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	NCS1933641104
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Epic Energy L.L.C	OGRID 372834
Contact Name Vanessa Fields	Contact Telephone 505-787-9100
Contact email vanessa@walsheng.net	Incident # *(assigned by OCD) Release occurred from BGT/ Initial and Final Report*
Contact mailing address 7451 E. Main Street Farmington NM 87410	NCS1933641104

Location of Release Source

Latitude 36.2582474 Longitude -107.4914395
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Marcus A #012	Site Type Oil
Date Release Discovered 10-30-2019	API# *(if applicable) 30-039-24193*

Unit Letter	Section	Township	Range	County
B	05	23N	06W	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)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 3BBLS	Volume Recovered (bbls) 3BBLS
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release. On October 30, 2019 Epic Energy was exposing the walls to the BGT on the Marcus A #012 resulting in roughly a 3 bbl produced water release. A water truck was onsite pulling the tank when the release occurred. All free liquids were removed from inside the bermed area.

Received by OCD: 3/9/2020 11:48:03 AM

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ 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: Regulatory Compliance Manager

Signature: Date: 3/6/2020

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

OCD Only

Received by: Date:

Received by OCD: 3/9/2020 11:48:03 AM

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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?	78' (ft bgs)
Did this release impact groundwater or surface water?	☒ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ 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)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ 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?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ 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.

Received by OCD: 3/9/2020 11:48:03 AM

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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: Regulatory Compliance Manager

Signature: Date: 3/6/2020

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

OCD Only

Received by: Date:

Received by OCD: 3/9/2020 11:48:03 AM

State of New Mexico
Oil Conservation Division

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: Vanessa Fields Title: Regulatory Compliance Manager

Signature: Date: 3/6/2020

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

OCD Only

Received by: Date:

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: 6/15/2020

Printed Name: Cory Smith Title: Environmental Specialist

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Received by OCD: 3/9/2020 11:48:03 AM

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Vanessa Fields

From: Vanessa Fields
Sent: Wednesday, October 30, 2019 2:59 PM
To: Smith, Cory, EMNRD; 'Adeloye, Abiodun'
Cc: Vern Andrews; John Hampton Jr; Michael Dean
Subject: Marcus A #012 30-039-24193 BGT Release

Good afternoon,

Today at 12:30 Epic Energy was exposing the sidewalls on the BGT on the Marcus A #012 and the sidewall of the BGT failed resulting in roughly a 3 BBL release. The BGT has been removed and all free liquids have been removed.

An initial C-141 will be submitted through the NMOCD E-portal and a copy will be submitted to the BLM.

30-039-24193 MARCUS A #012 [325444]

General Well Information

Operator:	[372834] EPIC ENERGY, L.L.C.
Status:	Active
Well Type:	Oil
Work Type:	New
Surface Location:	B-05-23N-06W Lot: 2 860 FNL 2270 FEL
Lat/Long:	36.2582474,-107.4914398 NAD83
GL Elevation:	6847
KB Elevation:	
DF Elevation:	

Proposed Formation and/or Notes

Thank you,

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

Received by OCD: 3/9/2020 11:48:03 AM

30-039-24193 MARCUS A #012 [325444]

General Well Information

Operator:	[372834] EPIC ENERGY, L.L.C.
Status:	Active
Well Type:	Oil
Work Type:	New
Surface Location:	B-05-23N-06W Lot: 2 860 FNL 2270 FEL
Lat/Long:	36.2582474,-107.4914398 NAD83
GL Elevation:	6847
KB Elevation:	
DF Elevation:	

Proposed Formation and/or Notes

Thank you,

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

Received by OCD: 3/9/2020 11:48:03 AM

Vanessa Fields

From: Vanessa Fields
Sent: Wednesday, October 30, 2019 3:02 PM
To: brandon Powell
Subject: FW: Marcus A #012 30-039-24193 BGT Release

Good afternoon Brandon,

Please see the email notification below. I left a voicemail as well.

Thank you,

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

From: Vanessa Fields
Sent: Wednesday, October 30, 2019 2:59 PM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; 'Adeloye, Abiodun' <aadeloye@blm.gov>
Cc: Vern Andrews <vern@walsheng.net>; John Hampton Jr <jdhampton@walsheng.net>; Michael Dean <michael.dean@walsheng.net>
Subject: Marcus A #012 30-039-24193 BGT Release

Good afternoon,

Today at 12:30 Epic Energy was exposing the sidewalls on the BGT on the Marcus A #012 and the sidewall of the BGT failed resulting in roughly a 3 BBL release. The BGT has been removed and all free liquids have been removed.

An initial C-141 will be submitted through the NMOCD E-portal and a copy will be submitted to the BLM.

Received by OCD: 3/9/2020 11:48:03 AM

Vanessa Fields

From: Vanessa Fields
Sent: Monday, December 2, 2019 1:06 PM
To: Smith, Cory, EMNRD; 'Adeloye, Abiodun'
Cc: Michael Dean; John Hampton Jr
Subject: RE: 48 notice Marcus A #012 sampling

Good afternoon,

The sampling is Wednesday December 4, 2019 not December 5, 2019.

Sorry about the wrong date on the previous date error.

Thank you,

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

From: Vanessa Fields
Sent: Monday, December 2, 2019 10:19 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; 'Adeloye, Abiodun' <aadeloye@blm.gov>
Cc: Michael Dean <michael.dean@walsheng.net>; John Hampton Jr <jdhampton@walsheng.net>
Subject: 48 notice Marcus A #012 sampling

Good morning,

Epic Energy will be conducting final sampling on the Marcus A #012. The analytical results from the BGT closure were above closure standard. Sampling will be conducted Wednesday December 5, 2019 at 1:00pm.

Please let me know if you have any questions.

Thank you,

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

Received by OCD: 3/9/2020 11:48:03 AM

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Vanessa Fields

From: Michael Dean
Sent: Tuesday, December 3, 2019 9:13 AM
To: Vanessa Fields; Smith, Cory, EMNRD; 'Adeloye, Abiodun'
Cc: John Hampton Jr
Subject: RE: 48 notice Marcus A #012 sampling

A conflict in my timing could we move the time to 2:00 pm please.

From: Vanessa Fields
Sent: Monday, December 02, 2019 1:06 PM
To: Smith, Cory, EMNRD; 'Adeloye, Abiodun'
Cc: Michael Dean; John Hampton Jr
Subject: RE: 48 notice Marcus A #012 sampling

Good afternoon,

The sampling is Wednesday December 4, 2019 not December 5, 2019.

Sorry about the wrong date on the previous date error.

Thank you,

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

From: Vanessa Fields
Sent: Monday, December 2, 2019 10:19 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; 'Adeloye, Abiodun' <aadeloye@blm.gov>
Cc: Michael Dean <michael.dean@walsheng.net>; John Hampton Jr <jdhampton@walsheng.net>
Subject: 48 notice Marcus A #012 sampling

Good morning,

Epic Energy will be conducting final sampling on the Marcus A #012. The analytical results from the BGT closure were above closure standard. Sampling will be conducted Wednesday December 5, 2019 at 1:00pm.

Please let me know if you have any questions.

Thank you,

Received by OCD: 3/9/2020 11:48:03 AM

Vanessa Fields

From: Adeloye, Abiodun <aadeloye@blm.gov>
Sent: Monday, December 2, 2019 11:08 AM
To: Vanessa Fields
Cc: Smith, Cory, EMNRD; Michael Dean; John Hampton Jr
Subject: Re: [EXTERNAL] 48 notice Marcus A #012 sampling

Hi Vanessa, I will not be able to make it.
Thank you.

On Mon, Dec 2, 2019 at 10:19 AM Vanessa Fields <vanessa@walsheng.net> wrote:

> Good morning,
>
> Epic Energy will be conducting final sampling on the Marcus A #012. The analytical results from the BGT closure were above closure standard. Sampling will be conducted Wednesday December 5, 2019 at 1:00pm.
>
> Please let me know if you have any questions.
>
> Thank you,
>
> **Vanessa Fields**
>
> Regulatory Compliance Manager
>
> Walsh Engineering /Epic Energy LLC.
>
> O: 505-327-4892
>
> C: 505-787-9100
>
> vanessa@walsheng.net

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--
Abiodun Adeloye (Emmanuel)
Natural Resource Specialist
6251 College Blvd. Suite A
BLM - FFO
Phone: 505-564-7665
Cell #: 505-635-0984

Received by OCD: 3/9/2020 11:48:03 AM

Marcus A #012 Summary of Remediation

On October 30, 2019 Epic Energy was exposing the sidewalls on the BGT on the Marcus A #012, during the process the sidewall of the BGT was exposed resulting in a 3 BBL release of produced water. A water truck was onsite during the release and was able to recover the 3 BBLS of produced water. Epic Energy removed 13 cyds of impacted soil from the area and disposed of at Envirotech Landfarm. Confirmation sample was conducted on December 5, 2019 and a representative from the NMOCD nor the BLM were present during the sampling event. Notification was made to both agencies. (Please see attached in closure packet). One (5) point composite sample was collected from the release area which measured 10x8x6'. Please see attached sampling map. Analytical results demonstrated Non-Detect for all Table 1 19.15.29 constituents.

All analytical results demonstrated non-detect.

(Please see attached sitting criteria)

8021	Benzene	8015 (GRO/DRO/ORO	Chlorides
Non-Detect	Non-Detect	DRO Non-Detect	Non-Detect
		GRO Non-Detect	
		ORO Non-Detect	

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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

*Or other test methods approved by the division.
**Numerical limits or natural background level, whichever is greater.
***This applies to releases of produced water or other fluids, which may contain chloride.
[19.15.29.12 NMAC - N, 8/14/2018]

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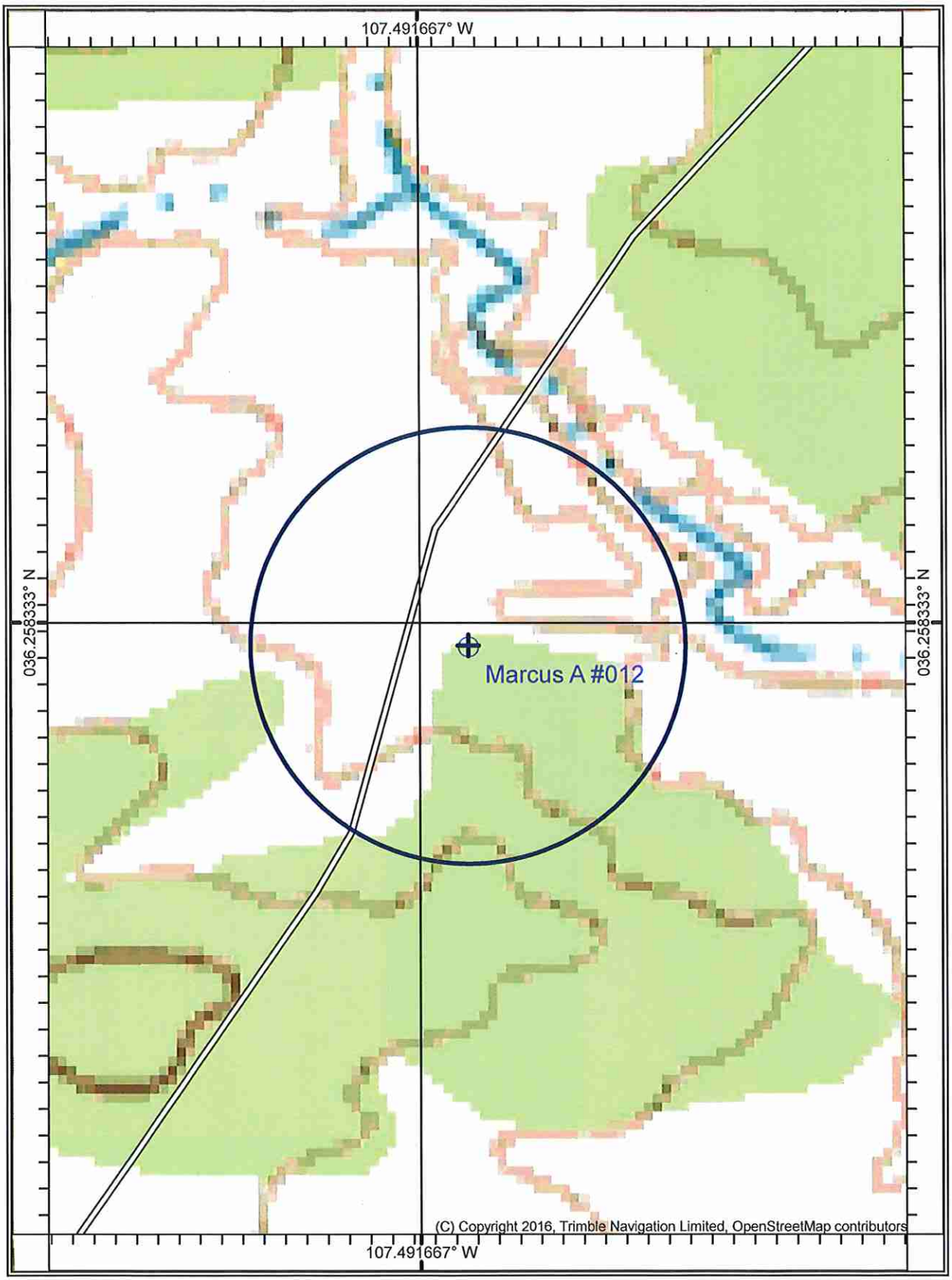
Marcus A #012 Sampling Map



SCALE 1:2400

0 100 200 300 400 500 600

Feet

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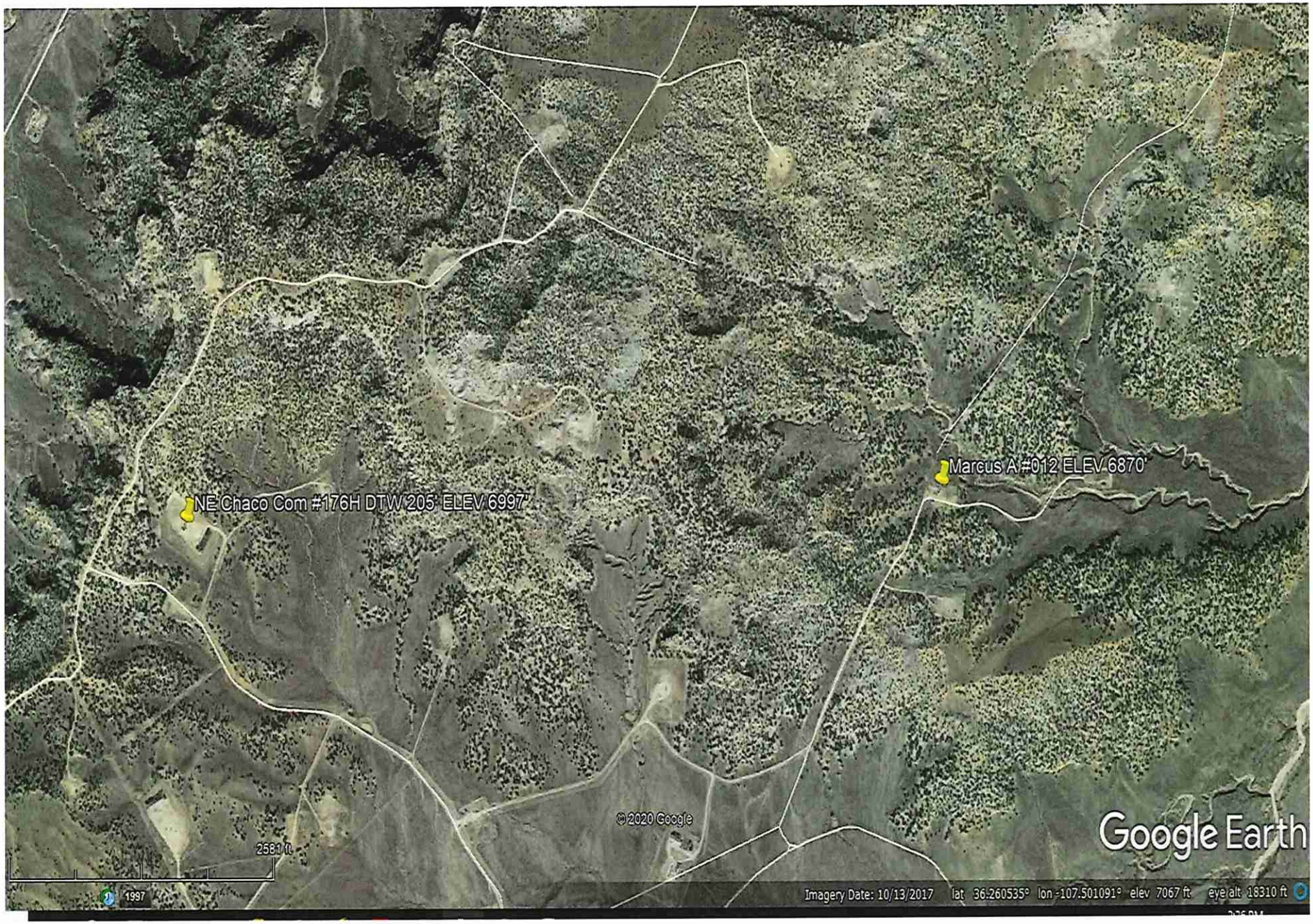
Marcus A #012 DTW 78'
Please see attached test well date NE Chaco Com #176



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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): 05 **Township:** 22N **Range:** 06W

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.

3/6/20 2:29 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Received by OCD: 3/9/2020 11:48:03 AM

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30-039-31251

Ground Bed Drilling Log

Company: WPX Energy Well: Chaco 176 H / Chaco 177 H Date: 10-24 27

Location: T-23-N R-6-W Sec 6 State: New Mexico Rig: Stacy #1

Ground Bed Depth: 300' Water Depth: 205' Diameter: 6 3/4

Fuel Usage: 130 gal

DEPTH	FORMATION	OTHER
0-20'	Sand Stone, Shale, Sand w/ Shale w/ Sand	PVC (2)
20-80	Sand Stone, Shale, Sand w/ Shale w/ Sand	
80-100	Sand Stone, Shale, Sand w/ Shale w/ Sand	
100-140	Sand Stone, Shale, Sand w/ Shale w/ Sand	
140-220	Sand Stone, Shale, Sand w/ Shale w/ Sand	
220-306	Sand Stone, Shale, Sand w/ Shale w/ Sand	
	Sand Stone, Shale, Sand w/ Shale w/ Sand	
	Sand Stone, Shale, Sand w/ Shale w/ Sand	
	Sand Stone, Shale, Sand w/ Shale w/ Sand	
	Sand Stone, Shale, Sand w/ Shale w/ Sand	
	Sand Stone, Shale, Sand w/ Shale w/ Sand	
	Sand Stone, Shale, Sand w/ Shale w/ Sand	

Received by OCD: 3/9/2020 11:48:03 AM

envirotech
Analytical Laboratory

Analytical Report

Report Summary

Client: Epic Energy

Samples Received: 12/5/2019
Job Number: 18012-0006
Work Order: P912010
Project Name/Location: Marcus A 12 BGT

Report Reviewed By: Walter Hinchman Date: 12/12/19

Walter Hinchman, Laboratory Director

Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted 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 NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

5796 Highway 64, Farmington, NM 87401 Ph (505) 632-0615 Fx (505) 632-1865
24 Hour Emergency Response Phone (800) 362-1879
envirotech-inc.com
Labadmin@envirotech-inc.com

Received by OCD: 3/9/2020 11:48:03 AM

envirotech
Analytical Laboratory

Epic Energy	Project Name:	Marcus A 12 BGT	
7420 Main Street	Project Number:	18012-0006	**Reported:**
Farmington NM, 87402	Project Manager:	Michael Dean	12/12/19 14:18

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Marcus A 12	P912010-01A	Soil	12/04/19	12/05/19	Glass Jar, 4 oz.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

Received by OCD: 3/9/2020 11:48:03 AM

envirotech
Analytical Laboratory

Epic Energy	Project Name:	Marcus A 12 BGT	
7420 Main Street	Project Number:	18012-0006	**Reported:**
Farmington NM, 87402	Project Manager:	Michael Dean	12/12/19 14:18

Marcus A 12
P912010-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1949032	12/06/19	12/06/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1949032	12/06/19	12/06/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1949032	12/06/19	12/06/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1949032	12/06/19	12/06/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1949032	12/06/19	12/06/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1949032	12/06/19	12/06/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*98.0 %*		*50-150*	*1949032*	*12/06/19*	*12/06/19*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1950012	12/11/19	12/12/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1950012	12/11/19	12/12/19	EPA 8015D	
Surrogate: n-Nonane		*98.8 %*		*50-200*	*1950012*	*12/11/19*	*12/12/19*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1949032	12/06/19	12/06/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.6 %*		*50-150*	*1949032*	*12/06/19*	*12/06/19*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1949034	12/06/19	12/06/19	EPA 300.0/9056A	

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Epic Energy	Project Name:	Marcus A 12 BGT	
7420 Main Street	Project Number:	18012-0006	**Reported:**
Farmington NM, 87402	Project Manager:	Michael Dean	12/12/19 14:18

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1949032 - Purge and Trap EPA 5030A										
Blank (1949032-BLK1)				Prepared: 12/06/19 0 Analyzed: 12/06/19 1						
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	*7.85*		"	*8.00*		*98.1*	*50-150*			
LCS (1949032-BS1)				Prepared: 12/06/19 0 Analyzed: 12/06/19 1						
Benzene	5.03	0.0250	mg/kg	5.00		101	70-130			
Toluene	5.12	0.0250	"	5.00		102	70-130			
Ethylbenzene	5.04	0.0250	"	5.00		101	70-130			
p,m-Xylene	10.0	0.0500	"	10.0		100	70-130			
o-Xylene	5.01	0.0250	"	5.00		100	70-130			
Total Xylenes	15.0	0.0250	"	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.99*		"	*8.00*		*99.9*	*50-150*			
Matrix Spike (1949032-MS1)		**Source: P912010-01**		Prepared: 12/06/19 0 Analyzed: 12/06/19 1						
Benzene	5.12	0.0250	mg/kg	5.00	ND	102	54.3-133			
Toluene	5.19	0.0250	"	5.00	ND	104	61.4-130			
Ethylbenzene	5.14	0.0250	"	5.00	ND	103	61.4-133			
p,m-Xylene	10.2	0.0500	"	10.0	ND	102	63.3-131			
o-Xylene	5.09	0.0250	"	5.00	ND	102	63.3-131			
Total Xylenes	15.3	0.0250	"	15.0	ND	102	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	*8.10*		"	*8.00*		*101*	*50-150*			
Matrix Spike Dup (1949032-MSD1)		**Source: P912010-01**		Prepared: 12/06/19 0 Analyzed: 12/06/19 2						
Benzene	4.94	0.0250	mg/kg	5.00	ND	98.7	54.3-133	3.71	20	
Toluene	5.06	0.0250	"	5.00	ND	101	61.4-130	2.71	20	
Ethylbenzene	4.94	0.0250	"	5.00	ND	98.9	61.4-133	3.85	20	
p,m-Xylene	9.81	0.0500	"	10.0	ND	98.1	63.3-131	4.06	20	
o-Xylene	4.89	0.0250	"	5.00	ND	97.8	63.3-131	4.02	20	
Total Xylenes	14.7	0.0250	"	15.0	ND	98.0	63.3-131	4.05	20	
Surrogate: 4-Bromochlorobenzene-PID	*8.07*		"	*8.00*		*101*	*50-150*			

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Epic Energy	Project Name:	Marcus A 12 BGT	
7420 Main Street	Project Number:	18012-0006	**Reported:**
Farmington NM, 87402	Project Manager:	Michael Dean	12/12/19 14:18

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1950012 - DRO Extraction EPA 3570										
Blank (1950012-BLK1)				Prepared: 12/11/19 1 Analyzed: 12/12/19 0						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	*48.4*		"	*50.0*		*96.8*	*50-200*			
LCS (1950012-BS1)				Prepared: 12/11/19 1 Analyzed: 12/12/19 0						
Diesel Range Organics (C10-C28)	471	25.0	mg/kg	500		94.1	38-132			
Surrogate: n-Nonane	*47.4*		"	*50.0*		*94.8*	*50-200*			
Matrix Spike (1950012-MS1)	**Source: P912010-01**			Prepared: 12/11/19 1 Analyzed: 12/12/19 0						
Diesel Range Organics (C10-C28)	522	25.0	mg/kg	500	ND	104	38-132			
Surrogate: n-Nonane	*48.5*		"	*50.0*		*96.9*	*50-200*			
Matrix Spike Dup (1950012-MSD1)	**Source: P912010-01**			Prepared: 12/11/19 1 Analyzed: 12/12/19 0						
Diesel Range Organics (C10-C28)	542	25.0	mg/kg	500	ND	108	38-132	3.80	20	
Surrogate: n-Nonane	*48.8*		"	*50.0*		*97.6*	*50-200*			

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Epic Energy	Project Name:	Marcus A 12 BGT	
7420 Main Street	Project Number:	18012-0006	**Reported:**
Farmington NM, 87402	Project Manager:	Michael Dean	12/12/19 14:18

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1949032 - Purge and Trap EPA 5030A										
Blank (1949032-BLK1)				Prepared: 12/06/19 0 Analyzed: 12/06/19 1						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.11*		"	*8.00*		*88.9*	*50-150*			
LCS (1949032-BS2)				Prepared: 12/06/19 0 Analyzed: 12/06/19 2						
Gasoline Range Organics (C6-C10)	47.6	20.0	mg/kg	50.0		95.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.19*		"	*8.00*		*89.9*	*50-150*			
Matrix Spike (1949032-MS2)		**Source: P912010-01**		Prepared: 12/06/19 0 Analyzed: 12/06/19 2						
Gasoline Range Organics (C6-C10)	46.3	20.0	mg/kg	50.0	ND	92.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.24*		"	*8.00*		*90.5*	*50-150*			
Matrix Spike Dup (1949032-MSD2)		**Source: P912010-01**		Prepared: 12/06/19 0 Analyzed: 12/06/19 2						
Gasoline Range Organics (C6-C10)	46.1	20.0	mg/kg	50.0	ND	92.2	70-130	0.538	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.10*		"	*8.00*		*88.7*	*50-150*			

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Epic Energy	Project Name:	Marcus A 12 BGT	
7420 Main Street	Project Number:	18012-0006	**Reported:**
Farmington NM, 87402	Project Manager:	Michael Dean	12/12/19 14:18

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1949034 - Anion Extraction EPA 300.0/9056A										
Blank (1949034-BLK1)				Prepared & Analyzed: 12/06/19 1						
Chloride	ND	20.0	mg/kg							
LCS (1949034-BS1)				Prepared & Analyzed: 12/06/19 1						
Chloride	252	20.0	mg/kg	250		101	90-110			
Matrix Spike (1949034-MS1)	**Source: P912010-01**			Prepared & Analyzed: 12/06/19 1						
Chloride	252	20.0	mg/kg	250	ND	101	80-120			
Matrix Spike Dup (1949034-MSD1)	**Source: P912010-01**			Prepared & Analyzed: 12/06/19 1						
Chloride	260	20.0	mg/kg	250	ND	104	80-120	3.09	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 my differ slightly.

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Epic Energy	Project Name:	Marcus A 12 BGT	
7420 Main Street	Project Number:	18012-0006	**Reported:**
Farmington NM, 87402	Project Manager:	Michael Dean	12/12/19 14:18

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Project Information

Chain of Custody

Page 1 of 1

Client:	EPIC ENERGY LLC
Project:	MARCUS A 12 BGT
Project Manager:	MICHAEL L DEAN
Address:	7415 E MAIN STREET
City, State, Zip	FARMINGTON N.M. 87402
Phone:	505-860-0481
Email:	MICHAEL.DEAN@WALSHENG.NET

Report Attention

Report due by:	12-13-19
Attention:	VANESSA FIELDS
Address:	7415 E MAIN
City, State, Zip	FARMINGTON N.M. 87402
Phone:	505-787-9100
Email:	VANESSA@WALSHENG.NET

Lab Use Only: Lab WO# P912010 — Job Number 1802-00006

TAT: 1D — 3D

EPA Program: RCRA — CWA — SDWA

State: NM X — CO — UT — AZ

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1	Remarks
2:15PM	12-4-19	S	6	MARCUS A 12	1	X	X	X			X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Michael Dean

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Michael Dean	12:30 PM	12-5-19	Raina Lopez	12/5/19	10:30
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only

Received on ice: (Y) / N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboraotry is limited to the amount paid for on the report.

envirotech Analytical Laboratory

5796 US Highway 64, Farmington, NM 87401 — Ph (505) 632-0615 Fx (505) 632-1865

Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301 — Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com
laboratory@envirotech-inc.com

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Vanessa Fields

From: Vanessa Fields
Sent: Monday, December 2, 2019 1:06 PM
To: Smith, Cory, EMNRD; 'Adeloye, Abiodun'
Cc: Michael Dean; John Hampton Jr
Subject: RE: 48 notice Marcus A #012 sampling

Good afternoon,

The sampling is Wednesday December 4, 2019 not December 5, 2019.

Sorry about the wrong date on the previous date error.

Thank you,

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

From: Vanessa Fields
Sent: Monday, December 2, 2019 10:19 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; 'Adeloye, Abiodun' <aadeloye@blm.gov>
Cc: Michael Dean <michael.dean@walsheng.net>; John Hampton Jr <jdhampton@walsheng.net>
Subject: 48 notice Marcus A #012 sampling

Good morning,

Epic Energy will be conducting final sampling on the Marcus A #012. The analytical results from the BGT closure were above closure standard. Sampling will be conducted Wednesday December 5, 2019 at 1:00pm.

Please let me know if you have any questions.

Thank you,

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

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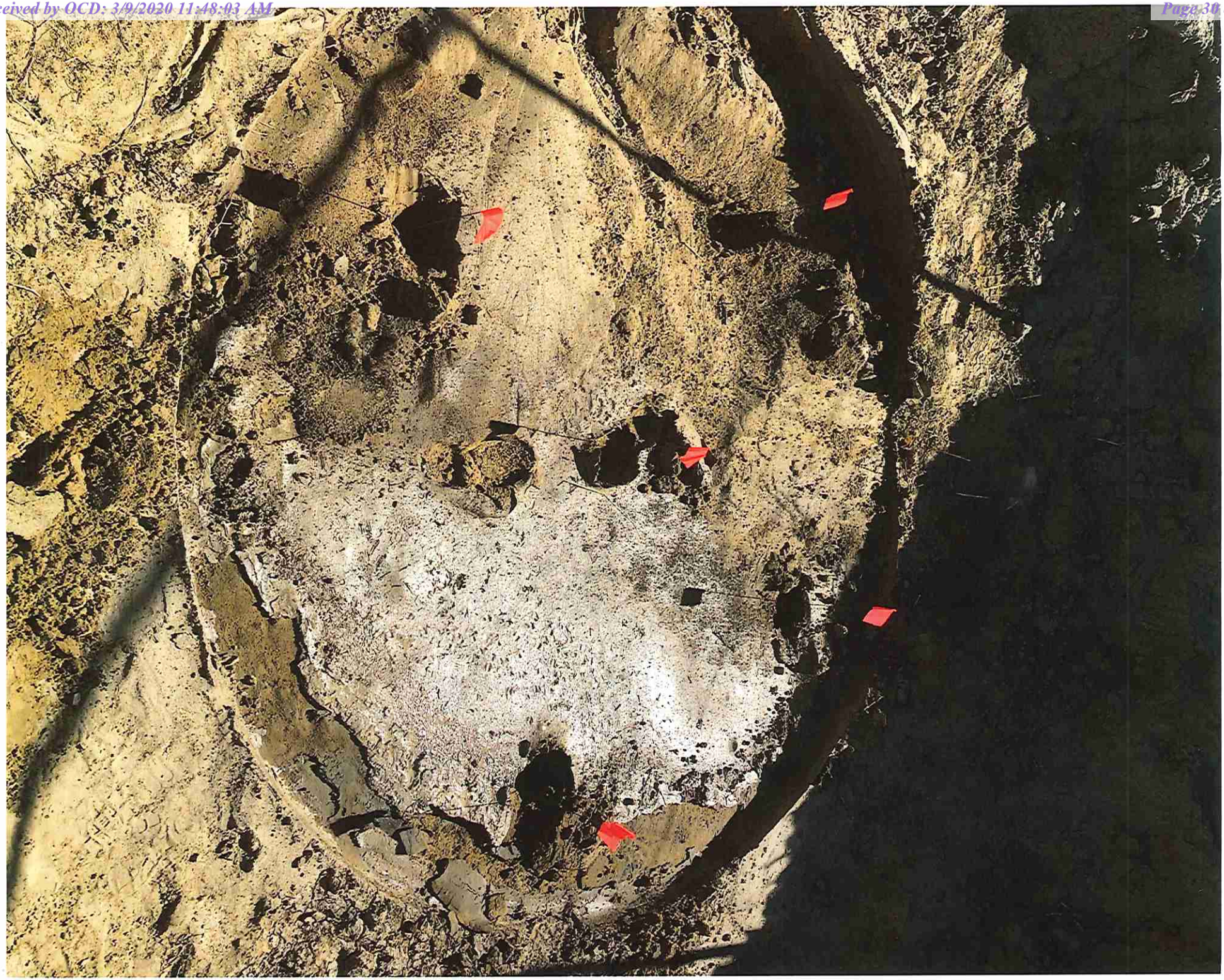

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