

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2111252587
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Morningstar Operating LLC	OGRID 330132
Contact Name Vanessa Fields Agent	Contact Telephone 505-787-9100
Contact email vanessa@walsheng.net	Incident # (assigned by OCD) NAPP2111252587
Contact mailing address 7415 E Main St. Farmington, NM 87402	

Location of Release Source

Latitude 36.9533806 Longitude -107.2304993
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Carracas 27 B #016H	Site Type Gas
Date Release Discovered: 4/13/2021	API# (if applicable) 30-039-31056

Unit Letter	Section	Township	Range	County
M	26	32N	04W	Rio Arriba

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)
(See Attached Map)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 10.33	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

The stem on the pressure relief for the water gathering line was leaking into the berm inside the pump house on this site. Isolation occurred to the valve to stop the active leak at that time. There was fresh water from snow melt already present inside the containment, but when mixed with the water leaking out. All surface fluids were removed, and the release was isolated. 19.15.29 will be followed for remediation.

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State of New Mexico

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

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.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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.

Printed Name: Vanessa Fields Title: Agent/Regulatory Compliance Manager

Signature:  Date: 4/16/2021

email: vanessa@walsheng.net Telephone: 505-787-9100

OCD Only

Received by: Ramona Marcus Date: 7/7/2021

Incident ID	
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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>213</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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State of New Mexico

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Oil Conservation Division

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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.

Printed Name: Vanessa Fields Title: Agent/Regulatory Compliance ManagerSignature:  Date: 4/16/2021email: vanessa@walsheng.net Telephone: 505-787-9100**OCD Only**Received by: Ramona Marcus Date: 7/7/2021

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Oil Conservation Division

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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: Vanessa Fields Title: Agent/Regulatory Manager

Signature:  Date: 6/30/2021

email: vanesssa@walsheng.net Telephone: 505-787-9100

OCD Only

Received by: Ramona Marcus Date: 7/7/2021

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: Nelson Velez Date: 03/02/2022

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

30-039-31056 CARRACAS 27B #016H

Remediation Summary

Incident Number NAPP2111252587

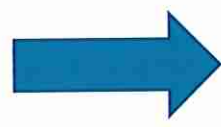
On April 13, 2021, an NMOCD representative arrived onsite to conduct an inspection and it was noted that due to the stem on the pressure relief for the water gathering line was leaking into the berm inside the pump house on the Carracas 27B #016H. Isolation occurred to the valve to stop the active leak at that time. There was fresh water from snow melt already present inside the containment, but when mixed with the water leaking, it was determined that there was roughly 10.33 BBLs of fluid inside the containment of the berm and minor fluid had penetrated under the berm onto location. Morningstar Operating submitted the initial C-141 to the NMOCD and was given incident number **NAPP2111252587**. All surface fluids were removed, and all impacted area was pressured washed and hydro-vac. No evidence of any residual soil was noted after clean up efforts were conducted.

Sampling was conducted on July 16, 2021, the NMOCD nor the BLM were present for sampling. Phone notification was made to Cory Smith to determine sampling plan and sampling size. Verbal authorization was granted to obtain 400sq ft sampling of the release area. (3) 5 composite samples were collected in the berm area and outside the berm area as demonstrated in the attached photos at 1 ½ feet below grade surface. Photos will demonstrate that no staining was observed when all soil was removed around production equipment. All analytical results came below regulatory standards

Date Sampled	Sample Area 5-point composite	8021 BTEX	Benzene	8015 DRO	8015 GRO	8015 ORO	Chloride
6/17/2021	SB 1 (1) 5point composite	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	393 mg/kg
6/17/2021	SB 2 (1) 5point composite	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	403 mg/kg
6/17/2021	SB 3 (1) 5point composite	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	562 mg/kg

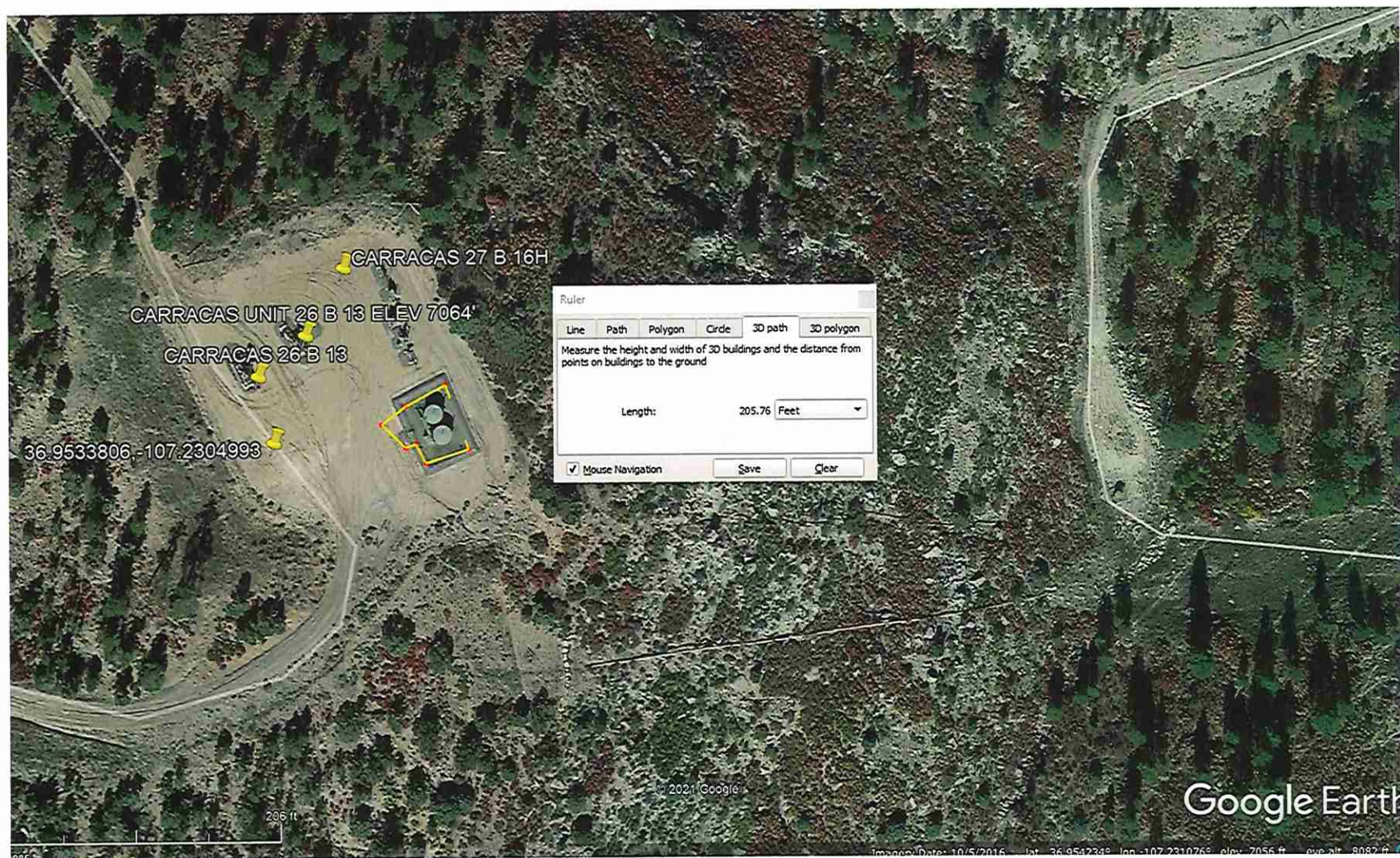
All Analytical results were below regulatory standards of the closure criteria in reference to Table 1:

Table I Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤ 50 feet	Chloride***	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
>100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg



30-039-31056 CARRACAS 27B #016H

Release Area



Samanntha Avarello

From: OCDOnline@state.nm.us
Sent: Thursday, April 22, 2021 3:36 PM
To: Samanntha Avarello
Subject: EXTERNAL:The Oil Conservation Division (OCD) has accepted the application, Application ID: 25285

Follow Up Flag: Follow up
Flag Status: Completed

To whom it may concern (c/o Samanntha Avarello for MorningStar Operating LLC),

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#) nAPP2111252587, with the following conditions:

- **When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.**

Please reference nAPP2111252587, on all subsequent C-141 submissions and communications regarding the remediation of this release.

NOTE: As of December 2019, NMOCD has discontinued the use of the "RP" number.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

ocd.enviro@state.nm.us

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

Vanessa Fields

From: Vanessa Fields
Sent: Tuesday, June 15, 2021 8:18 AM
To: Smith, Cory, EMNRD; Adeloye, Abiodun A; JJ miller (JJMiller@USDA.GOV)
Cc: Mike Howe; Denise Casaus; John Hampton
Subject: Carracas 27B #016H 30-039-31056 Sampling Thursday June 17, 2021 at 8:30 am

Good morning,

Walsh Engineering on behalf of MorningStar Operating LLC is providing 48 hour notice for sampling on the Carracas 27B #016H for Thursday June 17, 2021 at 8:30am.

NAPP2111252587 CARRACAS 27B #16H @ 30-039-31056

General Incident Information

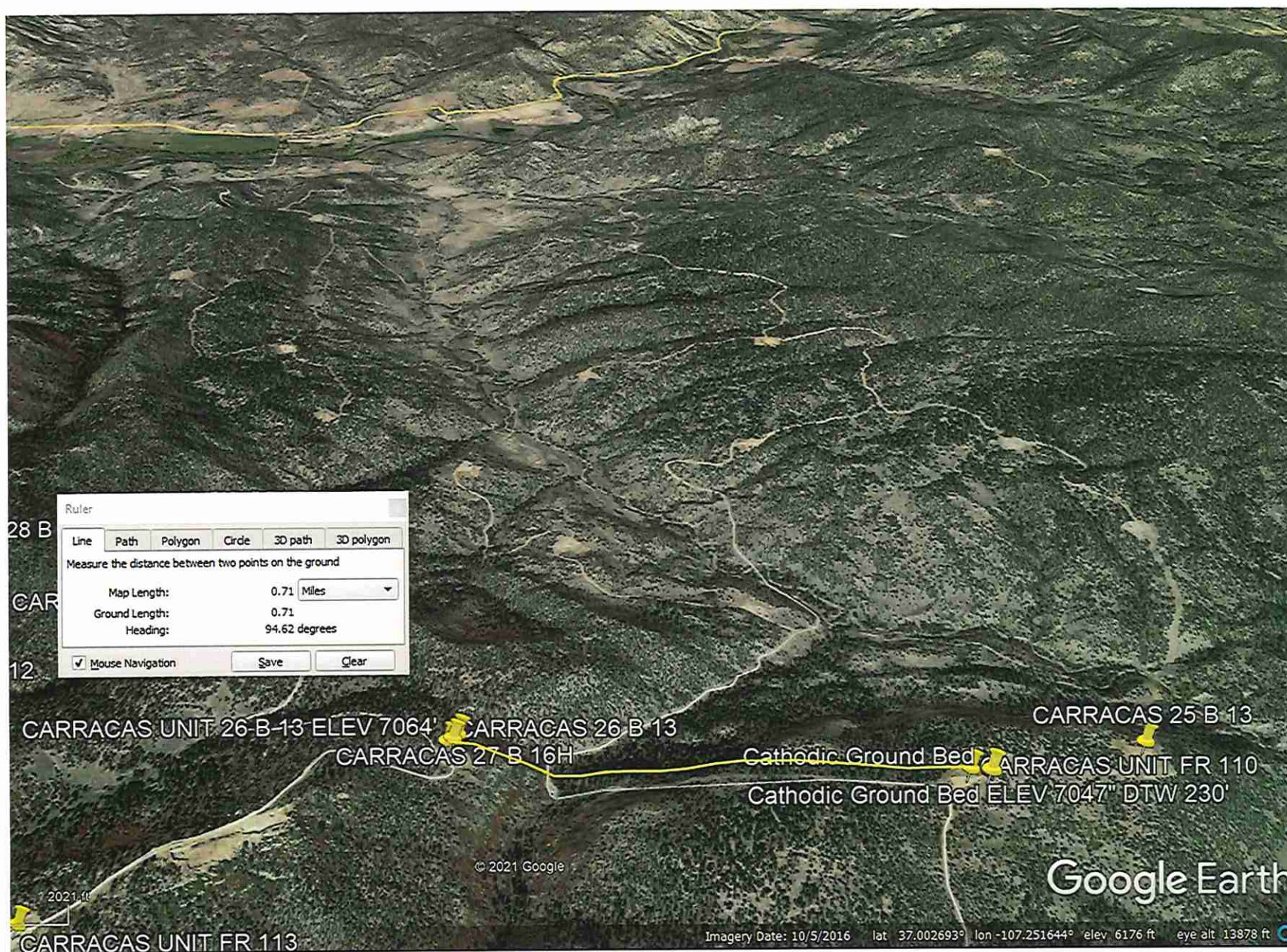
Site Name: CARRACAS 27B #16H
Well: [30-039-31056] CARRACAS 27B #016H
Facility:
Operator: [330132] MorningStar Operating LLC
Status: Closure Not Approved
Type: Produced Water Release
District: Aztec

Incident Location: M-26-32N-04W 1044 FSL 748 FWL
Lat/Long: 36.9533806,-107.2304993 NAD83
Directions:

Thank you,

Vanessa Fields
Regulatory Compliance Manager
Walsh Engineering
O: 505-327-4892
C: 505-787-9100
vanessa@walsheng.net

30-039-31056 CARRACAS 27B #016H DTW 213'



Ground Bed Drilling Log											
Company: Energen Resources			Well Name: CUFR 110			Location:			Date: 10/11/2011		
Ground Bed Depth:		500'	Diameter 6 3/4"			Number Well:		One			
Isolation Plugs Set: None						If So Where:					
Coke Type: Loresco SWS						Total Weight LBS: 3000 lbs.					
Anodes Type: Anotec SHA Silicon Irones						Weight: 45 lbs.					
Power Source: DC			Volts: 9			Amps: 21.4			Resistance: .42		
Depth Feet	Drilling Log	Anodes Log			Remarks:	Depth Feet	Drilling Log	Anodes Log			Remarks:
		Logged	Coked	Depth				Logged	Coked	Depth	
0						260	Shale	3.8		260'	
10						270	Shale	4.2		270'	
20						280	Shale	4.4		280'	
30						290	Shale	4.4	8.8	290'	#1
40						300	Shale	4.4	8.8	300'	#2
50						310	Shale	4.0	8.0	310'	#3
60						320	Shale	2.2	4.4	320'	#4
70						330	Shale	2.2	4.4	330'	#5
80						340	Shale	2.3	4.2	340'	#6
90						350	Shale	3.4	6.9	350'	#7
100						360	Shale	4.0	6.5	360'	#8
110						370	Shale	3.1	5.5	370'	#9
120						380	Shale	2.0	3.1	380'	#10
130						390	Shale	2.0	3.1	370'	#11
140						400	Sand Shale	1.8			
150						410	Sand Shale	1.2			
160						420	Shale	4.0	6.2	420'	#12
170						430	Shale	3.6	4.5	430'	#14
180						440	Sand Shale	2.0			
190						450	Sand Shale	1.2			
200						460	Shale	3.9	4.4	460'	#13
210						470	Shale	3.5	9.1	470'	#14
220						480	Shale	3.6	4.0	480'	#15
230	Sand Stone	2.0		230'	Water	490					
240	Sandy Shale	2.0	3.5	240'		500					

250	Sandy Shale	2.0	3.0	250'								
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New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

PLSS Search:

Section(s): 26 **Township:** 32N **Range:** 04W

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.

4/19/21 12:01 PM

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

PLSS Search:

Section(s): 25 **Township:** 32N **Range:** 04W

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.

4/19/21 12:01 PM WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)
No records found.

PLSS Search:

Section(s): 26 **Township:** 31N **Range:** 04W

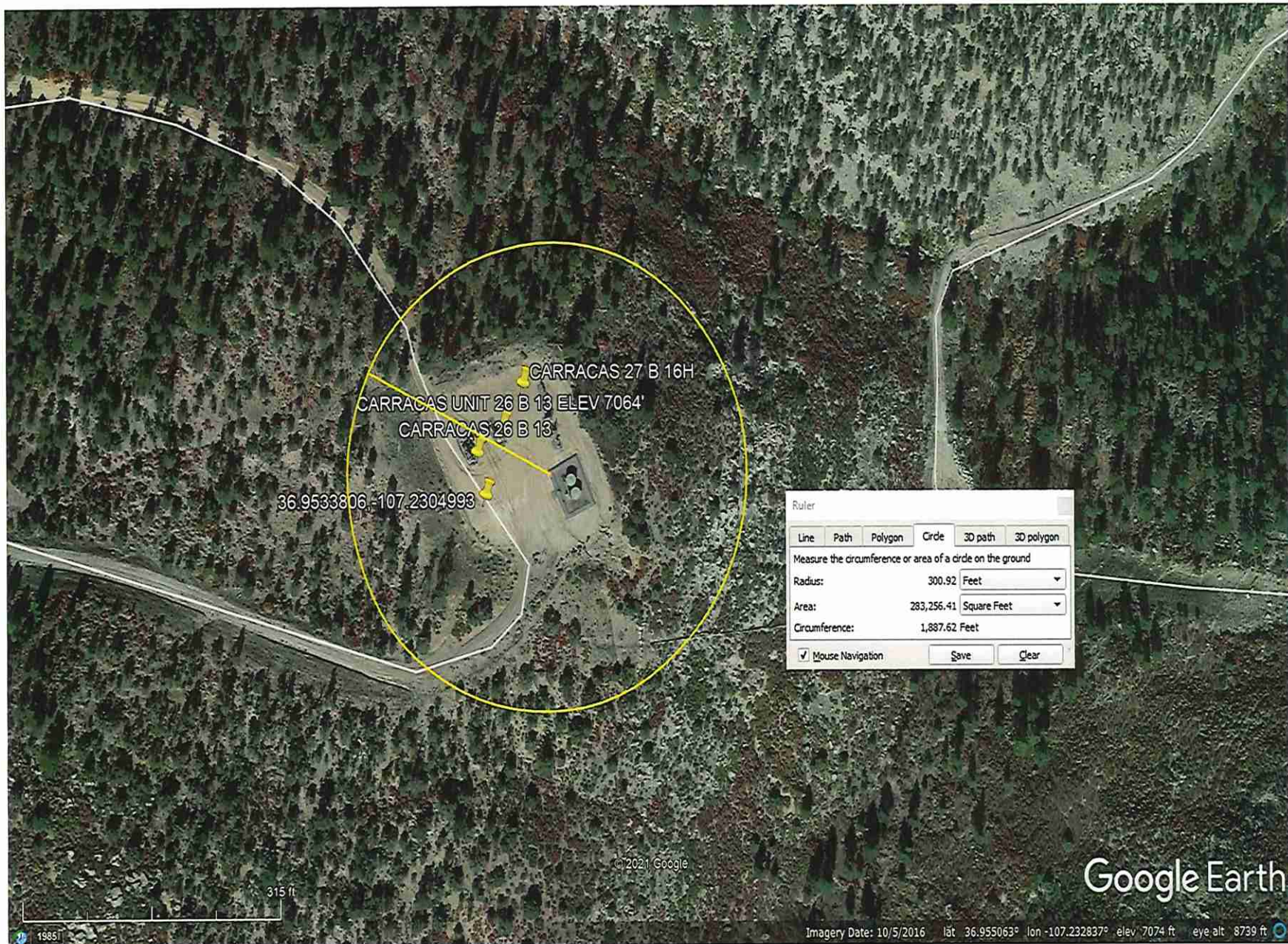
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

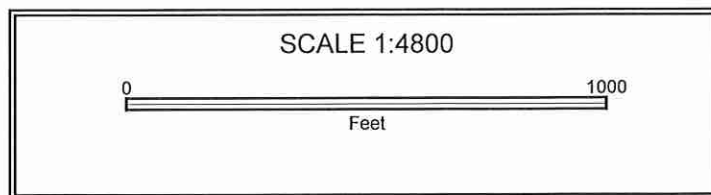
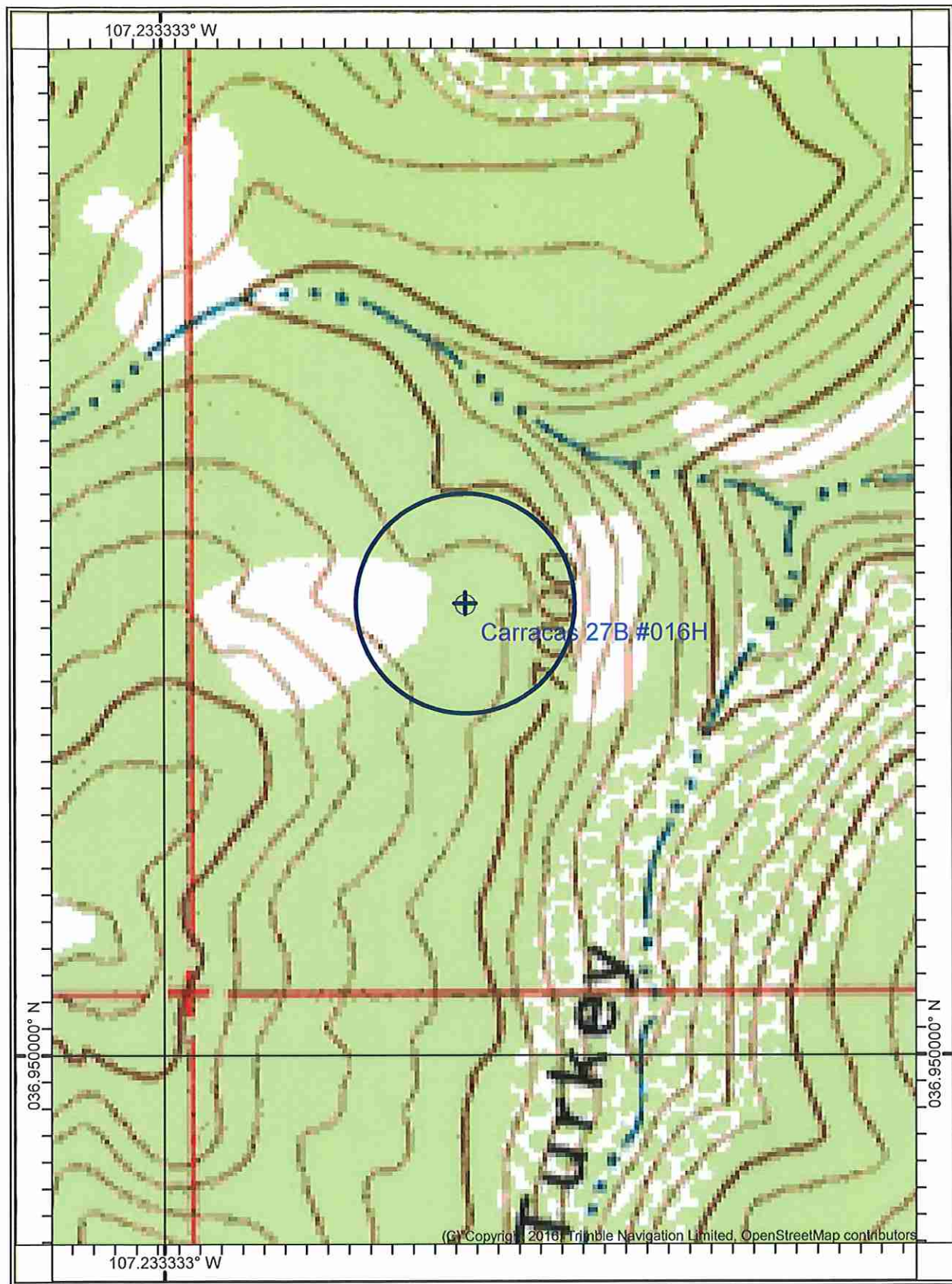
4/19/21 12:01 PM

WATER COLUMN/ AVERAGE
DEPTH TO WATER

30-039-31056 CARRACAS 27B #016H

Sitting Criteria





National Flood Hazard Layer FIRMette



107°14'9"W 36°57'27"N



Released to Imaging: 3/2/2022 9:54:14 AM

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone X
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		8 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

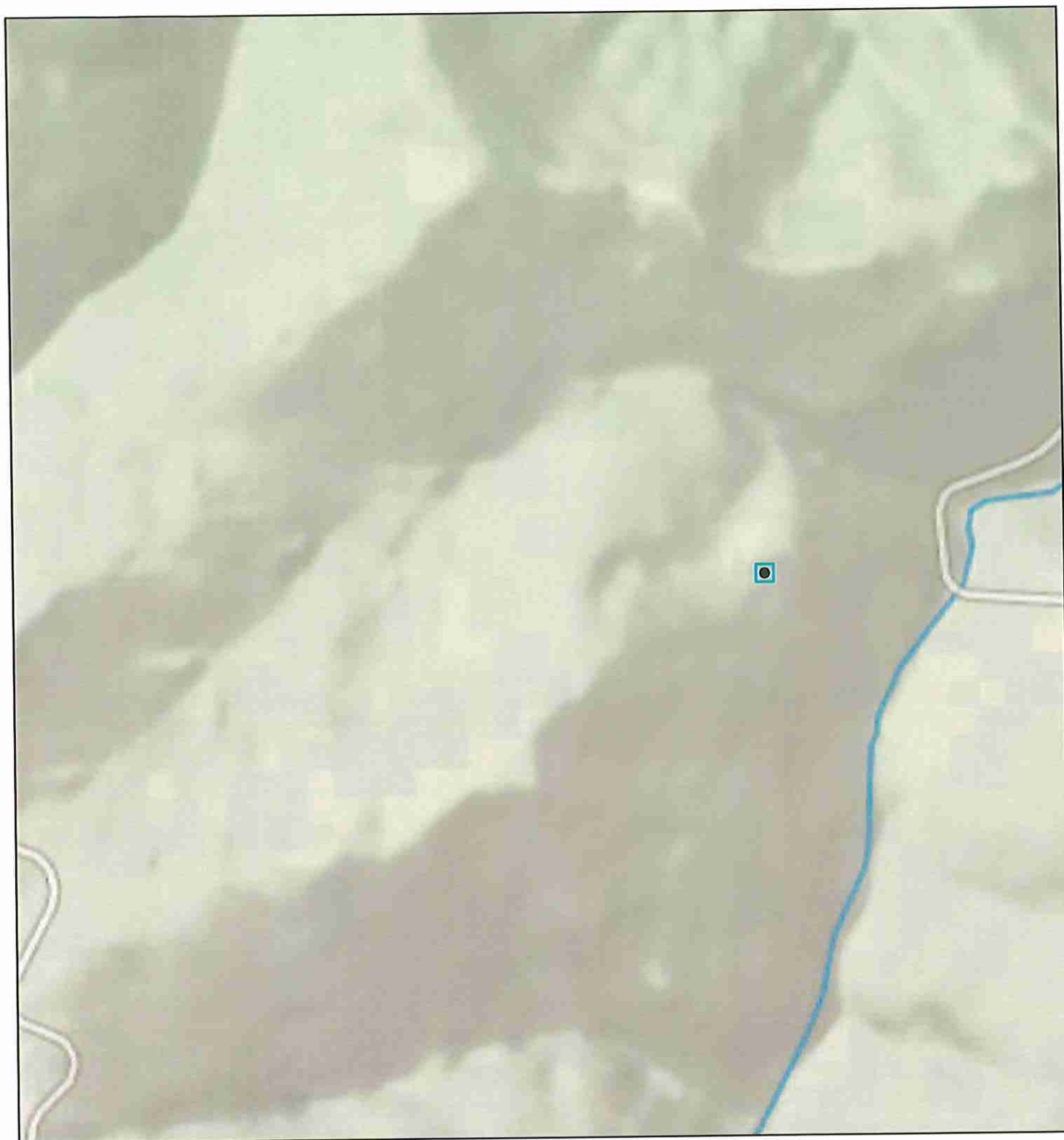
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

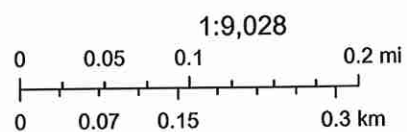
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/19/2021 at 1:56 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Coal Mines in New Mexico



4/19/2021, 1:26:35 PM



National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp.

EMNRD MMD GIS Coordinator

NM Energy, Minerals and Natural Resources Department (<http://nm-emnrd.maps.arcgis.com/apps/webappbuilder/index.html?id=7ebfa3c432db42978d66c99a9cc8311a>)

Report to:
Vanessa Fields



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Morningstar Operating LLC.

Project Name: Carracas 27B #016#

Work Order: E106039

Job Number: 20100-0001

Received: 6/17/2021

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/23/21

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 6/23/21

Vanessa Fields
811 S. Main Ave.
Aztec, NM 87410



Project Name: Carracas 27B #016#
Workorder: E106039
Date Received: 6/17/2021 11:45:00AM

Vanessa Fields,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/17/2021 11:45:00AM, under the Project Name: Carracas 27B #016#.

The analytical test results summarized in this report with the Project Name: Carracas 27B #016# apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
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Sample Summary

Morningstar Operating LLC. 811 S. Main Ave. Aztec NM, 87410	Project Name: Carracas 27B #016# Project Number: 20100-0001 Project Manager: Vanessa Fields	Reported: 06/23/21 13:19
---	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SB #001	E106039-01A	Soil	06/17/21	06/17/21	Glass Jar, 4 oz.
SB #002	E106039-02A	Soil	06/17/21	06/17/21	Glass Jar, 4 oz.
SB #003	E106039-03A	Soil	06/17/21	06/17/21	Glass Jar, 4 oz.

Sample Data

Morningstar Operating LLC.
811 S. Main Ave.
Aztec NM, 87410

Project Name: Carracas 27B #016#
Project Number: 20100-0001
Project Manager: Vanessa Fields

Reported:
6/23/2021 1:19:14PM

SB #001

E106039-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2125021
Benzene	ND	0.0250	1	06/17/21	06/19/21	
Ethylbenzene	ND	0.0250	1	06/17/21	06/19/21	
Toluene	ND	0.0250	1	06/17/21	06/19/21	
o-Xylene	ND	0.0250	1	06/17/21	06/19/21	
p,m-Xylene	ND	0.0500	1	06/17/21	06/19/21	
Total Xylenes	ND	0.0250	1	06/17/21	06/19/21	
Surrogate: 4-Bromochlorobenzene-PID		91.4 %	70-130	06/17/21	06/19/21	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2125021
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/21	06/19/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	70-130	06/17/21	06/19/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2125026
Diesel Range Organics (C10-C28)	ND	25.0	1	06/18/21	06/19/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/21	06/19/21	
Surrogate: n-Nonane		111 %	50-200	06/18/21	06/19/21	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2126006
Chloride	393	20.0	1	06/21/21	06/22/21	



Sample Data

Morningstar Operating LLC.
811 S. Main Ave.
Aztec NM, 87410

Project Name: Carracas 27B #016#
Project Number: 20100-0001
Project Manager: Vanessa Fields

Reported:
6/23/2021 1:19:14PM

SB #002

E106039-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: RKS		Batch: 2125021
Benzene	ND	0.0250	1	06/17/21	06/19/21	
Ethylbenzene	ND	0.0250	1	06/17/21	06/19/21	
Toluene	ND	0.0250	1	06/17/21	06/19/21	
o-Xylene	ND	0.0250	1	06/17/21	06/19/21	
p,m-Xylene	ND	0.0500	1	06/17/21	06/19/21	
Total Xylenes	ND	0.0250	1	06/17/21	06/19/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.9 %	70-130	06/17/21	06/19/21	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: RKS		Batch: 2125021
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/21	06/19/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.7 %	70-130	06/17/21	06/19/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: JL		Batch: 2125026
Diesel Range Organics (C10-C28)	ND	25.0	1	06/18/21	06/19/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/21	06/19/21	
<i>Surrogate: n-Nonane</i>		106 %	50-200	06/18/21	06/19/21	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: RAS		Batch: 2126006
Chloride	403	20.0	1	06/21/21	06/22/21	



Sample Data

Morningstar Operating LLC.
811 S. Main Ave.
Aztec NM, 87410

Project Name: Carracas 27B #016#
Project Number: 20100-0001
Project Manager: Vanessa Fields

Reported:
6/23/2021 1:19:14PM

SB #003

E106039-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: RKS		Batch: 2125021
Benzene	ND	0.0250	1	06/17/21	06/19/21	
Ethylbenzene	ND	0.0250	1	06/17/21	06/19/21	
Toluene	ND	0.0250	1	06/17/21	06/19/21	
o-Xylene	ND	0.0250	1	06/17/21	06/19/21	
p,m-Xylene	ND	0.0500	1	06/17/21	06/19/21	
Total Xylenes	ND	0.0250	1	06/17/21	06/19/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.1 %	70-130	06/17/21	06/19/21	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: RKS		Batch: 2125021
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/17/21	06/19/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		99.5 %	70-130	06/17/21	06/19/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: JL		Batch: 2125026
Diesel Range Organics (C10-C28)	ND	25.0	1	06/18/21	06/19/21	
Oil Range Organics (C28-C36)	ND	50.0	1	06/18/21	06/19/21	
<i>Surrogate: n-Nonane</i>		113 %	50-200	06/18/21	06/19/21	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: RAS		Batch: 2126006
Chloride	562	20.0	1	06/21/21	06/22/21	



QC Summary Data

Morningstar Operating LLC. 811 S. Main Ave. Aztec NM, 87410	Project Name: Carracas 27B #016# Project Number: 20100-0001 Project Manager: Vanessa Fields	Reported: 6/23/2021 1:19:14PM
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Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Prepared: 06/17/21 Analyzed: 06/18/21

Blank (2125021-BLK1)

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.25		8.00		90.6	70-130			

Prepared: 06/17/21 Analyzed: 06/18/21

LCS (2125021-BS1)

Benzene	5.03	0.0250	5.00		101	70-130			
Ethylbenzene	5.00	0.0250	5.00		100	70-130			
Toluene	5.21	0.0250	5.00		104	70-130			
o-Xylene	5.15	0.0250	5.00		103	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.43		8.00		92.9	70-130			

Source: E106029-02 Prepared: 06/17/21 Analyzed: 06/18/21

Matrix Spike (2125021-MS1)

Benzene	5.06	0.0250	5.00	0.0659	99.9	54-133			
Ethylbenzene	5.05	0.0250	5.00	0.0455	100	61-133			
Toluene	5.25	0.0250	5.00	0.0639	104	61-130			
o-Xylene	5.20	0.0250	5.00	0.0412	103	63-131			
p,m-Xylene	10.3	0.0500	10.0	0.0812	102	63-131			
Total Xylenes	15.5	0.0250	15.0	0.122	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.0	70-130			

Source: E106029-02 Prepared: 06/17/21 Analyzed: 06/18/21

Matrix Spike Dup (2125021-MSD1)

Benzene	4.95	0.0250	5.00	0.0659	97.6	54-133	2.32	20	
Ethylbenzene	4.92	0.0250	5.00	0.0455	97.4	61-133	2.62	20	
Toluene	5.11	0.0250	5.00	0.0639	101	61-130	2.67	20	
o-Xylene	5.05	0.0250	5.00	0.0412	100	63-131	2.85	20	
p,m-Xylene	10.0	0.0500	10.0	0.0812	99.3	63-131	2.64	20	
Total Xylenes	15.1	0.0250	15.0	0.122	99.6	63-131	2.71	20	
Surrogate: 4-Bromochlorobenzene-PID	7.66		8.00		95.8	70-130			



QC Summary Data

Momingstar Operating LLC. 811 S. Main Ave. Aztec NM, 87410	Project Name: Carracas 27B #016# Project Number: 20100-0001 Project Manager: Vanessa Fields	Reported: 6/23/2021 1:19:14PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Prepared: 06/17/21 Analyzed: 06/18/21

Blank (2125021-BLK1)

Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.7	70-130		

Prepared: 06/17/21 Analyzed: 06/18/21

LCS (2125021-BS2)

Gasoline Range Organics (C6-C10)	51.1	20.0	50.0		102	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.1	70-130		

Source: E106029-02 Prepared: 06/17/21 Analyzed: 06/18/21

Matrix Spike (2125021-MS2)

Gasoline Range Organics (C6-C10)	52.2	20.0	50.0	ND	104	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.85		8.00		98.1	70-130		

Source: E106029-02 Prepared: 06/17/21 Analyzed: 06/18/21

Matrix Spike Dup (2125021-MSD2)

Gasoline Range Organics (C6-C10)	51.8	20.0	50.0	ND	104	70-130	0.906	20
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.97		8.00		99.7	70-130		



QC Summary Data

Morningstar Operating LLC. 811 S. Main Ave. Aztec NM, 87410	Project Name: Carracas 27B #016# Project Number: 20100-0001 Project Manager: Vanessa Fields	Reported: 6/23/2021 1:19:14PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Prepared: 06/18/21 Analyzed: 06/18/21

Blank (2125026-BLK1)

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.8		50.0		104	50-200			

Prepared: 06/18/21 Analyzed: 06/18/21

LCS (2125026-BS1)

Diesel Range Organics (C10-C28)	431	25.0	500		86.2	38-132			
Surrogate: n-Nonane	50.5		50.0		101	50-200			

Source: E106038-01 Prepared: 06/18/21 Analyzed: 06/18/21

Matrix Spike (2125026-MS1)

Diesel Range Organics (C10-C28)	678	50.0	500	144	107	38-132			
Surrogate: n-Nonane	60.7		50.0		121	50-200			

Source: E106038-01 Prepared: 06/18/21 Analyzed: 06/18/21

Matrix Spike Dup (2125026-MSD1)

Diesel Range Organics (C10-C28)	684	50.0	500	144	108	38-132	0.867	20	
Surrogate: n-Nonane	63.1		50.0		126	50-200			



QC Summary Data

Morningstar Operating LLC. 811 S. Main Ave. Aztec NM, 87410	Project Name: Carracas 27B #016# Project Number: 20100-0001 Project Manager: Vanessa Fields	Reported: 6/23/2021 1:19:14PM
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Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2126006-BLK1) Prepared: 06/21/21 Analyzed: 06/22/21									
Chloride	ND	20.0							
LCS (2126006-BS1) Prepared: 06/21/21 Analyzed: 06/22/21									
Chloride	246	20.0	250		98.3	90-110			
Matrix Spike (2126006-MS1) Source: E106038-01 Prepared: 06/21/21 Analyzed: 06/22/21									
Chloride	252	20.0	250	ND	101	80-120			
Matrix Spike Dup (2126006-MSD1) Source: E106038-01 Prepared: 06/21/21 Analyzed: 06/22/21									
Chloride	253	20.0	250	ND	101	80-120	0.103	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Morningstar Operating LLC.
811 S. Main Ave.
Aztec NM, 87410

Project Name: Carracas 27B #016#
Project Number: 20100-0001
Project Manager: Vanessa Fields

Reported:
06/23/21 13:19

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Project Information

Chain of Custody

Page 1 of 1

[illegible]

Page 13 of 14

Envirotech Analytical Laboratory

Printed: 6/17/2021 11:57:59AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Morningstar Operating LLC.	Date Received: 06/17/21 11:45	Work Order ID: E106039
Phone: (505) 419-6055	Date Logged In: 06/17/21 11:56	Logged In By: Alexa Michaels
Email: Vanessa@walsheng.net	Due Date: 06/24/21 17:00 (5 day TAT)	

Chain of Custody (COC)

- | | | |
|--|-----|--------------------------------|
| 1. Does the sample ID match the COC? | Yes | |
| 2. Does the number of samples per sampling site location match the COC | Yes | |
| 3. Were samples dropped off by client or carrier? | Yes | Carrier: <u>Vanessa Fields</u> |
| 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? | Yes | |
| 5. Were all samples received within holding time? | Yes | |
| Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion. | | |

Sample Turn Around Time (TAT)

- | | |
|---|-----|
| 6. Did the COC indicate standard TAT, or Expedited TAT? | Yes |
|---|-----|

Sample Cooler

- | | |
|--|-----|
| 7. Was a sample cooler received? | Yes |
| 8. If yes, was cooler received in good condition? | Yes |
| 9. Was the sample(s) received intact, i.e., not broken? | Yes |
| 10. Were custody/security seals present? | No |
| 11. If yes, were custody/security seals intact? | NA |
| 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C | Yes |
| Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling | |
| 13. If no visible ice, record the temperature. Actual sample temperature: <u>4°C</u> | |

Sample Container

- | | |
|--|-----|
| 14. Are aqueous VOC samples present? | No |
| 15. Are VOC samples collected in VOA Vials? | NA |
| 16. Is the head space less than 6-8 mm (pea sized or less)? | NA |
| 17. Was a trip blank (TB) included for VOC analyses? | NA |
| 18. Are non-VOC samples collected in the correct containers? | Yes |
| 19. Is the appropriate volume/weight or number of sample containers collected? | Yes |

Field Label

- | | |
|---|-----|
| 20. Were field sample labels filled out with the minimum information: | |
| Sample ID? | Yes |
| Date/Time Collected? | Yes |
| Collectors name? | Yes |

Sample Preservation

- | | |
|---|----|
| 21. Does the COC or field labels indicate the samples were preserved? | No |
| 22. Are sample(s) correctly preserved? | NA |
| 24. Is lab filtration required and/or requested for dissolved metals? | No |

Multiphase Sample Matrix

- | | |
|--|----|
| 26. Does the sample have more than one phase, i.e., multiphase? | No |
| 27. If yes, does the COC specify which phase(s) is to be analyzed? | NA |

Subcontract Laboratory

- | | |
|---|------------------------|
| 28. Are samples required to get sent to a subcontract laboratory? | No |
| 29. Was a subcontract laboratory specified by the client and if so who? | NA Subcontract Lab: NA |

Comments/Resolution

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

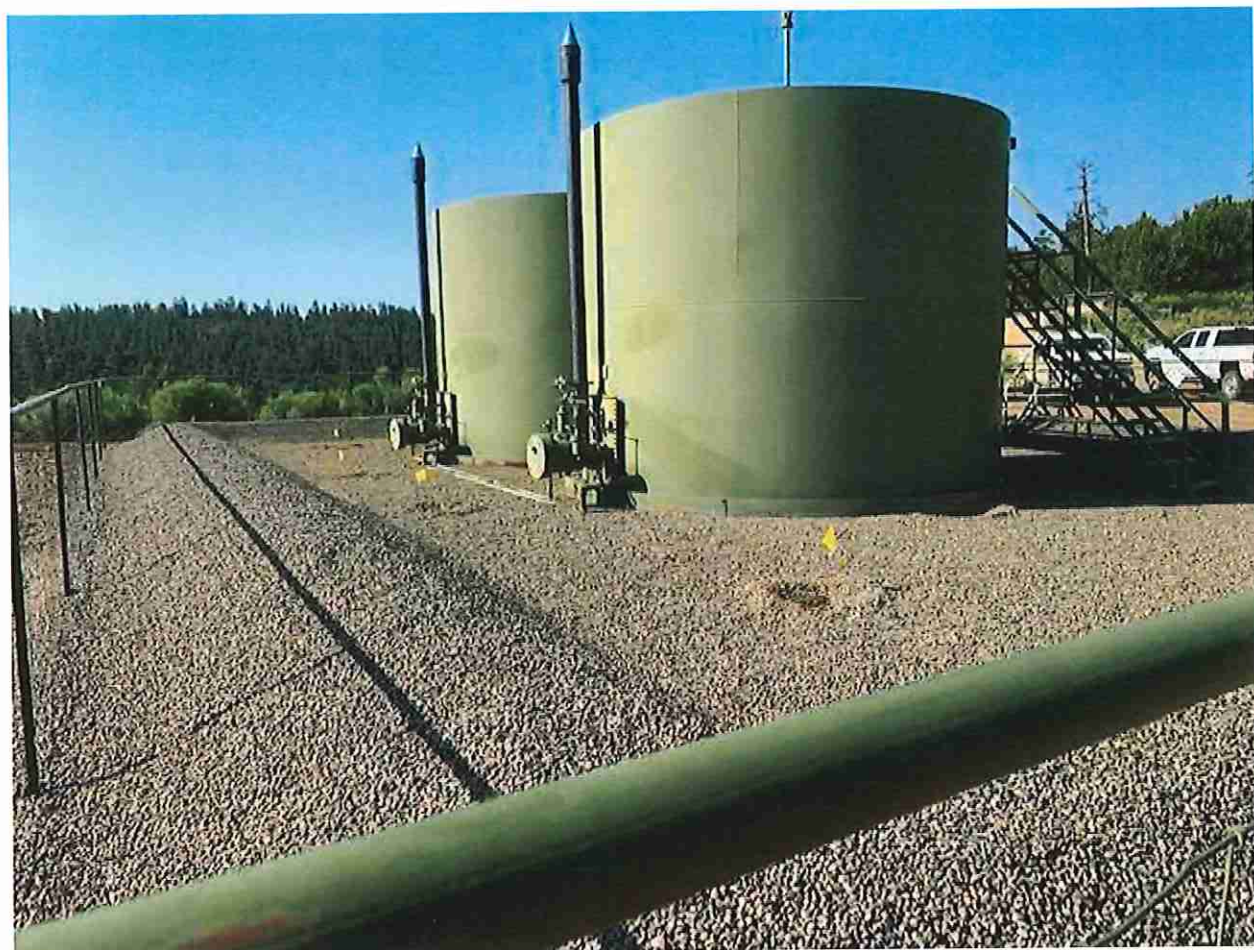
30-039-31056 CARRACAS 27B #016H

Sampling Photos



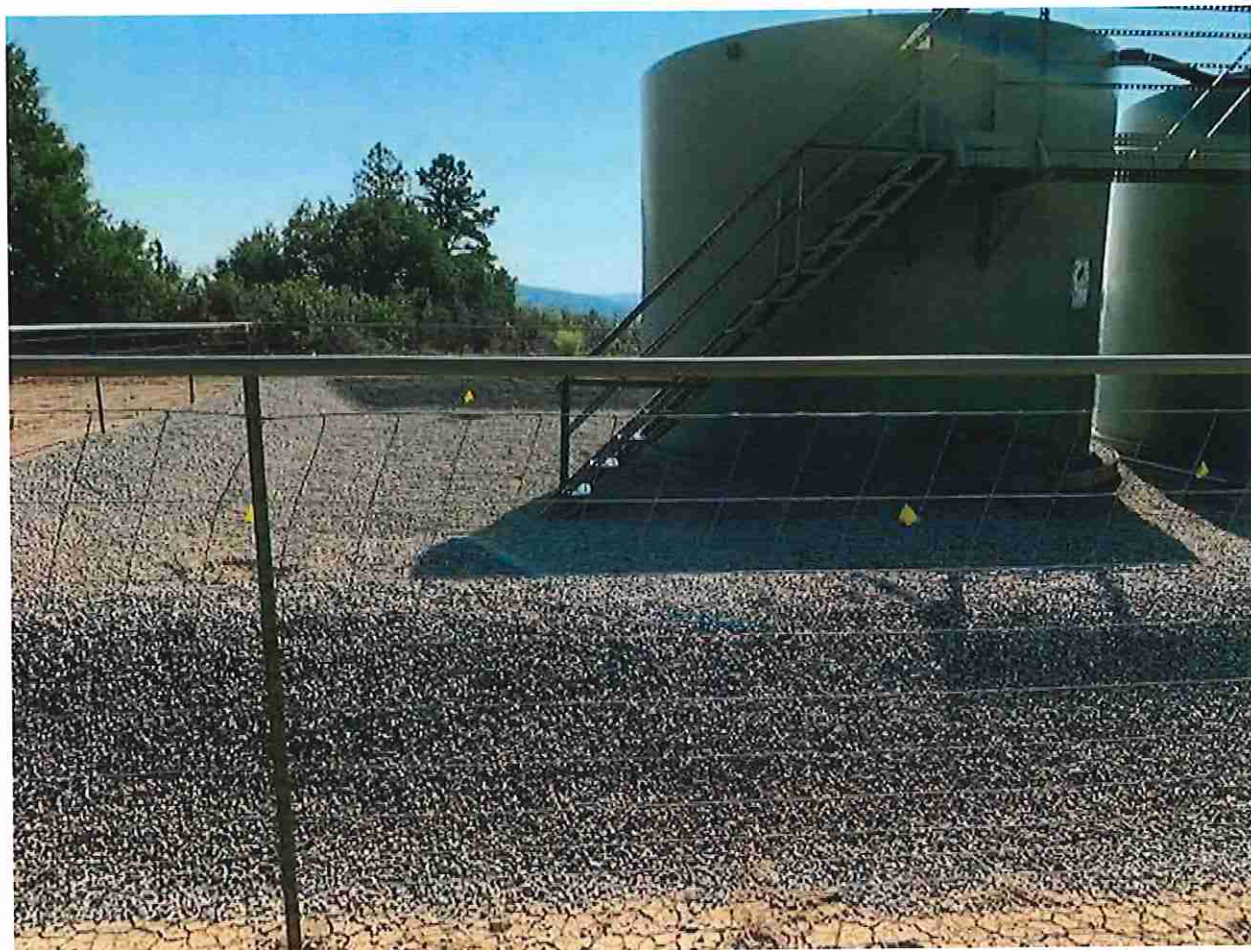
30-039-31056 CARRACAS 27B #016H

Sampling Photos



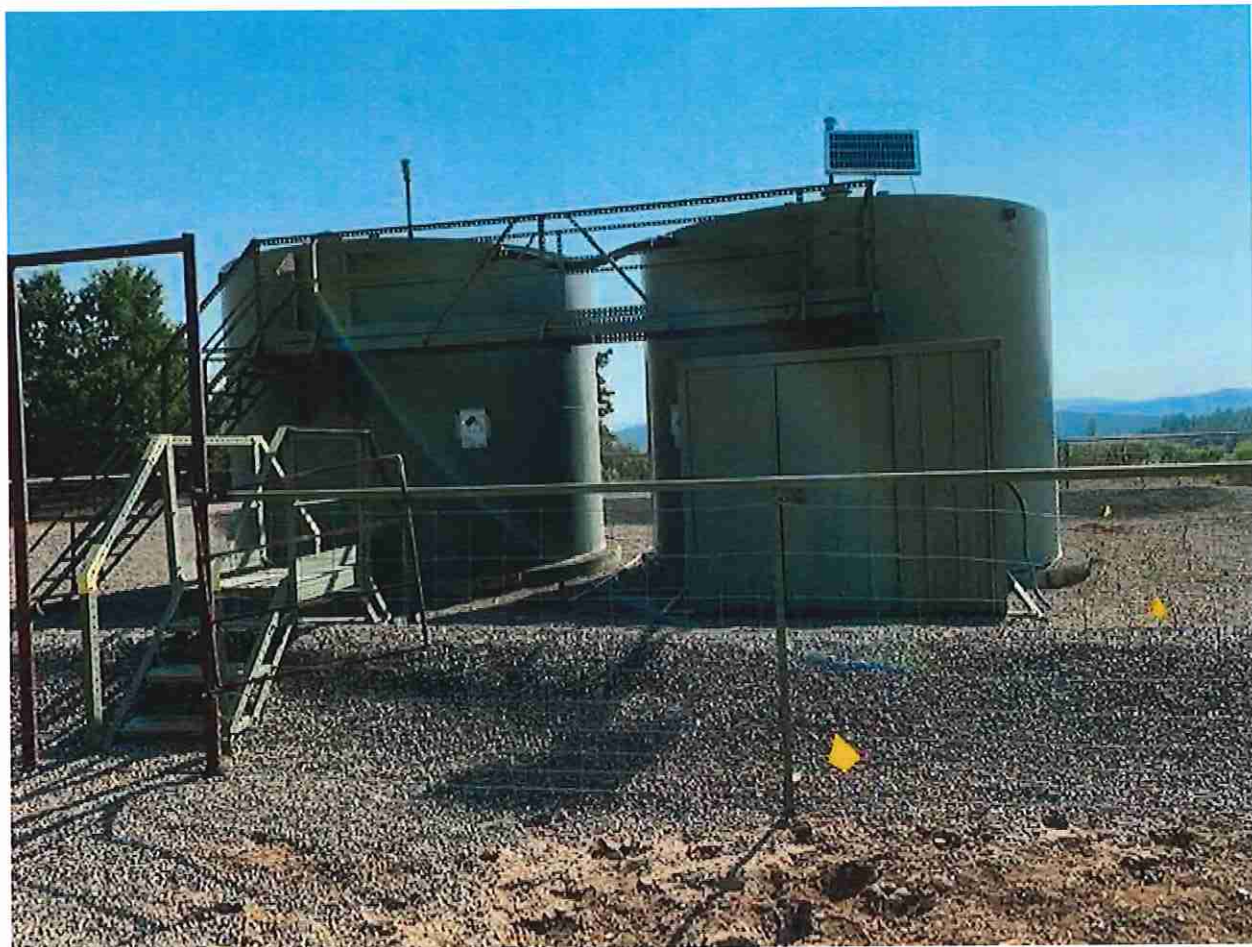
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Sampling Photos



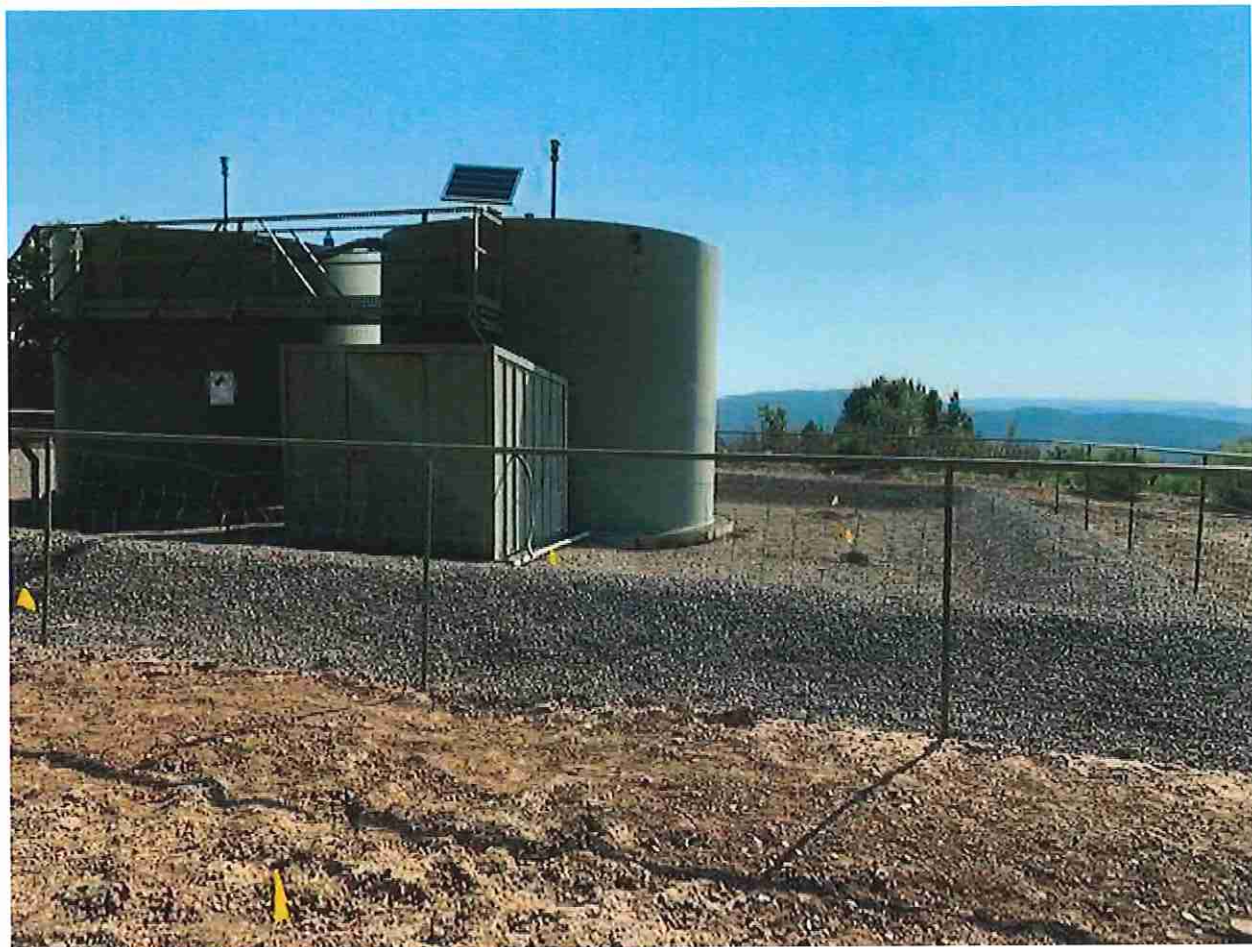
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Sampling Photos



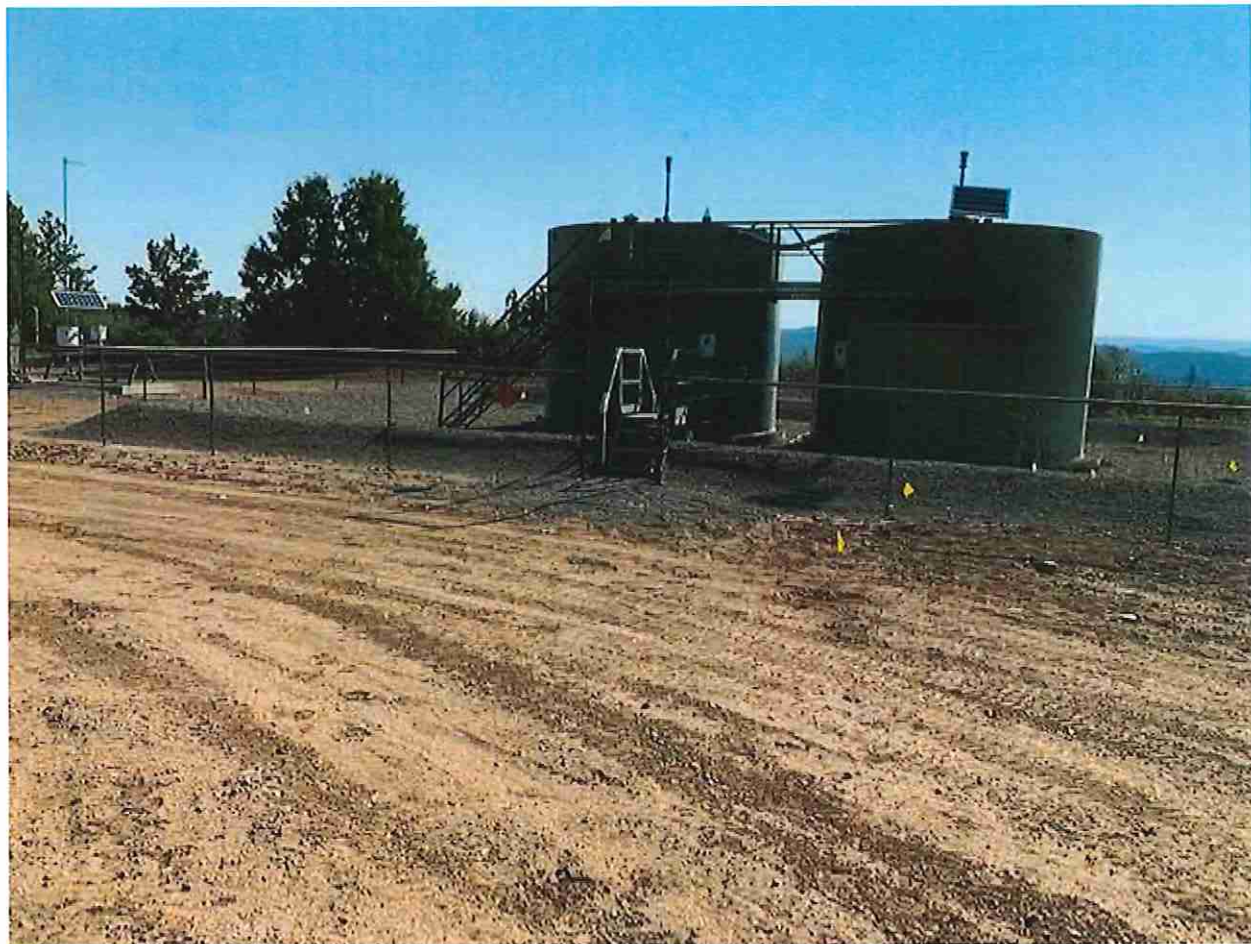
30-039-31056 CARRACAS 27B #016H

Sampling Photos



30-039-31056 CARRACAS 27B #016H

Sampling Photos



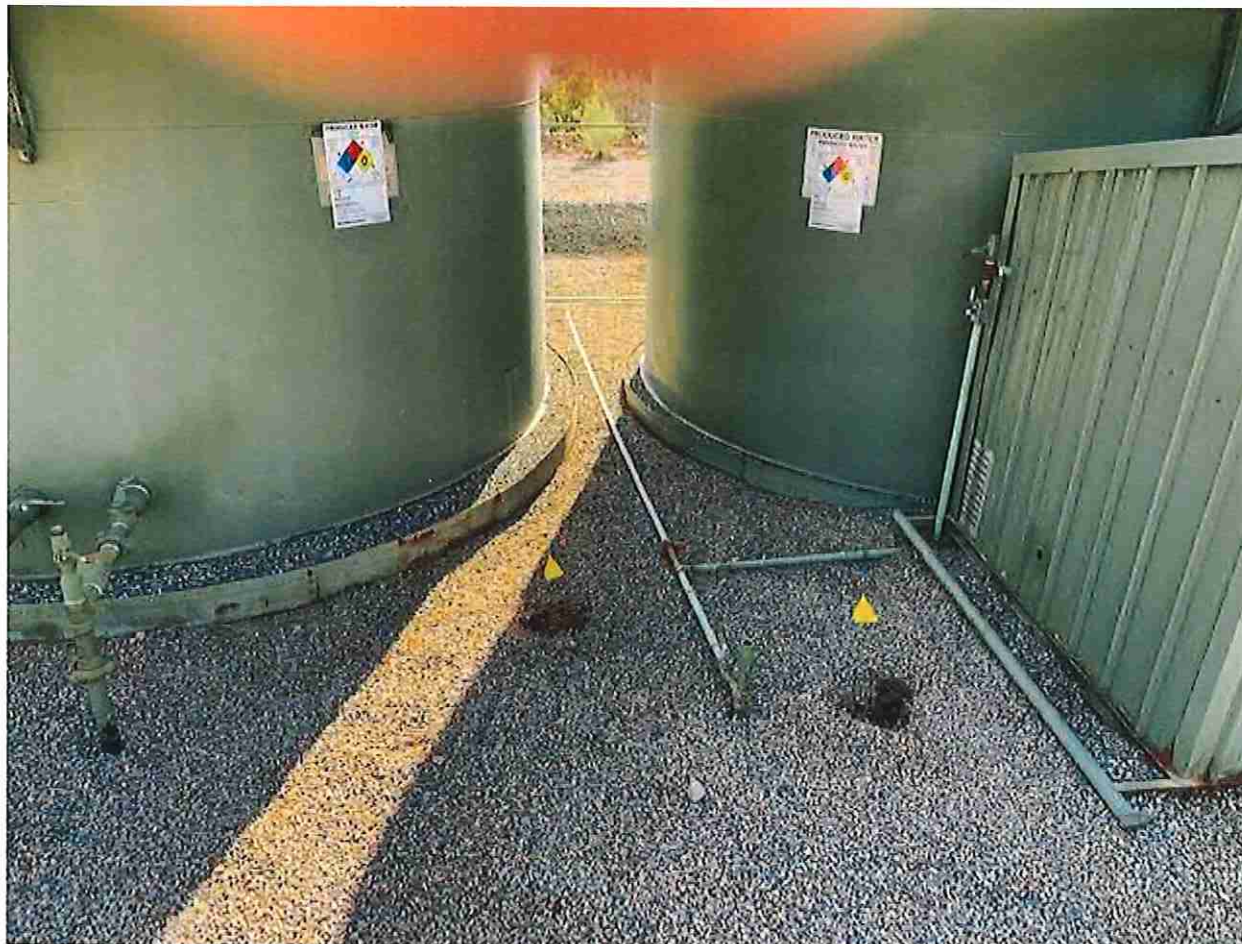
30-039-31056 CARRACAS 27B #016H

Sampling Photos



30-039-31056 CARRACAS 27B #016H

Sampling Photos



30-039-31056 CARRACAS 27B #016H

Sampling Photos



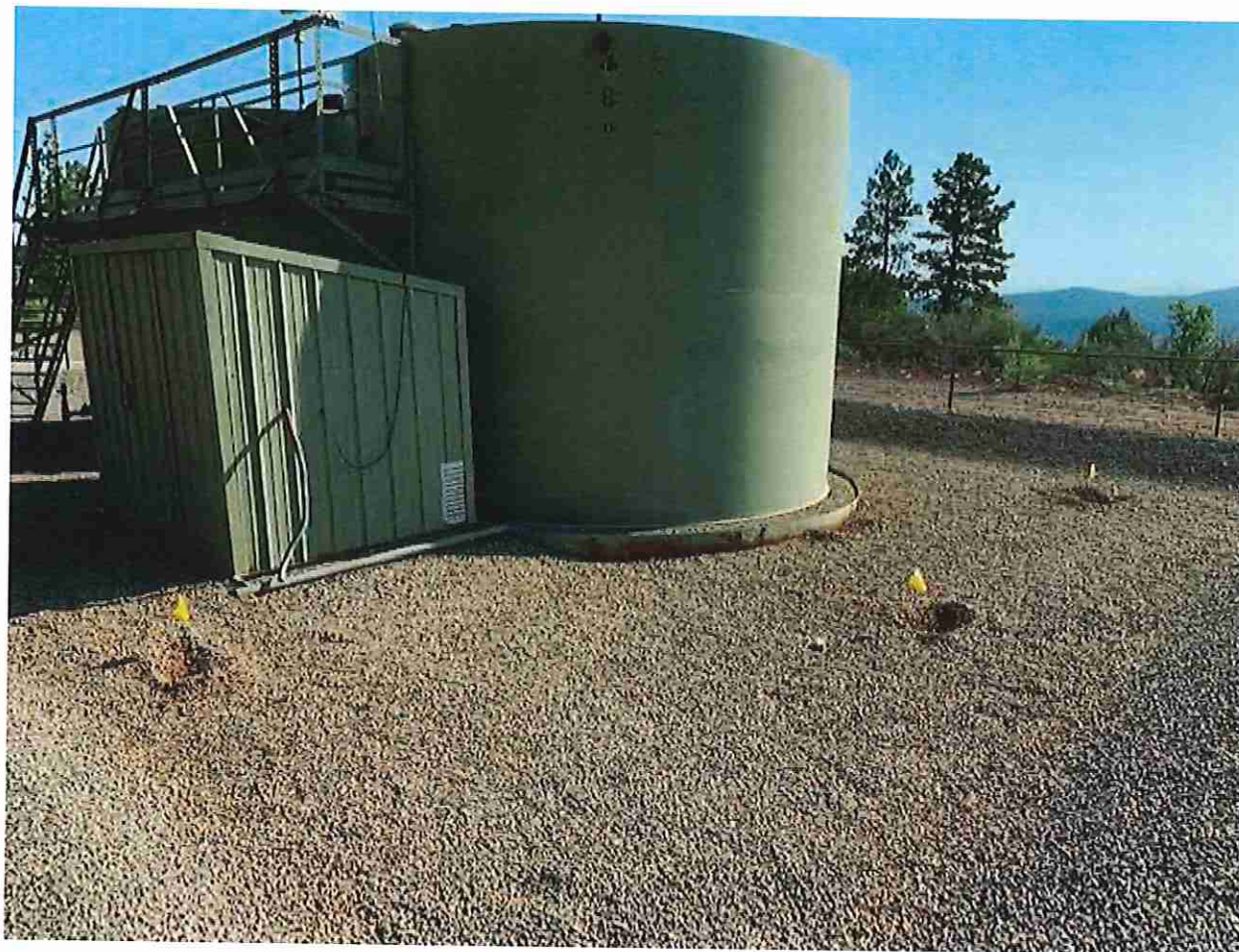
30-039-31056 CARRACAS 27B #016H

Sampling Photos



30-039-31056 CARRACAS 27B #016H

Sampling Photos



SPCC CHECKLIST FOR ROUTINE INSPECTIONS
(Inspection interval to be determined by Energen)

Instructions:

- Select the appropriate "Yes" or "No" or "NA" box for each item.
- For #1a, enter the oil tank berm dimensions for L and W in FEET and H in INCHES.
- Under "Remarks", include descriptions and comments on all situations that require further attention. A "Yes" requires a Remark.
- If oil tank numbers or oil tank sizes are not accurate, please correct in the spaces provided below.

Facility Name:		Carracas 27B #16H			Lease User ID:		
Name of Inspector:					Run Number:		SJ, 16
eMail Address:					Date		4/15/2021
Item		Yes	No	NA	Remarks:		
1	Are any of the tank berms too small or in need of maintenance?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>			
1a	Oil Tank Berm Dimensions Length and Width in FEET and Height in INCHES	L(FT) 20	W (FT) 35	H (IN) 1	BBLs 10.39	This form was used to determine volume within the tank berm only, not a SPCC inspection.	
2	Are there visible leaks or drips from any equipment or piping?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>			
3	Is there evidence (stains) of spills, leaks or drips on the ground near equipment or buried flowlines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>			
4	Is there corrosion or other signs of physical damage on any equipment or piping that cause concern?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>			
5	Are there liquids accumulated in the berms or catch pans that need removed?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>			
6	Do any tanks, containers or water pits lack adequate secondary containment?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>			
7	Are there any concerns with the base or supports that any of the tanks are resting on?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>			
8	Were any other conditions observed during the inspection that need addressed?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>			

	Tank No	Tank Size BBLs	Corrected Tank No	Corrected Tank Size
Tank 1:		400		
Tank 2:		400		
Tank 3:				
Tank 4:				
Tank 5:				
Tank 6:				
Tank 7:				
Tank 8:				

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 34693

CONDITIONS

Operator: CROSS TIMBERS ENERGY, LLC 400 West 7th Street Fort Worth, TX 76102	OGRID: 298299
	Action Number: 34693
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	3/2/2022