

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	nAPP2035757045
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: LOGOS Operating, LLC	OGRID: 289408
Contact Name: Tamra Sessions	Contact Telephone: 505-324-4145
Contact email: tsessions@logosresourcesllc.com	Incident # (assigned by OCD)
Contact mailing address: 2010 Afton Place Farmington, NM 87401	

Location of Release Source

Latitude 36.527351

Longitude -107.093666

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Jicarilla 95 6A	Site Type: Well
Date Release Discovered: 12/2/2020	API# (if applicable): 30-039-25442

Unit Letter	Section	Township	Range	County
J	36	27N	3W	Rio Arriba

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

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) Unknown	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): Unknown	Volume Recovered (bbls): 0
	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:

Rupture disc on separator failed 11/12/20 causing produced oil and water to spray covering an area approximately 4' x 15'. Estimated release at less than 1 bbl, non-reportable. On 12/2/20 the release became reportable as LOGOS continued to dig and haul more than 12 cubic yards of contaminated soil, which appears to be a historic stain from previous release(s). The release was reported to NMOCD, per the calculations that if 12 yards filled a dump truck this equals 5bbls which then became reportable.

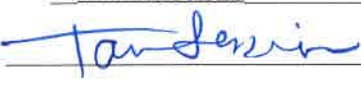
State of New Mexico
Oil Conservation Division

Incident ID	nAPP2035757045
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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

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> 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: <u>Tamra Sessions</u>	Title: <u>Regulatory Specialist</u>
Signature: <u></u>	Date: <u>02/24/2021</u>
email: <u>tsessions@logosresourcesllc.com</u>	Telephone: <u>(505) 324-4145</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

Incident ID	nAPP2035757045
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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>137'</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.

State of New Mexico
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: Tamra Sessions Title: Regulatory Specialist
Signature:  Date: 02/24/2021
email: tsessions@logosresourcesllc.com Telephone: (505) 324-4145

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2035757045
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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: Tamra Sessions Title: Regulatory Specialist

Signature:  Date: 02/24/2021

email: tsessions@logosresourcesllc.com Telephone: (505) 324-4145

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: Jennifer Nobui Date: 01/24/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A



February 22, 2021

Cory Smith
New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87410

Incident # nAPP2035757045

Well Name: Jicarilla 95 6A Located in Section 36, Township 27 North, Range 3 West, Rio Arriba, New Mexico.

RE: Rupture disc on separator failed causing produced oil and water to spray covering an area approximately 4' x 15'. Estimated release at less than 1bbl, non-reportable. On 12/2/20 the release became reportable as LOGOS continued to dig and haul more than 12 cubic yards of contaminated soil, which appears to be a historic stain from previous release(s). LOGOS plans to clean up the stained area and remove soil. Jicarilla requested LOGOS to remove the separator to clean historic staining under and around the separator.

Dear Mr. Smith,

On November 12, 2020, operator arrived on location around 11am and found fluid spraying and leaking from separator. Well was shut in. LOGOS cleaned up the area, sprayed simple green and power washed the separator, placed absorbent pads to soak up oil/water on the affected area, and added AB plus oil soaker with plans to continue to turn soil. Separator was repaired. The surface owner (Jicarilla) was notified on November 13, 2020 of the release.

On November 18, 2020 Keith Manwell (JIC EPO) met with LOGOS on location to evaluate and at that time requested LOGOS to remove separator as contaminated soil seems to be of a historical nature.

On November 30, 2020 Jicarilla was notified that Kelley Oilfield Services was scheduled to remove contaminated soil and Envirotech to do confirmation sampling. On December 2, 2020 Kelley Oilfield Services removed the separator, as Keith Manwell had requested, started digging and hauled off 16 yards, approximate 8' x 8' x 5' deep at the separator of contaminated soil and disposed of at Envirotech Landfarm. Envirotech took field confirmation samples at 1:37pm with Keith Manwell on location – samples passed. After samples were taken, Kelley Oilfield Services back-filled area with approved dirt located by Keith Manwell. Backfill was completed on December 2, 2020.

On December 2, 2020 Jicarilla and OCD were notified and Envirotech performed the confirmation sampling. One 5-point composite sample was collected, as documented in the enclosed Aerial Site map. The sample testing report was received on 12/10/20, the sample passed.

The samples were analyzed for TPH as gasoline diesel, and oil range organics (GRO/DRO/ORO) using EPA Method 8015D; benzene, Toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B and chlorides using EPA Method 300.0.

Final Sample Results								
Sample Description	Date	Sample Depth	EPA Method 8015		EPA Method 8021		EPA Method 300.0	
			GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Benzene (mg/kg)	Total BTEX (mg/kg)	Chlorides (mg/kg)
19.15.29.13 (D) NMAC			100 mg/kg			10 mg/kg	50 mg/kg	600 mg/kg
19.15.29.12 NMAC			1000 mg/kg					20,000 mg/kg
			2500 mg/kg					
Separator Pad	12/10/20	Remediated	ND	ND	ND	ND	0.239	ND

The groundwater data is documented in the enclosed TOPO Site Map. A water well, SJ03102, was found within the three mile search of the Jicarilla 95 6A, the water well has an elevation of 7288' and water depth of 210'. The Jicarilla 95 6A is two miles to the northwest with an elevation of 7215', therefore the Jicarilla 95 6A has an estimated ground water at 137'.

Therefore, based on the confirmation sample activities and the laboratory analytical results confirms that concentrations of contaminants are below the applicable release, remediation/reclamation limits and no further action is required, and LOGOS request a release and remediation/reclamation closure approval from NMOCD.

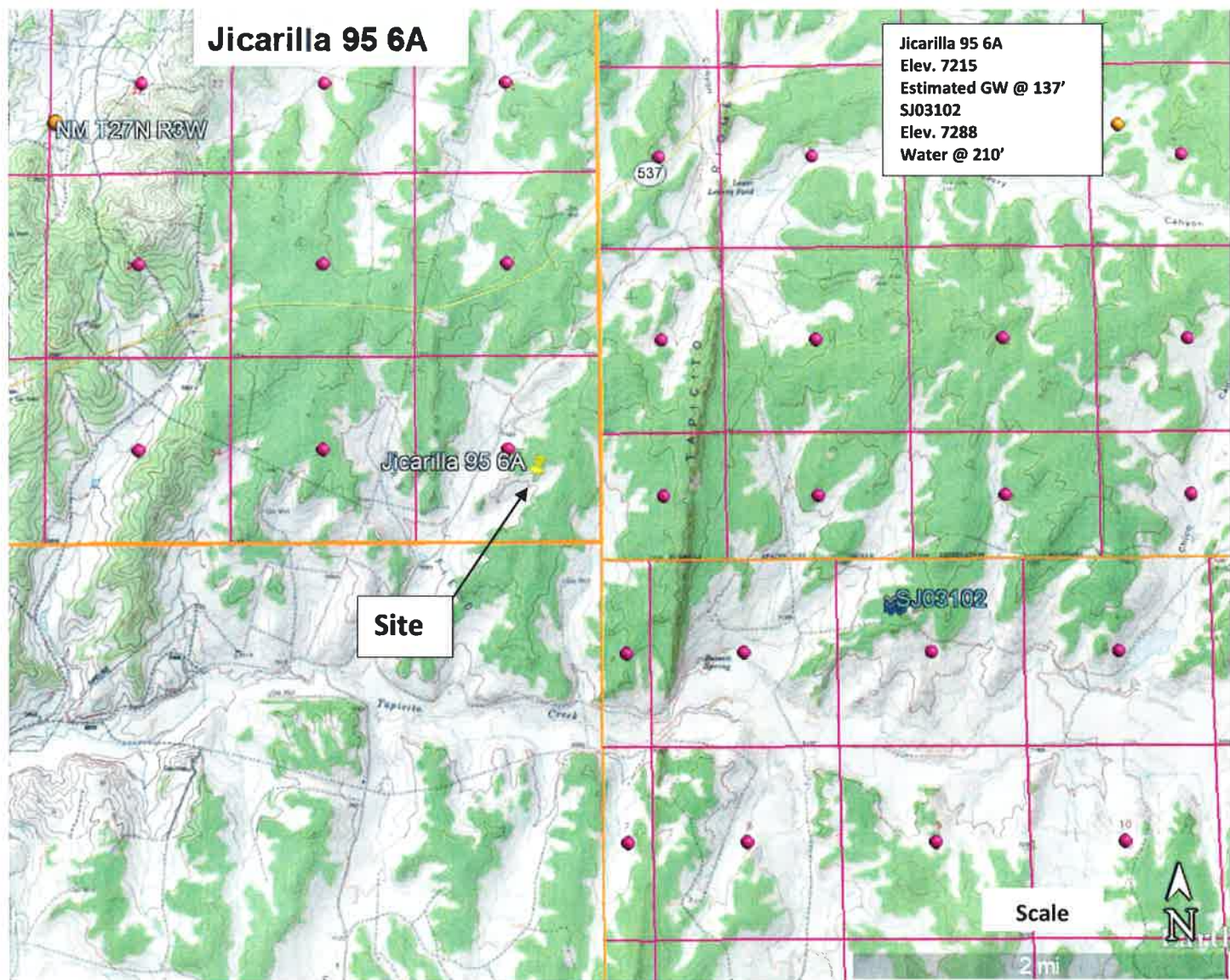
Sincerely,



Tamra Sessions
Regulatory Specialist
Office: 505-324-4145

tsessions@logosresourcesllc.com





Well Name: Jicarilla 95 6A
API: 30-039-25442
Section: 36 Township: 27N Range: 3W Unit: J
Lat: 36.527351 Long: -107.093666 NAD 83

TOPO Site Map
02/22/2021



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right file.)

(R=POD has
been replaced,
O=orphaned,
C=the file is
closed)

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
SJ 03102	SJ	RA		1	4	1	04	26N	02W	315637	4043235*	3324	630	210	420

Average Depth to Water: **210 feet**
Minimum Depth: **210 feet**
Maximum Depth: **210 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

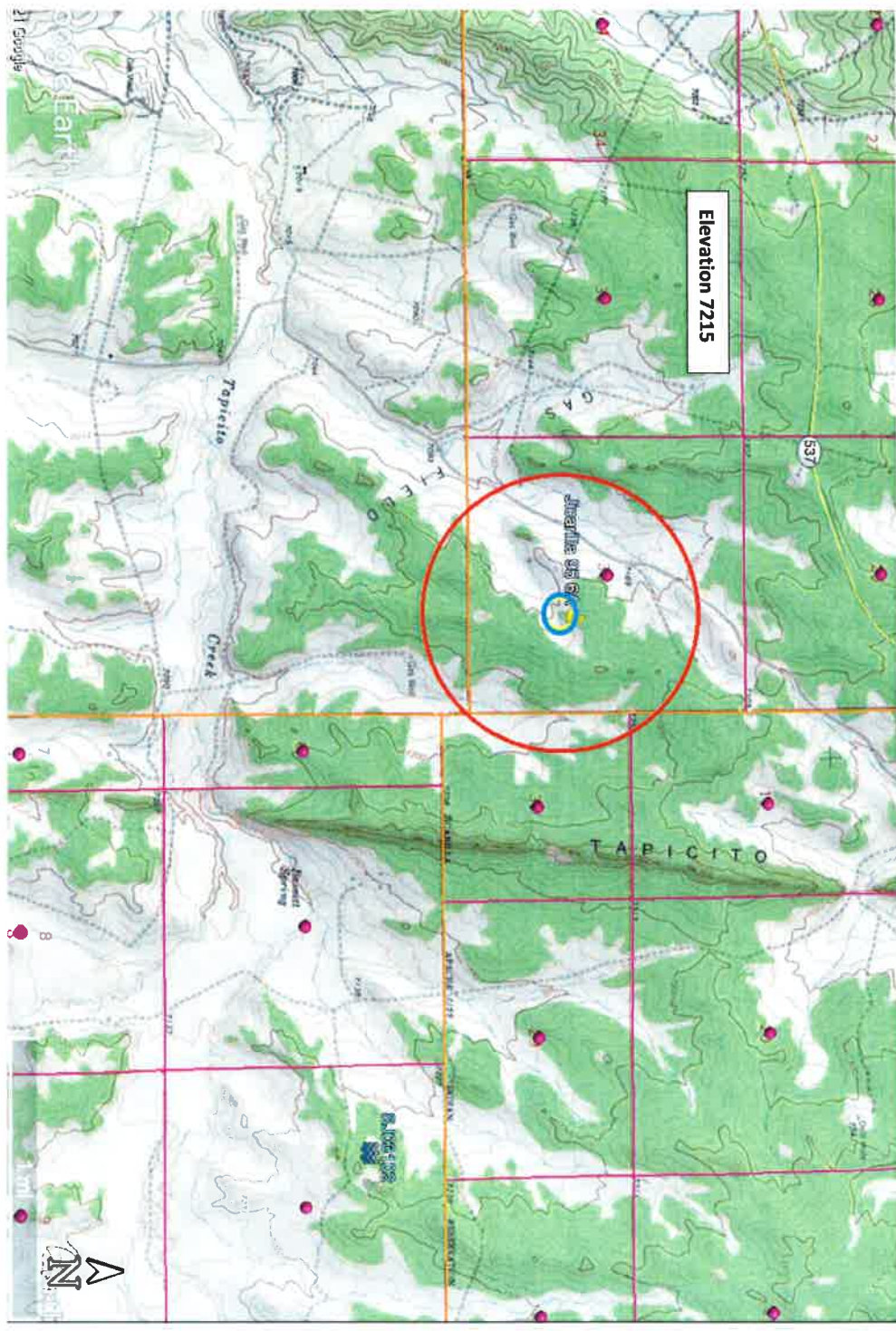
Easting (X): 312555

Northing (Y): 4044481

Radius: 5000

*UTM location was derived from PLSS - see Help

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



Well Name: Jicarilla 95 6A

API: 30-039-25442

Section: 36 Township: 27N Range: 3W Unit: J

Lat: 36.527351 Long: -107.093666 NAD 83

Hydrology Map

02/22/2021



Jicarilla 95 6A

Separator rupture disc popped off causing crude oil/produced water to spray around separator area. Excavation revealed discoloration from a historical release.

Jicarilla 95 6A

Scale
100 ft



Google Earth

© 2021 Google

☐ Soil Grab Sampling



Well Name: Jicarilla 95 6A

API: 30-039-25442

Section: 36 Township: 27N Range: 3W Unit: J

Lat: 36.527351 Long: -107.093666 NAD 83

Aerial Site Map

2/22/2021

Field Notes for Spill Closure

Well Name: Jicarilla 95 6A

Date of Arrival: 12/2/2020

Observe Area

Removed contaminated soils ☒ Yes ☐ No

What chemical was used to clean-up contaminated area:

AB+ oil soaker was initially spread.

Take Picture: ☒ Before ☒ After

Entire Spill Containment: ☒ Dry ☐ Wet

If wet:
Rain, Moist, etc...

Site Delineation

☒

Sample 1:

Composite (Grab Sample) ☒ Yes ☐ No

Was (1) five-point sample taken: ☒ Yes ☐ No

☐

Sample 2:

Delineation (Hand Auger) ☐ Yes ☐ No

Depths **SB - 1** ☐ 1' ☐ 2' ☐ 3' ☐ 4'

SB - 2 ☐ 1' ☐ 2' ☐ 3' ☐ 4'

SB - 3 ☐ 1' ☐ 2' ☐ 3' ☐ 4'

SB - 4 ☐ 1' ☐ 2' ☐ 3' ☐ 4'

Soil

Did soil have odor: ☐ Yes ☒ No

If so, what kind of odor:

Was soil discolored: ☐ Yes ☒ No

If so, what color:

Was the soil sandy: ☐ Yes ☒ No

Tamra Sessions

From: Tamra Sessions
Sent: Monday, November 30, 2020 1:29 PM
To: kcmawell@yahoo.com; Orson Harrison (orsonharrison@jicarillaoga.com)
Cc: Kurt Sandoval (kurt.sandoval@bia.gov); Marlena Martinez (marlena.martinez@bia.gov); Vicenti, Deedra; Jason Meechan; Bryan Lovato; Marcia Brueggenjohann; Brennan Banks; Marie Florez
Subject: RE: Jicarilla 95 6A - Separator spray

Keith per your conversation with Bryan and my conversation with Orson, clean up will commence this Wednesday (12/2) morning around 10am. Separator will be moved if it will be in the way. Envirotech will be on location between 1 and 2pm for sampling. This will be considered as Final Sampling if the test results come back below the OCD final closure contamination level.

Permission to Perform Work was received from the BIA on 11/20/20.

Tamra

From: Tamra Sessions
Sent: Thursday, November 19, 2020 11:40 AM
To: Marie Florez <mflorez@logosresourcesllc.com>; 'kcmawell@yahoo.com' <kcmawell@yahoo.com>; 'Kurt Sandoval (kurt.sandoval@bia.gov)' <kurt.sandoval@bia.gov>; 'Orson Harrison (orsonharrison@jicarillaoga.com)' <orsonharrison@jicarillaoga.com>
Cc: 'Marlena Martinez (marlena.martinez@bia.gov)' <marlena.martinez@bia.gov>; 'Vicenti, Deedra' <Deedra.Vicenti@bia.gov>; Jason Meechan <jmeechan@logosresourcesllc.com>; Bryan Lovato <blovato@logosresourcesllc.com>; Marcia Brueggenjohann <MBrueggenjohann@logosresourcesllc.com>; Brennan Banks <bbanks@logosresourcesllc.com>
Subject: RE: Jicarilla 95 6A - Separator spray

Per visit to wellsite with Keith Manwell yesterday, no dirt was shoveled or disposed of. Contaminated soil seems to be of a historical nature. LOGOS now plans to move separator, remove contaminated soil with a backhoe and Envirotech will be on location for sampling. Contaminated soil will be hauled to an approved landfarm. If backfill is needed, Keith will aid in finding a suitable spot to retrieve the backfill soil from. Backfill will not occur until the sample testing results are below the OCD final closure contamination level.

One-call-notice has been sent out, LOGOS will follow up with a notification of the scheduled remediation and sampling.

Tamra

From: Tamra Sessions
Sent: Tuesday, November 17, 2020 3:38 PM
To: Marie Florez <mflorez@logosresourcesllc.com>; kcmawell@yahoo.com; Kurt Sandoval (kurt.sandoval@bia.gov) <kurt.sandoval@bia.gov>; Orson Harrison (orsonharrison@jicarillaoga.com) <orsonharrison@jicarillaoga.com>
Cc: Marlena Martinez (marlena.martinez@bia.gov) <marlena.martinez@bia.gov>; Vicenti, Deedra <Deedra.Vicenti@bia.gov>; Jason Meechan <jmeechan@logosresourcesllc.com>; Bryan Lovato <blovato@logosresourcesllc.com>; Marcia Brueggenjohann <MBrueggenjohann@logosresourcesllc.com>; Brennan

Banks <bbanks@logosresourcesllc.com>

Subject: RE: Jicarilla 95 6A - Separator spray

Bryan spoke with Keith Manwell yesterday evening regarding the cleanup of the Jicarilla 95 6A wellsite. Keith and Bryan will visit the location tomorrow (Wednesday 11/18). LOGOS plans on using a shovel to dig up contaminated soil/gravel to be put in a container to be disposed of properly. Due to the wet soil prior to the release, LOGOS believes the contamination stayed near surface. Excess location dirt/gravel will be used to fill in dug out area.

If it is determined the depth of contamination is going excessively deeper, LOGOS will stop work and come up with a new plan.

Tamra Sessions
Regulatory Specialist
Office 505-324-4145
tsessions@logosresourcesllc.com



From: Marie Florez
Sent: Friday, November 13, 2020 11:13 AM
To: kcmawell@yahoo.com; Kurt Sandoval (kurt.sandoval@bia.gov) <kurt.sandoval@bia.gov>; Orson Harrison (orsonharrison@jicarillaoga.com) <orsonharrison@jicarillaoga.com>
Cc: Marlena Martinez (marlena.martinez@bia.gov) <marlena.martinez@bia.gov>; Vicenti, Deedra <Deedra.Vicenti@bia.gov>; Jason Meechan <jmeechan@logosresourcesllc.com>; Bryan Lovato <blovato@logosresourcesllc.com>; Tamra Sessions <tsessions@logosresourcesllc.com>; Marcia Brueggjenjohann <MBrueggjenjohann@logosresourcesllc.com>; Brennan Banks <bbanks@logosresourcesllc.com>
Subject: Jicarilla 95 6A - Separator spray

Pumper found release on Thursday, November 11, 2020 @ 10:06am.

Affected area: 4' x 15'.

The separator had a ruptured disc pop off on location and sprayed +/- 20 gals of mixed oil and water. The affected area sprayed on the separator and the ground around the separator.

LOGOS cleaned up the area, sprayed simple green and power washed the separator, placed absorbent pads to soak up oil/ water on the affected area, and added AB plus oil soaker and will continue to turn soil.

Jicarilla 95 6A
API: 30-039-25442
Section: 36
Township: 27N
Range: 3W
Unit: J

NAD 83
Lat: 36.5273514
Long: -107.0936661

Thanks,

Marie E. Florez

Regulatory Specialist

Cell: 505-419-8420

Office: 505-787-2218

mflorez@logosresourcesllc.com



Tamra Sessions

From: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Sent: Tuesday, December 22, 2020 3:04 PM
To: Tamra Sessions; Powell, Brandon, EMNRD
Cc: Marie Florez; Bryan Lovato; Jason Meechan; Keith Manwell-JIC EPO (kcmanwell@yahoo.com)
Subject: RE: Jicarilla 95 6A - Notification for Final Sampling - Variance Request

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe. If you believe you've received this email in error, or believe this is a phishing attempt contact Bluewire Help Desk

Tamera,

As discussed I understand the situation, please submit a C-141 final with all the required information.

Please include this approval of your request for a variance to the 48 hour sample notification.

Thank you,

Cory Smith • Environmental Specialist
 Environmental Bureau
 EMNRD - Oil Conservation Division
 1000 Rio Brazos | Aztec, NM 87410
 505.334.6178 x115 | Cory.Smith@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>

From: Tamra Sessions <tsessions@logosresourcesllc.com>
Sent: Tuesday, December 22, 2020 2:52 PM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>
Cc: Marie Florez <mflorez@logosresourcesllc.com>; Bryan Lovato <blovato@logosresourcesllc.com>; Jason Meechan <jmeechan@logosresourcesllc.com>; Keith Manwell-JIC EPO (kcmanwell@yahoo.com) <kcmanwell@yahoo.com>
Subject: [EXT] Jicarilla 95 6A - Notification for Final Sampling - Variance Request

DO NOT NEED TO NOTIFY UNLESS WE HAUL MORE THAN 12 YARDS.

Keith Manwell (Jicarilla) was notified of this incident on November 12, 2020 but this was a non-reportable incident of less than 1bbl at the time.

LOGOS is now notifying OCD and requesting a variance to the 48 hour notice for final sample.

On December 2, 2020, we dug approximately 12 cu yds of contaminated soil, which appears to be a historic stain from previous ruptured disc on the separator.

Envirotech was on location and continued to monitor/test sample until we had clean soil.

Keith Manwell (Jicarilla) was onsite for this sampling.
 I missed sending this out on December 2, 2020.

API: 30-039-25442
Well Name: Jicarilla 95 6A
Section:36
Township:27N
Range: 3W
Unit Letter: J
36.527351,-107.093666 NAD83

Tamra Sessions
Regulatory Specialist
Office 505-324-4145
tsessions@logosresourcesllc.com



JICARILLA 35 8 – 11/12/20 SITE AREA SPILL



JICARILLA 35 8 – 12/02/2020 SITE AREA REMEDIATING



SAMPLING



JICARILLA 35 8 – SITE AREA BACKFILLED



Report to:
Felipe Aragon



5796 U.S. Hwy 64
Farmington, NM 87401

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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Logos Operating, LLC

Project Name: Jicarilla 95-6A

Work Order: E012009

Job Number: 12035-0158

Received: 12/3/2020

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/9/20

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 NM009792018-1 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557-19-2 for data reported.

Date Reported: 12/9/20

Felipe Aragon
PO Box 18
Flora Vista, NM 87415



Project Name: Jicarilla 95-6A
Workorder: E012009
Date Received: 12/3/2020 8:52:00AM

Felipe Aragon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/3/2020 8:52:00AM, under the Project Name: Jicarilla 95-6A.

The analytical test results summarized in this report with the Project Name: Jicarilla 95-6A 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,

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Sample Summary

Logos Operating, LLC	Project Name:	Jicarilla 95-6A	Reported:
PO Box 18	Project Number:	12035-0158	
Flora Vista NM, 87415	Project Manager:	Felipe Aragon	12/09/20 16:24

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Confirmation Sample	E012009-01A	Soil	12/02/20	12/03/20	Glass Jar, 4 oz.
	E012009-01B	Soil	12/02/20	12/03/20	Glass Jar, 4 oz.
	E012009-01C	Soil	12/02/20	12/03/20	Glass Jar, 4 oz.



Sample Data

Logos Operating, LLC	Project Name:	Jicarilla 95-6A	Reported: 12/9/2020 4:24:20PM
PO Box 18	Project Number:	12035-0158	
Flora Vista NM, 87415	Project Manager:	Felipe Aragon	

Confirmation Sample

E012009-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2049030
Benzene	ND	0.0250	1	12/04/20	12/08/20	
Toluene	0.0493	0.0250	1	12/04/20	12/08/20	
Ethylbenzene	ND	0.0250	1	12/04/20	12/08/20	
p,m-Xylene	0.180	0.0500	1	12/04/20	12/08/20	
o-Xylene	0.0589	0.0250	1	12/04/20	12/08/20	
Total Xylenes	0.239	0.0250	1	12/04/20	12/08/20	
Surrogate: 4-Bromochlorobenzene-PID	104 %	70-130		12/04/20	12/08/20	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2049030
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/04/20	12/08/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	86.7 %	70-130		12/04/20	12/08/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2049032
Diesel Range Organics (C10-C28)	ND	25.0	1	12/04/20	12/04/20	
Oil Range Organics (C28-C35)	ND	50.0	1	12/04/20	12/04/20	
Surrogate: n-Nonane	120 %	50-200		12/04/20	12/04/20	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2049026
Chloride	ND	20.0	1	12/07/20	12/07/20	



QC Summary Data

Logos Operating, LLC	Project Name:	Jicarilla 95-6A	Reported:
PO Box 18	Project Number:	12035-0158	
Flora Vista NM, 87415	Project Manager:	Felipe Aragon	12/9/2020 4:24:20PM

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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Blank (2049030-BLK1)

Prepared: 12/04/20 Analyzed: 12/08/20

Benzene	ND	0.0250							
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	8.57		8.00		107		70-130		

LCS (2049030-BS1)

Prepared: 12/04/20 Analyzed: 12/08/20

Benzene	4.84	0.0250	5.00		96.8		70-130		
Toluene	5.19	0.0250	5.00		104		70-130		
Ethylbenzene	5.31	0.0250	5.00		106		70-130		
p,m-Xylene	10.8	0.0500	10.0		108		70-130		
o-Xylene	5.40	0.0250	5.00		108		70-130		
Total Xylenes	16.2	0.0250	15.0		108		70-130		
Surrogate: 4-Bromochlorobenzene-PID	8.70		8.00		109		70-130		

Matrix Spike (2049030-MS1)

Source: E012009-01 Prepared: 12/04/20 Analyzed: 12/08/20

Benzene	4.72	0.0250	5.00	ND	94.3		54-133		
Toluene	5.13	0.0250	5.00	0.0493	102		61-130		
Ethylbenzene	5.22	0.0250	5.00	ND	104		61-133		
p,m-Xylene	10.7	0.0500	10.0	0.180	105		63-131		
o-Xylene	5.35	0.0250	5.00	0.0589	106		63-131		
Total Xylenes	16.1	0.0250	15.0	0.239	105		63-131		
Surrogate: 4-Bromochlorobenzene-PID	8.69		8.00		109		70-130		

Matrix Spike Dup (2049030-MSD1)

Source: E012009-01 Prepared: 12/04/20 Analyzed: 12/08/20

Benzene	4.75	0.0250	5.00	ND	94.9	54-133	0.650	20	
Toluene	5.10	0.0250	5.00	0.0493	101	61-130	0.471	20	
Ethylbenzene	5.19	0.0250	5.00	ND	104	61-133	0.452	20	
p,m-Xylene	10.7	0.0500	10.0	0.180	105	63-131	0.370	20	
o-Xylene	5.32	0.0250	5.00	0.0589	105	63-131	0.454	20	
Total Xylenes	16.0	0.0250	15.0	0.239	105	63-131	0.398	20	
Surrogate: 4-Bromochlorobenzene-PID	8.72		8.00		109	70-130			



QC Summary Data

Logos Operating, LLC	Project Name:	Jicarilla 95-6A	Reported:
PO Box 18	Project Number:	12035-0158	
Flora Vista NM, 87415	Project Manager:	Felipe Aragon	12/9/2020 4:24:20PM

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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Blank (2049030-BLK1)

Prepared: 12/04/20 Analyzed: 12/08/20

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.06		8.00		88.2	70-130			

LCS (2049030-BS2)

Prepared: 12/04/20 Analyzed: 12/08/20

Gasoline Range Organics (C6-C10)	46.9	20.0	50.0		93.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		8.00		89.1	70-130			

Matrix Spike (2049030-MS2)

Source: E012009-01 Prepared: 12/04/20 Analyzed: 12/08/20

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0	ND	96.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.8	70-130			

Matrix Spike Dup (2049030-MSD2)

Source: E012009-01 Prepared: 12/04/20 Analyzed: 12/08/20

Gasoline Range Organics (C6-C10)	47.7	20.0	50.0	ND	95.5	70-130	0.683	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		8.00		88.0	70-130			



QC Summary Data

Logos Operating, LLC	Project Name:	Jicarilla 95-6A	Reported:
PO Box 18	Project Number:	12035-0158	
Flora Vista NM, 87415	Project Manager:	Felipe Aragon	12/9/2020 4:24:20PM

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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Blank (2049032-BLK1)

Prepared: 12/04/20 Analyzed: 12/04/20

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: n-Nonane	48.8		50.0		97.7	50-200			

LCS (2049032-BS1)

Prepared: 12/04/20 Analyzed: 12/04/20

Diesel Range Organics (C10-C28)	432	25.0	500		86.3	38-132			
Surrogate: n-Nonane	51.2		50.0		102	50-200			

Matrix Spike (2049032-MS1)

Source: E012009-01 Prepared: 12/04/20 Analyzed: 12/04/20

Diesel Range Organics (C10-C28)	460	25.0	500	ND	91.9	38-132			
Surrogate: n-Nonane	46.6		50.0		93.1	50-200			

Matrix Spike Dup (2049032-MSD1)

Source: E012009-01 Prepared: 12/04/20 Analyzed: 12/04/20

Diesel Range Organics (C10-C28)	458	25.0	500	ND	91.6	38-132	0.386	20	
Surrogate: n-Nonane	48.1		50.0		96.1	50-200			



QC Summary Data

Logos Operating, LLC	Project Name:	Jicarilla 95-6A	Reported:
PO Box 18	Project Number:	12035-0158	
Flora Vista NM, 87415	Project Manager:	Felipe Aragon	12/9/2020 4:24:20PM

Anions by EPA 300.0/9056A

Analyst: IY

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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Blank (2049026-BLK1)

Prepared: 12/07/20 Analyzed: 12/07/20

Chloride	ND	20.0
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LCS (2049026-BS1)

Prepared: 12/07/20 Analyzed: 12/07/20

Chloride	253	20.0	250	101	90-110
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Matrix Spike (2049026-MS1)

Source: E012009-01 Prepared: 12/07/20 Analyzed: 12/07/20

Chloride	255	20.0	250	ND	102	80-120
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Matrix Spike Dup (2049026-MSD1)

Source: E012009-01 Prepared: 12/07/20 Analyzed: 12/07/20

Chloride	255	20.0	250	ND	102	80-120	0.0627	20
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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

Logos Operating, LLC	Project Name:	Jicarilla 95-6A	
PO Box 18	Project Number:	12035-0158	Reported:
Flora Vista NM, 87415	Project Manager:	Felipe Aragon	12/09/20 16:24

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.



Chain of Custody

Page 1 of 1

C

envirotech

Envirotech Analytical Laboratory

Printed: 12/3/2020 10:15:32AM

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:	Logos Operating, LLC	Date Received:	12/03/20 08:52	Work Order ID:	E012009
Phone:	(505)215-8215	Date Logged In:	12/03/20 10:13	Logged In By:	Alexa Michaels
Email:		Due Date:	12/10/20 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
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.

Carrier: Clay GreenSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? No

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: 4°C

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

Client Instruction

Email-Felipe, CLay, Greg, Tami & Brittany

Comments/Resolution

Email-Felipe, CLay, Greg, Tami & Brittany

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

Date



envirotech Inc.

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 18980

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 18980
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report accepted per Jicarilla. In the future please include JEPO/JOGA written approval.	1/24/2022