential geological area.

As depth to water is undetermined within a ½-mile radius of the site, the impacted area has been remediated to the most stringent closure criteria:



Coogan Federal #003  
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DTW - Unknown	Chloride (mg/kg)	GRO+DRO (mg/kg)	TPH Ext. (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)
0 - 4 feet	600	--	100	10	50
> 4 feet	600	--	100	10	50

## 2. Initial Site Assessment and EM Survey

Prior to the start of the initial delineation sampling, the EM Survey was conducted to assist defining the extent of impacted soil and estimate chloride concentrations throughout the pad. The EM survey confirmed elevated chloride concentration around the plugged wellhead.

After reviewing the EM Survey data, initial characterization in the area of interest was conducted on February 6<sup>th</sup>, 2025. Four (4) horizontal delineation grab samples (i.e., CS-01 through CS-04) were collected adjacent to the area of interest at depths of 0.5 foot below ground surface (ft bgs). 2 vertical delineation grab samples (i.e., CS-05 through CS-06) were collected inside of the area of interest with a geotechnical hand auger at depths of 0.5 and 1 ft bgs at sample point CS-05, and 0.5, 1, 2, 3 and 4.5 ft bgs at sample point CS-06. The hand auger was decontaminated between each soil boring to prevent cross-contamination.

All samples were analyzed for BTEX, TPH and Chloride by Cardinal Laboratories. Analytical results indicated that all horizontal delineation samples (i.e., CS-01 through CS-04) were below constituent concentrations from Table I of 19.15.29 NMAC Closure Criteria. Samples CS-05 and CS-06 exceeded closure concentrations at depths between 0.5 and 3 ft bgs.

## 3. Remediation Activities and Confirmation Sampling

Following the review of initial delineation data, McNabb Partners on behalf of Contango Resources excavated impacted areas of sample points CS-05 and CS-06 to a depth of 4 ft bgs and hauled off for a proper disposal at NMOC approved facility. Remediation activities on the well site pad were completed on February 24<sup>th</sup>, 2025.

The confirmation sampling event was conducted on February 24<sup>th</sup>, 2025. The confirmation soil samples (5-point composite) were collected from areas not greater than 200 square feet from the excavation bases and sidewalls, and analyzed for TPH, BTEX and chloride by a certified laboratory. 4 confirmation samples (i.e., BS-01 through BS-04) were collected from the base of the excavation at 4 ft bgs and 4 confirmation samples (i.e., WS-01 through WS-04) were collected from side walls of the excavation. Analytical results indicate that all base and side wall confirmation sample meet the closure criteria for the Site, therefore all impacted soil was removed.

- Plats 1a, 1b, 1c shows the site map of the entire Coogan Federal #003 well pad, and the EM survey visual results for chloride concentrations assessment.
- Plats 2 through 9 include the site characterization information.
- Plat 10 shows the initial site assessment map.

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NPAC0616541526

- Plat 11 shows final confirmation sample locations along with the excavation depths.
- Complete analytical summary of all delineation and confirmation sample results is included in Table A Summary of Analytical.
- Figures 1 through 12 show the view of the remediation and reclamation activities.
- All sampling notifications are included in Appendix A.
- The referenced above well log is attached in Appendix B.
- Certificate of Analysis and laboratory reports are included in Appendix C.

#### 4. Reclamation Activities

After all remediation activities were completed and all impacted material hauled off to a disposal facility, the site has been reclaimed in accordance with 19.15.29.13 NMAC. The excavation was backfilled with locally sourced, clean, non-impacted material. The soil flipping was completed with unsuitable caliche soils (clean caliche pad material with chloride concentrations below 600 mg/kg) excavated and encapsulated, and suitable topsoil placed over the encapsulated materials to restore the original landform matching the background thickness. The reclaimed access road was fenced off to prevent vehicles from entering the reclaimed area.

The reclaimed area was seeded on February 28<sup>th</sup>, 2025, using a drill seeder at twice the recommended rate with the NMSLO-approved Sandy seed mixture. The reclaimed areas were watered to promote seed germination.

#### 5. Closure Request

Remediation Closure Request	
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?	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized?	Yes
What was the total surface area (in sq ft) remediated?	800
What was the total volume (cubic yards) remediated?	119
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of 4 ft non waste containing material with concentration less than 600 mg/kg chlorides?	Yes
What was the total surface area (in sq ft) reclaimed?	800
What was the total volume (in cubic yards) reclaimed?	119
Summarize any additional remediation activities not included in answers above	Excavation and disposal



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Overall, 800 square feet of impacted soil surface has been remediated and reclaimed. 119 cubic yards of impacted soil have been hauled off for a proper disposal at R360 Halfway Disposal and Landfill (fEEM0112334510).

On behalf of Contango Resources LLC, we respectfully request closure for the incident ID: NPAC0616541526. Based on the confirmation samples analytical results of remediation and reclamation activities, the Site is compliant with applicable closure requirements set forth in rule 19.15.19.12 NMAC and 19.15.29.13 NMAC and no further actions are required at the site.

A re-vegetation report will be submitted for approval once uniform vegetative cover has been established, meeting a life-form ratio within  $\pm 50\%$  of pre-disturbance levels and a total plant cover of at least 70% of pre-disturbance levels, excluding noxious weeds.

Please contact me with any questions.

Sincerely,

Dimitry Nikanorov  
Project Manager  
McNabb Partners  
(917) 497-6890



Copy: Caleb Cooley, Contango Resources, LLC



Coogan Federal #003  
NPAC0616541526

Figure 1. View of the excavation.



Figure 2. View of the excavation.



Figure 3. View of the excavation.



Figure 4. View of the excavation.



Figure 5. View of the excavation.



Figure 6. View of the excavation.



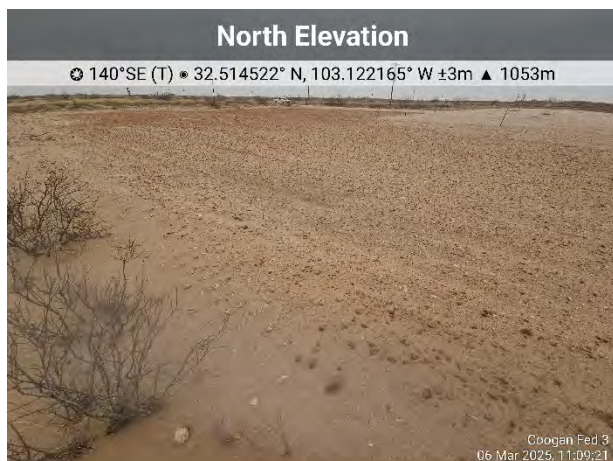
Coogan Federal #003  
NPAC0616541526

Figure 7. Reclamation activities.

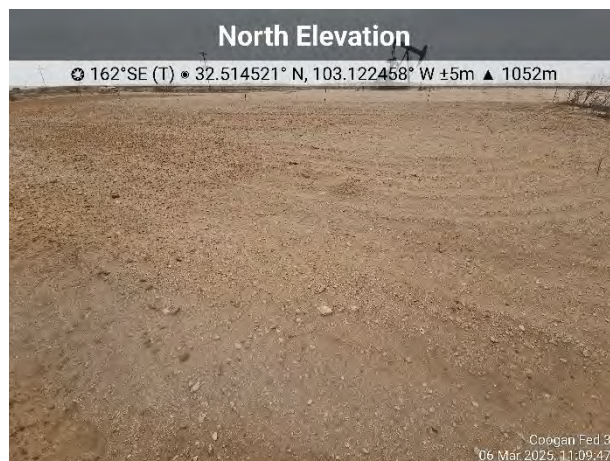


Figure 8. Reclamation activities.

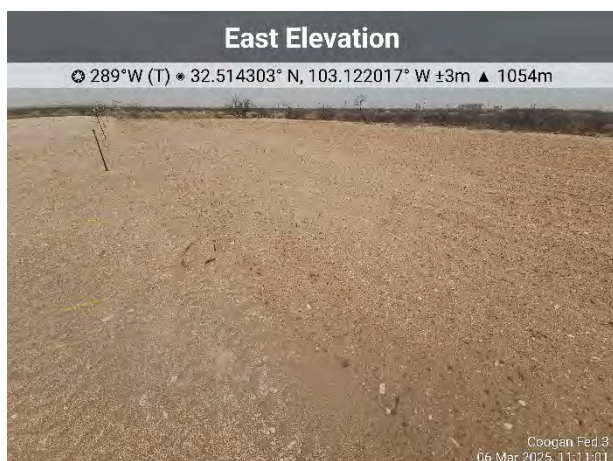


Figure 9. Reclamation activities.

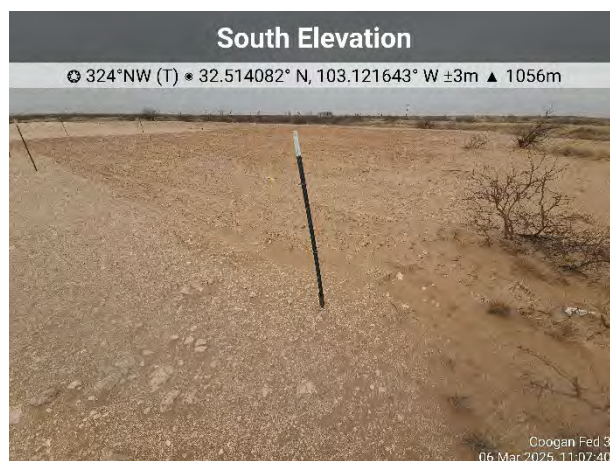


Figure 10. Reclamation activities.

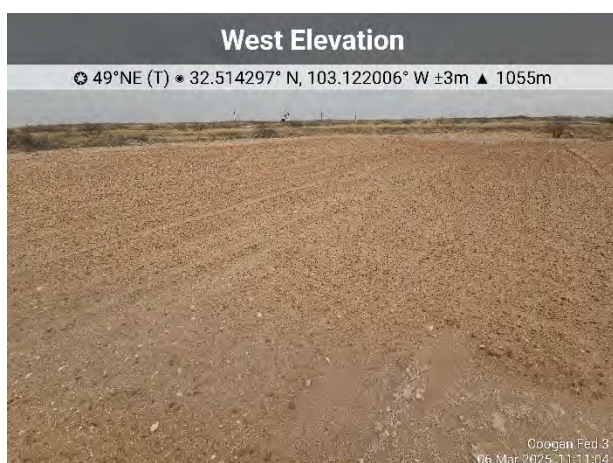


Figure 11. Reclamation activities.

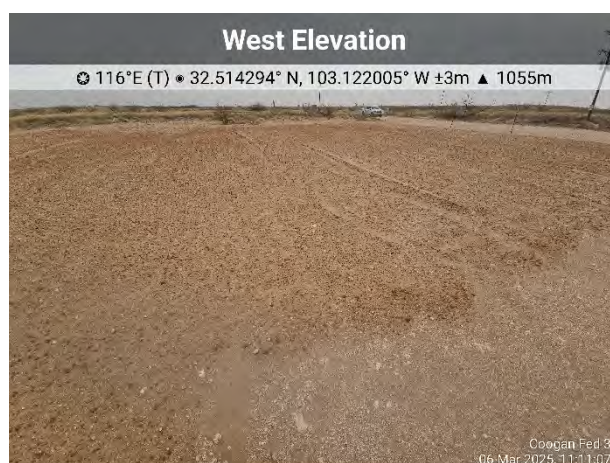


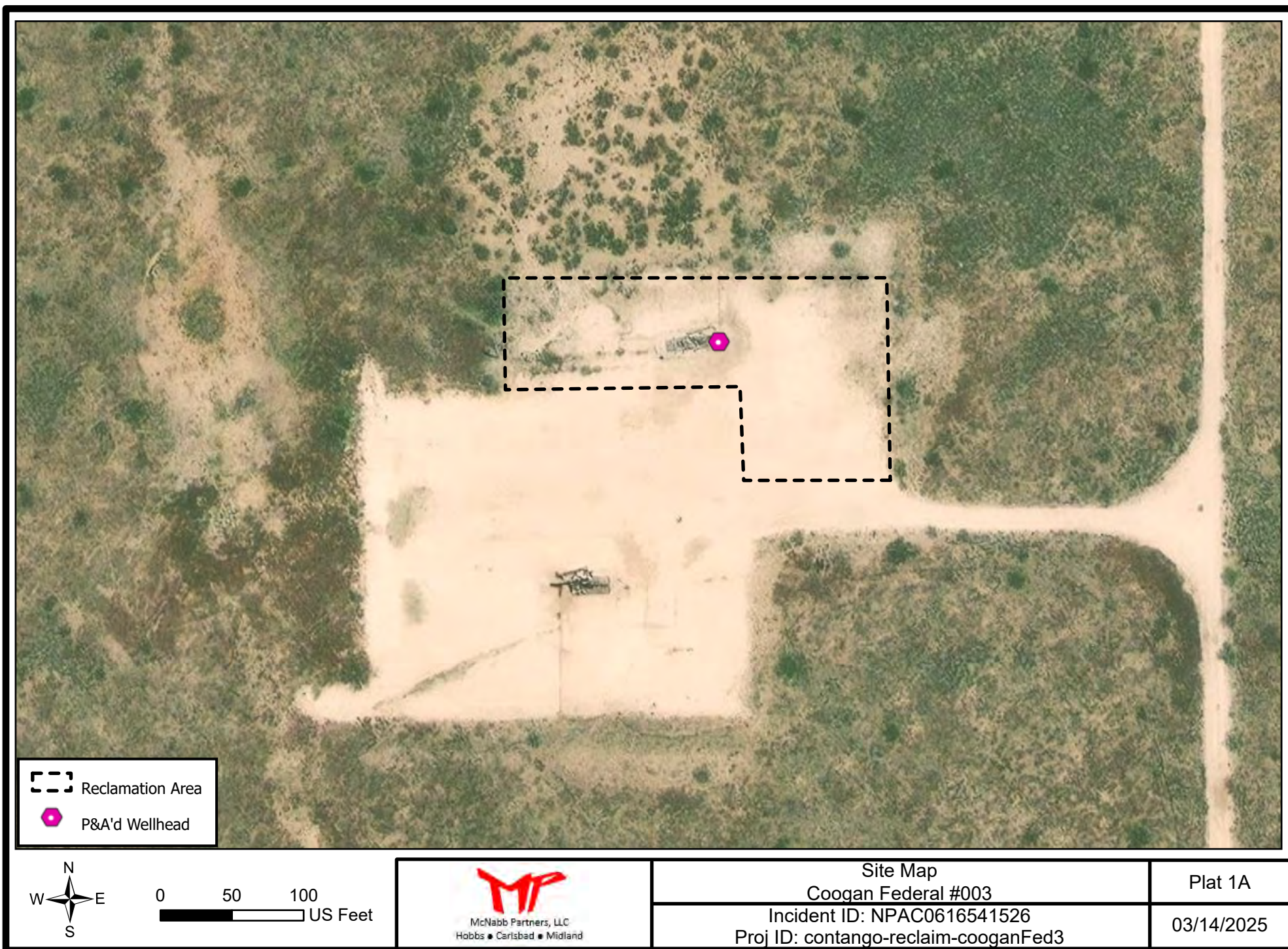
Figure 12. Reclamation activities.

# Plats

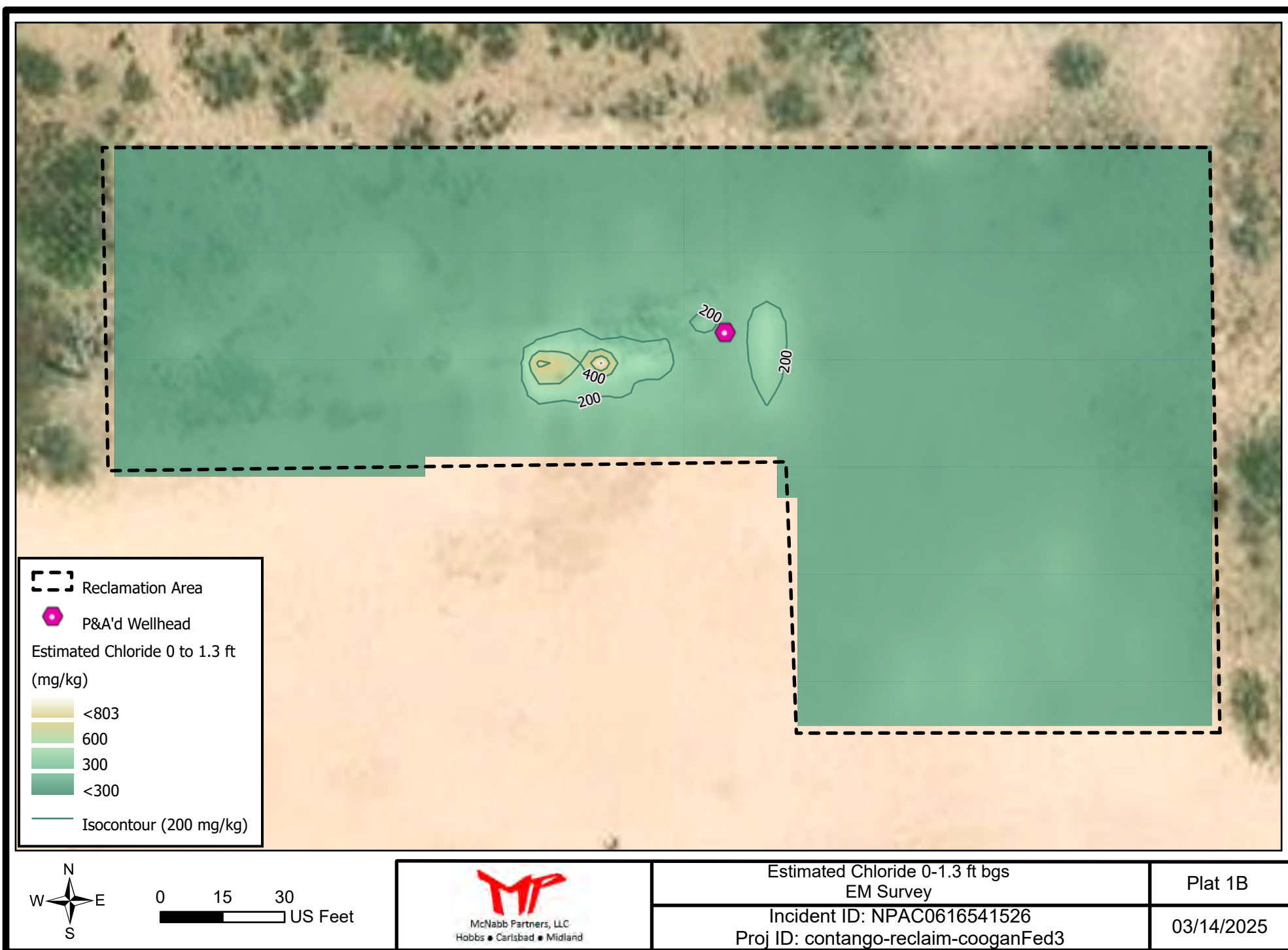


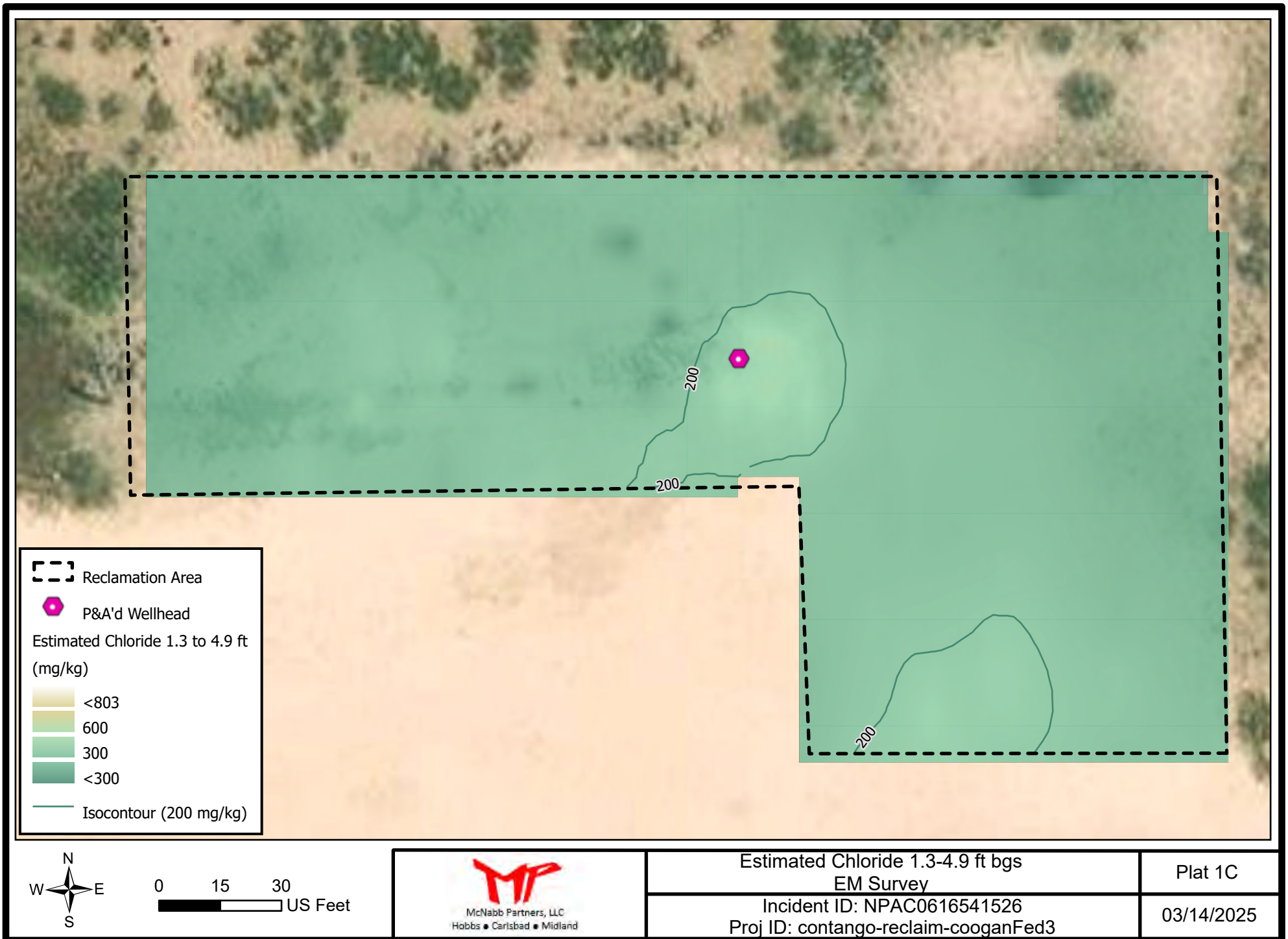
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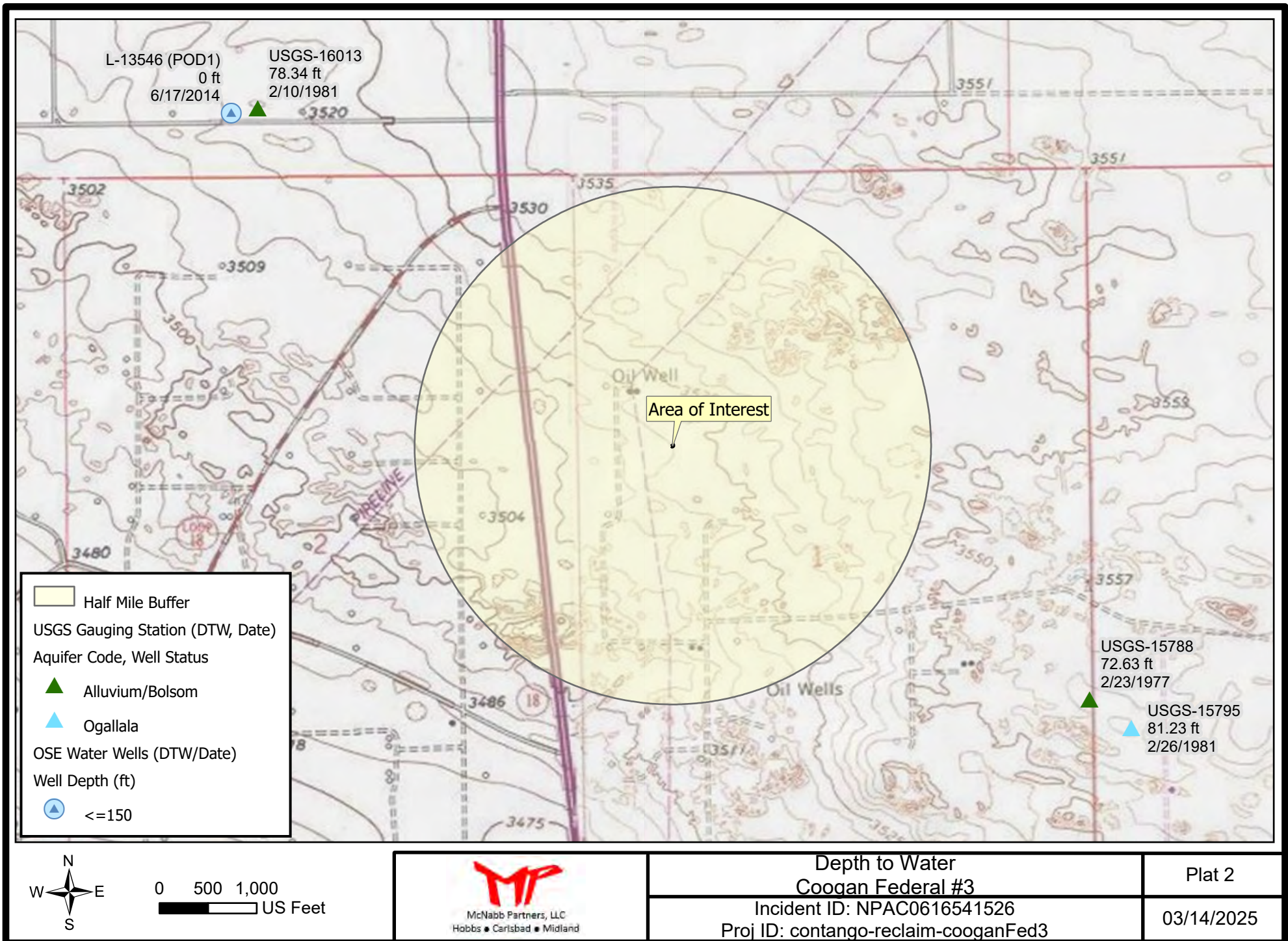




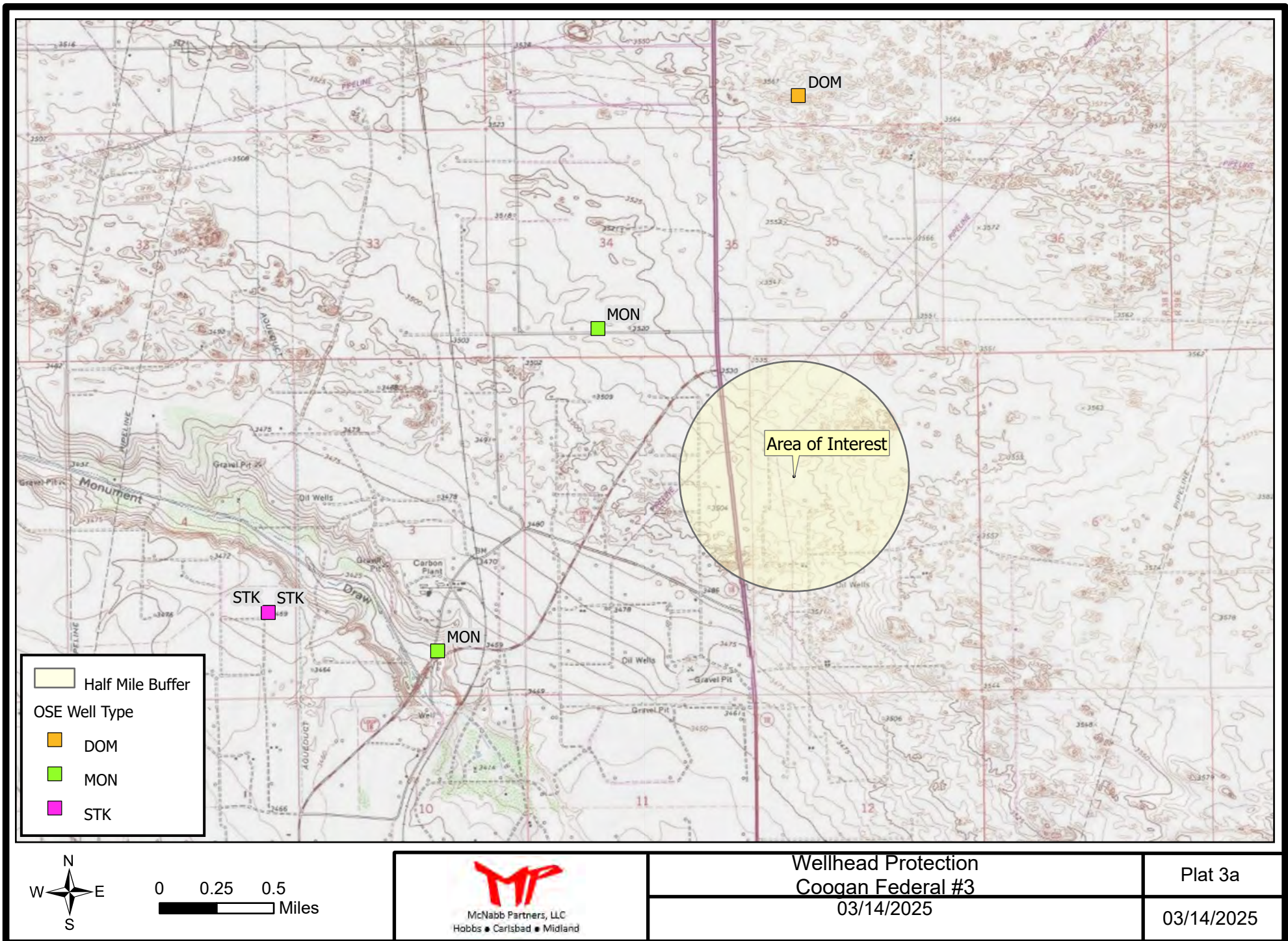




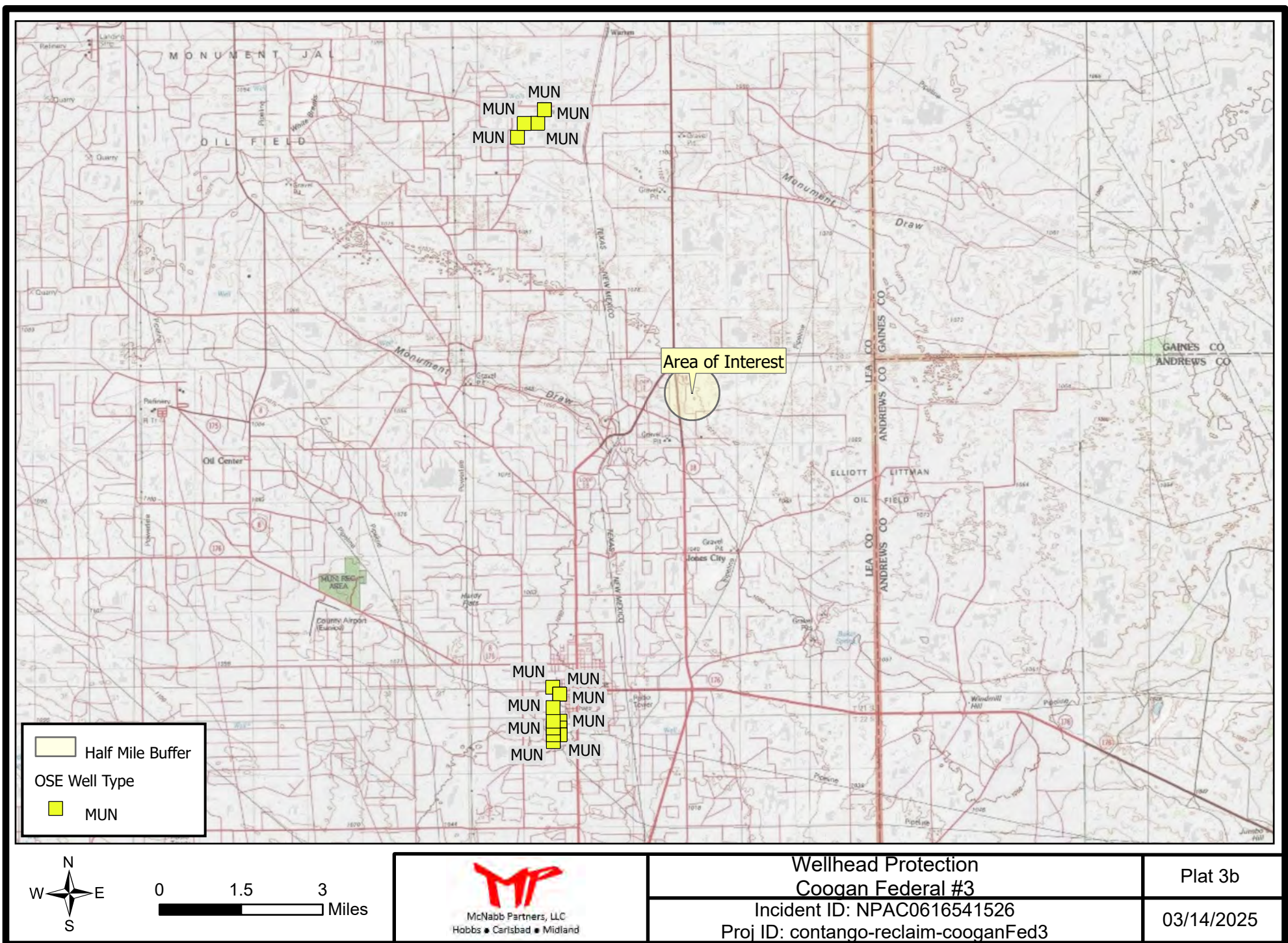




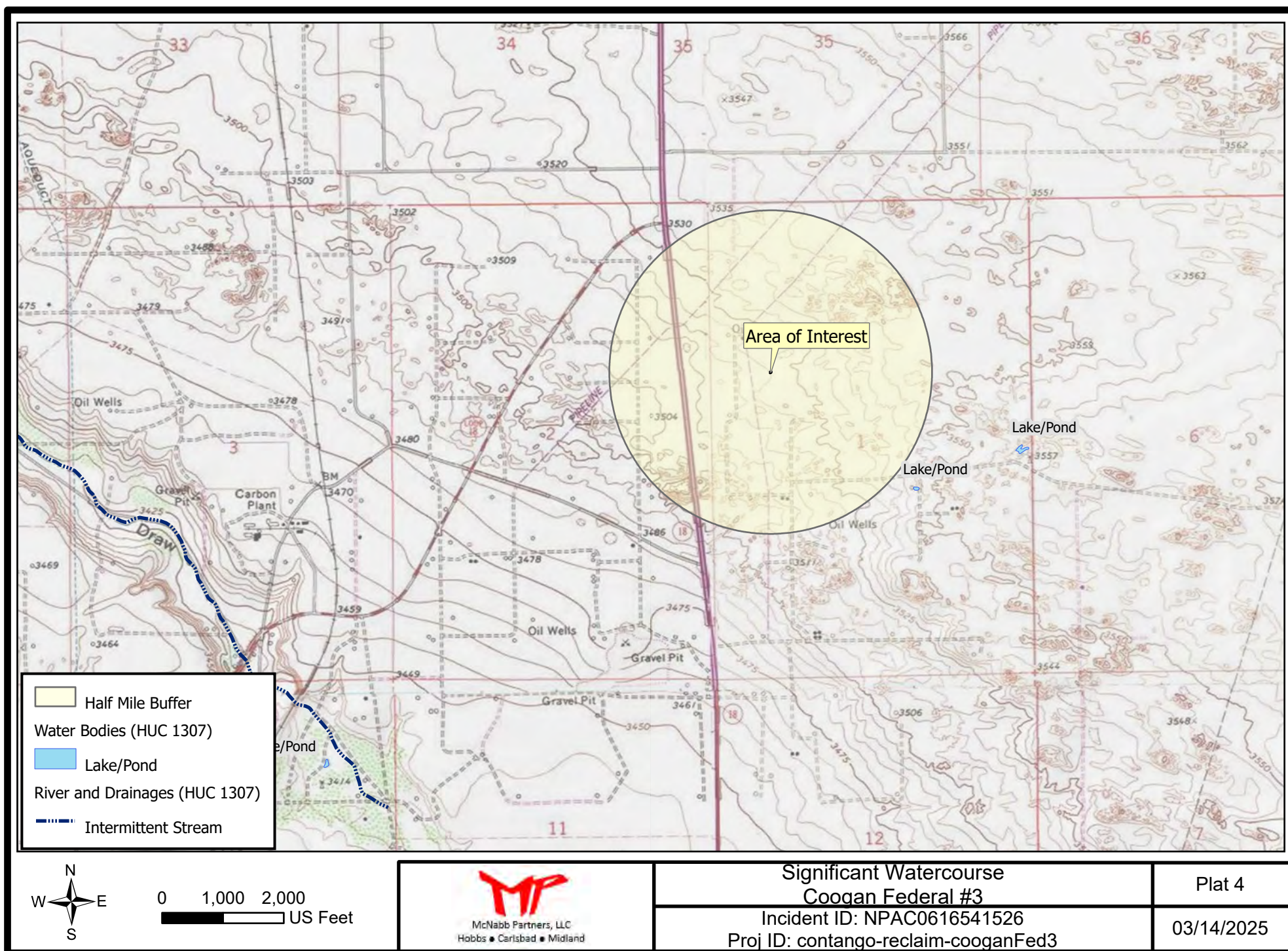




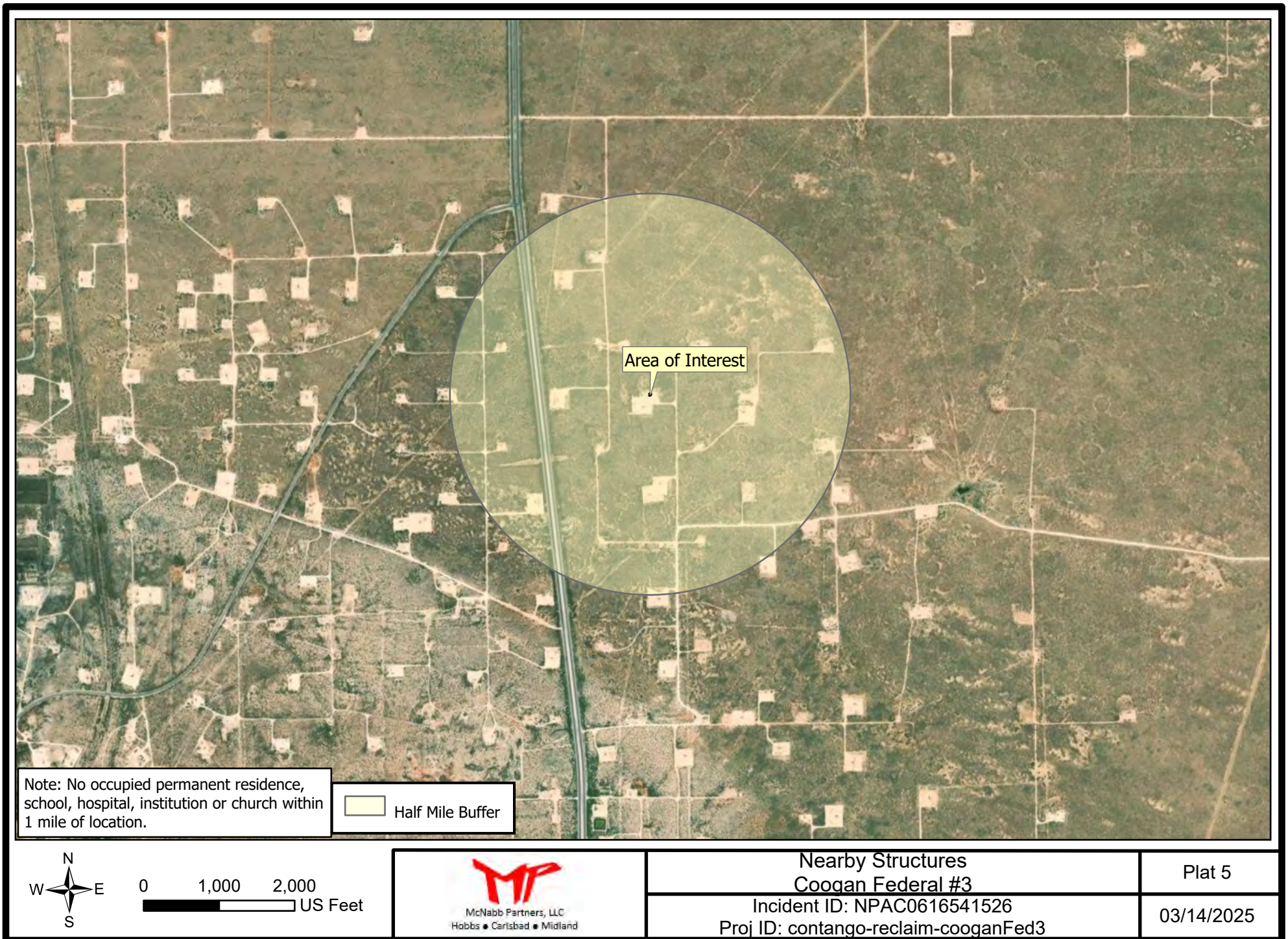








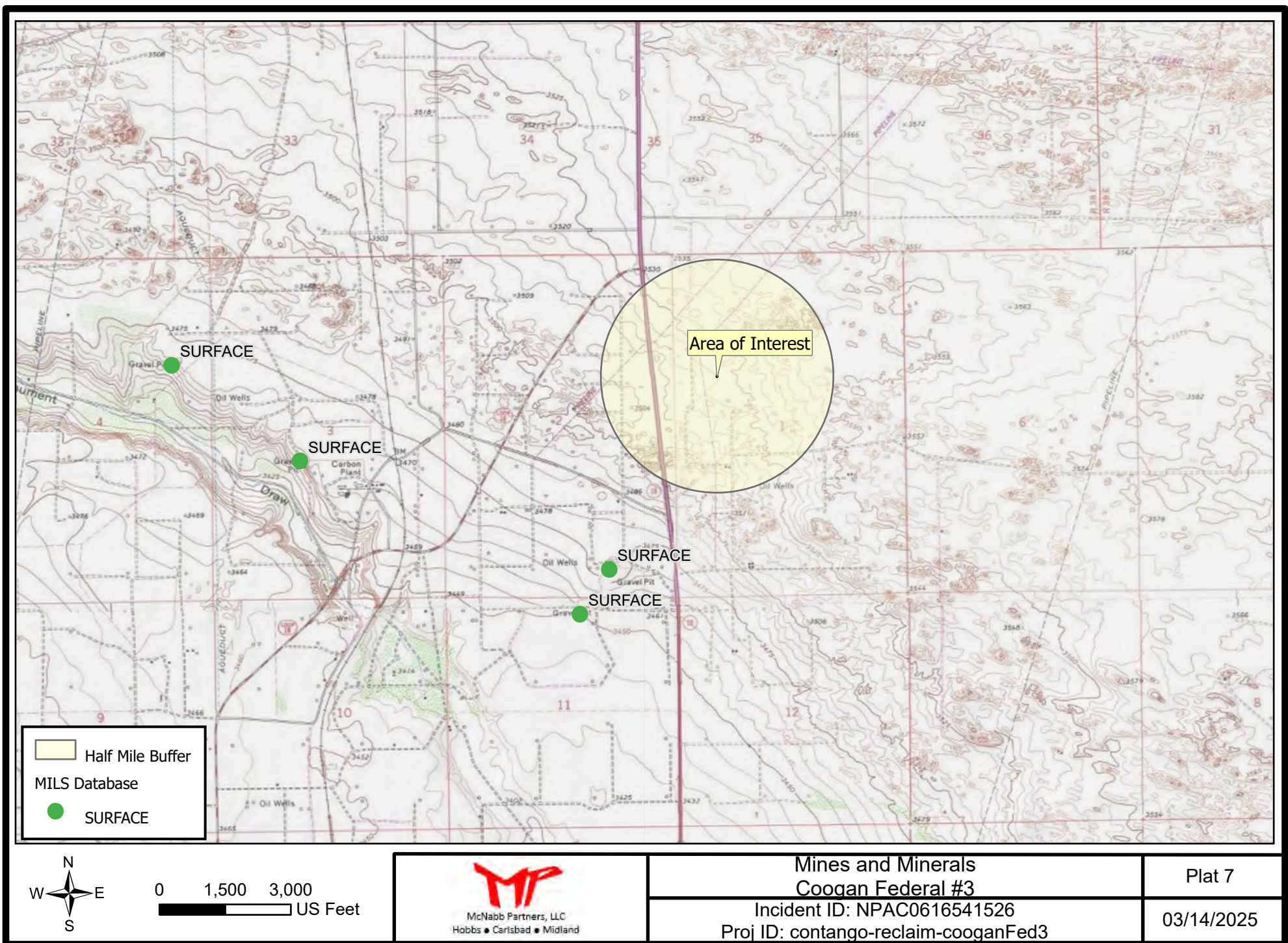




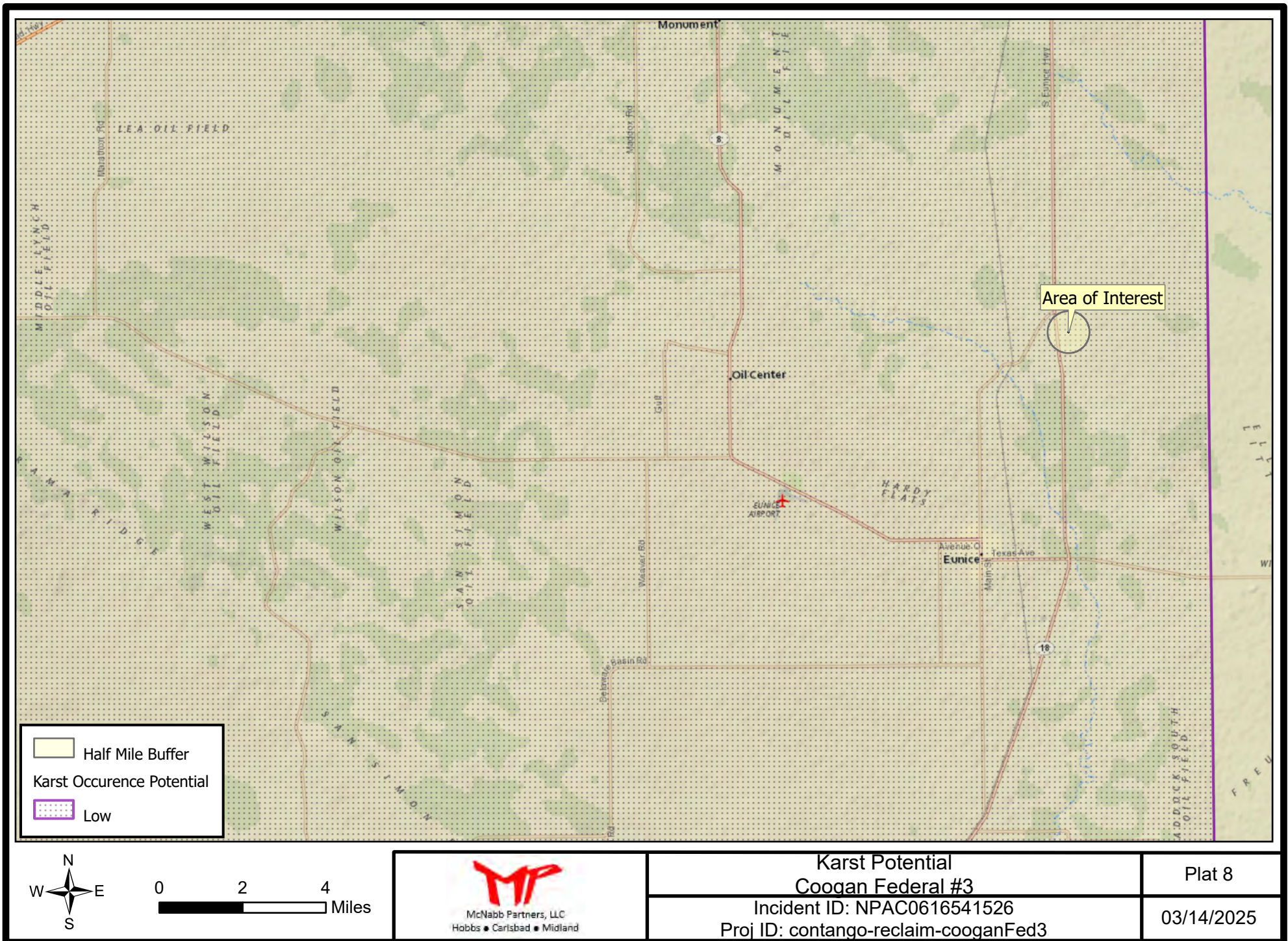




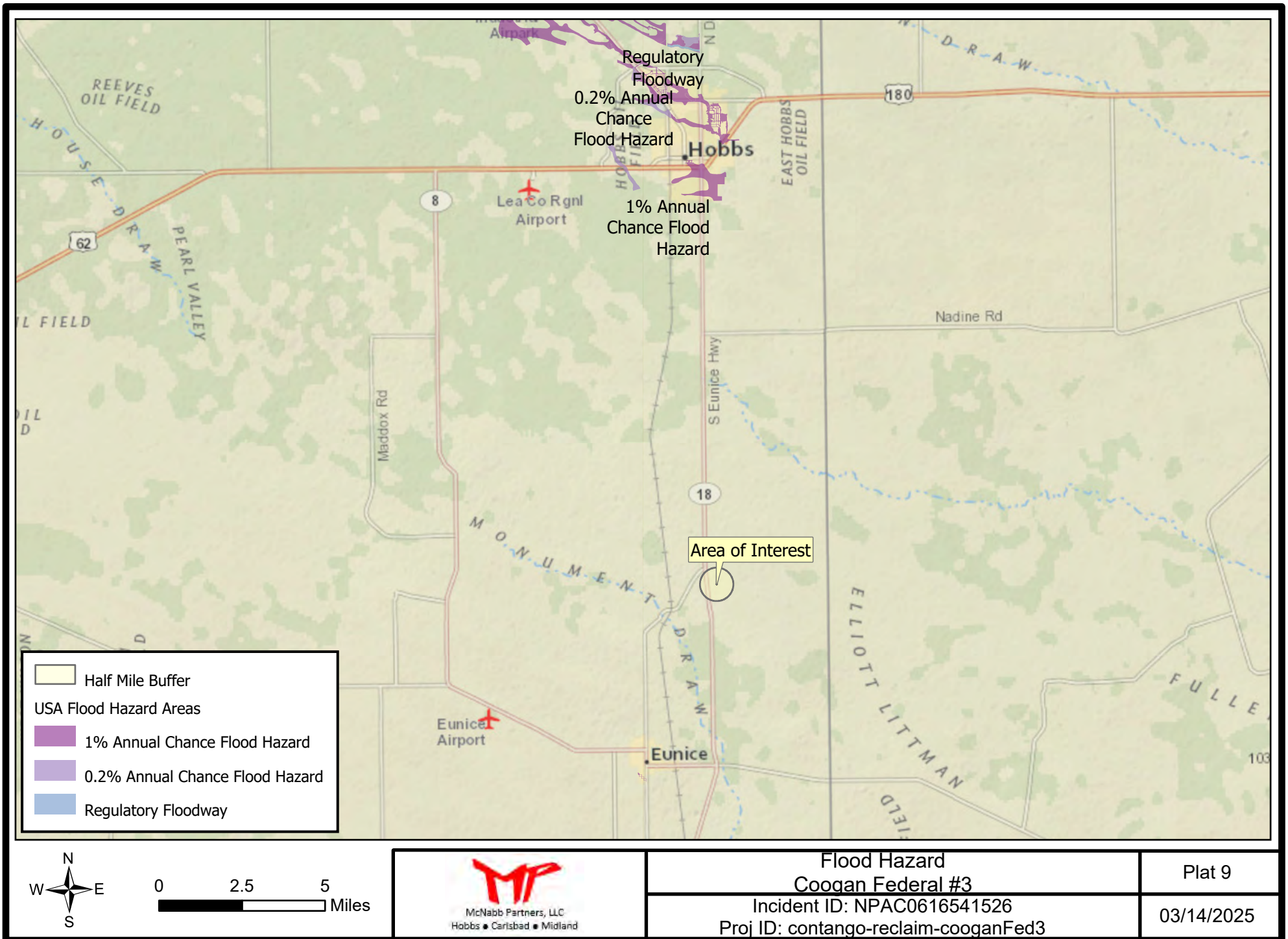


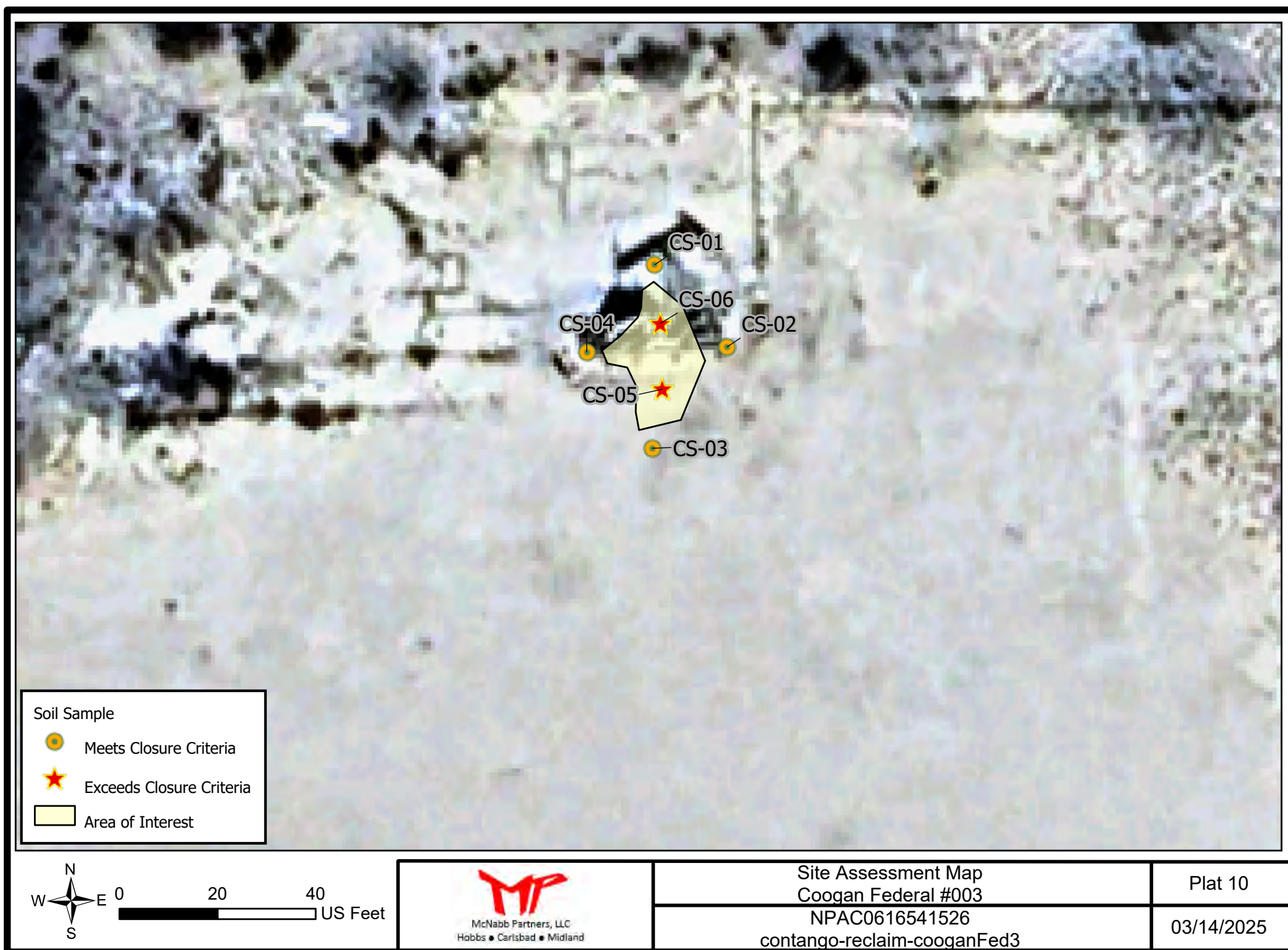




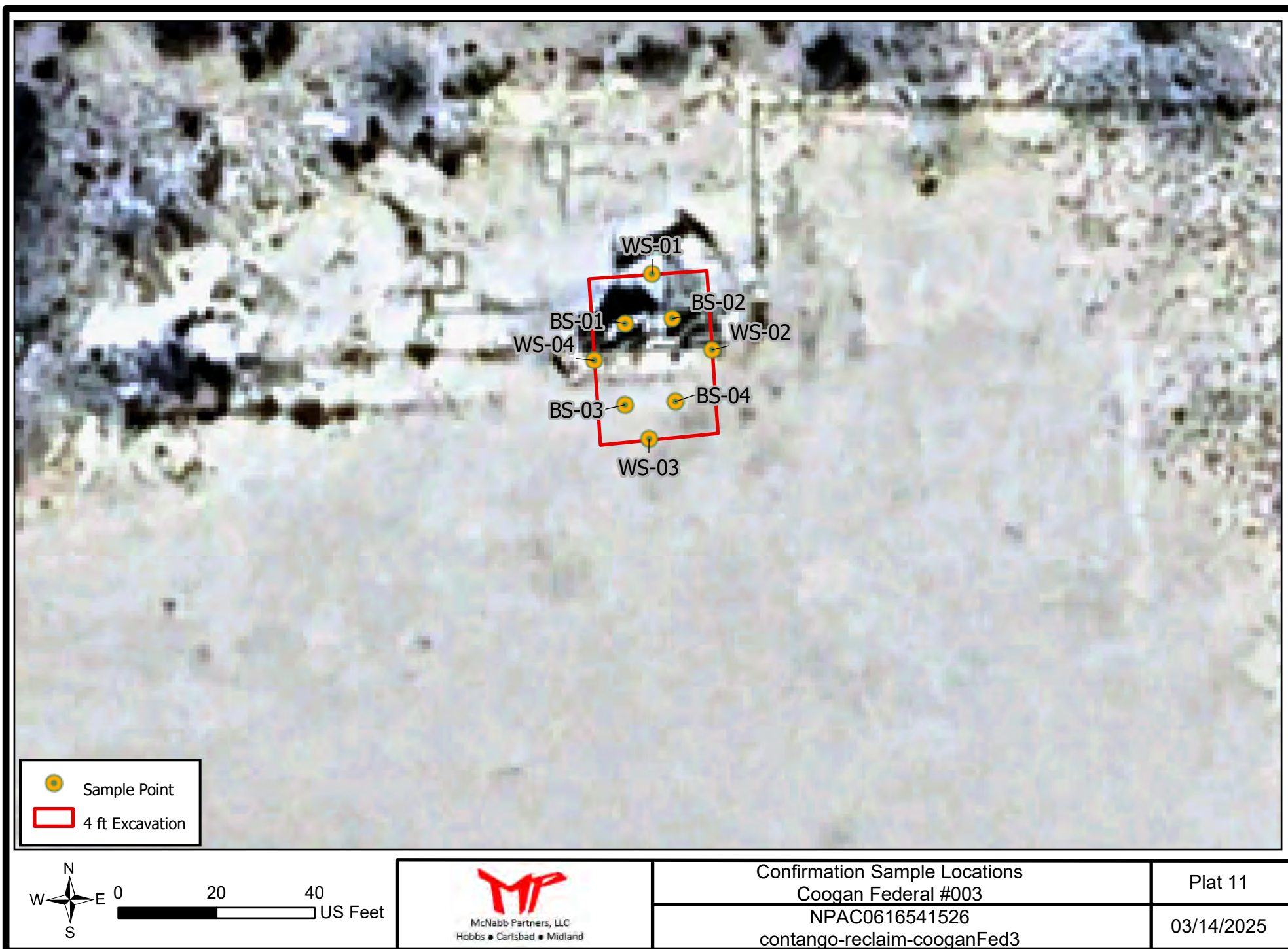












# Tables



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Table A. Analytical Summary  
Coogan Federal #003

Sample ID	Date	Depth (Feet)	Chloride (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	GRO+DRO (mg/kg)	MRO (mg/kg)	TPH Ext. (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)
NMOCD Closure Criteria			600			--		100	10	50
Initial Site Assessment Samples										
CS-01	2/6/2025	0.5'	<16	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
CS-02	2/6/2025	0.5'	48	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
CS-03	2/6/2025	0.5'	32	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
CS-04	2/6/2025	0.5'	32	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
CS-05	2/6/2025	0.5'	656	<10.0	20300	20300	6190	26490	<0.050	<0.300
CS-05	2/6/2025	1'	768	<10.0	7590	7590	2720	10310	<0.050	<0.300
CS-06	2/6/2025	0.5'	352	1600	13600	15200	2650	17850	0.167	28.8
CS-06	2/6/2025	1'	368	<10.0	1950	1950	869	2819	<0.050	0.988
CS-06	2/6/2025	2'	224	23.9	840	863.9	314	1177.9	<0.050	0.668
CS-06	2/6/2025	3'	240	<10.0	222	222	87.1	309.1	<0.050	<0.300
CS-06	2/6/2025	4.5'	368	<10.0	32.3	32.3	10.6	42.9	<0.050	<0.300
Confirmation Excavation Side Wall Samples										
WS-01	2/24/2025	0-4'	304	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
WS-02	2/24/2025	0-4'	112	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
WS-03	2/24/2025	0-4'	400	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
WS-04	2/24/2025	0-4'	544	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
Confirmation Excavation Base Samples										
BS-01	2/24/2025	4'	48	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
BS-02	2/24/2025	4'	80	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
BS-03	2/24/2025	4'	64	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
BS-04	2/24/2025	4'	464	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
Legend:										
Sample exceeds NMOCD Closure Criteria										
Sample point has been excavated										

# Appendix A

## Communications



McNabb Partners, LLC  
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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 433940

**QUESTIONS**

Operator: Contango Resources, LLC 3230 Camp Bowie Blvd FORT WORTH, TX 76107	OGRID: 330447
	Action Number: 433940
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nPAC0616541526
Incident Name	NPAC0616541526 COOGAN FEDERAL #003 @ 30-025-30640
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-30640] COOGAN FEDERAL #003

Location of Release Source	
Site Name	COOGAN FEDERAL #003
Date Release Discovered	06/01/2006
Surface Owner	Unavailable.

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	800
What is the estimated number of samples that will be gathered	8
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/24/2025
Time sampling will commence	12:30 PM
Please provide any information necessary for observers to contact samplers	Please contact Dmitry Nikanorov at 917-497-6890 or <a href="mailto:dimitry@mcnabbpartners.com">dimitry@mcnabbpartners.com</a> if needed
Please provide any information necessary for navigation to sampling site	Gps coordinates: 32.514372, -103.122050

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 433940

CONDITIONS

Operator: Contango Resources, LLC 3230 Camp Bowie Blvd FORT WORTH, TX 76107	OGRID: 330447
	Action Number: 433940
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
dnikanorov24	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	2/20/2025



# Appendix B

## Well Log



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# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) MW-1				OSE FILE NUMBER(S) L-13546			
	WELL OWNER NAME(S) Conoco Phillips				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS HC 60, Box 66				CITY Lovington		STATE NM	ZIP 88260
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 31	SECONDS 25.98 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE 103	8	11.85 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Warren Unit 13								
2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD-1456		NAME OF LICENSED DRILLER John W. White			NAME OF WELL DRILLING COMPANY White Drilling Company, Inc.		
	DRILLING STARTED 6/17/2014		DRILLING ENDED 6/17/2014		DEPTH OF COMPLETED WELL (FT) 88.0	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT) 72.0	
	COMPLETED WELL IS: <input type="radio"/> ARTESIAN <input type="radio"/> DRY HOLE <input checked="" type="radio"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) 75.88		
	DRILLING FLUID: <input checked="" type="radio"/> AIR <input type="radio"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> 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	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0.0 56.0		6.0	Sch. 40 PVC	Threads	2.0	1/4"	
	56.0 86.0		6.0	Sch. 40 PVC	Threads	2.0	1/4"	.010
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		
	52.0 88.0		6.0	20/40 Sand	12 Sacks	Hand Mix		
	52.0 48.0		6.0	Bentonite Chips	6 Sacks	Hand Mix		
	48.0 8.0		6.0	Type 2 Portland Cement w/5% Bentonite	6.52 Gal.	Pump Mix w/Trem		
	8.0 0.0		6.0	Cement	1.5976	Pump Mix w/Trem		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION	PAGE 1 OF 2	



Released to Imaging: 8/12/2025 9:06:48 AM

# Appendix C

## Chains of Custodies and Laboratory Reports



McNabb Partners, LLC  
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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 12, 2025

DIMITRY NIKANOROV

MC NABB SERVICES

P. O. BOX 5753

HOBBS, NM 88240

RE: CONTANGO - RECLAIM - COOGAN FED 3

Enclosed are the results of analyses for samples received by the laboratory on 02/06/25 15:46.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	02/06/2025	Sampling Date:	02/06/2025
Reported:	02/12/2025	Sampling Type:	Soil
Project Name:	CONTANGO - RECLAIM - COOGAN FED 3	Sampling Condition:	Cool & Intact
Project Number:	COOGAN FED 3	Sample Received By:	Alyssa Parras
Project Location:	CONTANGO		

**Sample ID: CS - 01 0.5 FT (H250745-01)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/08/2025	ND	2.06	103	2.00	6.20		
Toluene*	<0.050	0.050	02/08/2025	ND	2.21	110	2.00	6.48		
Ethylbenzene*	<0.050	0.050	02/08/2025	ND	2.17	109	2.00	6.30		
Total Xylenes*	<0.150	0.150	02/08/2025	ND	6.66	111	6.00	6.25		
Total BTEX	<0.300	0.300	02/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/10/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2025	ND	192	96.0	200	0.908	
DRO >C10-C28*	<10.0	10.0	02/10/2025	ND	193	96.3	200	0.659	
EXT DRO >C28-C36	<10.0	10.0	02/10/2025	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	02/06/2025	Sampling Date:	02/06/2025
Reported:	02/12/2025	Sampling Type:	Soil
Project Name:	CONTANGO - RECLAIM - COOGAN FED 3	Sampling Condition:	Cool & Intact
Project Number:	COOGAN FED 3	Sample Received By:	Alyssa Parras
Project Location:	CONTANGO		

**Sample ID: CS - 02 0.5 FT (H250745-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/08/2025	ND	2.06	103	2.00	6.20		
Toluene*	<0.050	0.050	02/08/2025	ND	2.21	110	2.00	6.48		
Ethylbenzene*	<0.050	0.050	02/08/2025	ND	2.17	109	2.00	6.30		
Total Xylenes*	<0.150	0.150	02/08/2025	ND	6.66	111	6.00	6.25		
Total BTEX	<0.300	0.300	02/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/10/2025	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2025	ND	192	96.0	200	0.908	
DRO >C10-C28*	<10.0	10.0	02/10/2025	ND	193	96.3	200	0.659	
EXT DRO >C28-C36	<10.0	10.0	02/10/2025	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	02/06/2025	Sampling Date:	02/06/2025
Reported:	02/12/2025	Sampling Type:	Soil
Project Name:	CONTANGO - RECLAIM - COOGAN FED 3	Sampling Condition:	Cool & Intact
Project Number:	COOGAN FED 3	Sample Received By:	Alyssa Parras
Project Location:	CONTANGO		

**Sample ID: CS - 03 0.5 FT (H250745-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/08/2025	ND	2.06	103	2.00	6.20		
Toluene*	<0.050	0.050	02/08/2025	ND	2.21	110	2.00	6.48		
Ethylbenzene*	<0.050	0.050	02/08/2025	ND	2.17	109	2.00	6.30		
Total Xylenes*	<0.150	0.150	02/08/2025	ND	6.66	111	6.00	6.25		
Total BTEX	<0.300	0.300	02/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/10/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2025	ND	192	96.0	200	0.908	
DRO >C10-C28*	<10.0	10.0	02/10/2025	ND	193	96.3	200	0.659	
EXT DRO >C28-C36	<10.0	10.0	02/10/2025	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	02/06/2025	Sampling Date:	02/06/2025
Reported:	02/12/2025	Sampling Type:	Soil
Project Name:	CONTANGO - RECLAIM - COOGAN FED 3	Sampling Condition:	Cool & Intact
Project Number:	COOGAN FED 3	Sample Received By:	Alyssa Parras
Project Location:	CONTANGO		

**Sample ID: CS - 04 0.5 FT (H250745-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/08/2025	ND	2.06	103	2.00	6.20		
Toluene*	<0.050	0.050	02/08/2025	ND	2.21	110	2.00	6.48		
Ethylbenzene*	<0.050	0.050	02/08/2025	ND	2.17	109	2.00	6.30		
Total Xylenes*	<0.150	0.150	02/08/2025	ND	6.66	111	6.00	6.25		
Total BTEX	<0.300	0.300	02/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/10/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2025	ND	192	96.0	200	0.908	
DRO >C10-C28*	<10.0	10.0	02/10/2025	ND	193	96.3	200	0.659	
EXT DRO >C28-C36	<10.0	10.0	02/10/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	02/06/2025	Sampling Date:	02/06/2025
Reported:	02/12/2025	Sampling Type:	Soil
Project Name:	CONTANGO - RECLAIM - COOGAN FED 3	Sampling Condition:	Cool & Intact
Project Number:	COOGAN FED 3	Sample Received By:	Alyssa Parras
Project Location:	CONTANGO		

**Sample ID: CS - 05 0.5 FT (H250745-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/09/2025	ND	2.06	103	2.00	6.20		
Toluene*	<0.050	0.050	02/09/2025	ND	2.21	110	2.00	6.48		
Ethylbenzene*	<0.050	0.050	02/09/2025	ND	2.17	109	2.00	6.30		
Total Xylenes*	<0.150	0.150	02/09/2025	ND	6.66	111	6.00	6.25		
Total BTEX	<0.300	0.300	02/09/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	02/10/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	02/10/2025	ND	192	96.0	200	0.908	
DRO >C10-C28*	20300	100	02/10/2025	ND	193	96.3	200	0.659	
EXT DRO >C28-C36	6190	100	02/10/2025	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 420 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	02/06/2025	Sampling Date:	02/06/2025
Reported:	02/12/2025	Sampling Type:	Soil
Project Name:	CONTANGO - RECLAIM - COOGAN FED 3	Sampling Condition:	Cool & Intact
Project Number:	COOGAN FED 3	Sample Received By:	Alyssa Parras
Project Location:	CONTANGO		

**Sample ID: CS - 05 1 FT (H250745-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/09/2025	ND	2.06	103	2.00	6.20		
Toluene*	<0.050	0.050	02/09/2025	ND	2.21	110	2.00	6.48		
Ethylbenzene*	<0.050	0.050	02/09/2025	ND	2.17	109	2.00	6.30		
Total Xylenes*	<0.150	0.150	02/09/2025	ND	6.66	111	6.00	6.25		
Total BTEX	<0.300	0.300	02/09/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	02/10/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	02/10/2025	ND	190	95.1	200	1.54	
DRO >C10-C28*	7590	100	02/10/2025	ND	183	91.5	200	0.558	QM-07
EXT DRO >C28-C36	2720	100	02/10/2025	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 268 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	02/06/2025	Sampling Date:	02/06/2025
Reported:	02/12/2025	Sampling Type:	Soil
Project Name:	CONTANGO - RECLAIM - COOGAN FED 3	Sampling Condition:	Cool & Intact
Project Number:	COOGAN FED 3	Sample Received By:	Alyssa Parras
Project Location:	CONTANGO		

**Sample ID: CS - 06 0.5 FT (H250745-07)**

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.167</b>	0.100	02/09/2025	ND	2.06	103	2.00	6.20	GC-NC1
<b>Toluene*</b>	<b>1.58</b>	0.100	02/09/2025	ND	2.21	110	2.00	6.48	GC-NC1
<b>Ethylbenzene*</b>	<b>4.57</b>	0.100	02/09/2025	ND	2.17	109	2.00	6.30	
<b>Total Xylenes*</b>	<b>22.4</b>	0.300	02/09/2025	ND	6.66	111	6.00	6.25	
<b>Total BTEx</b>	<b>28.8</b>	0.600	02/09/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 234 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>352</b>	16.0	02/10/2025	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>1600</b>	100	02/10/2025	ND	190	95.1	200	1.54	
<b>DRO &gt;C10-C28*</b>	<b>13600</b>	100	02/10/2025	ND	183	91.5	200	0.558	
<b>EXT DRO &gt;C28-C36</b>	<b>2650</b>	100	02/10/2025	ND					

Surrogate: 1-Chlorooctane 418 % 48.2-134

Surrogate: 1-Chlorooctadecane 192 % 49.1-148

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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	02/06/2025	Sampling Date:	02/06/2025
Reported:	02/12/2025	Sampling Type:	Soil
Project Name:	CONTANGO - RECLAIM - COOGAN FED 3	Sampling Condition:	Cool & Intact
Project Number:	COOGAN FED 3	Sample Received By:	Alyssa Parras
Project Location:	CONTANGO		

**Sample ID: CS - 06 1 FT (H250745-08)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/08/2025	ND	2.06	103	2.00	6.20		
Toluene*	<0.050	0.050	02/08/2025	ND	2.21	110	2.00	6.48		
Ethylbenzene*	0.427	0.050	02/08/2025	ND	2.17	109	2.00	6.30		
Total Xylenes*	0.562	0.150	02/08/2025	ND	6.66	111	6.00	6.25		
Total BTEX	0.988	0.300	02/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	02/10/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	02/10/2025	ND	190	95.1	200	1.54	
DRO >C10-C28*	1950	100	02/10/2025	ND	183	91.5	200	0.558	
EXT DRO >C28-C36	869	100	02/10/2025	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	02/06/2025	Sampling Date:	02/06/2025
Reported:	02/12/2025	Sampling Type:	Soil
Project Name:	CONTANGO - RECLAIM - COOGAN FED 3	Sampling Condition:	Cool & Intact
Project Number:	COOGAN FED 3	Sample Received By:	Alyssa Parras
Project Location:	CONTANGO		

**Sample ID: CS - 06 2 FT (H250745-09)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2025	ND	2.06	103	2.00	6.20	
Toluene*	<0.050	0.050	02/08/2025	ND	2.21	110	2.00	6.48	
Ethylbenzene*	0.257	0.050	02/08/2025	ND	2.17	109	2.00	6.30	
Total Xylenes*	0.411	0.150	02/08/2025	ND	6.66	111	6.00	6.25	
Total BTEX	0.668	0.300	02/08/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/10/2025	ND	448	112	400	0.00	

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	23.9	10.0	02/10/2025	ND	190	95.1	200	1.54	
DRO >C10-C28*	840	10.0	02/10/2025	ND	183	91.5	200	0.558	
EXT DRO >C28-C36	314	10.0	02/10/2025	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	02/06/2025	Sampling Date:	02/06/2025
Reported:	02/12/2025	Sampling Type:	Soil
Project Name:	CONTANGO - RECLAIM - COOGAN FED 3	Sampling Condition:	Cool & Intact
Project Number:	COOGAN FED 3	Sample Received By:	Alyssa Parras
Project Location:	CONTANGO		

**Sample ID: CS - 06 3 FT (H250745-10)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2025	ND	2.06	103	2.00	6.20	
Toluene*	<0.050	0.050	02/08/2025	ND	2.21	110	2.00	6.48	
Ethylbenzene*	0.067	0.050	02/08/2025	ND	2.17	109	2.00	6.30	
Total Xylenes*	<0.150	0.150	02/08/2025	ND	6.66	111	6.00	6.25	
Total BTEX	<0.300	0.300	02/08/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	02/10/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2025	ND	190	95.1	200	1.54	
DRO >C10-C28*	222	10.0	02/10/2025	ND	183	91.5	200	0.558	
EXT DRO >C28-C36	87.1	10.0	02/10/2025	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	02/06/2025	Sampling Date:	02/06/2025
Reported:	02/12/2025	Sampling Type:	Soil
Project Name:	CONTANGO - RECLAIM - COOGAN FED 3	Sampling Condition:	Cool & Intact
Project Number:	COOGAN FED 3	Sample Received By:	Alyssa Parras
Project Location:	CONTANGO		

**Sample ID: CS - 06 4.5 FT (H250745-11)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/08/2025	ND	2.06	103	2.00	6.20		
Toluene*	<0.050	0.050	02/08/2025	ND	2.21	110	2.00	6.48		
Ethylbenzene*	<0.050	0.050	02/08/2025	ND	2.17	109	2.00	6.30		
Total Xylenes*	<0.150	0.150	02/08/2025	ND	6.66	111	6.00	6.25		
Total BTEX	<0.300	0.300	02/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	02/10/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2025	ND	190	95.1	200	1.54	
DRO >C10-C28*	32.3	10.0	02/10/2025	ND	183	91.5	200	0.558	
EXT DRO >C28-C36	10.6	10.0	02/10/2025	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476

<b>Company Name:</b> McNabb Partners				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																				
<b>Project Manager:</b> Dmitry Nikanorov				<b>P.O. #:</b>																								
<b>Address:</b> 5014 W Carlsbad Hwy				<b>Company:</b> McNabb Partners																								
<b>City:</b> Hobbs		<b>State:</b> NM		<b>Zip:</b> 88240		<b>Attn:</b> <a href="mailto:Dimitry@mcnabbpartners">Dimitry@mcnabbpartners</a>																						
<b>Phone #:</b>		<b>Fax #:</b>		<b>Address:</b>		<b>City:</b>																						
<b>Project #:</b>		<b>Project Owner:</b>		<b>State:</b>		<b>Zip:</b>																						
<b>Project Name:</b> contango-reclaim-cooganFed3				<b>Phone #:</b>																								
<b>Project Location:</b> Coogan Fed 3				<b>Fax #:</b>																								
<b>Sampler Name:</b> Christopher Turner																												
FOR LAB USE ONLY				MATRIX				PRESERV.		SAMPLING																		
Lab I.D.		Sample I.D.		(G)RAB OR (C)JUMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH	Chloride	BTEX									
1250745 contango-reclaim-cooganFed3		CS-01		0.5 FT	G 1			x					x		2/6/25	10:12	x	x	x									
		CS-02		0.5 FT	G 1			x						x		2/6/25	10:26	x	x	x								
		CS-03		0.5 FT	G 1			x						x		2/6/25	10:33	x	x	x								
		CS-04		0.5 FT	G 1			x						x		2/6/25	10:49	x	x	x								
		CS-05		0.5 FT	G 1			x						x		2/6/25	11:35	x	x	x								
		CS-05		1 FT	G 1			x						x		2/6/25	11:42	x	x	x								
		CS-06		0.5 FT	G 1			x						x		2/6/25	12:15	x	x	x								
		CS-06		1 FT	G 1			x						x		2/6/25	12:22	x	x	x								
		CS-06		2 FT	G 1			x						x		2/6/25	12:37	x	x	x								
		CS-06		3 FT	G 1			x				x		2/6/25	12:43	x	x	x										

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<b>Relinquished By:</b>		<b>Date:</b>		<b>Received By:</b>		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b>		<b>All Results are emailed. Please provide Email address:</b>													
		2/6/25																			
		Time:																			
		1544																			
<b>Relinquished By:</b>		<b>Date:</b>		<b>Received By:</b>		<b>REMARKS:</b>															
<b>Delivered By: (Circle One)</b>		<b>Observed Temp. °C</b>		<b>Sample Condition</b>		<b>CHECKED BY:</b>		<b>Turnaround Time:</b>		<b>Standard</b>		<b>Bacteria (only) Sample Condition</b>									
Sampler - UPS - Bus - Other:		13.0		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		(Initials) AD		AD 2:725 Thermometer ID #140 Correction Factor -0.6°C +0.3°C		Kush <input checked="" type="checkbox"/>		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C									

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)




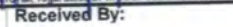



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(575) 393-2326 FAX (575) 393-2476

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Relinquished By: 		Date: 2-7-25 Time: 1:40		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address:			
Relinquished By:		Date: Time:		Received By:		REMARKS:			
Delivered By: (Circle One)		Observed Temp. °C 1.30		Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) 		Turnaround Time: Standard <input checked="" type="checkbox"/> Bacteria (only) Sample Condition Thermometer ID #140 Cool Intact Observed Temp. °C Correction Factor -0.5°C +0.3°C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	
Sampler - UPS - Bus - Other:		Corrected Temp. °C 1.0		<input type="checkbox"/> Yes <input type="checkbox"/> No		Corrected Temp. °C			

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 26, 2025

MARCUS GIPSON

MC NABB SERVICES

P. O. BOX 5753

HOBBS, NM 88240

RE: COOGAN FEDERAL #3

Enclosed are the results of analyses for samples received by the laboratory on 02/25/25 10:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

MC NABB SERVICES  
 MARCUS GIPSON  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	02/25/2025	Sampling Date:	02/24/2025
Reported:	02/26/2025	Sampling Type:	Soil
Project Name:	COOGAN FEDERAL #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EUNICE, NM LEA COUNTY		

**Sample ID: WS - 01 0-4' (H251093-01)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2025	ND	1.94	97.1	2.00	1.93		
Toluene*	<0.050	0.050	02/25/2025	ND	2.04	102	2.00	1.07		
Ethylbenzene*	<0.050	0.050	02/25/2025	ND	2.06	103	2.00	0.643		
Total Xylenes*	<0.150	0.150	02/25/2025	ND	6.27	105	6.00	0.584		
Total BTEX	<0.300	0.300	02/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	02/25/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2025	ND	200	100	200	6.47	
DRO >C10-C28*	<10.0	10.0	02/26/2025	ND	193	96.4	200	0.586	
EXT DRO >C28-C36	<10.0	10.0	02/26/2025	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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**Analytical Results For:**

MC NABB SERVICES  
 MARCUS GIPSON  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received: 02/25/2025  
 Reported: 02/26/2025  
 Project Name: COOGAN FEDERAL #3  
 Project Number: NONE GIVEN  
 Project Location: EUNICE, NM LEA COUNTY

Sampling Date: 02/24/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WS - 02 0-4' (H251093-02)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2025	ND	1.94	97.1	2.00	1.93	
Toluene*	<0.050	0.050	02/25/2025	ND	2.04	102	2.00	1.07	
Ethylbenzene*	<0.050	0.050	02/25/2025	ND	2.06	103	2.00	0.643	
Total Xylenes*	<0.150	0.150	02/25/2025	ND	6.27	105	6.00	0.584	
Total BTX	<0.300	0.300	02/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/25/2025	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2025	ND	200	100	200	6.47	
DRO >C10-C28*	<10.0	10.0	02/26/2025	ND	193	96.4	200	0.586	
EXT DRO >C28-C36	<10.0	10.0	02/26/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 MARCUS GIPSON  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received: 02/25/2025  
 Reported: 02/26/2025  
 Project Name: COOGAN FEDERAL #3  
 Project Number: NONE GIVEN  
 Project Location: EUNICE, NM LEA COUNTY

Sampling Date: 02/24/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WS - 03 0-4' (H251093-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2025	ND	1.94	97.1	2.00	1.93		
Toluene*	<0.050	0.050	02/25/2025	ND	2.04	102	2.00	1.07		
Ethylbenzene*	<0.050	0.050	02/25/2025	ND	2.06	103	2.00	0.643		
Total Xylenes*	<0.150	0.150	02/25/2025	ND	6.27	105	6.00	0.584		
Total BTEX	<0.300	0.300	02/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	02/25/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2025	ND	200	100	200	6.47	
DRO >C10-C28*	<10.0	10.0	02/26/2025	ND	193	96.4	200	0.586	
EXT DRO >C28-C36	<10.0	10.0	02/26/2025	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 MARCUS GIPSON  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received: 02/25/2025  
 Reported: 02/26/2025  
 Project Name: COOGAN FEDERAL #3  
 Project Number: NONE GIVEN  
 Project Location: EUNICE, NM LEA COUNTY

Sampling Date: 02/24/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WS - 04 0-4' (H251093-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2025	ND	1.94	97.1	2.00	1.93		
Toluene*	<0.050	0.050	02/25/2025	ND	2.04	102	2.00	1.07		
Ethylbenzene*	<0.050	0.050	02/25/2025	ND	2.06	103	2.00	0.643		
Total Xylenes*	<0.150	0.150	02/25/2025	ND	6.27	105	6.00	0.584		
Total BTEX	<0.300	0.300	02/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	02/25/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2025	ND	200	100	200	6.47	
DRO >C10-C28*	<10.0	10.0	02/26/2025	ND	193	96.4	200	0.586	
EXT DRO >C28-C36	<10.0	10.0	02/26/2025	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

MC NABB SERVICES  
 MARCUS GIPSON  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received: 02/25/2025  
 Reported: 02/26/2025  
 Project Name: COOGAN FEDERAL #3  
 Project Number: NONE GIVEN  
 Project Location: EUNICE, NM LEA COUNTY

Sampling Date: 02/24/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BS - 01 4' (H251093-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2025	ND	1.94	97.1	2.00	1.93		
Toluene*	<0.050	0.050	02/25/2025	ND	2.04	102	2.00	1.07		
Ethylbenzene*	<0.050	0.050	02/25/2025	ND	2.06	103	2.00	0.643		
Total Xylenes*	<0.150	0.150	02/25/2025	ND	6.27	105	6.00	0.584		
Total BTEX	<0.300	0.300	02/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/25/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2025	ND	200	100	200	6.47	
DRO >C10-C28*	<10.0	10.0	02/26/2025	ND	193	96.4	200	0.586	
EXT DRO >C28-C36	<10.0	10.0	02/26/2025	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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**Analytical Results For:**

MC NABB SERVICES  
 MARCUS GIPSON  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received: 02/25/2025  
 Reported: 02/26/2025  
 Project Name: COOGAN FEDERAL #3  
 Project Number: NONE GIVEN  
 Project Location: EUNICE, NM LEA COUNTY

Sampling Date: 02/24/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BS - 02 4' (H251093-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2025	ND	1.94	97.1	2.00	1.93		
Toluene*	<0.050	0.050	02/25/2025	ND	2.04	102	2.00	1.07		
Ethylbenzene*	<0.050	0.050	02/25/2025	ND	2.06	103	2.00	0.643		
Total Xylenes*	<0.150	0.150	02/25/2025	ND	6.27	105	6.00	0.584		
Total BTEX	<0.300	0.300	02/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/25/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2025	ND	200	100	200	6.47	
DRO >C10-C28*	<10.0	10.0	02/26/2025	ND	193	96.4	200	0.586	
EXT DRO >C28-C36	<10.0	10.0	02/26/2025	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 MARCUS GIPSON  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received: 02/25/2025  
 Reported: 02/26/2025  
 Project Name: COOGAN FEDERAL #3  
 Project Number: NONE GIVEN  
 Project Location: EUNICE, NM LEA COUNTY

Sampling Date: 02/24/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BS - 03 4' (H251093-07)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2025	ND	1.94	97.1	2.00	1.93		
Toluene*	<0.050	0.050	02/26/2025	ND	2.04	102	2.00	1.07		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	2.06	103	2.00	0.643		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.27	105	6.00	0.584		
Total BTX	<0.300	0.300	02/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/25/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2025	ND	200	100	200	6.47	
DRO >C10-C28*	<10.0	10.0	02/26/2025	ND	193	96.4	200	0.586	
EXT DRO >C28-C36	<10.0	10.0	02/26/2025	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

MC NABB SERVICES  
 MARCUS GIPSON  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received: 02/25/2025  
 Reported: 02/26/2025  
 Project Name: COOGAN FEDERAL #3  
 Project Number: NONE GIVEN  
 Project Location: EUNICE, NM LEA COUNTY

Sampling Date: 02/24/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BS - 04 4' (H251093-08)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/26/2025	ND	1.94	97.1	2.00	1.93		
Toluene*	<0.050	0.050	02/26/2025	ND	2.04	102	2.00	1.07		
Ethylbenzene*	<0.050	0.050	02/26/2025	ND	2.06	103	2.00	0.643		
Total Xylenes*	<0.150	0.150	02/26/2025	ND	6.27	105	6.00	0.584		
Total BTEX	<0.300	0.300	02/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	02/25/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/26/2025	ND	200	100	200	6.47	
DRO >C10-C28*	<10.0	10.0	02/26/2025	ND	193	96.4	200	0.586	
EXT DRO >C28-C36	<10.0	10.0	02/26/2025	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

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### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

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Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

Company Name: McNabb Partners				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																	
Project Manager: Marcus Gipson				P.O. #:																					
Address: 5014 W Carlsbad Hwy				Company: McNabb Partners																					
City: Hobbs		State: NM		Zip: 88240		Attn:																			
Phone #:		Fax #:		Address:		City:																			
Project #:		Project Owner: Contango		State:		Zip:																			
Project Name: Coogan Federal #3				Phone #:																					
Project Location: Eunice, NM Lea County				Fax #:																					
Sampler Name: Auden Escajeda																									
FOR LAB USE ONLY																									
Lab I.D.		Sample I.D.		(GRAB OR (C)OMP. # CONTAINERS		MATRIX		PRESERV		SAMPLING															
						GROUNDWATER		ICE / COOL		DATE		TIME		TPH		Chloride		BTEX							
H251093		WS-01		0-4'		C 1		X		2/24/25		12:35		X		X		X							
		WS-02		0-4'		C 1		X		2/24/25		12:40		X		X		X							
		WS-03		0-4'		C 1		X		2/24/25		12:45		X		X		X							
		WS-04		0-4'		C 1		X		2/24/25		12:50		X		X		X							
		BS-01		4'		C 1		X		2/24/25		12:55		X		X		X							
		BS-02		4'		C 1		X		2/24/25		1:00		X		X		X							
		BS-03		4'		C 1		X		2/24/25		1:05		X		X		X							
		BS-04		4'		C 1		X		2/24/25		1:10		X		X		X							

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Relinquished By:		Date: 3-25-25		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: 1030						All Results are emailed. Please provide Email address:	
Relinquished By:		Date:		Received By:		ON-FILE	
Time:						REMARKS:	
						24 HR	
Delivered By: (Circle One)		Observed Temp. °C 5.4		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: 24-HR Standard <input checked="" type="checkbox"/> KUSD <input type="checkbox"/> X	
Sampler - UPS - Bus - Other:		Corrected Temp. °C 5.7		CHECKED BY: (Initials)		Thermometer ID #140 Correction Factor -0.6°C +0.3°C	
						Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	
						Observed Temp. °C Corrected Temp. °C	

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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 484568

**QUESTIONS**

Operator: Contango Resources, LLC 3230 Camp Bowie Blvd FORT WORTH, TX 76107	OGRID: 330447
	Action Number: 484568
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nPAC0616541526
Incident Name	NPAC0616541526 COOGAN FEDERAL #003 @ 30-025-30640
Incident Type	Oil Release
Incident Status	Reclamation Report Received
Incident Well	[30-025-30640] COOGAN FEDERAL #003

**Location of Release Source**

Please answer all the questions in this group.

Site Name	COOGAN FEDERAL #003
Date Release Discovered	06/01/2006
Surface Owner	Private

**Incident Details**

Please answer all the questions in this group.

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

**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: Equipment Failure   Producing Well   Crude Oil   Released: 1 BBL   Recovered: 1 BBL   Lost: 0 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
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)	Not answered.

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**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 484568

**QUESTIONS (continued)**

Operator: Contango Resources, LLC 3230 Camp Bowie Blvd FORT WORTH, TX 76107	OGRID: 330447
	Action Number: 484568
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>More info needed to determine if 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	Unavailable.
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
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: Dmitry Nikanorov Email: <a href="mailto:dimitry@mcnabbpartners.com">dimitry@mcnabbpartners.com</a> Date: 07/14/2025
----------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------

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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 484568

**QUESTIONS (continued)**

Operator: Contango Resources, LLC 3230 Camp Bowie Blvd FORT WORTH, TX 76107	OGRID: 330447
	Action Number: 484568
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Site Characterization</b>	
<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 51 and 75 (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
<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 ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (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

<b>Remediation Plan</b>	
<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	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	768
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	26490
GRO+DRO (EPA SW-846 Method 8015M)	20300
BTEX (EPA SW-846 Method 8021B or 8260B)	28.8
Benzene (EPA SW-846 Method 8021B or 8260B)	0.2
<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	02/24/2025
On what date will (or did) the final sampling or liner inspection occur	02/24/2025
On what date will (or was) the remediation complete(d)	02/28/2025
What is the estimated surface area (in square feet) that will be reclaimed	800
What is the estimated volume (in cubic yards) that will be reclaimed	119
What is the estimated surface area (in square feet) that will be remediated	800
What is the estimated volume (in cubic yards) that will be remediated	119
<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>	



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QUESTIONS, Page 4

Action 484568

**QUESTIONS (continued)**

Operator: Contango Resources, LLC 3230 Camp Bowie Blvd FORT WORTH, TX 76107	OGRID: 330447
	Action Number: 484568
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<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>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
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: Dmitry Nikanorov Email: dimitry@mcnabbpartners.com Date: 07/14/2025
<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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Action 484568

QUESTIONS (continued)

Operator:  Contango Resources, LLC 3230 Camp Bowie Blvd FORT WORTH, TX 76107	OGRID:  330447
	Action Number:  484568
	Action Type:  [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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Action 484568

**QUESTIONS (continued)**

Operator: Contango Resources, LLC 3230 Camp Bowie Blvd FORT WORTH, TX 76107	OGRID: 330447
	Action Number: 484568
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	433940
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/24/2025
What was the (estimated) number of samples that were to be gathered	8
What was the sampling surface area in square feet	800

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	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	800
What was the total volume (cubic yards) remediated	119
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	800
What was the total volume (in cubic yards) reclaimed	119
Summarize any additional remediation activities not included by answers (above)	Dig & haul disposal
<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: Dmitry Nikanorov Email: dimitry@mcnabbpartners.com Date: 07/14/2025



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Action 484568

**QUESTIONS (continued)**

Operator: Contango Resources, LLC 3230 Camp Bowie Blvd FORT WORTH, TX 76107	OGRID: 330447
	Action Number: 484568
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

**QUESTIONS**

<b>Reclamation Report</b>	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	800
What was the total volume of replacement material (in cubic yards) for this site	119
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeded commence(d)	02/28/2025
Summarize any additional reclamation activities not included by answers (above)	Historical release was remediated, and the site was reclaimed to the natural grade and reseeded with a native seed mixture.
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeded plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 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: Dmitry Nikanorov Email: dimitry@mcnabbpartners.com Date: 07/14/2025

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QUESTIONS (continued)

Operator:  Contango Resources, LLC 3230 Camp Bowie Blvd FORT WORTH, TX 76107	OGRID:  330447
	Action Number:  484568
	Action Type:  [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

<b>Revegetation Report</b>	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 484568

CONDITIONS

Operator: Contango Resources, LLC 3230 Camp Bowie Blvd FORT WORTH, TX 76107	OGRID: 330447
	Action Number: 484568
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
nvez	None	8/12/2025