BTA OIL PRODUCERS

RE: BTA Oil Producers Site Activities

> 1RP-5289 1RP-5383 (2/8/2019) 1RP-5383 (2/9/2019)

Mesa 8105 JV-P 13/18 Compressor UL-P, Sec. 1 T26S - R32E Lea County, NM

Nearest Well: Mesa 8105 JV-P #013H API #30-025-42849

Site Background

The site is located southwest of Jal in Lea County, NM. According to the New Mexico Office of the State Engineer the minimum depth to water is 110 ft.

Spill and Response Chronology

There are three releases associated with this site:

1RP-5289

On 11/24/2018, a release of 20-bbls produced water and 10-bbls condensate was reported. A total of 10-bbls was recovered, 5-bbls each of produced water and condensate. The cause of the release was noted as being due to a malfunction on the compressor causing the slop tank to overflow.

Within 24 hours of the release, the material impacted due to the release was excavated down to 6" below ground surface (BGS). The contaminated soil was stockpiled at the site on 6ml plastic to prevent further contamination. The excavated spill area was not backfilled.

Field sampling occurred on 11/25/2018 with two sample locations, SP1 and SP2. Both locations were sampled down to 3' BGS with field screening results using a PID indicating the presence of elevated hydrocarbon concentrations in the soil. At the 3' BGS mark, "Auger Refusal" was hit and sampling was stopped due to the release area being in between two compressors. Soil samples were not taken for lab analysis.

1RP-5383 (2/8/2019)

On 2/8/2019, a release of 18-bbls of crude oil was reported with 18-bbls of crude oil recovered by vacuum truck. The cause of the release was due to an equipment failure on the compressor that pushed oil over to the slop tank, which overflowed again.

Following discovery, there was an immediate response to the second release. After recovery of the free product, the former spill area was excavated a second time on 2/8/2019. An additional 6" to 12" of material was removed and stockpiled on location. At that time, the excavated spill area would be characterized as being at a total depth of 1' to $1-\frac{1}{2}$ ' BGS. The excavated spill area was not backfilled.

1RP-5383 (2/9/2019)

On 2/9/2019, a release of 18-bbls of crude oil was reported for the second consecutive day. The cause of this third release was the same as the release that occurred the day before: an equipment failure that pushed oil over to the slop tank, causing the slop tank to overflow.

After immediate recovery of the free product, there was a misunderstanding in the communication on the third release to contractors to perform clean-up activities. The contractors thought the call that came in on 2/9/2019 was a mistakenly repeated request, which had already been executed, not realizing that a second release had occurred within a 24-hr. period. After the confusion was sorted out, the area was excavated an additional 6" on 3/1/2019. Presently, the excavated spill area can be characterized as being at a total depth of 2' BGS. The excavated spill area has not been backfilled.

Also, on 3/1/2019, 80 cubic yards of impacted soil were hauled away for disposal at Sundance Services in Eunice, NM. Presently, there is approximately 48 cubic yards of impacted soil stockpiled at the site on 6ml plastic.

Subsequent Sampling

On 8/23/2019, Expert Environmental went back to the site to delineate the spill area. Field screening of deeper sample points at the sample locations, SP1 and SP2, dropped below regulatory limits at a depth between 3' to 4' BGS. For each sample location, at depths below the sample points where field screening measurements indicated an absence of hydrocarbon concentrations in the soil, two deeper confirmation samples were taken to Cardinal Labs for analysis.

Delineation

The boundaries of the impacted material due to the releases, summarized above, have been defined. Based on the immediate response to the first two releases, readily identifiable impacted material across the surface in all planar directions was excavated and stockpiled on location. As noted above, the excavation was not backfilled. As the releases occurred, each spill accumulated and was recovered from the excavation. Then, the sampling event conducted on 8/23/2019 provided data from the field screening and lab analyses to show the vertical extent of the spill has been defined.

Backfill Request

Expert Environmental on behalf of BTA Oil Producers would like to propose the following;

Since the impacted area on this small pad contains two compressors, two vertical separator vessels (knockouts), hard-piped gas meter runs, high-pressure gas lines, and buried electrical lines there is limited area to continue deeper excavation. It is respectfully asserted that the site conditions prevent the further performance of excavation activities in a safe and controlled environment due to the proximity of the production equipment.

It is proposed that area should be limited to the present excavation down to 2' BGS (this may require a little clean out work since rain and cave-ins) and install a 20ml liner around the compressors & installed production equipment and under the lines. There is already a liner under the compressor pad that the compressors sit on, so with the 20ml liner properly seated, it is expected that the liner will:

- 1. Prevent further contamination from migrating down into lower depths of soil from rain or other releases; and
- 2. Prevent contamination should another release happen.

Ground water is adequately protected. Ground water is at a minimum depth of 110' ft. The maximum depth of hydrocarbon impacted soil is less than 4' BGS and bounded at its top by the excavation at 2' BGS. The impacted material does not pose an imminent risk to human health, the environment, or groundwater. A deferral is respectfully requested until the equipment is out of use for oil and gas operations. When the site is no longer being used and reclamation takes place, any further environmental issues due to the three releases will be addressed. There will be no seed plan as this release happened on a pad.

Please feel free to contact me with any questions concerning this site activities report.

Sincerely,

midel Alex

Michael Alves Expert Environmental Mobile: (575)631-4310 Email: michael@expertenviroservices.com

Appendix I – C-141's Appendix II- Site Map Appendix III- Depth to Water Appendix IV- Site Photos Appendix V- Sample Data/Lab Data District I 1625 N. French Dr., Hobbs, NM 88240 District (I 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	NCH1835547953
District RP	1RP-5289
Facility ID	
Application ID	pCH1835548758

Release Notification

Responsible Party

Responsible Party BTA Oil Producers	OGRID 260297
Contact Name Ben Grimes	Contact Telephone (432) 682-3753
Contact email bgrimes@btaoil.com	Incident # NCH1835547953 MESA 8105 JV-P
Contact mailing address 104 S Pecos St, Midland, TX 79701	013H @ 30-025-42849

Location of Release Source

Latitude 32.0660734285_

Longitude 103.624070083 (NAD 83 in decimal degrees to 5 decimal places)

Site Name Mesa 8105 JV-P 013H (compressor)	Site Type well pad
Date Release Discovered 11/24/2018	API# ((fapplicable) 30-025-42849

Unit Letter	Section	Township	Range	County	
Ρ	1	265	32E	Lea	

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 20	Volume Recovered (bbls) 5
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls) 10	Volume Recovered (bbls) 5
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		
Malfunction on compre	assor caused slop tank to overflow	

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?	If YES, for what reason(s) does the responsible party consider this a major release? Yes 19.15.29.7 (A) defines 25 BBL or more a major release
If YES, was immediate no	otice 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

 \boxtimes 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: Ben Grimes Signature: Ben Frings email: BGrimes@ BTAOil.com	Title: <u>Production Manager</u> Date: <u>1112612018</u> Telephone: <u>432-682-3753</u>
OCD Only	
Received by:	Date:

State of New Mexico Oil Conservation Division

Incident ID	NCH1835547953
District RP	1RP-5289
Facility ID	
Application ID	pCH1835548758

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>110</u> (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.

Form C-141	State of New Mexico	ſ	Incident ID	NCH1835547953
Page 4	Oil Conservation Division		District RP	1RP-5289
		-	Facility ID	
			Application ID	pCH1835548758
I hereby certify that the inform regulations all operators are r public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name: Bob Hall Signature: Bob Hall email: bhall@btaoil.com	nation given above is true and complete to the lequired to report and/or file certain release notifient. The acceptance of a C-141 report by the O te and remediate contamination that pose a three a C-141 report does not relieve the operator of the term of term of the term of the term of the term of term of term of the term of term of term of term of the term of term o	best of my knowledge an fications and perform con ICD does not relieve the at to groundwater, surfac responsibility for compli Title: Environment Date: 10/22/2019 Telephone: 432-682	d understand that purs rective actions for rele operator of liability sh e water, human health ance with any other fe cal Manager	suant to OCD rules and eases which may endanger rould their operations have a or the environment. In ederal, state, or local laws
OCD Only				
Received by:		Date:		

State of New Mexico Oil Conservation Division

Remediation Plan Checklist: Each of the following items must be included in the plan.

Incident ID	NCH1835547953
District RP	1RP-5289
Facility ID	
Application ID	pCH1835548758

Remediation Plan

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. 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. **Title: Environmental Manager** Printed Name: Bob Hall Signature: Bol Half Date: 10/22/2019 email: bhall@btaoil.com Telephone: 432-682-3753 **OCD Only** Received by: Date: Denied Deferral Approved Approved with Attached Conditions of Approval Approved Signature: Date:

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

Incident ID	NAB1906552791		
District RP	1RP-5383		
Facility ID			
Application ID	pAB1906551401		

Release Notification

Responsible Party

Responsible Party: BTA Oil Producers, LLC	OGRID: 260297
Contact Name: Bob Hall	Contact Telephone: 432-682-3753
Contact email: bhall@btaoil.com	Incident # (assigned by OCD) NAB1906552791
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	

Location of Release Source

Latitude: 32.06584° Longitude: -103.62410°

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Mesa 8105 JV-P 13/18 Compressor	Site Type: Well Pad	
Date Release Discovered: 2/8/2019	API# (if applicable) Nearest well: Mesa 8195 JV-P #013H	
	API #30-025-42849	

Unit Letter	Section	Township	Range	County
Ρ	1	265	32E	Lea

Surface Owner: 🗌 State 🛛 Federal 🗌 Tribal 🗌 Private (

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) 18 BBL	Volume Recovered (bbls) 18 BBL
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	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

Due to an equipment failure on the compressor, oil was pushed over to the slop tank, which overflowed. The oil was recovered with a vacuum truck.

State of New Mexico Oil Conservation Division

Incident ID	NAB1906552791	
District RP	1RP-5383	
Facility ID		
Application ID	pAB1906551401	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
🗌 Yes 🖾 No	
If YES, was immediate no	otice 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

 \square 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.

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Printed Name: Bob Hall Title: Environmental Manager

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Signature:	
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Date: 2/22/2018

email: bhall@btaoil.com

Telephone: 432-682-3753

OCD Only

Date: 3/06/2019

Received by:

State of New Mexico Oil Conservation Division

Incident ID	NAB1906552791
District RP	1RP-5383
Facility ID	
Application ID	pAB1906551401

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>110</u> (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

- \boxtimes 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.

Form C-141	State of New Mexico	ſ	Incident ID	NAB1906552791
Page 4	e 4 Oil Conservation Division		District PD	1RP-5383
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		-	Application ID	pAB1906551401
I hereby certify that the inforegulations all operators are public health or the enviror failed to adequately investigaddition, OCD acceptance and/or regulations.	ormation given above is true and complete to the be e required to report and/or file certain release notif ment. The acceptance of a C-141 report by the O gate and remediate contamination that pose a threa of a C-141 report does not relieve the operator of n	best of my knowledge an fications and perform cor CD does not relieve the at to groundwater, surfac responsibility for complia	d understand that purse rective actions for rele operator of liability sho water, human health ance with any other fea	uant to OCD rules and eases which may endanger ould their operations have or the environment. In deral, state, or local laws
Printed Name: Bob Hal	I	Title: Environment	tal Manager	
Signature: Poll	fall	Date: 10/22/2019	1	
email: bhall@btaoil.c	com	Telephone: 432-682	2-3753	
OCD Only Received by:		Date:		

State of New Mexico Oil Conservation Division

Remediation Plan Checklist: Each of the following items must be included in the plan.

Detailed description of proposed remediation technique

Incident ID	NAB1906552791
District RP	1RP-5383
Facility ID	
Application ID	pAB1906551401

Remediation Plan

Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. 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: Bob Hall **Title: Environmental Manager** Signature: Blifall Date: 10/22/2019 email: bhall@btaoil.com Telephone: 432-682-3753 OCD Only Date: Received by: Denied Deferral Approved Approved Approved with Attached Conditions of Approval Signature: Date:

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

Incident ID	NAB1906551740
District RP	1RP-5383
Facility ID	
Application ID	pAB1906551401

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Release Notification

Responsible Party

Responsible Party: BTA Oil Producers, LLC	OGRID: 260297
Contact Name: Bob Hall	Contact Telephone: 432-682-3753
Contact email: bhall@btaoil.com	Incident # (assigned by OCD) NAB1906551740
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	

Location of Release Source

Latitude: 32.06584° Longitude: -103.62410°

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Mesa 8105 JV-P 13/18 Compressor	Site Type: Well Pad	
Date Release Discovered: 2/9/2019	API# (if applicable) Nearest well: Mesa 8195 JV-P #013H	
	API #30-025-42849	

Unit Letter	Section	Township	Range	County
Р	1	265	32E	Lea

Surface Owner: 🗌 State 🛛 Federal 🗌 Tribal 🗌 Private (

Nature and Volume of Release

Materia	(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)
Crude Oil	Volume Released (bbls) 18 BBL	Volume Recovered (bbls) 18 BBL
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	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

The same equipment failure on the compressor, as occurred as a separate event and reported for 2/8/2019, pushed oil over to the slop tank and caused the tank to overflow. The oil was recovered with a vacuum truck.

Page 2

State of New Mexico Oil Conservation Division

Incident ID	NAB1906551740
District RP	1RP-5383
Facility ID	
Application ID	pAB1906551401

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
🗌 Yes 🖾 No	
If YES, was immediate no	otice 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

 \boxtimes 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:

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Printed Name: Bob Hall Title: Environmental Manager

Andre Sotamente

Signature:

Date: 2/22/2018

email: bhall@btaoil.com

Telephone: 432-682-3753

OCD Only

Received by:

Date: 3/6/2019

State of New Mexico Oil Conservation Division

Incident ID	NAB1906551740
District RP	1RP-5383
Facility ID	
Application ID	pAB1906551401

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>110</u> (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 ¹/₂-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.

Form C-141	State of New Mexico	Incident	t ID	NAB1906551740
Page 4	Oil Conservation Division	District	RP	1RP-5383
-		Facility	ID	
		Applica	tion ID	pAB1906551401
I hereby certify that the inforregulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance of and/or regulations. Printed Name: Bob Hall	ormation given above is true and complete to the be required to report and/or file certain release notifi- ment. The acceptance of a C-141 report by the OC gate and remediate contamination that pose a threat of a C-141 report does not relieve the operator of re	st of my knowledge and understar cations and perform corrective act D does not relieve the operator of to groundwater, surface water, hu sponsibility for compliance with a Fitle: Environmental Mana Date: 10/22/2019	nd that pursu ions for relea f liability sho uman health any other fed	aant to OCD rules and ases which may endanger build their operations have or the environment. In leral, state, or local laws
email: bhall@btaoil.co	om	Telephone: 432-682-3753		
OCD Only Received by:		Date:		

State of New Mexico Oil Conservation Division

Remediation Plan Checklist: Each of the following items must be included in the plan.

Incident ID	NAB1906551740	
District RP	1RP-5383	
Facility ID		
Application ID	pAB1906551401	

Remediation Plan

 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 										
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.										
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.										
Extents of contamination must be fully delineated.										
Contamination does not cause an imminent risk to human health	the environment, or groundwater.									
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: Bob Hall Signature: Bob Hall Title: Environmental Manager Date: 10/22/2019 email: bhall@btaoil.com										
OCD Only										
Received by:	Date:									
Approved Approved with Attached Conditions of A	Approval Denied Deferral Approved									
Signature:	Date:									





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 I replaced, O=orphan C=the file closed)	ed, is		()	qua qua	rtei	rs are rs are	1=NV small	V 2=NE est to la	3=SW 4=S rgest) (N	E) IAD83 UTM in n	neters)	(In :	feet)	
		POD Sub-		0	0	0								,	Wator
POD Number	Code	basin	County	~ 64	× 16	4	Sec	Tws	Rng	Х	Y	DistanceDep	thWellDep	thWater C	olumn
<u>C 02273</u>		CUB	LE		1	2	21	26S	33E	634549	3545134* 🌍	5851	160	120	40
<u>C 02287</u>		С	LE	3	4	4	03	26S	33E	636427	3548708 🌍	6554	220		
<u>C 02286</u>		CUB	LE	3	4	4	03	26S	33E	636470	3548714 🌍	6596	220	175	45
<u>C 02290</u>		CUB	LE	4	4	4	03	26S	33E	636538	3548770 🌍	6666	200	160	40
<u>C 02289</u>		CUB	LE	4	4	4	03	26S	33E	636612	3548675* 🌍	6739	200	160	40
<u>C 02285 POD1</u>		CUB	LE	1	4	4	03	26S	33E	636613	3548855 🌍	6742	220	220	0
<u>C 02288</u>		CUB	LE	4	4	4	03	26S	33E	636646	3548758 🌍	6773	220	180	40
<u>C 02271</u>	R	CUB	LE		2	3	21	26S	32E	624449	3544111* 🌍	7073	150	125	25
<u>C 03595 POD1</u>		CUB	LE	4	2	3	21	26S	32E	624423	3544045 🌍	7135	280	180	100
<u>C 02271 POD2</u>		CUB	LE	3	2	3	21	26S	32E	624348	3544010* 🌍	7215	270	250	20
<u>C 02323</u>		С	LE	3	2	3	21	26S	32E	624348	3544010* 🌍	7215	405	405	0
<u>C 03537 POD1</u>		CUB	LE	3	2	3	21	26S	32E	624250	3543985 🌍	7306	850		
<u>C 02294</u>		CUB	LE	4	4	3	11	26S	33E	637465	3547003 🌍	7769	200	145	55
<u>C 02293</u>		CUB	LE	2	2	1	14	26S	33E	637501	3546975 🌍	7809	200	135	65
<u>C 03577 POD1</u>		CUB	LE	3	3	3	22	26S	33E	636010	3543771 🌍	7840	750	110	640
<u>C 03596 POD1</u>		С	LE	3	3	4	22	26S	33E	636017	3543756 🌍	7854	225		
<u>C 02313</u>		CUB	LE	2	3	3	26	258	33E	636971	3552098* 🌍	7890	150	110	40
<u>C 02270</u>		CUB	LE	1	1	2	27	26S	33E	636063	3543722 🌍	7912	150	125	25
											Avera	ge Depth to Wat	er:	173 fe	et
												Minimum De	oth:	110 fe	et
												Maximum Dep	oth:	405 fe	et
Record Count: 18															
Basin/County Search	<u>1:</u>														
Basin: Carlsbad															
UTMNAD83 Radius	Search (in	meters):	<u>.</u>												
Easting (X): 629	873		North	ning	(Y)	:	3548	651			Radius: 8045				
*UTM location was derived	from PLSS -	see Help													
The data is furnished by the N accuracy, completeness, reliab	MOSE/ISC a ility, usability	nd is accord, or suitab	epted by the pility for any	e rec par	ipier ticul	nt w ar p	vith th ourpos	e expresse of the	essed und e data.	lerstanding th	hat the OSE/ISC m	ake no warranties,	expressed or i	mplied, conce	erning the

9/23/19 11:28 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



Facing North



Digging up release



Spill excavated



Spill Excavated



Spill Excavated



Aerial View -South View



Facing west



Facing South



Facing Northwest



Facing North









Northeast



Facing West



Facing East



North



South



Spill Area Facing South

Mesa 13/18 Compressor Slop Tank Release - November 24, 2018; February 8, 2019; and February 9, 2019 OCD Tracking #: 1RP-5289 and 1RP-5383

			Comula	Field Sc	reening	Laboratory Results										
1	C1 -1-1-1	Sample	Sample		Titration			ТРН				Ethyl-	Total	TPH	TPH	TPH
Location	Status	Date	Depth (fast DCC)	PID Result	Result	Chloride	Total TPH	GRO + DRO	BTEX	Benzene	Toluene	benzene	Xylenes	GRO	DRO	Ext DRO
			(Teet BGS)	(PPM)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SP1	Removed	11/25/18	Surface	15,000+	149											
SP1	Removed	11/25/18	1	9,800	105											
SP1	In Situ	11/25/18	2	12,300	98											
SP1	In Situ	8/23/19	2			48	22,422	16,532	16.9	0.424	5.36	1.71	9.36	232	16,300	5,890
SP1	In Situ	11/25/18	3	1,700	174											
SP1	In Situ	8/23/19	4	2.9	98	16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SP1	In Situ	8/23/19	7	0	98	32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SP2	Removed	11/25/18	Surface	15,000+	1,149											
SP2	Removed	11/25/18	1	8,547	549											
SP2	In Situ	11/25/18	2	8,500	174											
SP2	In Situ	8/23/19	2			16	10,623	7,743	3.47	ND	0.365	0.416	2.69	52.5	7,690	2,880
SP2	In Situ	11/25/18	3	100	98											
SP2	In Situ	8/23/19	4	1.8	105	ND	10.1	ND	ND	ND	ND	ND	ND	ND	ND	10.1
SP2	In Situ	8/23/19	5	0	98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NMOCD Table 1 - Closure Criteria for Soils Impacted by a Release (19.15.29.12)

Minimum Depth to GW less than 10,000 mg/I TDS

<= 50'	600	100	-	50	10
51' - 100'	10,000	2,500	1,000	50	10
>100'	20,000	2,500	1,000	50	10

Reporting Limits:

Chloride: 16.0 mg/kg Benzene, Toluene, Ethylbenzene: 0.050 mg/kg for each analyte Total Xylenes: 0.150 mg/kg Total BTEX: 0.300 mg/kg GRO (C6 - C10), DRO (>C10 - C28), Ext DRO (>C28 - C36): 10.0 mg/kg for each analyte



August 27, 2019

BOB HALL

BTA Oil Producers

103 South Pecos

Midland, TX 79701

RE: MESA 13 - 18

Enclosed are the results of analyses for samples received by the laboratory on 08/26/19 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



BTA Oil Producers BOB HALL 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312

Received:	08/26/2019	Sampling Date:	08/23/2019
Reported:	08/27/2019	Sampling Type:	Soil
Project Name:	MESA 13 - 18	Sampling Condition:	Cool & Intact
Project Number:	COMPRESSOR 3 SPILLS	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO		

Sample ID: SP 1 @ 2' (H902935-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.424	0.050	08/27/2019	ND	1.69	84.7	2.00	0.243	
Toluene*	5.36	0.050	08/27/2019	ND	1.90	94.9	2.00	0.313	
Ethylbenzene*	1.71	0.050	08/27/2019	ND	2.03	101	2.00	1.70	
Total Xylenes*	9.36	0.150	08/27/2019	ND	6.22	104	6.00	2.17	
Total BTEX	16.9	0.300	08/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/27/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	232	50.0	08/27/2019	ND	207	103	200	2.02	
DRO >C10-C28*	16300	50.0	08/27/2019	ND	203	101	200	2.56	
EXT DRO >C28-C36	5890	50.0	08/27/2019	ND					
Surrogate: 1-Chlorooctane	127 %	6 41-142							
Surrogate: 1-Chlorooctadecane	916%	<i>37.6-14</i>	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BTA Oil Producers BOB HALL 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312

Received:	08/26/2019	Sampling Date:	08/23/2019
Reported:	08/27/2019	Sampling Type:	Soil
Project Name:	MESA 13 - 18	Sampling Condition:	Cool & Intact
Project Number:	COMPRESSOR 3 SPILLS	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO		

Sample ID: SP 1 @ 4' (H902935-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2019	ND	1.69	84.7	2.00	0.243	
Toluene*	<0.050	0.050	08/27/2019	ND	1.90	94.9	2.00	0.313	
Ethylbenzene*	<0.050	0.050	08/27/2019	ND	2.03	101	2.00	1.70	
Total Xylenes*	<0.150	0.150	08/27/2019	ND	6.22	104	6.00	2.17	
Total BTEX	<0.300	0.300	08/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.0 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/27/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2019	ND	207	103	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/27/2019	ND	203	101	200	2.56	
EXT DRO >C28-C36	<10.0	10.0	08/27/2019	ND					
Surrogate: 1-Chlorooctane	113 %	6 41-142							
Surrogate: 1-Chlorooctadecane	123 %	<i>37.6-14</i>	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



BTA Oil Producers BOB HALL 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312

Received:	08/26/2019	Sampling Date:	08/23/2019
Reported:	08/27/2019	Sampling Type:	Soil
Project Name:	MESA 13 - 18	Sampling Condition:	Cool & Intact
Project Number:	COMPRESSOR 3 SPILLS	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO		

Sample ID: SP 1 @ 7' (H902935-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2019	ND	1.69	84.7	2.00	0.243	
Toluene*	<0.050	0.050	08/27/2019	ND	1.90	94.9	2.00	0.313	
Ethylbenzene*	<0.050	0.050	08/27/2019	ND	2.03	101	2.00	1.70	
Total Xylenes*	<0.150	0.150	08/27/2019	ND	6.22	104	6.00	2.17	
Total BTEX	<0.300	0.300	08/27/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.1 9	73.3-129)						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/27/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2019	ND	207	103	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/27/2019	ND	203	101	200	2.56	
EXT DRO >C28-C36	<10.0	10.0	08/27/2019	ND					
Surrogate: 1-Chlorooctane	125 %	6 41-142							
Surrogate: 1-Chlorooctadecane	135 %	37.6-147	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



BTA Oil Producers BOB HALL 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312

Received:	08/26/2019	Sampling Date:	08/23/2019
Reported:	08/27/2019	Sampling Type:	Soil
Project Name:	MESA 13 - 18	Sampling Condition:	Cool & Intact
Project Number:	COMPRESSOR 3 SPILLS	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO		

Sample ID: SP 2 @ 2' (H902935-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2019	ND	1.69	84.3	2.00	0.552	
Toluene*	0.365	0.050	08/26/2019	ND	1.88	94.0	2.00	1.51	
Ethylbenzene*	0.416	0.050	08/26/2019	ND	1.96	97.9	2.00	1.18	
Total Xylenes*	2.69	0.150	08/26/2019	ND	6.08	101	6.00	1.15	
Total BTEX	3.47	0.300	08/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	126 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/27/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	52.5	10.0	08/27/2019	ND	207	103	200	2.02	
DRO >C10-C28*	7690	10.0	08/27/2019	ND	203	101	200	2.56	
EXT DRO >C28-C36	2880	10.0	08/27/2019	ND					
Surrogate: 1-Chlorooctane	115 %	6 41-142	2						
Surrogate: 1-Chlorooctadecane	497 %	6 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



BTA Oil Producers BOB HALL 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312

Received:	08/26/2019	Sampling Date:	08/23/2019
Reported:	08/27/2019	Sampling Type:	Soil
Project Name:	MESA 13 - 18	Sampling Condition:	Cool & Intact
Project Number:	COMPRESSOR 3 SPILLS	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO		

Sample ID: SP 2 @ 4' (H902935-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2019	ND	1.69	84.3	2.00	0.552	
Toluene*	<0.050	0.050	08/26/2019	ND	1.88	94.0	2.00	1.51	
Ethylbenzene*	<0.050	0.050	08/26/2019	ND	1.96	97.9	2.00	1.18	
Total Xylenes*	<0.150	0.150	08/26/2019	ND	6.08	101	6.00	1.15	
Total BTEX	<0.300	0.300	08/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/27/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2019	ND	207	103	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/27/2019	ND	203	101	200	2.56	
EXT DRO >C28-C36	10.1	10.0	08/27/2019	ND					
Surrogate: 1-Chlorooctane	115 %	6 41-142							
Surrogate: 1-Chlorooctadecane	126 %	6 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



BTA Oil Producers BOB HALL 103 South Pecos Midland TX, 79701 Fax To: (432) 683-0312

Received:	08/26/2019	Sampling Date:	08/23/2019
Reported:	08/27/2019	Sampling Type:	Soil
Project Name:	MESA 13 - 18	Sampling Condition:	Cool & Intact
Project Number:	COMPRESSOR 3 SPILLS	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO		

Sample ID: SP 2 @ 5' (H902935-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2019	ND	1.69	84.3	2.00	0.552	
Toluene*	<0.050	0.050	08/26/2019	ND	1.88	94.0	2.00	1.51	
Ethylbenzene*	<0.050	0.050	08/26/2019	ND	1.96	97.9	2.00	1.18	
Total Xylenes*	<0.150	0.150	08/26/2019	ND	6.08	101	6.00	1.15	
Total BTEX	<0.300	0.300	08/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/27/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2019	ND	207	103	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/27/2019	ND	203	101	200	2.56	
EXT DRO >C28-C36	<10.0	10.0	08/27/2019	ND					
Surrogate: 1-Chlorooctane	114 %	6 41-142							
Surrogate: 1-Chlorooctadecane	124 %	6 37.6-14	7						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

City: Project Manager: Relinquisher Project Location: Relinquished By Sampler Name: Project Name: Project #: Phone #: Company Name: Sampler - UPS - Bus - Other: analyses All claims including those Address: 4902935 Delivered By: (Circle One) FOR LAB USE ONLY Lab I.D. ce. In no event 00 5 WN By: N.705 BR Mesar. egligence and any Sample I.D. Po-U 0 4.40 13-18 Correca Time: 15:15 v Date: Producers Project Owner: Fax #: Time: State: i shall be de Compression 200 しも# Zip: 4.20 00 2 Received By: Received By 90 90000 (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER Sample Condition Cool Intact Cool Intact WASTEWATER MATRIX ** * + + + + SOIL OIL SLUDGE ons, loss of use, or loss of profits Attn: Bob State: P.O. #: Fax #: Phone #: City: OTHER Company: Address: PRESERV ACID/BASE: by Cardinal CHECKED BY: (Initials) XYXXXX ICE / COOL 0 BILL TO OTHER Hall BP 823/19 10:15 323/1 9:40 812/1 9:40 6127 A 9:52 8/23/19/10:43 Zip: DATE SAMPLING 30 days ays after completion of the applicable red by client, its subsidiaries. baid by the client for the Phone Result: Fax Result: REMARKS: Rest TIME Wided expart enviroser vi ces. com e えび Yes B II II No Add'l Phone #: Add'l Fax #: ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326