



June 17, 2020

Bradford Billings  
Hydrologist  
District 2 Artesia  
Oil Conservation Division  
Santa Fe, NM 87505

**Subject: Closure Letter Report  
ConocoPhillips  
1RP-4224  
EVGSAU 3236-005 Stuffing Box Release  
Unit Letter E, Section 32, Township 17 South, Range 35 East  
Lea County, New Mexico**

Mr. Billings:

On behalf of ConocoPhillips, Tetra Tech, Inc. (Tetra Tech) submits the following Closure Report for review. The ConocoPhillips East Vacuum Grayburg San Andreas Unit (EVGSAU) 3236-005 well (the Site) is located approximately 1.3 miles east-southeast of Buckeye in Lea County, New Mexico. The well has API No. 30-025-26388, and is located in Unit Letter E, Section 32, Township 17 South, and Range 35 East, at coordinates 32.794612°, -103.484574°.

## BACKGROUND

According to the State of New Mexico C-141 Initial Report (Attachment A), a stuffing box malfunction occurred on March 13, 2016 at the EVGSAU 3236-005 well, resulting in a release of 17 barrels (bbls) of produced water and 7 bbls of crude oil. The release was discovered the next day, on March 14, 2016. Immediate action taken was to isolate the well and make an emergency one call. A vacuum truck was able to recover 8 bbls of produced water and the entire 7 bbls of crude oil during the initial response. The New Mexico Oil Conservation District (NMOCD) received the release notification on March 24, 2016. The site was assigned the Remediation Permit (RP) number 1RP-4224 and the Incident ID nJXK1608450635.

## SITE CHARACTERIZATION AND REGULATORY FRAMEWORK

A site characterization was performed and no watercourses, lakebeds, sinkholes, residences, schools, hospitals, institutions, churches, springs, public or private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. The Site is located in a low karst potential area. A playa lake is located approximately 540 ft west of the Site.

Based on data from the New Mexico Office of the State Engineer (NMOSE), there are no water wells located in Section 32, Township 17 South, and Range 35 East. In Township 17 South, Range 35 East, the average depth to groundwater is 85 feet (ft) below ground surface (bgs). The site characterization documentation is included in Attachment B.

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil. Based on the site characterization, the RRALs for the Site are as follows:

Bradford Billings  
NMOCD  
June 17, 2020

Constituent	RRAL
Chloride (0 – 4 ft bgs)	600 mg/kg
Chloride (>4 ft bgs)	10,000 mg/kg
Total TPH (GRO+DRO)	1,000 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

## SITE ASSESSMENT ACTIVITIES

According to documentation provided by COP, on March 14, 2016 Basin Environmental Service Technologies (Basin) personnel were onsite to visually evaluate the release and conduct initial assessment activities at the Site. Time stamped photos from this initial assessment are located in Attachment C.

On March 21, 2016 Basin installed two (2) sample points (verticals) to depths of 3.5 ft and 2.5 ft and collected field screening measurements for hydrocarbons and chlorides on 6-inch (in) intervals. Vertical 1 was located on the well pad close to the release location at the wellhead, and Vertical 2 was located approximately 170 ft east of the wellhead in the pasture, as shown in the Basin Figure in Attachment D. Four (4) samples, two from each sample point, were sent to Cardinal Laboratories in Hobbs, NM for analysis. The collected samples were analyzed for one or both of chlorides by EPA Method SM4500CI-B and total petroleum hydrocarbons (TPH) by EPA Method 8015M. Copies of the laboratory analytical reports and chain-of-custody documentation are included in Attachment E.

The analytical results associated with the two deepest intervals at Vertical 1 exceeded the RRAL for TPH (1,000 mg/kg). Although screening results from Vertical 2 indicated that soils were impacted with chlorides above the RRAL (600 mg/kg) in the top 0.5 ft, laboratory analytical results confirmed that chloride concentrations were below the RRAL at depths of 3 ft bgs at Vertical 1 and 1.5 ft at Vertical 2. Analytical results from the assessment activities are summarized in Table 1.

## REMEDIAL ACTIVITIES

Remedial activities commenced on March 23, 2016. Based on the results of the soil assessment, the affected area on the well pad was excavated to 1.5 ft bgs and the area in the pasture in the vicinity of Vertical 2 was excavated to 3.5 ft bgs. The area in between Vertical 1 and Vertical 2 was scraped to 0.5 ft bgs, which was the maximum depth practicable due to the presence of active buried pipelines. Plains (pipeline owner) restricted machine excavation in the area. The map created by Basin depicting the extents and depths of excavation is included in Attachment D. All excavated material was transported offsite for proper disposal. Photographs from the remediated site excavated areas prior to backfill are provided in Appendix C. Once completed, the excavated areas were backfilled with clean material to surface grade.

## CONCLUSION

Based on the soil assessment results and remediation work performed at the Site, ConocoPhillips requests closure for this release. The Final C-141 form is enclosed in Attachment A.

Should you have any questions or comments regarding this report, please do not hesitate to contact me by telephone at 512-338-2861 or by email at [christian.llull@tetrattech.com](mailto:christian.llull@tetrattech.com).

Sincerely,



Christian M. Llull  
Project Manager  
Tetra Tech, Inc.

## **FIGURES**





DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\FIG1\FIGURE 1 SITE LOCATION -1RP-4224.MXD



**TETRA TECH**

[www.tetrattech.com](http://www.tetrattech.com)

901 West Wall Street, Suite 100  
Midland, Texas 79701  
Phone: (432) 682-4559  
Fax: (432) 682-3946

**CONOCOPHILLIPS**

1RP-4224

(32.794612°, -103.484574°)  
LEA COUNTY, NEW MEXICO

**EVGSAU 3236-005 STUFFING BOX RELEASE  
SITE LOCATION MAP**

PROJECT NO.: 212C-MD-01796

DATE: JUNE 11, 2020

DESIGNED BY: AAM

Figure No.

**1**



## **TABLES**

TABLE 1  
SUMMARY OF ANALYTICAL RESULTS  
SITE ASSESSMENT  
EVGSAU 3236-005 STUFFING BOX RELEASE  
LEA COUNTY, NM  
1RP-4224

Sample ID	Matrix	Sample Date	Sample Interval	Field Screening Results		Chloride <sup>1</sup>	TPH <sup>2</sup>		
							GRO (C <sub>6</sub> - C <sub>10</sub> )	DRO (>C <sub>10</sub> - C <sub>28</sub> )	TPH (C <sub>6</sub> - C <sub>28</sub> )
			ft bgs	Chloride	PID		mg/kg	mg/kg	mg/kg
Vertical 1	Soil	03/21/16	0.5	5367	388.1	-	-	-	-
			1	8545	5	-	-	-	-
			1.5	3626	9	-	-	-	-
			2	1515	1	-	-	-	-
			2.5	1203	3.2	-	-	-	-
			3	-	33.1	96.0	42.4	1290.0	1332.4
			3.5	153	27.9	-	13.8	1090.0	1103.8
Vertical 2	Soil	03/21/16	0.5	727	585.6	-	-	-	-
			1	600	127.3	-	-	-	-
			1.5	-	50.5	336.0	<10.0	68.2	68.2
			2.5	-	31.9	208.0	-	-	-

**NOTES:**

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

<sup>1</sup> EPA Method SM4500Cl-B<sup>2</sup> EPA Method 8015M

- Not analyzed

## **ATTACHMENT A**

### **C-141 Forms**



District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

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

**RECEIVED**

By Jkeyes at 2:07 pm, Mar 24, 2016

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action****OPERATOR**
☒ Initial Report ☐ Final Report

Name of Company: <b>ConocoPhillips</b>	Contact: <b>Adam Stephens</b>
Address: <b>29 Vacuum Complex Lane</b>	Telephone No. <b>575-391-3133</b>
Facility Name: <b>EVGSAU 3236-005</b>	Facility Type: <b>Well</b>
Surface Owner: <b>NMOCD</b>	Mineral Owner: <b>NMOCD</b>
API No. <b>30-025-26388</b>	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<b>D</b>	<b>33</b>	<b>17S</b>	<b>35E</b>	<b>1491</b>	<b>North</b>	<b>1203</b>	<b>West</b>	<b>LEA</b>

Latitude **N32.7946892** Longitude **W103.4845581****NATURE OF RELEASE**

Type of Release: <b>Spill</b>	Volume of Release: <b>24.0 BBLs</b>	Volume Recovered: <b>24 BBLs</b>
Source of Release: <b>Stuffing Box</b>	Date and Hour of Occurrence <b>03/13/2016 4:00 pm</b>	Date and Hour of Discovery <b>03/14/2016 8:00 am</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* <input type="checkbox"/>		
Describe Area Affected and Cleanup Action Taken.*		
<p>On Monday March 14, 2016 at 0800 (MDT), a release of produced water and crude oil occurred after a stuffing box malfunction was discovered, resulting in the release of 17 bbls produced water and 7 bbls crude oil, with 7 bbls oil and 8 bbls produced water recovered. Immediate action was to isolate the well and make an emergency OneCall. Location will be remediated in accordance with NMOCD and COPC policies.</p>		
<p>I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.</p>		

**OIL CONSERVATION DIVISION**

Signature: <i>Adam R. Stephens</i>	Approved by Environmental Specialist: <i>Janet Keyes</i>	
Printed Name: <b>Adam Stephens</b>	Approval Date: <b>03/24/2016</b>	Expiration Date: <b>05/24/2016</b>
Title: <b>LEAD HSE</b>	Conditions of Approval: <b>Discrete site samples only. Delineate and remediate per NMOCD guidelines. Ensure SLO concurrence/ approval.</b>	
E-mail Address: <b>adam.r.stephens@conocophillips.com</b>	Attached <input type="checkbox"/> <b>1RP 4224</b>	
Date: <b>03/16/2016</b>	Phone: <b>575-391-3133</b>	

\* Attach Additional Sheets If Necessary

nJXK1608450635  
pJXK1608450708

Incident ID	
District RP	
Facility ID	
Application ID	

## Closure

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 (electronic submittals in .pdf format are preferred) 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.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

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.

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: Charles R. Beauvais II Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: Jocelyn Harimon Date: 04/13/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 04/13/2023

Printed Name: Jocelyn Harimon Title: Environmental Specialist

## **ATTACHMENT B**

### **Site Characterization Data**





# 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 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<a href="#">L 04829 S</a>	L	LE		3	4	32		17S	35E	642554	3628586*	198	85	113

Average Depth to Water: **85 feet**

Minimum Depth: **85 feet**

Maximum Depth: **85 feet**

Record Count: 1

PLSS Search:

Section(s): 32

Township: 17S

Range: 35E

\*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.

5/21/20 8:41 AM





Page 1 of 1

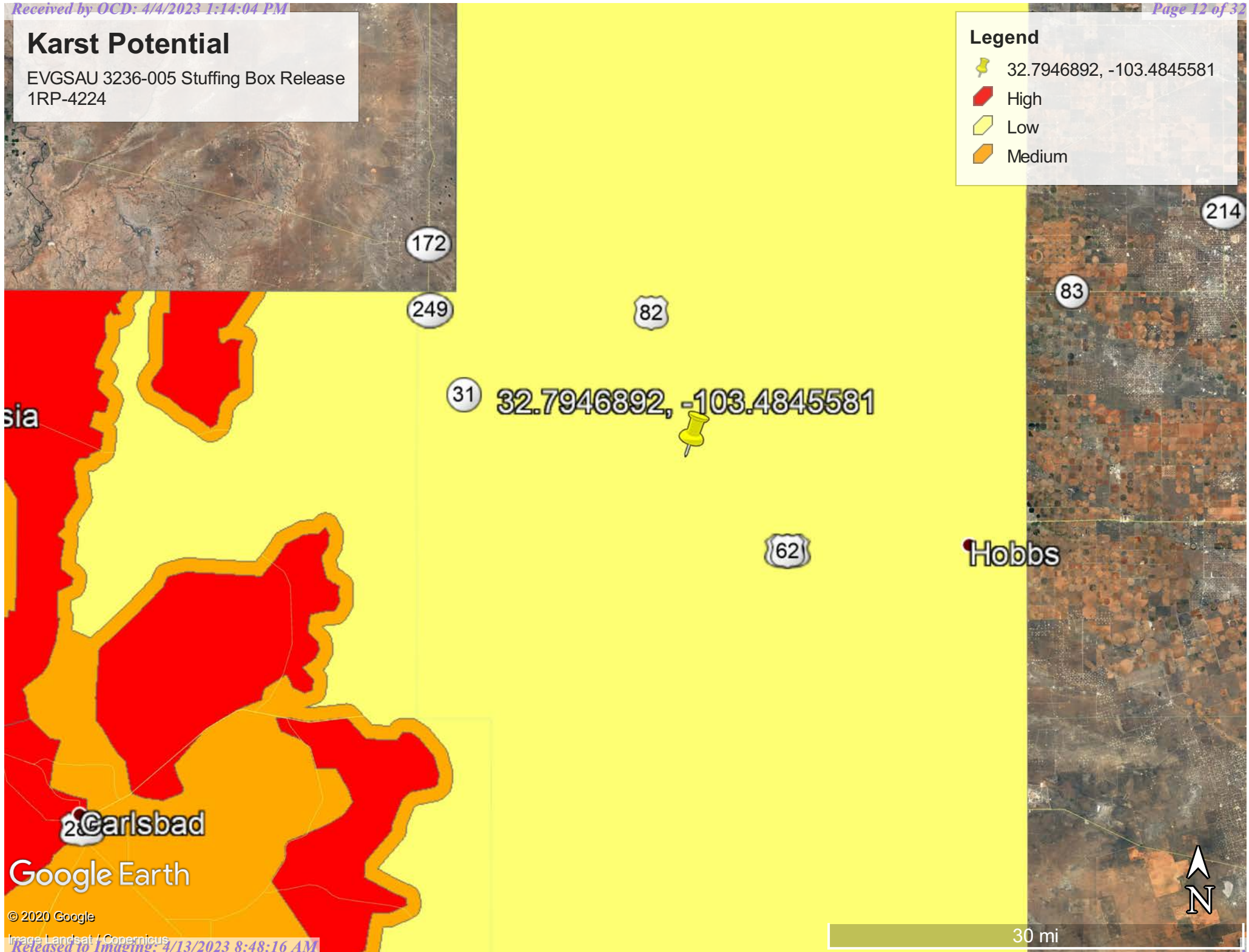
WATER COLUMN/ AVERAGE  
DEPTH TO WATER

# Karst Potential

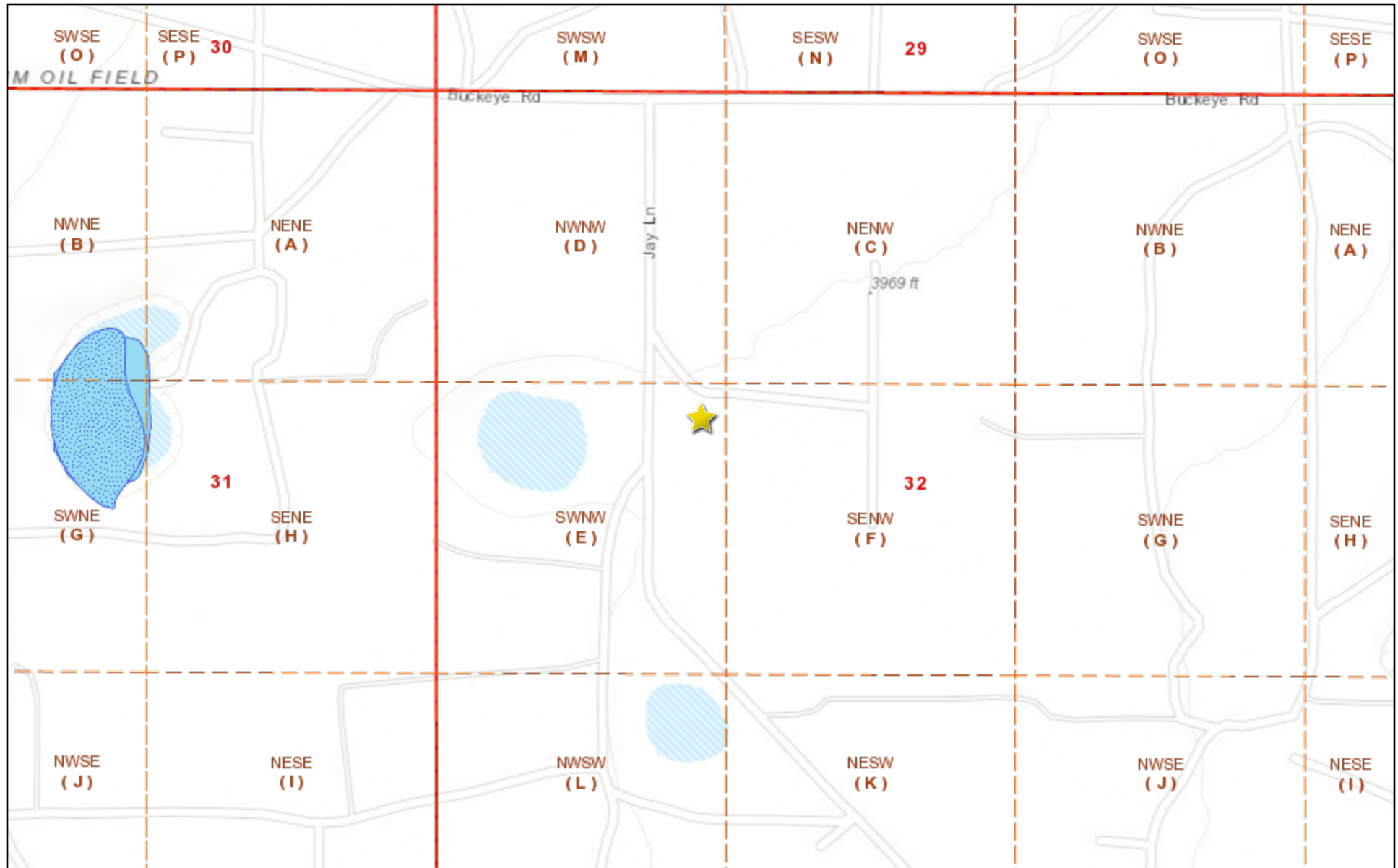
EVGSAU 3236-005 Stuffing Box Release  
1RP-4224

## Legend

-  32.7946892, -103.4845581
-  High
-  Low
-  Medium



# Water Bodies



5/21/2020, 9:38:58 AM



Override 1



PLSS First Division



PLJV Probable Playas



OCD District Offices



PLSS Second Division

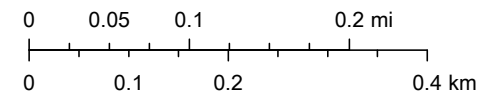


OSE Streams



OSE Water-bodies

1:9,028



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS,

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. <http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75>: New Mexico Oil Conservation Division



## **ATTACHMENT C**

### **Photographic Documentation**



TETRA TECH, INC. PROJECT NO. 212C-MD-01796-20	DESCRIPTION	View of Site signage at the EVGSAU 3236-005 well (32.7946892°, -103.4845581°).	1
	SITE NAME	EVGSAU 3236-005 Stuffing Box Release	3/14/2016



TETRA TECH, INC. PROJECT NO. 212C-MD-01796-20	DESCRIPTION	View of impacted area and vacuum truck recovering free liquids.	2
	SITE NAME	EVGSAU 3236-005 Stuffing Box Release	3/14/2016





TETRA TECH, INC. PROJECT NO. 212C-MD-01796-20	DESCRIPTION	View of excavated area on the EVGSAU 3236-005 lease pad, facing west.	3
	SITE NAME	EVGSAU 3236-005 Stuffing Box Release	3/23/2016



TETRA TECH, INC. PROJECT NO. 212C-MD-01796-20	DESCRIPTION	View of excavation activities in pasture southeast of the EVGSAU 3236-005 well, facing north.	4
	SITE NAME	EVGSAU 3236-005 Stuffing Box Release	3/23/2016





TETRA TECH, INC. PROJECT NO. 212C-MD-01796-20	DESCRIPTION	View of excavated areas, with EVGSAU 3236-005 well in background, facing northwest.	5
	SITE NAME	EVGSAU 3236-005 Stuffing Box Release	3/23/2016



TETRA TECH, INC. PROJECT NO. 212C-MD-01796-20	DESCRIPTION	View of backfilling activities on the EVGSAU 3236-005 lease pad, facing northwest.	6
	SITE NAME	EVGSAU 3236-005 Stuffing Box Release	3/24/2016



TETRA TECH, INC. PROJECT NO. 212C-MD-01796-20	DESCRIPTION	View of backfilling excavated areas with imported soils, facing northeast.	7
	SITE NAME	EVGSAU 3236-005 Stuffing Box Release	3/24/2016

**ATTACHMENT D**  
**Basin Excavation Map**





UL E & F SECTION 32  
T-17-S R-35-E  
LEA COUNTY, NM

GPS date: 3/14 & 23/16 KN  
Drawing date: 3/15/16  
Drafted by: T. Grieco





## PLAINS ALL AMERICAN PIPELINE, L.P. ENCROACHMENT NOTIFICATION

FORM 202

NOTIFIED PARTY: MOET CORP  
 Name: Josh McLaughlin Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_

## Section A:

## LOCATION

Qtr:	Section:	Township:	Range:	County:	State:	PMAS File #	District:	Diameter:
	32	17S	35E	16A	N.M.		PPN	
Other Land Description:	Line Segment:	Eng. Station:	Easement Width:	Mile Post:	Latitude	Longitude		
	Vacuna gath				N 32.79488	W 103.48430		

## Section B: DESCRIPTION OF ENCROACHMENT WORK OR FACILITY (attach diagram if necessary)

Work Description: Oil Remediation on Plains ROW  
no mechanical equipment within 20' on each side of ROW  
 Work Location: N-32.79488, W-103.48430

## Encroachment Duration:

One Call Ticket # 16 MA 140558

## Section C:

## IMPORTANT NOTICE!

Excavation activity can damage pipelines resulting in the release of hazardous gases or liquids, which may cause serious injury or death to people, damage to property or the environment.  
 To avoid damaging a pipeline:

1. Call ONE CALL - 811 at least 48 hours before work begins.
2. Look for evidence of a pipeline, such as warning signs, aerial patrol markers, casing vents, and aboveground pipeline.
3. Never assume the location of the pipeline because:
  - It can change directions abruptly without aboveground physical evidence
  - The depth can vary substantially in short distances
  - More than one pipeline may be present
4. Call Plains at the telephone number below for free line location service and on site assistance before ANY activity is performed on or near our easement.
5. Follow Plains SPECIFICATIONS on the back of this page, when performing work near a Plains pipeline(s).

This Encroachment License is granted subject to the Conditions and Special Provisions shown below and strictly in accordance with the Specifications shown on the reverse side hereof.

## Section D:

## CONDITIONS

1. Notified Party will work or construct, maintain, relocate, and remove the facility at no expense to Plains. Plains shall have the right to cut and remove any pavement or other surface structures or improvements now or hereafter located over or across a Plains pipeline, without prior notice or any obligation to repair, resurface or dispose of removed material, for the purpose of exercising any rights granted to Plains under the pipeline rights of way and easements.
2. Any work performed near the pipeline without the presence of a Plains representative will necessitate that the pipeline be exposed for inspection and needed repairs performed at the notified party's or responsible party's cost.
3. Plains may revoke Notified Party's license to conduct the encroachment work in the event of Notified Party's noncompliance with any requirements, conditions, or specifications of the Permit, upon notice given to Notified Party and/or the owner of the facility.
5. NOTIFIED PARTY SHALL DEFEND, INDEMNIFY AND HOLD HARMLESS PLAINS, ITS PARENT, ASSOCIATED AND AFFILIATED COMPANIES, THEIR AGENTS, EMPLOYEES, OFFICERS, DIRECTORS, INSURERS, SUCCESSORS AND ASSIGNS FROM AND AGAINST ANY LOSS, DAMAGE, CLAIM, SUIT LIABILITY, JUDGMENT AND EXPENSE (INCLUDING ATTORNEYS' FEES AND OTHER COSTS OF LITIGATION), AND ANY FINES, PENALTIES AND ASSESSMENTS ARISING OUT OF INJURY, DISEASE OR DEATH OF PERSONS (INCLUDING THAT OF THE EMPLOYEES OF PLAINS OR NOTIFIED PARTY OR THEIR CONTRACTORS AND SUBCONTRACTORS), DAMAGE TO OR LOSS OF ANY PROPERTY (INCLUDING THAT OF PLAINS OR NOTIFIED PARTY OR THEIR CONTRACTORS AND SUBCONTRACTORS), AND ANY ENVIRONMENTAL HARM, OR DAMAGES TO NATURAL RESOURCES, CAUSED BY, ARISING OUT OF OR RESULTING FROM, EITHER DIRECTLY OR INDIRECTLY, THE ACTIVITIES OF NOTIFIED PARTY AND ITS CONTRACTORS OR SUBCONTRACTORS IN THE CONSTRUCTION, OPERATION AND MAINTENANCE OF NOTIFIED PARTY'S WORK ACROSS PLAINS' PIPELINES AND ASSOCIATED RIGHTS-OF-WAY.
6. The Notified Party, at no cost to Plains, shall supply plans, surveys and drawings, if Plains deems necessary.
7. Plains maintains the right to cease operations, if in the opinion of Plains, the conditions are not being met on the reverse side hereof, or if Notified Party is not following safe operating, excavation activity, appropriate safety or traffic control procedures.
8. Plains reserves the right to alter the terms of this License at any time, provided that Notified Party will be given a reasonable time to comply. Notified Party's expense, with any new requirements.
9. All Work or facilities shall be constructed and maintained to comply with all laws and industry standards and Section F of this License.
10. The License herein granted by Plains is limited to its interest and authority in the subject land and Notified Party acknowledges the possible obligation to obtain the required permission from other parties of interest or the Government.
11. This License does not change or modify any provisions of Plains' existing right-of-way contracts or easements, unless such easements are required to be amended as a result of Notified Party's encroachment. Notified Party acknowledges that the issuing of this Notification may require amendment of the existing right-of-way contract or easement to reflect a change in land use or land rights and Notified Party shall assist Plains in such event.
12. At no cost to the Notified Party, a Plains representative will erect temporary flags marking the pipelines location and shall be present during all active work periods to observe excavation or other construction activities near the pipeline. Notified Party shall provide advance notice of a minimum of two (2) business days prior to any construction and to arrange for a Plains representative to be on site during work activities.
13. Notified Party shall not modify or alter the Work Location, nor construct or permit additional encroachments on the Right-of-Way, without Plains prior written consent.
14. The terms, conditions, and provisions contained herein shall be binding upon the parties hereto, their heirs, successors and assigns.

## Section E:

## SPECIAL PROVISIONS:

Your local Plains contact is:

MOET CORP  
575-200-9432

In Event of an Emergency Call: 1-800-708-8071

Plains All American Pipeline, L.P.

Submitted by: real contOffice Location: Denver CITY T.X.Date: 3/17/16

Notified Party acknowledges that it has reviewed the Requirements, Conditions, Special Provisions and Specifications of this License and agrees to the terms thereof.

By: Josh McLaughlin

Notified Party

Name: Josh McLaughlin

Title:

Date: 3-17-16

Form 202 (Revised 06.20.2014)

White-Records Yellow-Employee Pink-Contractor



Section F:	SPECIFICATIONS	FORM 202
1. ALL PIPELINES, UTILITY LINES and other underground facilities constructed across Plains owned or operated pipeline must be installed with a vertical separation of 12 inches or greater between structures. All facilities crossing a Plains pipeline shall be made of, or encased in, steel pipe with threaded or welded joints the entire width of Plains' right of way. Horizontal separations will be determined on a case-by-case basis. Electrical conduit and cables are excluded, please refer to paragraph 2. All work and cleanup will be conducted in a manner acceptable to Plains' on-site representative. All buried lines crossing the pipeline(s) must cross at an angle of not less than 45 degrees from the pipeline(s). Vinyl direct buried warning tapes shall be placed above the crossing line.	Where it is necessary for heavy equipment to cross the pipeline, additional measures may be needed to effectively distribute the weight of such equipment, for example, installing additional cover, timber matting and/or a temporary bridge for passage over the pipeline.	
2. ALL UNDERGROUND ELECTRICAL CABLES shall be installed with a vertical separation of 12 inches or greater between structures, with all plans, work and cleanup conducted in a manner acceptable to Plains' on-site representative. Horizontal separation will be determined on a case-by-case basis. In addition, the electrical cable must be enclosed in conduit (steel or Schedule 80 PVC). It should be covered with red reinforced concrete with a minimum width of 6 inches on each side and above the conduit, for the entire width of Plains' right of way.	7. LAKES OR OTHER BODIES OF WATER shall not be constructed over the pipeline or within the boundaries of the pipeline easement. Additionally, the surface cannot be developed or changed in any way that would cause rainwater or runoff to collect on the pipeline right-of-way.	
3. ALL UNDERGROUND FIBER OPTIC CABLES shall be installed with a vertical separation of 12 inches or greater between structures, with all plans, work and cleanup conducted in a manner acceptable to Plains' on-site representative. Horizontal separation will be determined on a case-by-case basis. In addition, the fiber optic cable must be enclosed in conduit (steel or Schedule 80 PVC). It should be covered with red reinforced concrete with a minimum width of 12 inches on each side and above the conduit, for the entire width of Plains' right of way.	8. DRILLING OR BORING shall require additional damage prevention measures, whether installing a crossing or otherwise conducting such operations within 25-feet of the pipeline. It is Plains' option whether peepholes or sheet piling be installed to an elevation lower than the pipeline, before drilling/boring to help ensure its protection. Plains requires continuous tracking of the drilling head as well as using a physical technique (such as probing) to ascertain the exact location of the head before it crosses the Plains pipeline. Plains may also require that the pipeline be exposed when near drill/bore entry or exit points.	
4. ALL PROPOSED ROADS, STREETS, OR DRIVEWAYS shall be constructed with a minimum cover of 48 inches, including the sub-grade, as measured from the top of the Plains pipeline to the bottom of the pavement (road, street, or driveway) outlined below. If a Plains pipeline will require adjustment to accommodate a roadway, street, or driveway crossing, the cost of any such lowering or relocation shall be borne by the party or parties requesting the adjustment. With each request involving roads, streets, or driveways, Plains reserves the right to excavate to expose and inspect its pipeline(s) to determine the need for pipe replacement, full encasement, or heavy wall pipe. The cost of this activity will be at the expense of the requesting party.	9. ABOVE GROUND LINE CROSSINGS. All overhead wires shall maintain a minimum clearance of 20 feet from the surface of the ground to the location of the lines lowest sag point. All poles will maintain a minimum distance of 20 feet from any pipeline(s). All guy wires and footings are prohibited within the easement area without the prior written consent of Plains.	
A. PIPELINE MINIMUM COVER REQUIREMENTS	10. If Plains determines it is necessary to lower, encase or otherwise adjust a Plains pipeline because of the landowner's (developer's, etc.) construction activity, the landowner or developer shall reimburse Plains for the cost of lowering, encasement or other adjustments.	
1. 48 inches from bottom of pavement under a road, street or driveway to the top of Plains' pipeline.	11. Please notify the Plains contact listed on the front page at least two (2) business days prior to commencing any excavating or construction activity in the vicinity of any Plains pipeline. The National One Call law requires that the One Call System be notified at 811 before starting any excavation or construction activity. If you are unable to contact the Plains representatives listed on the front, please contact the Pipeline Control Center in Midland, Texas, and the information will be relayed.	
2. 36 inches under all other surfaces to the top of Plains' pipeline.	Pipeline Control Center 24 hours: 1-800-708-5071	
B. Any concrete paving (other than for road, street or driveway crossings of a Plains pipeline) i.e. a parking lot should it be approved to be constructed over the Plains pipeline by a Plains representative shall (a) be reinforced, (b) not exceed 4 inches in thickness, (c) be sectioned in 10 foot by 15 foot panels (15' dimension shall be perpendicular to the pipeline) with appropriate expansion joints, (d) containing lifting rings, and (e) conform to the minimum cover requirements stipulated above.	12. No excavating or construction activity shall be conducted within 25 feet of any Plains pipeline or related facility in the absence of a Plains representative. All plans that are submitted to Plains for approval shall have the phone number above, along with the two (2) business day's notice of commencement, imprinted on plans.	
C. Plains shall have the right to cut and remove any pavement or other surface structures or improvements now or hereafter located over or across a Plains pipeline, without prior notice or any obligation to repair, replace, resurface or dispose of removed material, for the purpose of exercising any rights granted to Plains under the pipeline rights of way and easements. If Plains damages the permitted facility, Permittee shall, at Permittee's sole cost and expense, be responsible for the replacement of the permitted facility that was removed or damaged by Plains, and Plains shall not be required to pay any damages to Permittee.	13. Any contractor, developer, geophysical entity etc., planning blasting operations within 500 feet of any Plains pipeline or facility shall submit a blasting plan to Plains for approval. This plan will include hole depth, diameter, spacing, burden, delay times, maximum charge weight per delay, sequence, explosive type and blast zone relative to the Plains pipeline or facility. Under no circumstances will blasting or seismic shot holes be allowed within 100 feet of any Plains pipeline.	
D. APWA color coded vinyl warning tape (yellow) will be placed under the paved area along the route of each pipeline(s).	14. No signs, billboards, monuments, buildings, power poles, structures, manholes, parking lots, shrubbery, or trees shall be located within a Plains right of way and easement area so that the pipeline can be maintained without damaging these structures or being impeded by them. However Plains may allow these or similar structures to be built within a Plains right of way and easement area, if a party agrees to enter into an Encroachment Agreement, whichever is most applicable to the situation, prior to any construction of these similar structures.	
5. ANY DRAINAGE DITCHES shall be constructed with a minimum cover, and measured from the lowest point in the ditch, to the top of pipe as follows:	15. No excavation shall be made on land adjacent to any Plains pipeline which will in any way impair, withdraw lateral support, cause subsidence, create the accumulation of water, or cause damage to the Plains pipeline right of way.	
1. Concrete lined - 12 inches.	16. No fence shall be placed across a Plains right of way without written permission from Plains. If fences are permitted, 14-foot gates must be installed on the right of way, and keys to any installed locks shall be provided to Plains.	
2. Unlined - 36 inches.	17. Side cutters shall be removed from the bucket of excavation equipment, and a bar shall be installed across the teeth during excavation in the vicinity of any Plains pipeline.	
Any drainage canals shall be constructed with a minimum of 60 inches of cover below the ultimate flow line.	18. No paving is to be placed over any Plains right of way without prior written permission from Plains.	
6. TEMPORARY (HAUL) ROAD crossings shall be constructed with a minimum ground cover (as measured from the surface of the road to the top of the pipeline) of 5-feet. A temporary earthen berm may be constructed to meet this requirement.	19. Any damage to existing Plains pipelines, facilities, pipeline insulation and/or casing, markers and/or signs, test leads, vent pipes, fences, gates and/or any other associated pipeline apparatus resulting from the installation, construction, maintenance or operations of any third party facilities crossing Plains' pipelines shall be repaired to Plains' satisfaction or replaced at the sole cost and expense by the responsible party within 15 days after the damage has occurred.	
	20. All written requests should be supported with plans and forwarded to Plains All American Pipeline, L.P., as follows: 1) Attn: Land Department, 333 Clay Street, Suite 1600, Houston, Texas 77002, Direct: (713) 646-4100, Fax: (713) 646-4149 and Division PHMSA Records Specialist.	

## **ATTACHMENT E**

### **Laboratory Analytical Reports**



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

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March 22, 2016

KYLE NORMAN

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: EVGSAU 3236-005

Enclosed are the results of analyses for samples received by the laboratory on 03/21/16 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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:**

Basin Environmental Service  
 KYLE NORMAN  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received: 03/21/2016  
 Reported: 03/22/2016  
 Project Name: EVGSAU 3236-005  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 03/21/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: PT. 1 @ 3' (H600609-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	03/22/2016	ND	416	104	400	8.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>42.4</b>	10.0	03/22/2016	ND	199	99.4	200	1.20	
<b>DRO &gt;C10-C28</b>	<b>1290</b>	10.0	03/22/2016	ND	182	91.2	200	8.62	

Surrogate: 1-Chlorooctane 102 % 35-147

Surrogate: 1-Chlorooctadecane 112 % 28-171

**Sample ID: PT. 2 @ 1.5' (H600609-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>336</b>	16.0	03/22/2016	ND	416	104	400	8.00	
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	03/22/2016	ND	199	99.4	200	1.20	
<b>DRO &gt;C10-C28</b>	<b>68.2</b>	10.0	03/22/2016	ND	182	91.2	200	8.62	

Surrogate: 1-Chlorooctane 104 % 35-147

Surrogate: 1-Chlorooctadecane 109 % 28-171

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

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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

---

Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager







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

---

March 24, 2016

KYLE NORMAN

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: EVGSAU 3236-005

Enclosed are the results of analyses for samples received by the laboratory on 03/23/16 8:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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).

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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 style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Basin Environmental Service  
 KYLE NORMAN  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	03/23/2016	Sampling Date:	03/21/2016
Reported:	03/24/2016	Sampling Type:	Soil
Project Name:	EVGSAU 3236-005	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: PT. 1 @ 3.5' (H600619-01)**

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>13.8</b>	10.0	03/23/2016	ND	203	101	200	4.31	
<b>DRO &gt;C10-C28</b>	<b>1090</b>	10.0	03/23/2016	ND	215	108	200	14.0	

Surrogate: 1-Chlorooctane 94.6 % 35-147

Surrogate: 1-Chlorooctadecane 105 % 28-171

**Sample ID: PT. 2 @ 2.5' (H600619-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>208</b>	16.0	03/23/2016	ND	416	104	400	0.00	

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

---

### Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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

---

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.

A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager





**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

Kush  
CHAIN-0

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**Company Name:** ConocoPhillips

**Project Manager:** Kyle Norman

**Address:** 419 W Cain

**City:** Hobbs

**Phone #:** 575-393-2967

**Project #:**

**Project Name:** ELKSTN 3236-005

**Project Location:**

**Sampler Name:** Skanplain

FOR LAB USE ONLY

**P.O. #:**

**Company:** Basin

**Attn:**

**Address:** 419 W Cain

**City:** Hobbs

**State:** NM **Zip:** 88240

**Phone #:** 575-393-2967

**Fax #:** 575-393-0293

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:									ICE / COOL
Block 19	1 Pt 10 3.5'		1			✓					✓	3-21-16	9:30	✓					
	2 Pt 20 2.5'		1			✓					✓	3-21-16	10:30	✓					

**Relinquished By:** [Signature]

**Date:** 3-23-16

**Time:** 8:45

**Received By:** [Signature]

**Date:**

**Time:**

**Delivered By:** (Circle One)

**Sampler - UPS - Bus - Other:**

**Sample Condition:**

☒ Cool ☒ Intact

☐ Yes ☐ No

**CHECKED BY:** [Signature]

**Initials:**

**Phone Result:** ☐ Yes ☒ No **Add'l Phone #:**

**Fax Result:** ☐ Yes ☒ No **Add'l Fax #:**

**REMARKS:**

email results: knorman@basineny.com; jkamlplain@basineny;

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 204070

CONDITIONS

Operator: Maverick Permian LLC 1111 Bagby Street Suite 1600 Houston, TX 77002	OGRID: 331199
	Action Number: 204070
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	4/13/2023