VERTEX

November 15, 2021

Vertex Project #: 21E-03278-05

Spill Closure Report: Dagger Draw Gas Gathering System (Hinkle Line) (Section 28, Township 19 South, Range 25 East)
County: Eddy
Incident Report: 2RP-823

Prepared For: **EOG Resources, Inc.**
104 South 4th Street
Artesia, NM 88210

New Mexico Oil Conservation Division - District 2
811 S. 1st Street
Artesia, New Mexico 88210

EOG Resources, Inc. (EOG) retained Vertex Resource Services Inc. (Vertex) to conduct a Spill Assessment for a release of natural gas caused by a broken weld on the eight-inch poly gas line on the right-of-way at Dagger Draw Gas Gathering System-Hinkle Line, Incident 2RP-823 (hereafter referred to as "Hinkle Line"). EOG provided notification to New Mexico Oil Conservation District (NMOCD) District 2 and the private landowner via submission of an initial C-141 Release Notification (Attachment 1). The NMOCD tracking number assigned to this incident is 2RP-823. This letter provides a description of the Spill Assessment and includes a request for Spill Closure. The spill area is located at N 32.633797, W -104.491017.

Background

The site is located approximately four miles West of Lakewood, New Mexico. The legal location for the site is Section 28, Township 19 South and Range 25 East in Eddy County, New Mexico. The spill area is located on State property. An aerial photograph and site schematic are included in Attachment 2.

The Geological Map of New Mexico (New Mexico Bureau of Geology and Mineral Resources, 2014 – 2021) indicates the site's surface geology is comprised primarily of Qp - Piedmont alluvial deposits (Holocene to lower Pleistocene) and is characterized as Reagan loam and Reagan-Upton association. Predominant soil texture on the site is loamy. Ecological settings of the area include vegetation of black grama, tobosa, bunchgrasses, soaptree yucca, forbs, broom snakeweed, prickly pear, and threeawns. Mesquite, tarbrush, creosote, and lovegrass are the greatest threat to dominate the area in the long term after disturbance.

The surrounding landscape is associated with alluvial fans and fan remnants typical of elevations between 1,100 to 5,400 feet above sea level. The climate is semi-arid with an average annual precipitation ranging between 7 to 14 inches. This soil tends to be well drained with low runoff and moderate available water supply (United States Department of Agriculture, Natural Resource Conservation Service, 2020).

There is no surface water located on-site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 of the New Mexico Administrative Code (NMAC), is the Pecos River, located approximately 8.76 miles east-southeast of the site (United States Fish and Wildlife Service, 2020). There are no continuously flowing watercourses, lakebeds, sinkholes, playa lakes, or other critical water or community features at Hinkle Line, as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

Incident Description

The spill occurred on June 1, 2011, due to a weld breaking on an eight-inch polyline. The spill was reported on June 1, 2011 followed with an email on June 2, 2011 and involved the release of approximately 500 Mcf Gas within the valve box. Approximately zero Mcf Gas was recovered during initial spill clean-up. The NMOCD C-141 Report: 2RP-823 is included in Attachment 1. The Daily Field Report (DFR) and site photographs are included in Attachment 3.

Closure Criteria Determination

The depth to groundwater was determined using information from the New Mexico Office of the State Engineer Water Column/Average Depth to Water report and United States Department of the Interior, United States Geological Survey. A 0.5-mile search radius was used to determine groundwater depth. There are no groundwater monitoring wells within a 0.5-mile radius and the site is located in pasture land, therefore, the site must meet the strictest criteria (less than 50 ft. to groundwater) for closure. The closest recorded depth to groundwater was determined to be 33 feet below ground surface (bgs) and is 0.54 miles from the site. Documentation used in Closure Criteria Determination research is included in Attachment 4.

Closure Criteria Worksheet			
Site Name: Dagger Draw Gas Gathering/Hinkle Line			
Spill Coordinates: 32.633797, -104.491017			
Site Specific Conditions		**Value**	**Unit**
1	Depth to Groundwater	**<50**	feet
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	46,247	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	33,839	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	9,554	feet
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, **or**	4,417	feet
	ii) Within 1000 feet of any fresh water well or spring	4,417	feet
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)

7	Within 300 feet of a wetland	1,546	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
9	Within an unstable area (Karst Map)	Medium	Critical High Medium Low
10	Within a 100-year Floodplain	500	year
11	Soil Type	RA, RE	
12	Ecological Classification	Loamy	
13	Geology	Qp	
NMAC 19.15.29.12 E (Table 1) Closure Criteria		<50'	<50' 51-100' >100'

The closure criteria determined for the site are associated with the following constituent concentration limits as presented in Table 1.

Table 1. Closure Criteria for Soils Impacted by a Release

Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/L TDS	Constituent	Limit
< 50 feet	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

TDS – total dissolved solids, TPH – total petroleum hydrocarbons, GRO – gas range organics, DRO – diesel range organics, MRO – motor oil range organics, BTEX – benzene, toluene, ethylbenzene and xylenes

Remedial Actions Taken

An initial site inspection of the spill area was completed on September 30, 2021, which identified the area of the spill specified in the initial C-141 Report, estimated the approximate volume of the spill and white lined the area required for the 811 One Call request. After the initial site inspection was completed, field screening and laboratory analysis of soil samples determined that there was no impacted area outside the observed perimeter of the release. The total area sampled was determined to be approximately 29 feet long and 27 feet wide for a total of 606 square feet. An aerial photograph and site schematic of the determined sampling area is included as Figure 1 (Attachment 2). The DFR associated with the site inspection is included in Attachment 3.

Field screening was completed on a total of five sample points and consisted of analysis using a Dexsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) on 3 samples and an EC probe (chlorides) on 26 samples. Field

screening results were used to identify and differentiate areas requiring further remediation from those areas showing concentrations below determined closure criteria levels. Soils were collected as discrete samples from 0 feet bgs to 4 feet bgs and field screened for contaminants and sent to laboratory for analysis. Laboratory analysis verified that no further remediation was needed and that the surrounding area could move to confirmation sampling. Field screening results are presented in Table 2 (Attachment 5).

EOG provided notification of confirmation samples being collected to NMOCD on October 18, 2021 and is included in Attachment 6, as required by Subparagraph (a) of Paragraph (1).

On October 21, 2021, Vertex collected six composite samples from the surrounding area ranging from 0 to 4 feet bgs depths. Each composite sample was representative of no more than 200 square feet per the alternate sampling method outlined in Subparagraph (c) of Paragraph (1) of Subsection D 19.15.29.12 NMAC, which does not require prior NMOCD approval. Samples were submitted to Hall Environmental Analysis Laboratory under chain-of-custody (COC) protocols and analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chlorides (EPA Method 300.0). Laboratory results are presented in Table 3 (Attachment 5), and the laboratory data report and COCs are included in Attachment 7. All confirmatory samples collected and analyzed were below closure criteria for the site.

A GeoExplorer 7000 series Trimble global positioning system (GPS) unit, or equivalent, was used to map the approximate center of each of the five-point composite samples. The confirmatory sample locations are present on Figure 2 (Attachment 2). Relevant equipment and prominent features/reference points at the site are mapped as well.

Closure Request

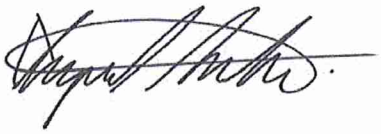
Vertex recommends no additional action to address the release at Hinkle Line. Confirmatory samples were analyzed by the laboratory and found to be below allowable concentrations as per the NMAC Closure Criteria for Soils Impacted by a Release locations "under 50 feet to groundwater". There are no anticipated risks to human, ecological or hydrological receptors associated with the release site.

Vertex requests that this incident (2RP-823) be closed as all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. EOG certifies that all information in this report and the attachments is correct, and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NMOCD requirements to obtain closure on the June 1, 2011 release at Hinkle Line.

Should you have any questions or concerns, please do not hesitate to contact the undersigned at 575.361.9880 or mpeppin@vertex.ca.

Monica Peppin
SR. ENVIRONMENTAL TECHNICIAN, REPORTING

11.15.2021
Date



Dhugal Hanton, B.Sc., P.Ag, SR/WA, P.Biol.
VP – US OPERATIONS, REPORT REVIEW

11.15.2021
Date

Attachments

Attachment 1. NMOCD C-141 Report
Attachment 2. Site Schematics
Attachment 3. Daily Field Report with Pictures
Attachment 4. Closure Criteria for Soils Impacted by a Release Research Determination Documentation
Attachment 5. Characterization and Confirmatory Sampling Laboratory Results Tables
Attachment 6. Required 48-hr Notification of Confirmation Sampling to Regulatory Agencies
Attachment 7. Laboratory Data Reports and COCs

References

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Assessed and Impaired Waters of New Mexico. New Mexico Department of Surface Water Quality Bureau, (2019). Retrieved from https://gis.web.env.nm.gov/oem/?map=swqb

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Interactive Geologic Map. New Mexico Bureau of Geology and Mineral Resources, (2019). Retrieved from http://geoinfo.nmt.edu

Measured Distance from the Subject Site to Residence. Google Earth Pro, (2019). Retrieved from https://earth.google.com

Point of Diversion Location Report. New Mexico Water Rights Reporting System, (2019). Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/wellSurfaceDiversion.html

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National Wetland Inventory Surface Waters and Wetland. United State Fish and Wildlife Service, (2019). Retrieved from https://www.fws.gov/wetlands/data/mapper.html

Coal Mine Resources in New Mexico. NM Mining and Minerals Division, (2019). Retrieved from http://www.emnrd.state.nm.us/MMD/gismapminedata.html

New Mexico Cave/Karsts. United States Department of the Interior, Bureau of Land Management, (2019) Retrieved from https://www.blm.gov/programs/recreation/recreation-programs/caves/new-mexico

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Well Log/Meter Information Report. NM Office of the State Engineer, New Mexico Water Rights Reporting System. (2021). Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/meterReport.html

Natural Resources and Wildlife Oil and Gas Releases. New Mexico Oil Conservation Division, (2021). Santa Fe, New Mexico.

Soil Survey, New Mexico. United States Department of Agriculture, Soil Conservation Service in Cooperation with New Mexico Agricultural Experiment Station. (1971). Retrieved from http://www.wipp.energy.gov/library/Information_Repository_A/Supplemental_Information/Chugg%20et%20al%201971%20w-map.pdf

Limitations

This report has been prepared for the sole benefit of EOG Resources, Inc. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division, without the express written consent of Vertex Resource Services Inc. (Vertex) and EOG Resources, Inc. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

ATTACHMENT 1

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

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

Name of Company	OGRID Number	Contact
Yates Petroleum Corporation	25575	Amanda Trujillo
Address		Telephone No.
104 S. 4TH Street		575-748-1471
Facility Name	API Number	Facility Type / Order Number
Dagger Draw Gas Gathering System (Hinkle Line)		Pipeline 2RP-

Surface Owner	Mineral Owner	Lease No.
Fee	Fee	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	28	19S	25E	990	North	600	East	Eddy

NATURE OF RELEASE

Type of Release Gas	Volume of Release 500 MCF Gas Volume Recovered 0
Source of Release Weld on 8" poly gas line broke.	Date and Hour of Occurrence 06/01/2011 Date and Hour of Discovery 06/01/2011- PM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher – NMOCD/Artesia
By Whom? Amanda Trujillo – Yates Petroleum Corporation	Date and Hour 06/01/2011 pm called OCD Office. Email followed on 06/02/2011
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
A weld broke on and 8" poly line, causing a gas leak. Valves were shut off to stop leak and make necessary repairs. Leak occurred with in valve box.

Describe Area Affected and Cleanup Action Taken.*
Leak occurred within a valve box. The impacted area is located around and within the valve box. Vertical and horizontal delineation samples will be taken and analysis ran for TPH and BTEX once all contaminated material has been removed. **Depth to Ground Water: >100' (approx. 150', per New Mexico ChevronTexaco Trend Map); Wellhead Protection Area: No; Distance to Surface Water Body: >1000'; SITE RANKING IS 20.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: A Trujillo	OIL CONSERVATION DIVISION
Printed Name: Amanda Trujillo	Approved by District Supervisor:
Title: Environmental Scientist	Approval Date: / Expiration Date:
E-mail Address: atrujillo@yatespetroleum.com	Conditions of Approval: / Attached ☐
Date: Friday, June 17, 2011 Phone: 575-748-4310	

Attach Additional Sheets If Necessary

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	nMLB1122250190
District RP	2RP-823
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources, Inc.	OGRID 7377
Contact Name Chase Settle	Contact Telephone 575-748-1471
Contact email Chase_Settle@eogresources.com	Incident # *nMLB1122250190*
Contact mailing address 105 S 4th Street, Artesia, NM 88210	

Location of Release Source

Latitude 32.64102 Longitude -104.53072
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Dagger Draw Gas Gathering System (Hinkle Line)	Site Type Pipeline
Date Release Discovered 06/1/2011	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
A	28	19S	25E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* Ross Ranch)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	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) 500	Volume Recovered (Mcf) 0
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

A weld broke on and 8" poly line causing a gas leak. Valves were shut off to stop leak and make necessary repairs. Leak ocurred within valve box.

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Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, Mike Bratcher - NMOCD/Artesia 6/1/2011 pm called OCD office. Email followed on 06/02/2011.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

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

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Chase Settle Title: Rep Safety & Environmental Sr.

Signature: Chase Settle Date: 01/24/2022

email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

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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?	>50 (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.

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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: Chase Settle Title: Rep Safety & Environmental Sr.

Signature: Chase Settle Date: 01/24/2022

email: chase_settle@eogresources.com Telephone: 575-748-4171

OCD Only

Received by: Date:

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Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the 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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

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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.***

[X] A scaled site and sampling diagram as described in 19.15.29.11 NMAC

[X] 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)

[X] Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

[X] 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: Chase Settle Title: Rep Safety & Environmental Sr.

Signature: Chase Settle Date: 01/24/2022

email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

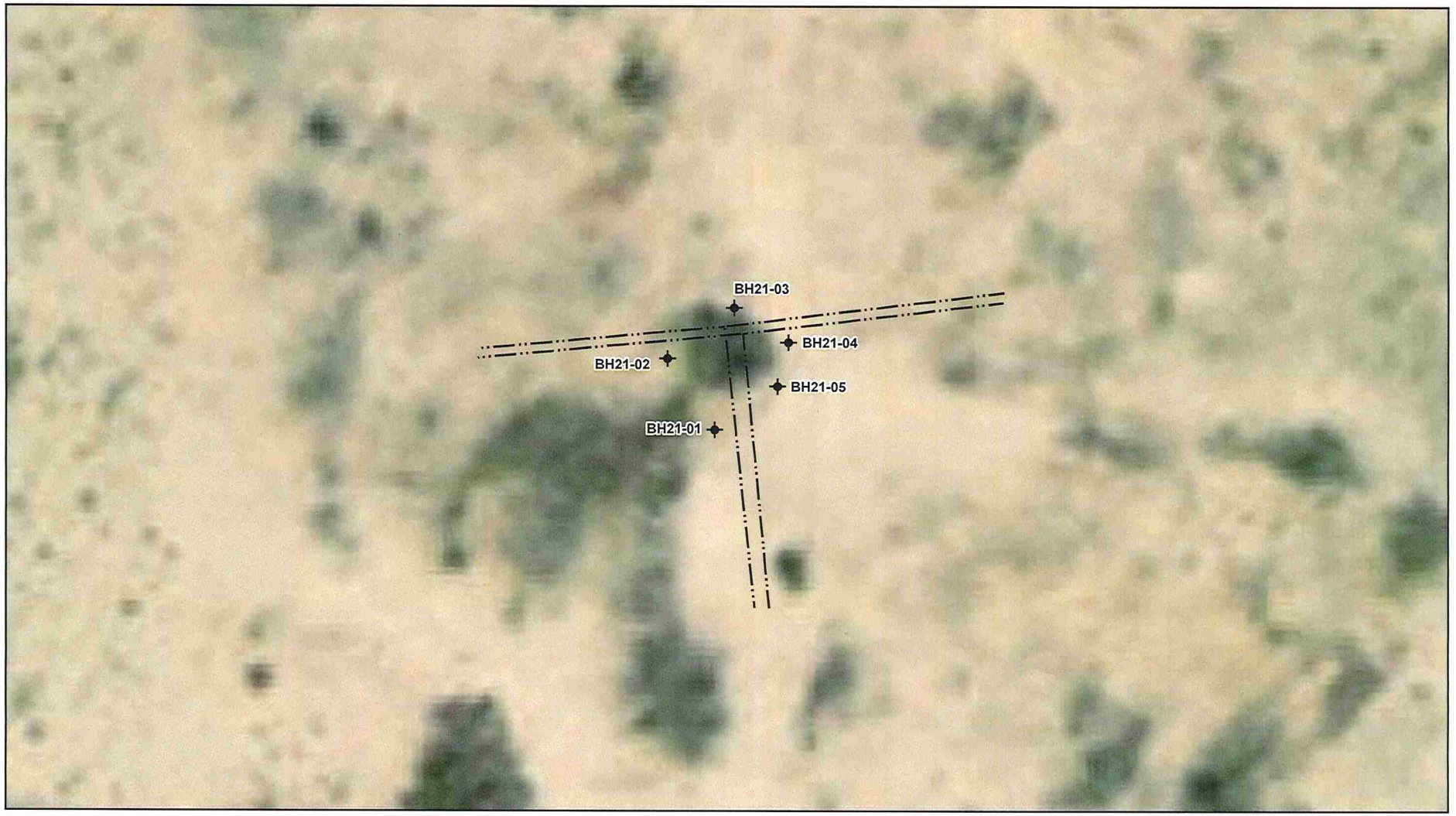
Received by: _____ Date: _____

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: 03/24/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

ATTACHMENT 2



Borehole

Underground Flowline

VERTEX

0 5 10 20 30 ft

Map Center:
Lat/Long: 32.633764, -104.491016

NAD 1983 UTM Zone 13N
Date: Oct 05/21

N

Initial Characterization
Dagger Draw Gas Gathering

FIGURE:
1

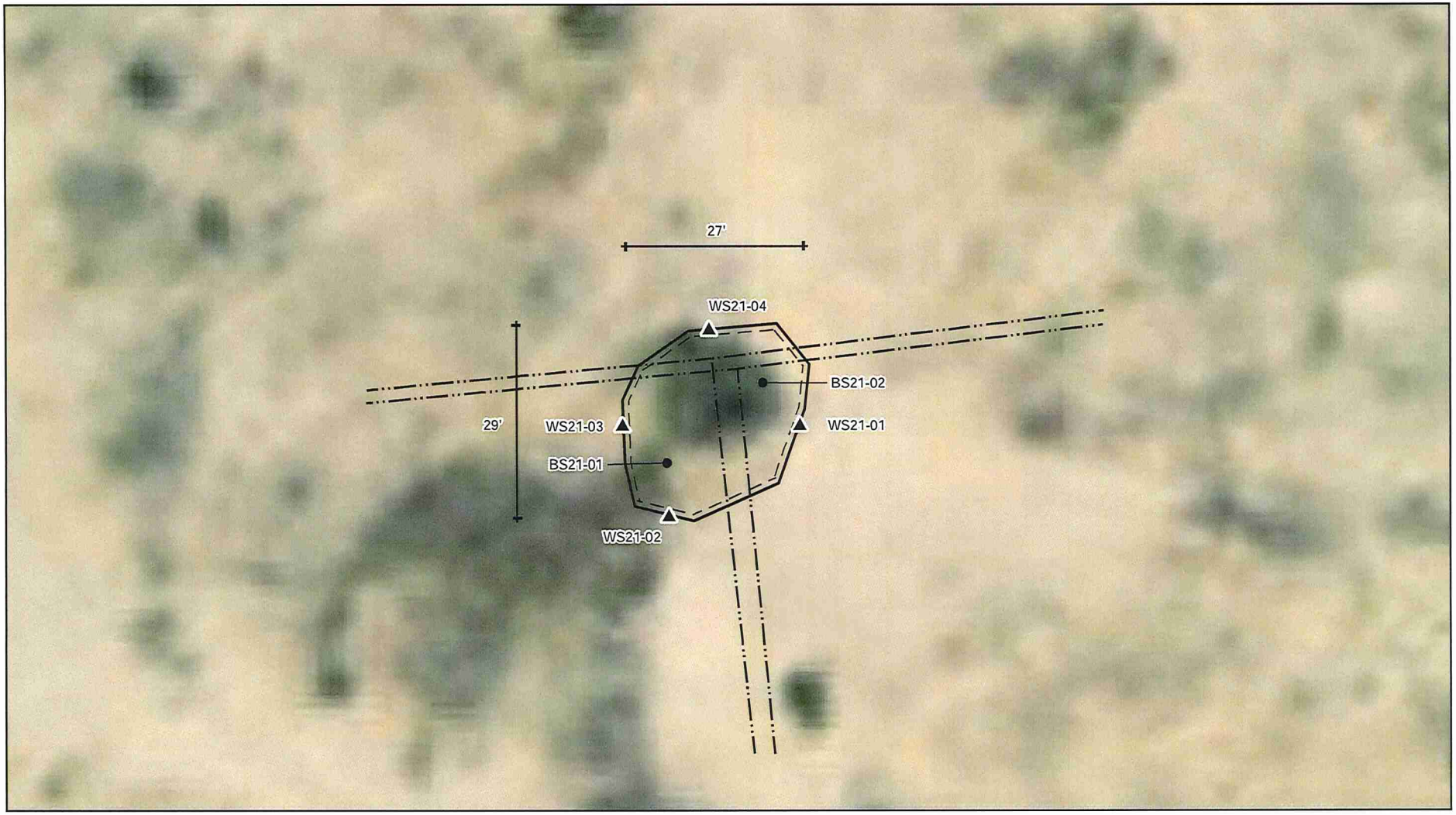
eog resources

Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Imagery from ESRI, 2020. Borehole locations from GPS, Vertex Professional Services, Ltd., 2021.

VERSATILITY. EXPERTISE.

Document Path: G:\1-Projects_US PROJECTS\EOG Resources Inc\21E-03278\005 - Dagger Draw Gas Gathering\Figure 1 Initial Characterization Dagger Draw Gas Gathering.mxd



● Base Sample
▲ Wall Sample
Underground Flowline
Approximate Excavation Extent (606 sq. ft.)

VERTEX

0 5 10 20 ft

Map Center:
Lat/Long: 32.633791, -104.491010

NAD 1983 UTM Zone 13N
Date: Oct 26/21

N

Confirmatory Schematic
Dagger Draw Gas Gathering

FIGURE:
2

eog resources

Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Imagery from ESRI, 2020. Borehole locations from GPS, Vertex Professional Services, Ltd., 2021.

VERSATILITY. EXPERTISE.

Document Path: G:\1-Projects_US PROJECTS\EOG Resources Inc\21E-03278005 - Dagger Draw Gas Gathering\Figure 2 Confirmatory Schematic Dagger Draw Gas Gathering.mxd

ATTACHMENT 3

Daily Site Visit Report

VERTEX

Client:	EOG Resources Inc.	Inspection Date:	9/28/2021
Site Location Name:	Dagger Draw Gas Gathering	Report Run Date:	9/28/2021 9:54 PM
Client Contact Name:	Chase Settle	API #:	
Client Contact Phone #:	575-703-6537		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	9/28/2021 12:21 PM
Departed Site	9/28/2021 12:33 PM

Field Notes

12:22 Tinhorn is on right of way. Dirt road is southeast of POR

12:27 Area has good vegetation. No staining visible or areas showing the ground pushed up from a release

12:28 Area is marked with white flags for about a 100x100 area

Next Steps & Recommendations

1 Submit 811 directions

2 Sample area

Daily Site Visit Report

VERTEX

Site Photos

Viewing Direction: Northwest

General area of release

Viewing Direction: East

Area of potential release

Viewing Direction: South

Right of way

Viewing Direction: West

Tin horn

Daily Site Visit Report

Viewing Direction: North	**Viewing Direction**: Northwest
	
Tin horn	General area

Daily Site Visit Report

VERTEX

Daily Site Visit Signature

Inspector: Monica Peppin

Signature: 
Signature

Daily Site Visit Report

Client:	EOG Resources Inc.	Inspection Date:	9/30/2021
Site Location Name:	Dagger Draw Gas Gathering	Report Run Date:	10/1/2021 1:48 PM
Client Contact Name:	Chase Settle	API #:	
Client Contact Phone #:	575-703-6537		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	9/30/2021 10:15 AM
Departed Site	9/30/2021 4:30 PM

Field Notes

11:11 Collection of samples to determine if any contamination is present

15:06 Samples have no odor or visuals of staining. Very loamy type soil

Next Steps & Recommendations

1 Send labs to ensure no contamination

2 Schedule either confirmation sampling or further field work

Daily Site Visit Report

VERTEX

Site Photos

Viewing Direction: Northwest

Sample area

Viewing Direction: North

Sample area

Viewing Direction: East

Sample area

Viewing Direction: South

Sample area

Daily Site Visit Report

VERTEX

Viewing Direction: West

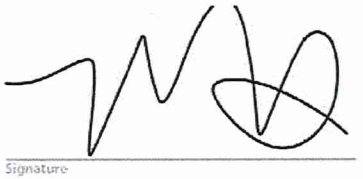
Sample area

Daily Site Visit Report

VERTEX

Daily Site Visit Signature

Inspector: Monica Peppin

Signature: 

Signature

Daily Soil Sampling

VERTEX

Client: EOG Resources Inc.

Location: Dagger Draw Gas Gathering

Date: Added by Monica Peppin on 9/30/21

Sampling											
		Field Screening							Data Collection		
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC ()	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BH21-01	0.0			0.10	21.5	24		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		√	
BH21-01	1.0			0.08	21.4	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		√	
BH21-01	2.0			0.09	21.5	10		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		√	
BH21-01	3.0			0.09	21.2	23		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		√	
BH21-01	4.0			0.19	21.5	154		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		√	
BH21-02	0.0			0.09	22.2	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		√	
BH21-02	1.0			0.08	22.3	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		√	
BH21-02	2.0			0.09	22.3	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		√	
BH21-02	3.0			0.15	21.9	79		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		√	

Daily Soil Sampling

VERTEX

BH21-02	4.0			0.30	22.2	282		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH21-03	0.0			0.09	22	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH21-03	1.0			0.12	21.8	40		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH21-03	2.0			0.33	22.2	326		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH21-03	3.0			0.44	22	493		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH21-03	4.0			0.38	22.1	402		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH21-04	0.0			0.09	20.4	57		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH21-04	1.0			0.10	20.2	80		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH21-04	2.0		30	0.44	20.3	567		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH21-04	3.0		36	0.68	20.4	909		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH21-04	4.0		22	0.67	20.3	899		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH21-05	0.0			0.09	22.5	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	

Daily Soil Sampling

VERTEX

BH21-05	1.0			0.10	22.6	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH21-05	2.0			0.25	22.6	193		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH21-05	3.0			0.31	22.5	284		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH21-05	4.0			0.34	22.3	336		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	

Daily Site Visit Report

VERTEX

Client:	EOG Resources Inc.	Inspection Date:	10/21/2021
Site Location Name:	Dagger Draw Gas Gathering	Report Run Date:	10/21/2021 7:13 PM
Client Contact Name:	Chase Settle	API #:	
Client Contact Phone #:	575-703-6537		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	10/21/2021 7:45 AM
Departed Site	10/21/2021 12:00 PM

Field Notes

11:34 Complete confirmation sampling of area around tin horn

11:35 All samples collected 0-4 foot. Considering wall samples as the outer extents of the area and two base samples 0-4 foot within the middle area

11:38 Five point composite samples taken for each sample. Wall samples collected for each cardinal direction and base samples taken to distinguish within area sampled

Next Steps & Recommendations

1 Lab analysis

2 Closure report

Daily Site Visit Report

VERTEX

Site Photos

Viewing Direction: North

Sample area

Viewing Direction: East

Sample area

Viewing Direction: South

Sample area

Viewing Direction: West

Sample area

Daily Site Visit Report

VERTEX

Viewing Direction: North

Tin horn

Daily Site Visit Report

VERTEX

Daily Site Visit Signature

Inspector: Monica Peppin

Signature: 

Signature

Daily Soil Sampling

VERTEX

Client: Client: EOG Resources Inc.

Location: Site: Dagger Draw Gas Gathering

Date: (SD: 10/21/21)

Sampling											
		Field Screening							Data Collection		
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES21-01	4.0	0	23				250	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	√	√	
BES21-02	4.0	0	12				275	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	√	√	
WES21-01	4.0	0	19				225	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	√	√	
WES21-02	4.0	0	15				160	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	√	√	
WES21-03	4.0	0	26				185	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	√	√	
WES21-04	4.0	0	31				110	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	√	√	

ATTACHMENT 4

Dagger Draw Gas Gathering OSE 0.5 mile Radius

9/29/2021, 8:47:25 AM

GIS WATERS PODs

- Active
- Pending
- OSE District Boundary

New Mexico State Trust Lands

- Both Estates
- SiteBoundaries

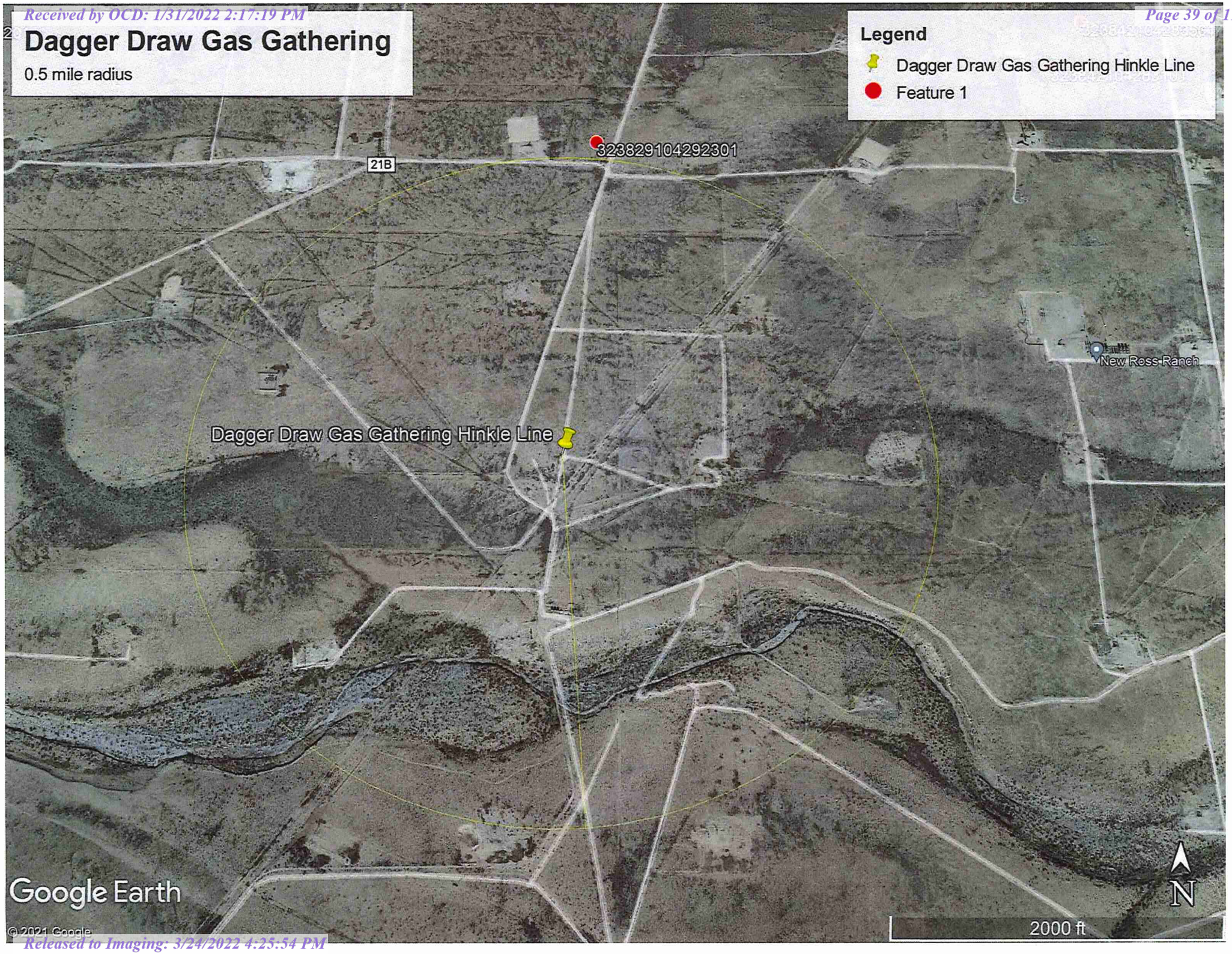
1:18,056

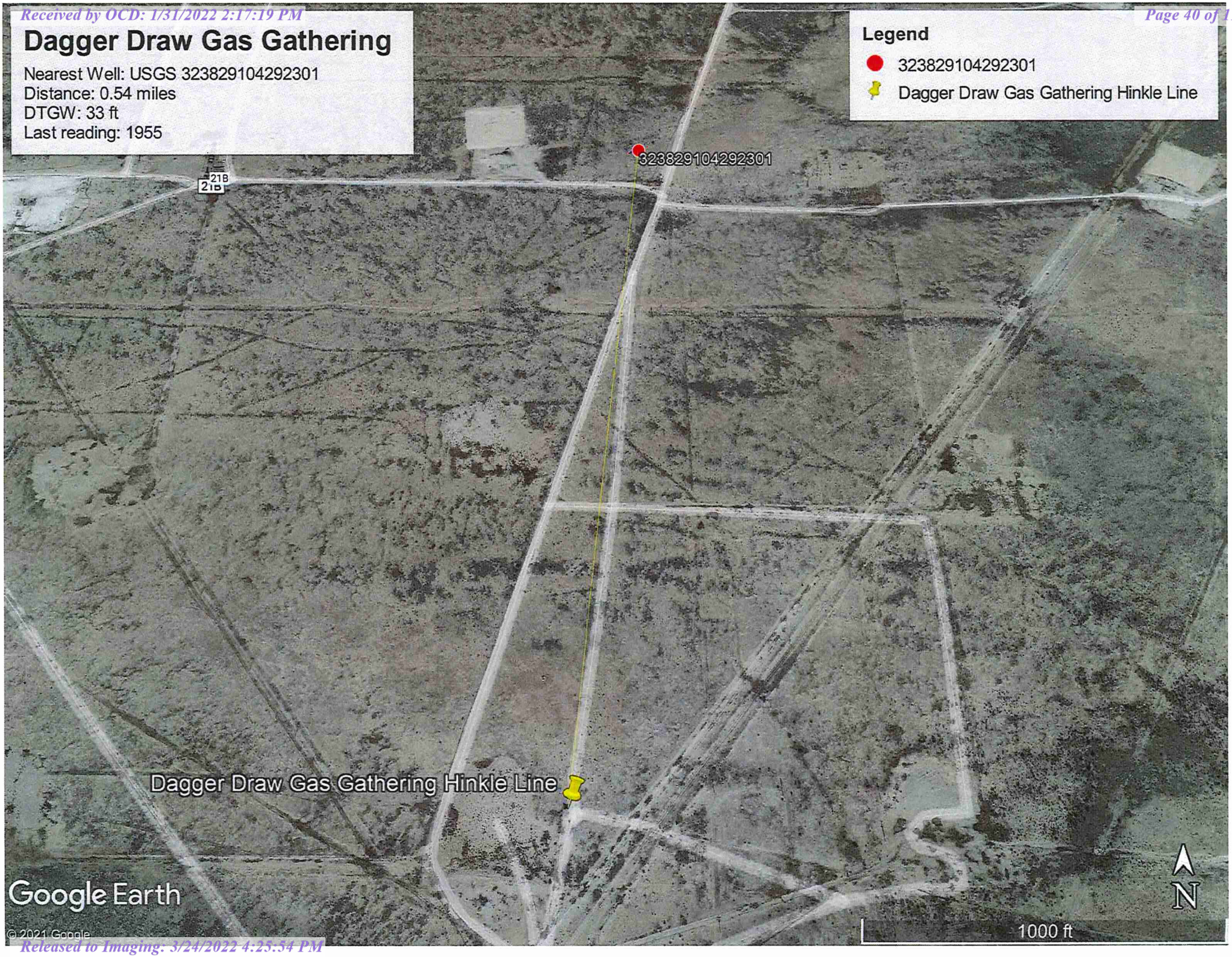
0 0.17 0.35 0.7 mi

0 0.28 0.55 1.1 km

Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar

Printed from Public Web Map
Unofficial Map from OSE POD Locations Web Application


Dagger Draw Gas Gathering
0.5 mile radius
Legend
Dagger Draw Gas Gathering Hinkle Line
Feature 1
323829104292301
21B
New Ross Ranch
Dagger Draw Gas Gathering Hinkle Line
Google Earth
© 2021 Google
N
2000 ft


Dagger Draw Gas Gathering
Nearest Well: USGS 323829104292301
Distance: 0.54 miles
DTGW: 33 ft
Last reading: 1955
Legend
323829104292301
Dagger Draw Gas Gathering Hinkle Line
323829104292301
21B
Dagger Draw Gas Gathering Hinkle Line
Google Earth
© 2021 Google
1000 ft
N

USGS science for a changing world

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

site_no list =

- 323829104292301

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

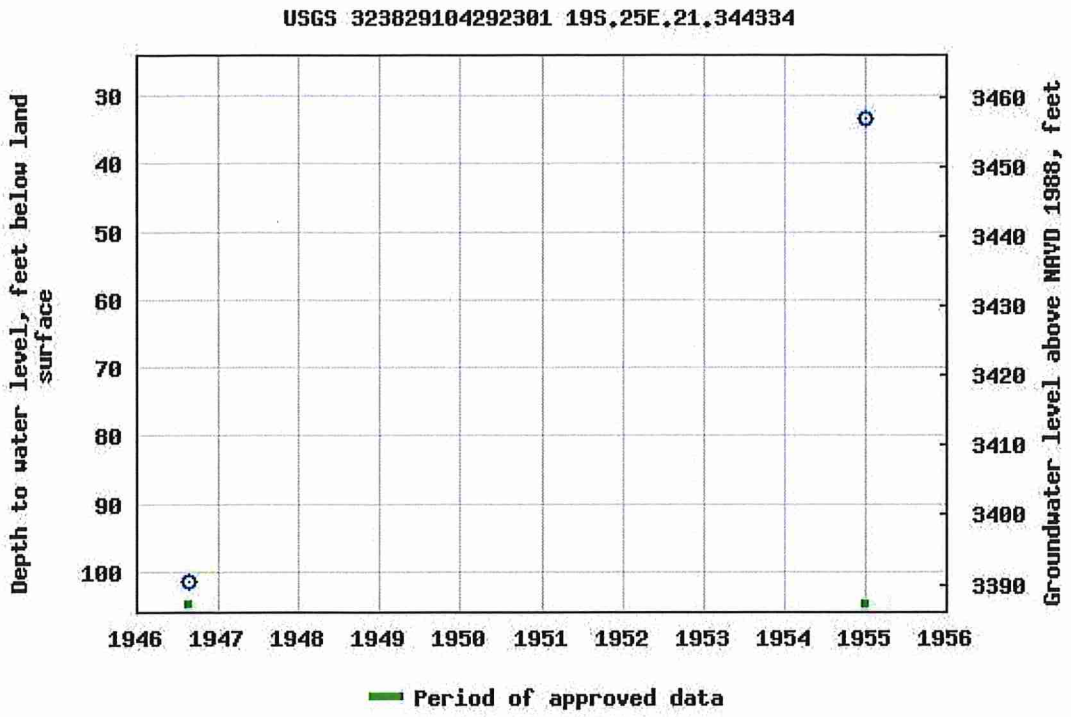
USGS 323829104292301 19S.25E.21.344334

Available data for this site | Groundwater: Field measurements | GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°38'29", Longitude 104°29'23" NAD27
Land-surface elevation 3,491 feet above NAVD88
The depth of the well is 260 feet below land surface.
This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.
This well is completed in the Artesia Group (313ARTS) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

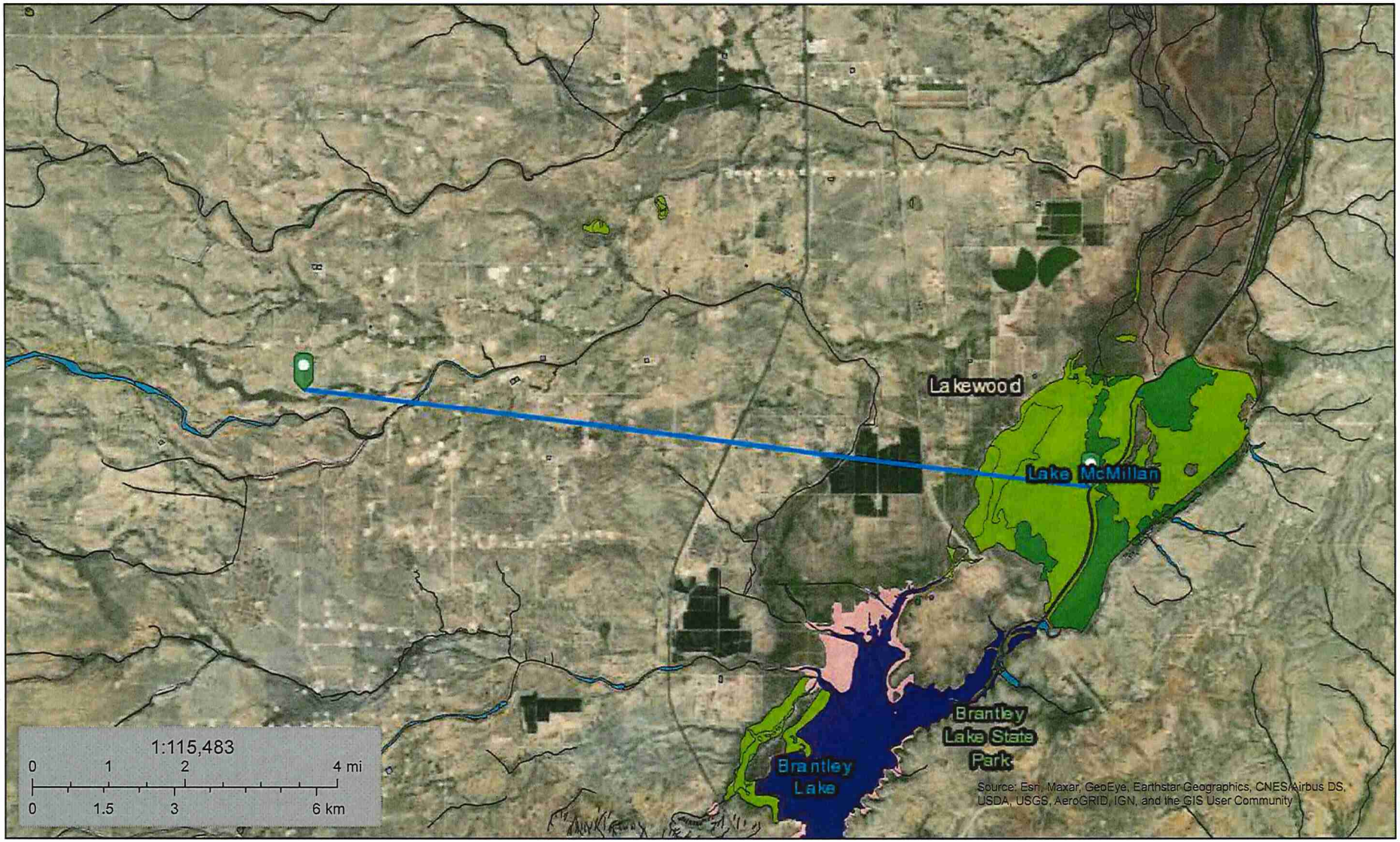
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2021-09-29 10:19:24 EDT
0.61 0.5 nadww02

U.S. Fish and Wildlife Service

National Wetlands Inventory

Dagger Draw Gas Gathering



September 29, 2021

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

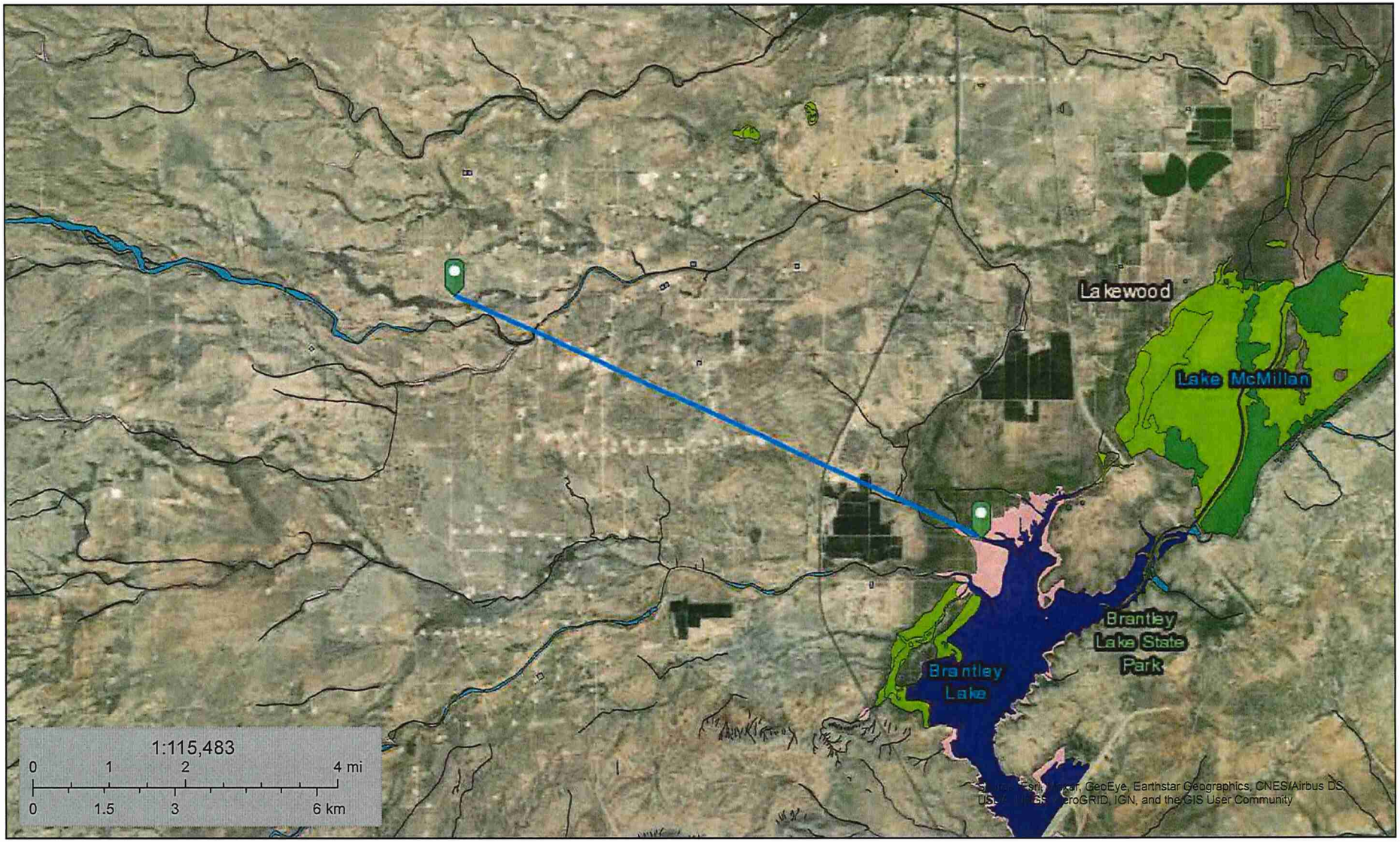
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

U.S. Fish and Wildlife Service

National Wetlands Inventory

Dagger Draw Gas Gathering



September 29, 2021

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
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- Freshwater Pond
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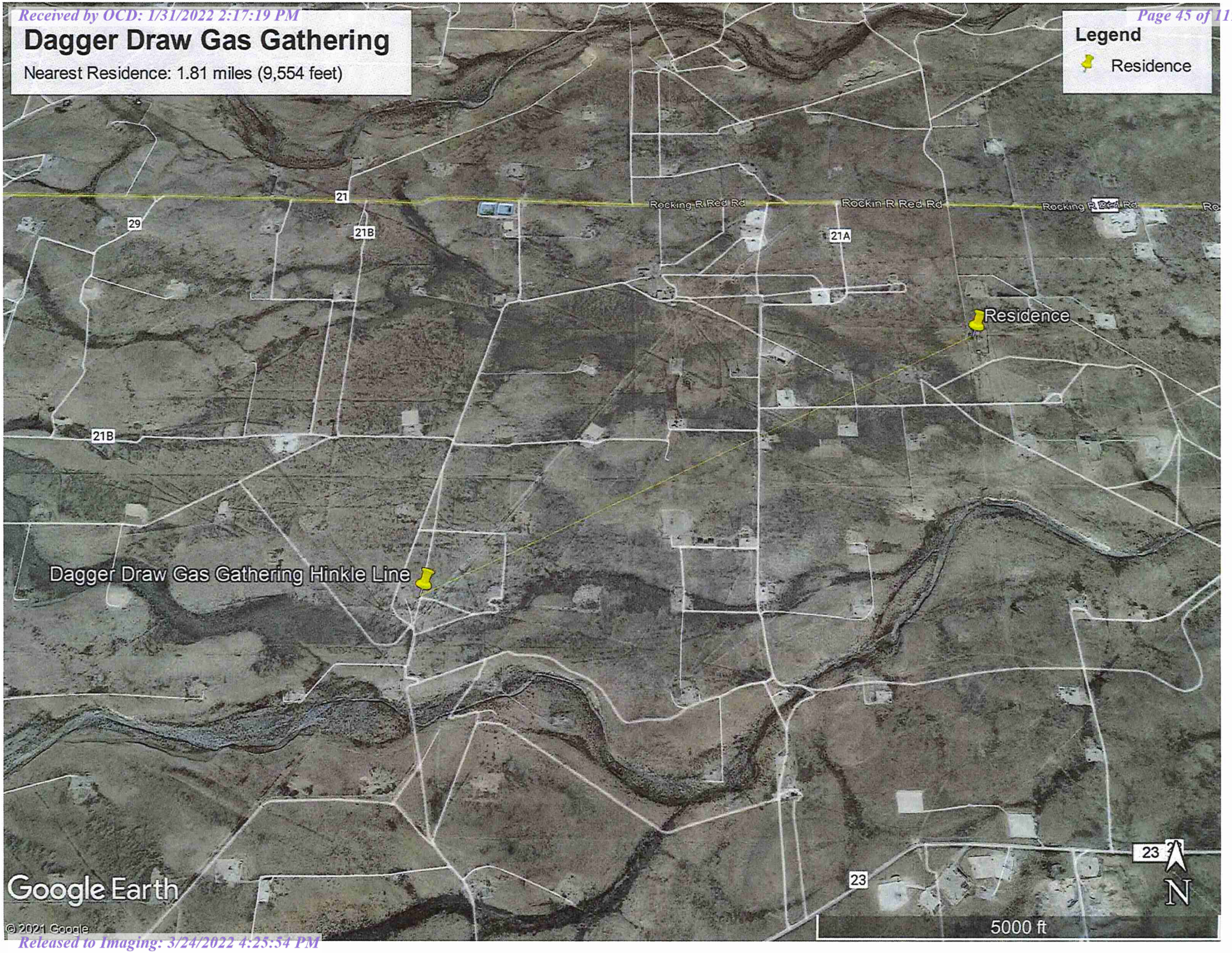
National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Dagger Draw Gas Gathering

Nearest Residence: 1.81 miles (9,554 feet)



Dagger Draw Gas Gathering Fresh Water Well

9/29/2021, 9:07:06 AM

GIS WATERS PODs

- Active

OSE District Boundary

New Mexico State Trust Lands

- Both Estates
- SiteBoundaries

1:9,028

0 0.07 0.15 0.3 mi

0 0.13 0.25 0.5 km

Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar

Printed from Public Web Map
Unofficial Map from OSE POD Locations Web Application

New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	RA 03304			1	27	19S	25E	549081	3610973*

Driller License: 62 **Driller Company:** BEATTY, J.R.

Driller Name: BEATTY, J.R.

Drill Start Date: 10/13/1954 **Drill Finish Date:** 10/15/1954 **Plug Date:**

Log File Date: 11/22/1954 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 7.00 **Depth Well:** 130 feet **Depth Water:** 60 feet

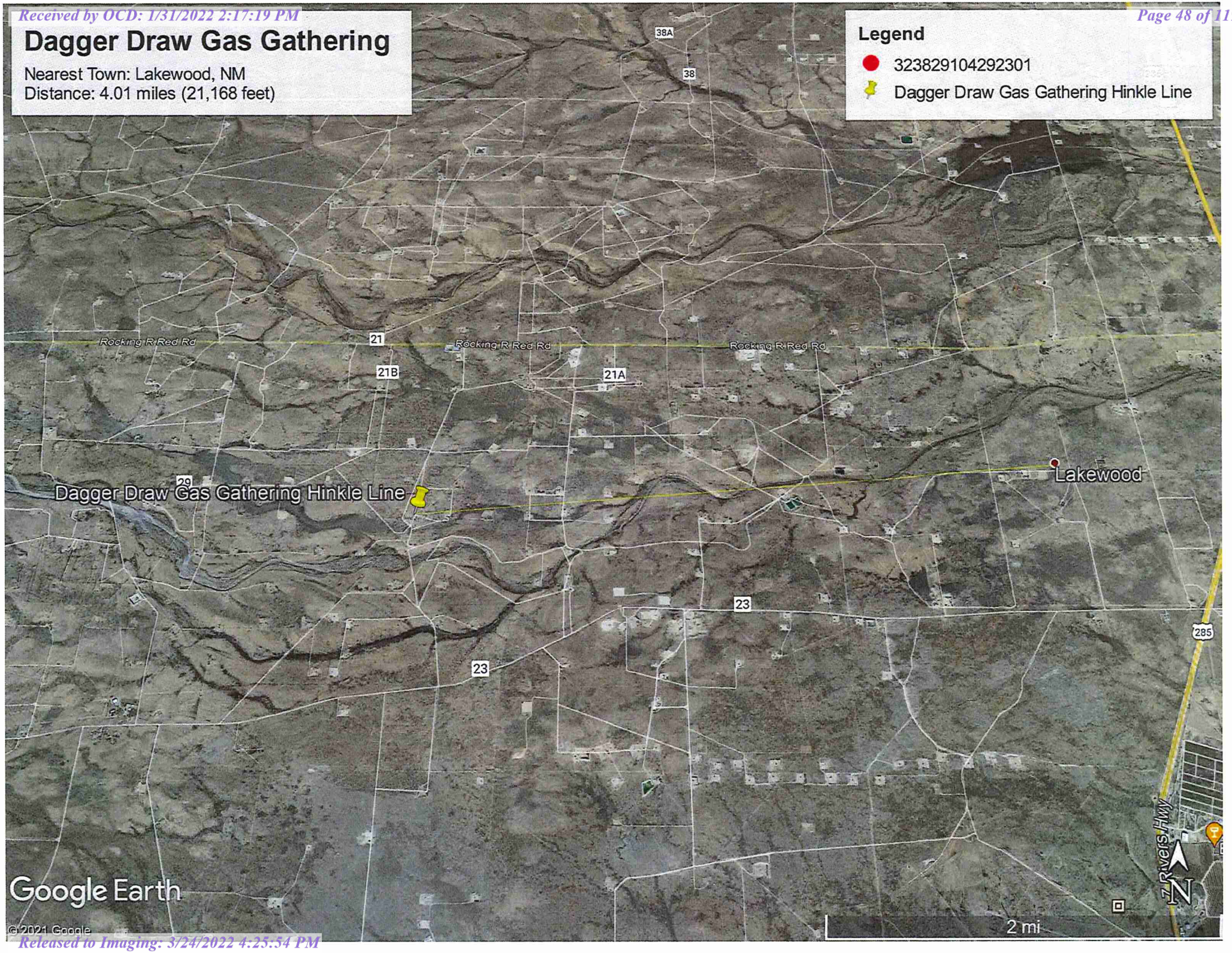
Water Bearing Stratifications:	Top	Bottom	Description
	90	100	Sandstone/Gravel/Conglomerate
	103	118	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	90	118

***UTM location was derived from PLSS - see Help**

Dagger Draw Gas Gathering

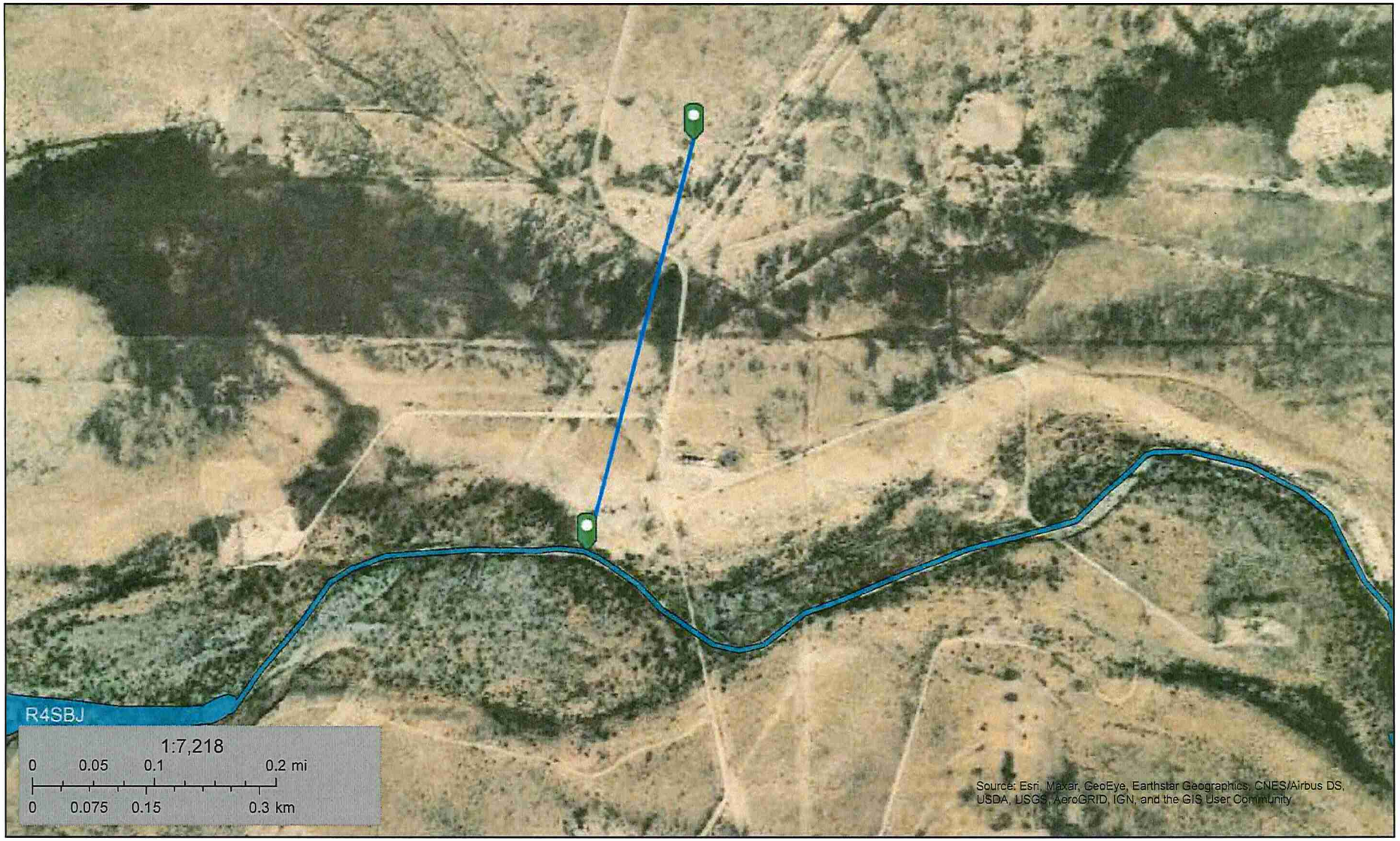
Nearest Town: Lakewood, NM
Distance: 4.01 miles (21,168 feet)



U.S. Fish and Wildlife Service

National Wetlands Inventory

Dagger Draw Gas Gathering



September 29, 2021

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

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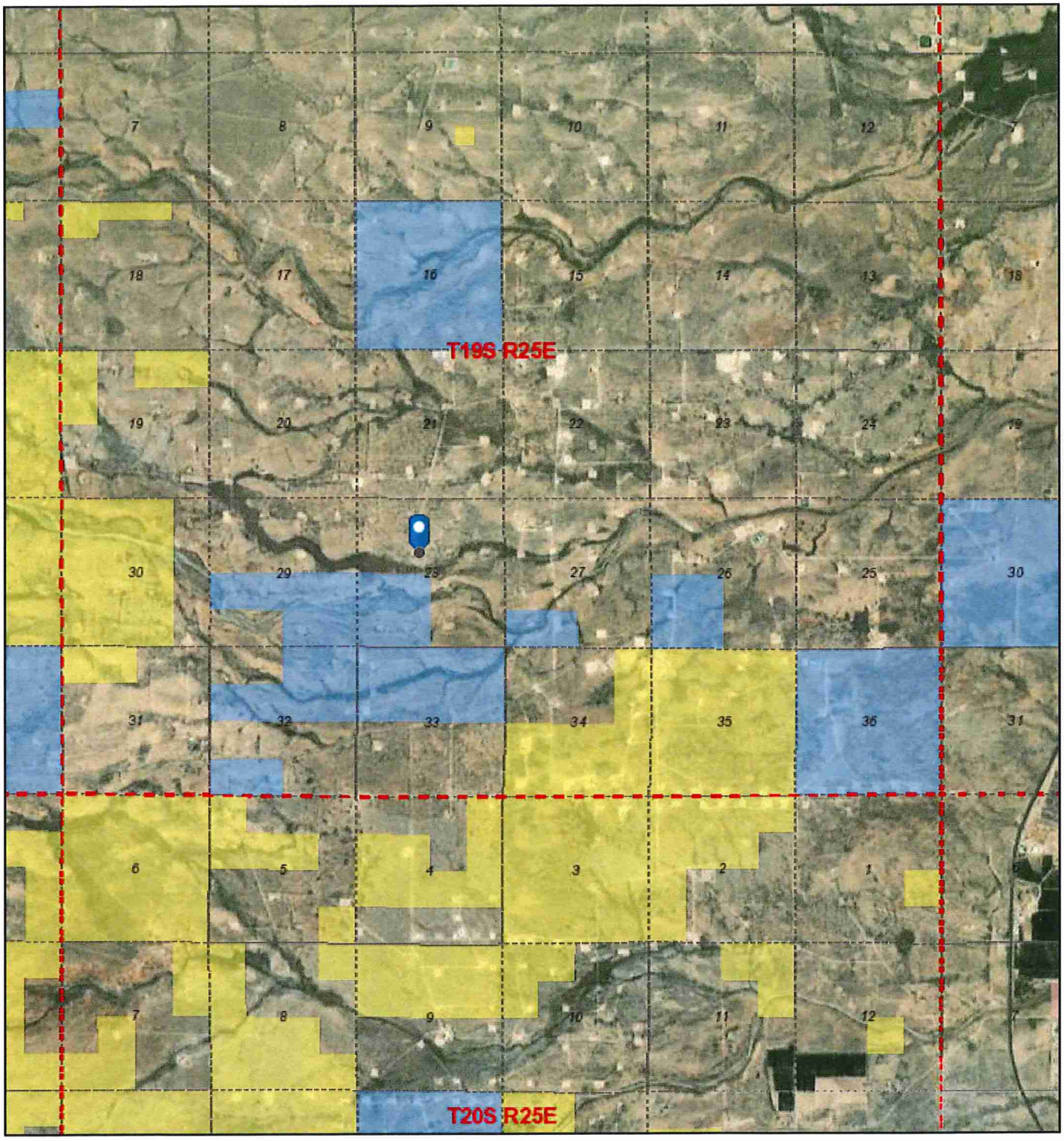
National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Dagger Draw Gas Gathering



9/29/2021, 10:16:29 AM

1:72,224

0 0.5 1 2 mi

0 0.75 1.5 3 km

Township / Range

Sections

Land Ownership

Bureau of Land Management

Bureau of Reclamation

Department of Agriculture

Department of Defense

Department of Energy

National Park Service

Private Land

State Game and Fish

State Land

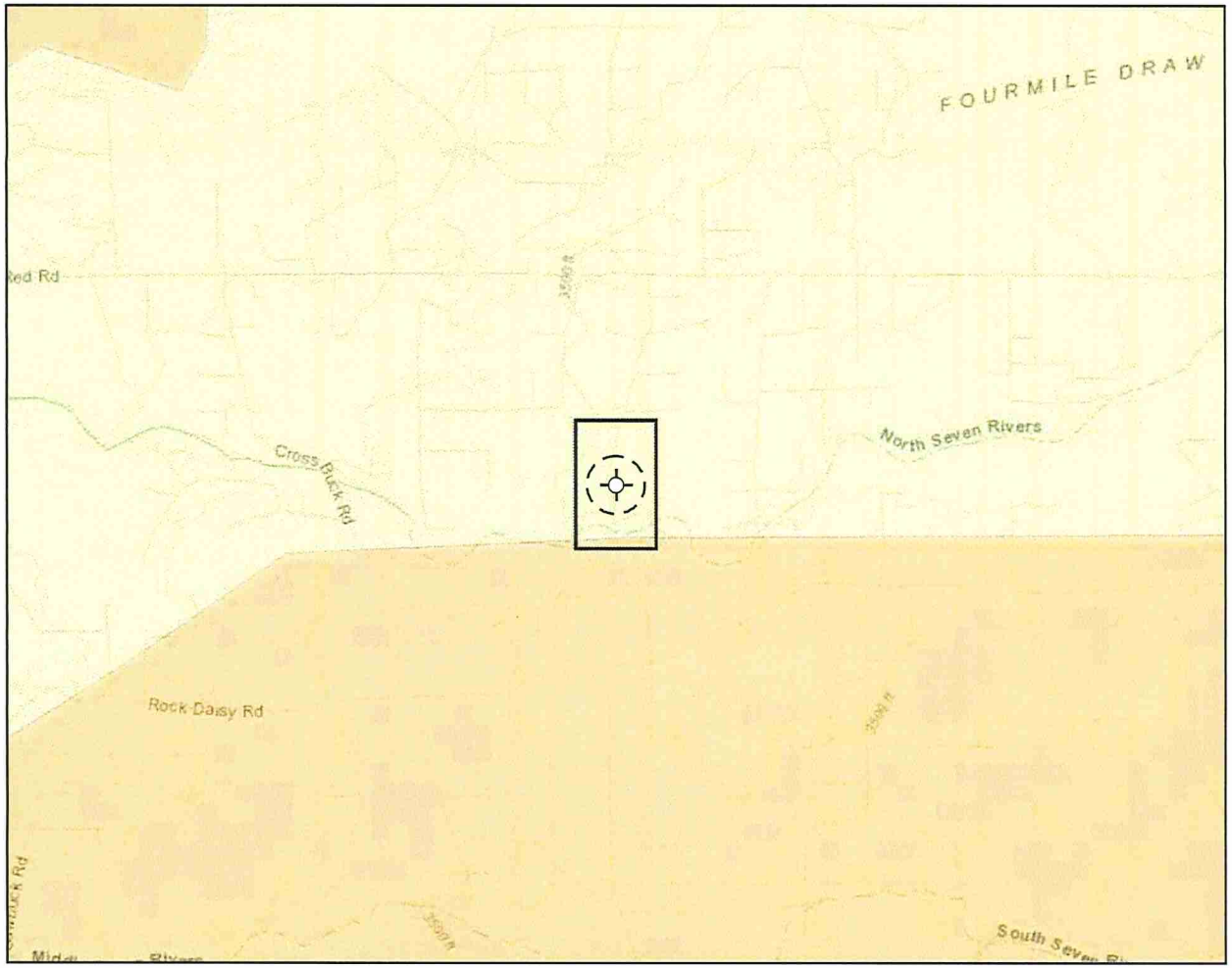
State Parks

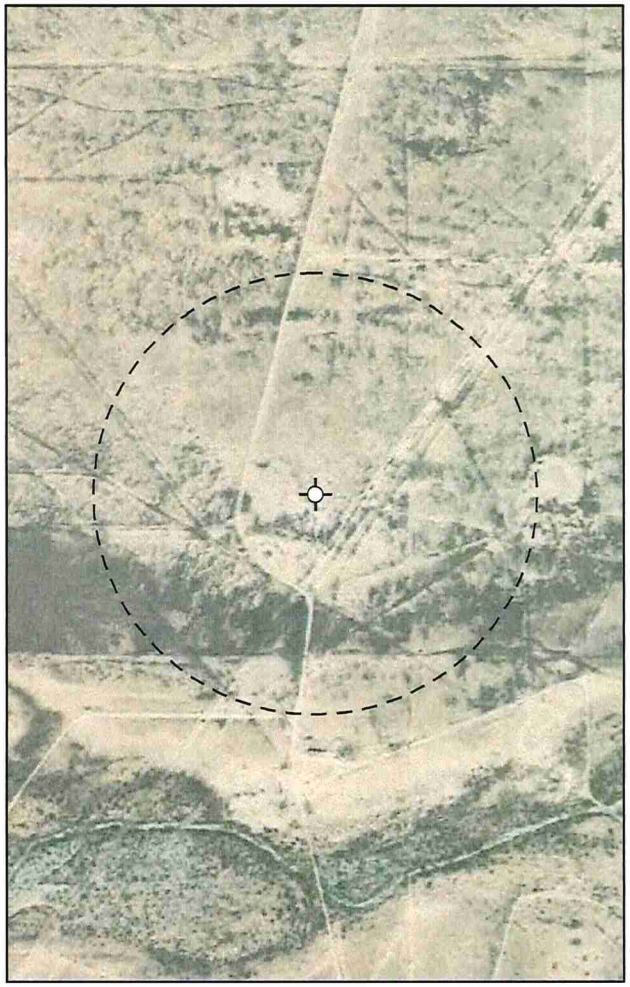
Tribal

Esri, HERE, Garmin, U.S. Bureau of Land Management - New Mexico State Office, Earthstar Geographics

EMNRD MMD GIS Coordinator

NM Energy, Minerals and Natural Resources Department (http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47790897ca2795)





Karst Potential

- Critical
- High
- Medium
- Low

Site Location

Site Buffer (1,000 ft.)

Overview Map

0 0.25 0.5 1 mi

Detail Map

0 150 300 600 ft.

VERTEX

Map Center:
Lat/Long: 32.633793, -104.491055

NAD 1983 UTM Zone 13N
Date: Oct 14/21

N

Karst Potential
Dagger Draw Gas Gathering System (Hinkle Line)

FIGURE:
X

eog resources

Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Inset Map, ESRI 20XX; Overview Map: ESRI World Topographic

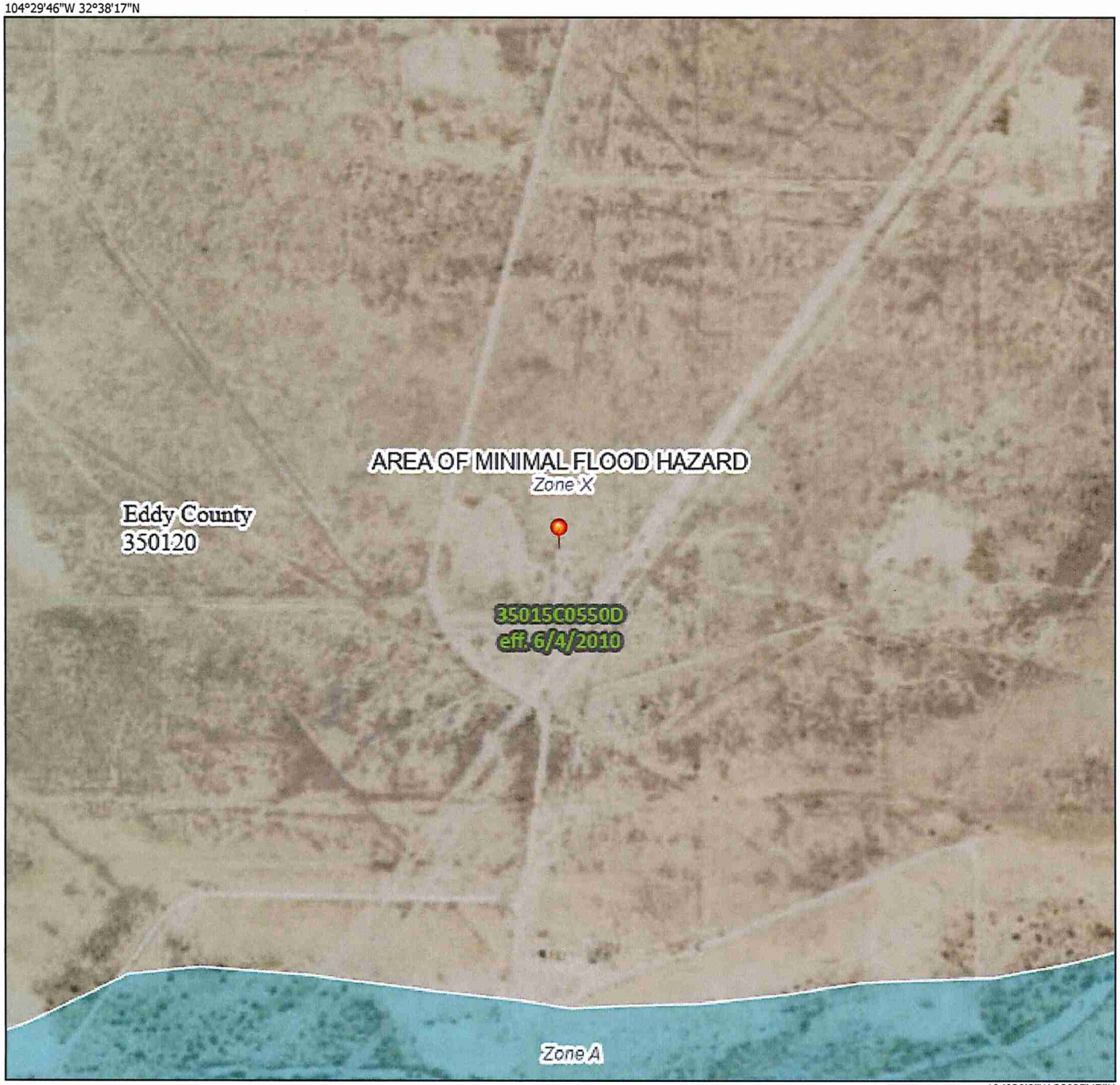
VERSATILITY. EXPERTISE.

Document Path: G:\1-Projects_US PROJECTS\EOG Resources Inc\21E-03278\005 - Dagger Draw Gas Gathering\Fig X Karst Potential Dagger Draw Gas Gathering.mxd

National Flood Hazard Layer FIRMette

FEMA

104°29'46"W 32°38'17"N



104°29'9"W 32°37'47"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

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

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

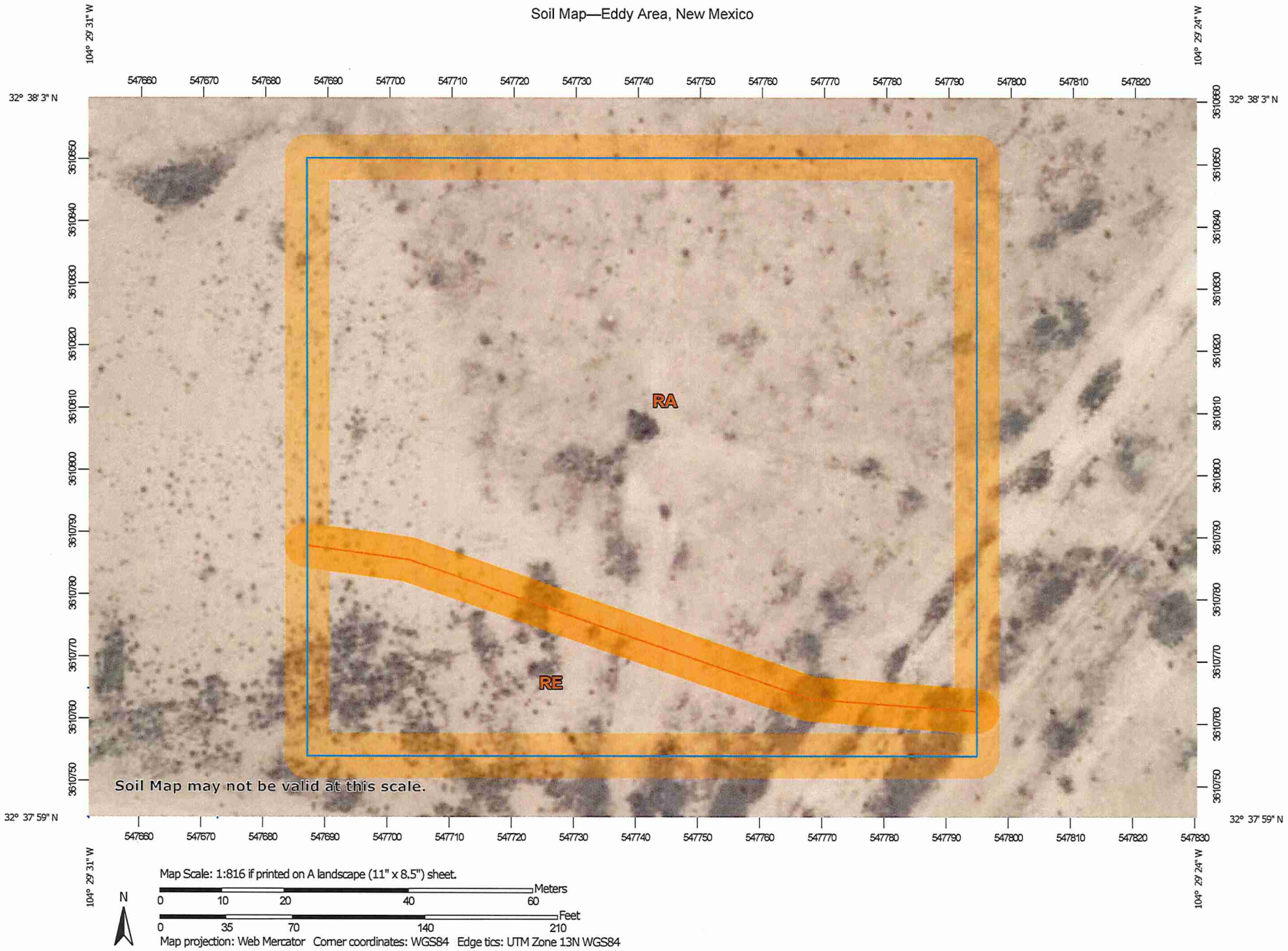
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/28/2021 at 5:37 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Soil Map—Eddy Area, New Mexico



Map Scale: 1:816 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 10 20 40 60

Feet
0 35 70 140 210

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84

USDA **Natural Resources Conservation Service**

Web Soil Survey
National Cooperative Soil Survey

9/28/2021
Page 1 of 3

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 16, Jun 8, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 27, 2020—Feb 28, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
RA	Reagan loam, 0 to 3 percent slopes	2.1	80.0%
RE	Reagan-Upton association, 0 to 9 percent slopes	0.5	20.0%
Totals for Area of Interest		**2.6**	**100.0%**

Eddy Area, New Mexico

RA—Reagan loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5c
Elevation: 1,100 to 4,400 feet
Mean annual precipitation: 7 to 14 inches
Mean annual air temperature: 60 to 70 degrees F
Frost-free period: 200 to 240 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Reagan and similar soils: 98 percent
Minor components: 2 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reagan

Setting

Landform: Alluvial fans, fan remnants
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Parent material: Alluvium and/or eolian deposits

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 60 inches: loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: B

Ecological site: R042XC007NM - Loamy
Hydric soil rating: No

Minor Components

Upton

Percent of map unit: 1 percent
Ecological site: R042XC025NM - Shallow
Hydric soil rating: No

Atoka

Percent of map unit: 1 percent
Ecological site: R042XC007NM - Loamy
Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 16, Jun 8, 2020

Eddy Area, New Mexico

RE—Reagan-Upton association, 0 to 9 percent slopes

Map Unit Setting

National map unit symbol: 1w5d
Elevation: 1,100 to 5,400 feet
Mean annual precipitation: 6 to 14 inches
Mean annual air temperature: 60 to 64 degrees F
Frost-free period: 180 to 240 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Reagan and similar soils: 70 percent
Upton and similar soils: 25 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reagan

Setting

Landform: Alluvial fans, fan remnants
Landform position (three-dimensional): Rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Parent material: Alluvium and/or eolian deposits

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 60 inches: loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: B
Ecological site: R070DY153NM - Loamy
Hydric soil rating: No

Description of Upton

Setting

Landform: Fans, ridges
Landform position (three-dimensional): Side slope, rise
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from limestone

Typical profile

H1 - 0 to 9 inches: gravelly loam
H2 - 9 to 13 inches: gravelly loam
H3 - 13 to 21 inches: cemented
H4 - 21 to 60 inches: very gravelly loam

Properties and qualities

Slope: 0 to 9 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 75 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R070DY159NM - Shallow Loamy
Hydric soil rating: No

Minor Components

Atoka

Percent of map unit: 3 percent
Ecological site: R042XC007NM - Loamy
Hydric soil rating: No

Pima

Percent of map unit: 2 percent
Ecological site: R042XC017NM - Bottomland

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 16, Jun 8, 2020

Ecological Reference Worksheet

Author(s) / participant(s): John Tunberg,

Contact for lead author : 505-761-4488 **Reference site used? Yes/No** No

Date: 2/12/2010 **MLRA:** 42.3 **Ecological Site:** Loamy This *must* be verified based on soils and climate (see Ecological Site Description). Current plant community *cannot* be used to identify the ecological site.

Indicators: For each indicator, describe the potential for the site. Where possible, **(1)** use numbers, **(2)** include expected range of values for above and below average years for **each** community within the reference state, when appropriate & **(3)** site data. Continue description on separate sheet.

1. Number and extent of rills There should not be any rills.

After wildfires, or abnormally high human or herbivore impacts or extended drought or combinations of these disturbances rills may double in number on steeper slopes at the margins of this site after high-intensity summer thunderstorms. Any rills formed should not be long lived or interconnected and should heal rapidly.

2. Presence of water flow patterns: There can be evidence of sheet flow.

There can be a few flow patterns that should be short and discontinuous. There can be some sheet flow. Water flow patterns should only be present following intense storm events on upper slope limits at the margins of this site. Numerous obstructions alter flow paths. Flow pattern length and numbers may double after wildfires, or abnormally high human or herbivore impacts or extended drought or combinations of these disturbances.

3. Number and height of erosional pedestals or terracettes: Pedestals should be rare. Terracettes can occure and should be discontinuous

There can be a few pedestals that should be less than 1 inch high. Terracettes can be common and should be discontinuous. If present plant or rock pedestals and terracettes are almost always in flow patterns. Wind caused pedestals are rare and only would be on the site following after wildfires, or abnormally high human or herbivore impacts or extended drought or combinations of these disturbances. These would show signs of healing within 1 year after event.

4. Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground) :

Bare ground can make up to 50% of the ground cover on this site according to the ESD. Bare patch size should be small.

5. Number of gullies and erosion associated with gullies:

Gullies and erosion associated with gullies should be rare are infrequent. Typically, gullies if present will only follow the micro topography. Natural drainages with little to no active cutting are common on this site. There should not be any accelerated erosion. After high-intensity summer thunderstorms or after wildfire, or abnormally high human or herbivore impacts or extended drought or combinations of these disturbances then gully formation would be accelerated for a year or two. Evidence of healing within 1 year of event and continuing after that.

6. Extent of wind scoured, blowouts and/or depositional area

There should not be any wind scoured, blowouts and/or depositional areas. However there can be potential for depositional areas. Wind erosion is minimal when the site is in a well vegetated condition. Significant wind erosion would only be present following high-intensity summer thunderstorms, after wildfire, or abnormally high human or herbivore impacts or extended drought or combinations of these disturbances. After rain events, exposed soil surfaces form physical crusts that tend to reduce wind erosion. Deposition from off site sources can be common on this site and is in fact a primary soil forming process. This site is succeptable to wind erosion when vegetation is removed or significantly decreased.

7. Amount of litter movement (describe size and distance expected to travel) :

Litter should be small (less than "1 in diameter) and its movement should be minimal. This site has adequate vegetation to stop litter movement after short distances. Most of the litter movement on this site will be litter that has been transported onto the site from adjacent sites. Litter produced on this site stays on the site and only travels short distances.

8. Soil surface (top few mm) resistance to erosion (stability) values are averages - most sites will show a range of values for both plant canopy and interspaces, if different) :

This site can be susceptible to alluvial erosion. Stability values are estimated to be 1-2 in interspaces and 3-5 at bases of vegetation. This would

9. Soil surface structures and SOM content (include type and strength of structure, and A-horizon color and thickness for both plant canopy and interspaces, if different) :

The SOM content should be less than 1%. A--0 to 6 inches; grayish brown (10YR 5/2) loam, dark grayish brown (10YR 4/2) moist; weak fine subangular blocky structure; hard, friable, slightly sticky; surface 1/2 to 2 inches has weak thin to medium platy structure; common very fine and fine pores; common very fine, fine and medium roots; strongly calcareous; slightly alkaline (pH 7.6); clear smooth boundary. (4 to 8 inches thick)

10. Effect of plant community composition (relative proportion of different functional groups) & spatial distribution on infiltration & runoff:

Overall, infiltration rates should be slow for this site but can be higher around bases of grasses than in interspaces and around bases of shrubs. The soils of this site are deep to moderately deep. The moderately deep soils have either a petrocalcic, petrogypsic or gypsum horizon between 30 and 40 inches. Surface textures are loam, silt loam, very fine sandy loam, or clay loam. Substratum textures are loam, silty clay loam, clay loam, or silt loams. Subsoil textures are silt loam , clay loam silty clay loam, gravelly loam, gravelly clay loam or very gravelly loam. Permeability is moderate to slow and the available water holding capacity is high to moderate.

11. Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction):

There should not be any compaction layers on this site. There are soil profile features in the top 9 inches of the soil profile that would be mistaken for a management induced soil compaction layer. Management induced compaction layers will be more difficult to penetrate than clay lenses.

12. Functional/Structural Groups (list in order of descending dominance by above-ground weight using symbols: indicate much greater than (>>) , greater than (>) , and equal to (=) :

black grama >> tobosa > C 4 bunch grasses (dropseeds) > C4 midgrasses (threeawns) >= soaptree yucca, ephedra, fourwing saltbush >= forbs (croton, desert marigold, globemallow, > broom snakeweed, prickly pear, = other forbs.

13. Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence) :

Black grama and bunchgrasses can show decadence in centers of plants.

14. Average percent litter cover (_____ %) and depth (_____ inches).

Average 15% cover and 0.75 inch deep. (As per ESD)

15. Expected annual production (this is <u>TOTAL</u> above-ground production, not just forage production):

(Low Production 650 lbs./ac.) (Average RV Production 925 lbs./ac.) (High Production 1200 lbs./ac.) After wildfires, high herbivore impacts, extended drought, or combinations of these disturbances, can cause production to be significantly reduced (100-200 lbs per ac. the first growing season following a wildfire) and recover slowly under below average precipitation regimes.

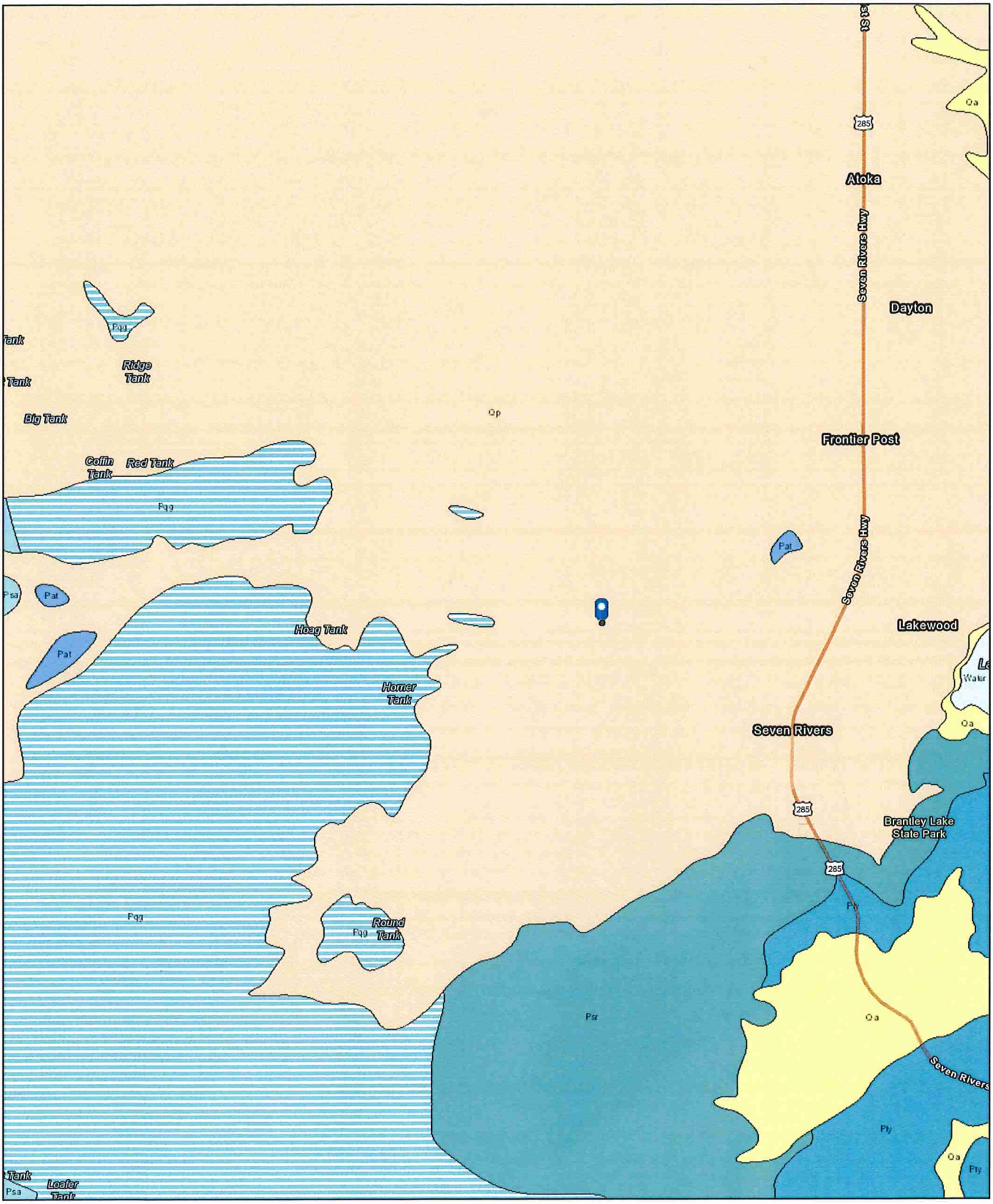
16. Potential invasive (including noxious) species (native and non-native). List species which characterize degraded states and which, after a threshold is crossed, "can, and often do , continue to increase regardless of the management of the site and may eventually dominate

Tarbush, creosote and mesquite can be invaders to this site. Invasive plants should not occur in reference plant community. However, lovegrass, Russian thistle, kochia, and other nonnative annuals may initialy invade following extended disturbance. Mesquite and tarbush and creosote and lovegrass are the greatest threat to dominate this site in the long term after disturbance (primarily following wildfire exclusion but also includes high human or herbivore impacts and extended drought). Mesquite and tarbush and creosote and lovegrass are most likely to retain dominance if allowed to alter natural fire regime (this alteration may require poor land management combined with years of wet winter-spring; dry summer-fall conditions). Any of these invaded communities represent a departure from the reference state.

17. Perennial plant reproductive capability :

Black grama reproduces by seed sporadically and reproduction by tiller and stolon can be common. The C4 midgrasses should have high reproductive potential and rapidly recover from drought in the absence of additional stresses (grazing).

Dagger Draw Gas Gathering



9/28/2021, 3:18:15 PM

Lithologic Contacts
- Contact, Exposed
- Contact, Gradational
- Nomenclature change
- Map Boundary

Faults
- Fault, Exposed
- Fault, Intermittent
- Fault, Concealed
- Shere Zone

Dikes
- <all other values>
- Dike
- Dike intruding fault
- Volcanic Vents

Surface Polys
- Si
- alteration
- alteration shear
- shear

GeologicLines
- Ash Layer
- Shoreline—Identity accurate
- Direction of movement of landslide

VCFaults
- Fault—Location accurate
- Fault—Location approximate
- Fault—Location concealed
- Normal Fault—Location accurate
- Normal Fault—Location approximate

1:144,448

0 1.25 2.5 5 mi

0 2.25 4.5 9 km

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, NMBGMR, Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

ArcGIS Web AppBuilder

Bureau of Land Management, Network Operations Center (NOC) | New Mexico Bureau of Geology & Mineral Resources, Bureau of Land Management | New Mexico Bureau of Geology and Mineral Resources | New

ATTACHMENT 5

Client Name: EOG Resources Inc.
Site Name: Dagger Draw Gas Gathering
NM OCD Tracking #: 2RP-823
Project #: 21E-03278-05
Lab Report(s): 2110085

Table 2. Initial Characterization Sample Field Screen and Laboratory Results - Depth to Groundwater <50 feet bgs

Sample Description			Field Screening			Petroleum Hydrocarbons											Inorganic
						Volatile							Extractable				
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Benzene	Toluene	Ethylbenzene	Xylenes (o&m)	Xylenes (p)	Xylenes (Total)	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(ppm)	(ppm)	(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)
BH21-01	0	9/30/2021	-	-	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-01	1	9/30/2021	-	-	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-01	2	9/30/2021	-	-	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-01	3	9/30/2021	-	-	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-01	4	9/30/2021	-	-	154	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-02	0	9/30/2021	-	-	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-02	1	9/30/2021	-	-	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-02	2	9/30/2021	-	-	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-02	3	9/30/2021	-	-	79	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-02	4	9/30/2021	-	-	282	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	69
BH21-03	0	9/30/2021	-	-	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-03	1	9/30/2021	-	-	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-03	2	9/30/2021	-	-	326	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	91
BH21-03	3	9/30/2021	-	-	493	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	170
BH21-03	4	9/30/2021	-	-	402	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	180
BH21-04	0	9/30/2021	-	-	57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-04	1	9/30/2021	-	-	80	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-04	2	9/30/2021	-	30	567	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	250
BH21-04	3	9/30/2021	-	36	909	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	430
BH21-04	4	9/30/2021	-	22	899	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	410
BH21-05	0	9/30/2021	-	-	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-05	1	9/30/2021	-	-	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-05	2	9/30/2021	-	-	193	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100
BH21-05	3	9/30/2021	-	-	284	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	140
BH21-05	4	9/30/2021	-	-	336	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	190

Client Name: EOG Resources, Inc.
Site Name: Dagger Draw Gas Gathering System (Hinkle Line)
NM OCD Tracking #: 2RP-823
Project #: 21E-03278-05
Lab Report:2110B23

Table 3. Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater <50 feet bgs

Sample Description			Field Screening			Petroleum Hydrocarbons									Inorganic
						Volatile					Extractable				
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BS21-01	0-4	10/21/2021	0	19	225	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS21-02	0-4	10/21/2021	0	15	160	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS21-01	0-4	10/21/2021	0	26	185	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS21-02	0-4	10/21/2021	0	31	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS21-03	0-4	10/21/2021	0	23	250	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS21-04	0-4	10/21/2021	0	12	275	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

VERTEX

ATTACHMENT 6

Monica Peppin

From: Chase Settle <Chase_Settle@eogresources.com>
Sent: Monday, October 18, 2021 5:55 PM
To: Monica Peppin
Subject: FW: Dagger Draw Gas Gathering System (Hinkle Lane) Sampling Notification

---

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Monday, October 18, 2021 5:43 PM
To: Robert.Hamlet@state.nm.us
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Chase Settle <Chase_Settle@eogresources.com>; Yvette Moore <Yvette_Moore@eogresources.com>; Ashley Bravo <Ashley_Bravo@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>
Subject: Dagger Draw Gas Gathering System (Hinkle Lane) Sampling Notification

Good afternoon,

EOG Resources, Inc. respectfully submits notification of sampling activities to be conducted at the below location.

Dagger Draw Gas Gathering System (Hinkle Line)
A-28-19S-25E
Eddy County, NM
2RP-823

Sampling will begin at 8:00 a.m. on Thursday, October 21, 2021.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com

eog resources
Artesia Division

ATTACHMENT 7

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

October 14, 2021

Dennis Williams
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX

RE: Dagger Draw Gas Gathering OrderNo.: 2110085

Dear Dennis Williams:

Hall Environmental Analysis Laboratory received 25 sample(s) on 10/2/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2110085**
Date Reported: **10/14/2021**

CLIENT: EOG
Project: Dagger Draw Gas Gathering
Lab ID: 2110085-001 **Matrix:** SOIL

Client Sample ID: BH21-01 0'
Collection Date: 9/30/2021 10:45:00 AM
Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	10/8/2021 2:12:55 AM	63135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	10/9/2021 4:46:11 PM	63110
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/9/2021 4:46:11 PM	63110
Surr: DNOP	46.5	70-130	S	%Rec	1	10/9/2021 4:46:11 PM	63110
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/8/2021 3:02:00 AM	63083
Surr: BFB	98.7	70-130		%Rec	1	10/8/2021 3:02:00 AM	63083
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.025		mg/Kg	1	10/8/2021 3:02:00 AM	63083
Toluene	ND	0.049		mg/Kg	1	10/8/2021 3:02:00 AM	63083
Ethylbenzene	ND	0.049		mg/Kg	1	10/8/2021 3:02:00 AM	63083
Xylenes, Total	ND	0.099		mg/Kg	1	10/8/2021 3:02:00 AM	63083
Surr: 4-Bromofluorobenzene	80.9	70-130		%Rec	1	10/8/2021 3:02:00 AM	63083

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Project: Dagger Draw Gas Gathering
Lab ID: 2110085-002 **Matrix:** SOIL

Client Sample ID: BH21-01 1'
Collection Date: 9/30/2021 10:50:00 AM
Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	10/8/2021 3:14:58 AM	63135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	10/9/2021 4:58:26 PM	63110
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/9/2021 4:58:26 PM	63110
Surr: DNOP	69.2	70-130	S	%Rec	1	10/9/2021 4:58:26 PM	63110
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/8/2021 3:21:00 AM	63083
Surr: BFB	99.6	70-130		%Rec	1	10/8/2021 3:21:00 AM	63083
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.025		mg/Kg	1	10/8/2021 3:21:00 AM	63083
Toluene	ND	0.049		mg/Kg	1	10/8/2021 3:21:00 AM	63083
Ethylbenzene	ND	0.049		mg/Kg	1	10/8/2021 3:21:00 AM	63083
Xylenes, Total	ND	0.099		mg/Kg	1	10/8/2021 3:21:00 AM	63083
Surr: 4-Bromofluorobenzene	92.2	70-130		%Rec	1	10/8/2021 3:21:00 AM	63083

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Project: Dagger Draw Gas Gathering
Lab ID: 2110085-003 **Matrix:** SOIL

Client Sample ID: BH21-01 2'
Collection Date: 9/30/2021 10:55:00 AM
Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	59		mg/Kg	20	10/8/2021 3:52:12 AM	63135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/9/2021 5:10:56 PM	63110
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/9/2021 5:10:56 PM	63110
Surr: DNOP	76.9	70-130		%Rec	1	10/9/2021 5:10:56 PM	63110
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/8/2021 3:41:00 AM	63083
Surr: BFB	96.7	70-130		%Rec	1	10/8/2021 3:41:00 AM	63083
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.025		mg/Kg	1	10/8/2021 3:41:00 AM	63083
Toluene	ND	0.050		mg/Kg	1	10/8/2021 3:41:00 AM	63083
Ethylbenzene	ND	0.050		mg/Kg	1	10/8/2021 3:41:00 AM	63083
Xylenes, Total	ND	0.10		mg/Kg	1	10/8/2021 3:41:00 AM	63083
Surr: 4-Bromofluorobenzene	91.2	70-130		%Rec	1	10/8/2021 3:41:00 AM	63083

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Project: Dagger Draw Gas Gathering
Lab ID: 2110085-004 **Matrix:** SOIL

Client Sample ID: BH21-01 3'
Collection Date: 9/30/2021 11:00:00 AM
Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	10/8/2021 4:04:37 AM	63135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/9/2021 5:23:31 PM	63110
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/9/2021 5:23:31 PM	63110
Surr: DNOP	55.2	70-130	S	%Rec	1	10/9/2021 5:23:31 PM	63110
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/8/2021 4:01:00 AM	63083
Surr: BFB	98.4	70-130		%Rec	1	10/8/2021 4:01:00 AM	63083
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.024		mg/Kg	1	10/8/2021 4:01:00 AM	63083
Toluene	ND	0.048		mg/Kg	1	10/8/2021 4:01:00 AM	63083
Ethylbenzene	ND	0.048		mg/Kg	1	10/8/2021 4:01:00 AM	63083
Xylenes, Total	ND	0.096		mg/Kg	1	10/8/2021 4:01:00 AM	63083
Surr: 4-Bromofluorobenzene	85.9	70-130		%Rec	1	10/8/2021 4:01:00 AM	63083

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Project: Dagger Draw Gas Gathering
Lab ID: 2110085-005 **Matrix:** SOIL

Client Sample ID: BH21-01 4'
Collection Date: 9/30/2021 11:05:00 AM
Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	61		mg/Kg	20	10/8/2021 4:17:01 AM	63135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/9/2021 5:35:56 PM	63110
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/9/2021 5:35:56 PM	63110
Surr: DNOP	77.1	70-130		%Rec	1	10/9/2021 5:35:56 PM	63110
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/8/2021 4:20:00 AM	63083
Surr: BFB	99.5	70-130		%Rec	1	10/8/2021 4:20:00 AM	63083
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.024		mg/Kg	1	10/8/2021 4:20:00 AM	63083
Toluene	ND	0.049		mg/Kg	1	10/8/2021 4:20:00 AM	63083
Ethylbenzene	ND	0.049		mg/Kg	1	10/8/2021 4:20:00 AM	63083
Xylenes, Total	ND	0.097		mg/Kg	1	10/8/2021 4:20:00 AM	63083
Surr: 4-Bromofluorobenzene	87.2	70-130		%Rec	1	10/8/2021 4:20:00 AM	63083

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Project: Dagger Draw Gas Gathering
Lab ID: 2110085-006 **Matrix:** SOIL

Client Sample ID: BH21-02 0'
Collection Date: 9/30/2021 11:15:00 AM
Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	10/8/2021 4:29:25 AM	63135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/8/2021 8:16:29 PM	63111
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/8/2021 8:16:29 PM	63111
Surr: DNOP	102	70-130		%Rec	1	10/8/2021 8:16:29 PM	63111
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/8/2021 12:48:14 PM	63094
Surr: BFB	97.0	70-130		%Rec	1	10/8/2021 12:48:14 PM	63094
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	10/8/2021 12:48:14 PM	63094
Toluene	ND	0.049		mg/Kg	1	10/8/2021 12:48:14 PM	63094
Ethylbenzene	ND	0.049		mg/Kg	1	10/8/2021 12:48:14 PM	63094
Xylenes, Total	ND	0.098		mg/Kg	1	10/8/2021 12:48:14 PM	63094
Surr: 4-Bromofluorobenzene	86.4	70-130		%Rec	1	10/8/2021 12:48:14 PM	63094

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Project: Dagger Draw Gas Gathering
Lab ID: 2110085-007 **Matrix:** SOIL

Client Sample ID: BH21-02 1'
Collection Date: 9/30/2021 11:20:00 AM
Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	10/8/2021 4:41:49 AM	63135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/8/2021 8:27:33 PM	63111
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/8/2021 8:27:33 PM	63111
Surr: DNOP	106	70-130		%Rec	1	10/8/2021 8:27:33 PM	63111
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/8/2021 1:59:02 PM	63094
Surr: BFB	93.6	70-130		%Rec	1	10/8/2021 1:59:02 PM	63094
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	10/8/2021 1:59:02 PM	63094
Toluene	ND	0.049		mg/Kg	1	10/8/2021 1:59:02 PM	63094
Ethylbenzene	ND	0.049		mg/Kg	1	10/8/2021 1:59:02 PM	63094
Xylenes, Total	ND	0.099		mg/Kg	1	10/8/2021 1:59:02 PM	63094
Surr: 4-Bromofluorobenzene	84.6	70-130		%Rec	1	10/8/2021 1:59:02 PM	63094

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Project: Dagger Draw Gas Gathering
Lab ID: 2110085-008 **Matrix:** SOIL

Client Sample ID: BH21-02 2'
Collection Date: 9/30/2021 11:25:00 AM
Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	10/8/2021 5:19:02 AM	63135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/8/2021 8:38:39 PM	63111
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/8/2021 8:38:39 PM	63111
Surr: DNOP	109	70-130		%Rec	1	10/8/2021 8:38:39 PM	63111
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/8/2021 3:09:48 PM	63094
Surr: BFB	93.3	70-130		%Rec	1	10/8/2021 3:09:48 PM	63094
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	10/8/2021 3:09:48 PM	63094
Toluene	ND	0.050		mg/Kg	1	10/8/2021 3:09:48 PM	63094
Ethylbenzene	ND	0.050		mg/Kg	1	10/8/2021 3:09:48 PM	63094
Xylenes, Total	ND	0.10		mg/Kg	1	10/8/2021 3:09:48 PM	63094
Surr: 4-Bromofluorobenzene	84.6	70-130		%Rec	1	10/8/2021 3:09:48 PM	63094

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Project: Dagger Draw Gas Gathering
Lab ID: 2110085-009 **Matrix:** SOIL

Client Sample ID: BH21-02 3'
Collection Date: 9/30/2021 11:30:00 AM
Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	10/8/2021 5:31:26 AM	63135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/8/2021 8:49:41 PM	63111
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/8/2021 8:49:41 PM	63111
Surr: DNOP	87.7	70-130		%Rec	1	10/8/2021 8:49:41 PM	63111
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/8/2021 3:33:17 PM	63094
Surr: BFB	93.9	70-130		%Rec	1	10/8/2021 3:33:17 PM	63094
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	10/8/2021 3:33:17 PM	63094
Toluene	ND	0.050		mg/Kg	1	10/8/2021 3:33:17 PM	63094
Ethylbenzene	ND	0.050		mg/Kg	1	10/8/2021 3:33:17 PM	63094
Xylenes, Total	ND	0.10		mg/Kg	1	10/8/2021 3:33:17 PM	63094
Surr: 4-Bromofluorobenzene	84.8	70-130		%Rec	1	10/8/2021 3:33:17 PM	63094

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Project: Dagger Draw Gas Gathering
Lab ID: 2110085-010 **Matrix:** SOIL

Client Sample ID: BH21-02 4'
Collection Date: 9/30/2021 11:35:00 AM
Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	69	60		mg/Kg	20	10/8/2021 5:43:51 AM	63135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/8/2021 9:00:45 PM	63111
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/8/2021 9:00:45 PM	63111
Surr: DNOP	93.8	70-130		%Rec	1	10/8/2021 9:00:45 PM	63111
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/8/2021 3:56:49 PM	63094
Surr: BFB	93.2	70-130		%Rec	1	10/8/2021 3:56:49 PM	63094
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/8/2021 3:56:49 PM	63094
Toluene	ND	0.049		mg/Kg	1	10/8/2021 3:56:49 PM	63094
Ethylbenzene	ND	0.049		mg/Kg	1	10/8/2021 3:56:49 PM	63094
Xylenes, Total	ND	0.097		mg/Kg	1	10/8/2021 3:56:49 PM	63094
Surr: 4-Bromofluorobenzene	83.9	70-130		%Rec	1	10/8/2021 3:56:49 PM	63094

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Project: Dagger Draw Gas Gathering
Lab ID: 2110085-011 **Matrix:** SOIL

Client Sample ID: BH21-03 0'
Collection Date: 9/30/2021 11:45:00 AM
Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	10/8/2021 5:56:16 AM	63135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/8/2021 9:11:46 PM	63111
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/8/2021 9:11:46 PM	63111
Surr: DNOP	89.4	70-130		%Rec	1	10/8/2021 9:11:46 PM	63111
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/8/2021 4:20:21 PM	63094
Surr: BFB	95.8	70-130		%Rec	1	10/8/2021 4:20:21 PM	63094
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/8/2021 4:20:21 PM	63094
Toluene	ND	0.049		mg/Kg	1	10/8/2021 4:20:21 PM	63094
Ethylbenzene	ND	0.049		mg/Kg	1	10/8/2021 4:20:21 PM	63094
Xylenes, Total	ND	0.097		mg/Kg	1	10/8/2021 4:20:21 PM	63094
Surr: 4-Bromofluorobenzene	86.3	70-130		%Rec	1	10/8/2021 4:20:21 PM	63094

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Project: Dagger Draw Gas Gathering
Lab ID: 2110085-012 **Matrix:** SOIL

Client Sample ID: BH21-03 1'
Collection Date: 9/30/2021 11:50:00 AM
Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	59		mg/Kg	20	10/8/2021 6:08:40 AM	63135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/8/2021 9:22:49 PM	63111
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/8/2021 9:22:49 PM	63111
Surr: DNOP	84.0	70-130		%Rec	1	10/8/2021 9:22:49 PM	63111
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/8/2021 4:43:48 PM	63094
Surr: BFB	96.4	70-130		%Rec	1	10/8/2021 4:43:48 PM	63094
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/8/2021 4:43:48 PM	63094
Toluene	ND	0.049		mg/Kg	1	10/8/2021 4:43:48 PM	63094
Ethylbenzene	ND	0.049		mg/Kg	1	10/8/2021 4:43:48 PM	63094
Xylenes, Total	ND	0.097		mg/Kg	1	10/8/2021 4:43:48 PM	63094
Surr: 4-Bromofluorobenzene	86.6	70-130		%Rec	1	10/8/2021 4:43:48 PM	63094

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Project: Dagger Draw Gas Gathering
Lab ID: 2110085-013 **Matrix:** SOIL

Client Sample ID: BH21-03 2'
Collection Date: 9/30/2021 11:55:00 AM
Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	91	60		mg/Kg	20	10/8/2021 6:21:04 AM	63135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/8/2021 9:33:47 PM	63111
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/8/2021 9:33:47 PM	63111
Surr: DNOP	82.7	70-130		%Rec	1	10/8/2021 9:33:47 PM	63111
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/8/2021 5:07:20 PM	63094
Surr: BFB	92.8	70-130		%Rec	1	10/8/2021 5:07:20 PM	63094
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/8/2021 5:07:20 PM	63094
Toluene	ND	0.049		mg/Kg	1	10/8/2021 5:07:20 PM	63094
Ethylbenzene	ND	0.049		mg/Kg	1	10/8/2021 5:07:20 PM	63094
Xylenes, Total	ND	0.097		mg/Kg	1	10/8/2021 5:07:20 PM	63094
Surr: 4-Bromofluorobenzene	83.0	70-130		%Rec	1	10/8/2021 5:07:20 PM	63094

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Project: Dagger Draw Gas Gathering
Lab ID: 2110085-014 **Matrix:** SOIL

Client Sample ID: BH21-03 3'
Collection Date: 9/30/2021 12:00:00 PM
Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	170	60		mg/Kg	20	10/8/2021 1:05:50 PM	63148
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	10/8/2021 9:44:46 PM	63111
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/8/2021 9:44:46 PM	63111
Surr: DNOP	94.2	70-130		%Rec	1	10/8/2021 9:44:46 PM	63111
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/8/2021 5:30:47 PM	63094
Surr: BFB	94.8	70-130		%Rec	1	10/8/2021 5:30:47 PM	63094
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	10/8/2021 5:30:47 PM	63094
Toluene	ND	0.050		mg/Kg	1	10/8/2021 5:30:47 PM	63094
Ethylbenzene	ND	0.050		mg/Kg	1	10/8/2021 5:30:47 PM	63094
Xylenes, Total	ND	0.099		mg/Kg	1	10/8/2021 5:30:47 PM	63094
Surr: 4-Bromofluorobenzene	84.8	70-130		%Rec	1	10/8/2021 5:30:47 PM	63094

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Project: Dagger Draw Gas Gathering
Lab ID: 2110085-015 **Matrix:** SOIL

Client Sample ID: BH21-03 4'
Collection Date: 9/30/2021 12:05:00 PM
Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	180	60		mg/Kg	20	10/8/2021 1:43:04 PM	63148
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/10/2021 3:10:23 AM	63112
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/10/2021 3:10:23 AM	63112
Surr: DNOP	89.1	70-130		%Rec	1	10/10/2021 3:10:23 AM	63112
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/8/2021 5:54:15 PM	63094
Surr: BFB	96.5	70-130		%Rec	1	10/8/2021 5:54:15 PM	63094
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/8/2021 5:54:15 PM	63094
Toluene	ND	0.049		mg/Kg	1	10/8/2021 5:54:15 PM	63094
Ethylbenzene	ND	0.049		mg/Kg	1	10/8/2021 5:54:15 PM	63094
Xylenes, Total	ND	0.097		mg/Kg	1	10/8/2021 5:54:15 PM	63094
Surr: 4-Bromofluorobenzene	87.1	70-130		%Rec	1	10/8/2021 5:54:15 PM	63094

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Project: Dagger Draw Gas Gathering
Lab ID: 2110085-016 **Matrix:** SOIL

Client Sample ID: BH21-04 0'
Collection Date: 9/30/2021 12:30:00 PM
Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	10/8/2021 2:45:07 PM	63148
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/10/2021 4:22:15 AM	63112
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/10/2021 4:22:15 AM	63112
Surr: DNOP	73.2	70-130		%Rec	1	10/10/2021 4:22:15 AM	63112
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/8/2021 7:28:31 PM	63094
Surr: BFB	93.1	70-130		%Rec	1	10/8/2021 7:28:31 PM	63094
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	10/8/2021 7:28:31 PM	63094
Toluene	ND	0.050		mg/Kg	1	10/8/2021 7:28:31 PM	63094
Ethylbenzene	ND	0.050		mg/Kg	1	10/8/2021 7:28:31 PM	63094
Xylenes, Total	ND	0.099		mg/Kg	1	10/8/2021 7:28:31 PM	63094
Surr: 4-Bromofluorobenzene	83.6	70-130		%Rec	1	10/8/2021 7:28:31 PM	63094

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Project: Dagger Draw Gas Gathering
Lab ID: 2110085-017 **Matrix:** SOIL

Client Sample ID: BH21-04 1'
Collection Date: 9/30/2021 12:35:00 PM
Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	61		mg/Kg	20	10/8/2021 2:57:32 PM	63148
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/10/2021 4:46:13 AM	63112
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/10/2021 4:46:13 AM	63112
Surr: DNOP	97.5	70-130		%Rec	1	10/10/2021 4:46:13 AM	63112
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/8/2021 7:52:20 PM	63094
Surr: BFB	92.4	70-130		%Rec	1	10/8/2021 7:52:20 PM	63094
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	10/8/2021 7:52:20 PM	63094
Toluene	ND	0.050		mg/Kg	1	10/8/2021 7:52:20 PM	63094
Ethylbenzene	ND	0.050		mg/Kg	1	10/8/2021 7:52:20 PM	63094
Xylenes, Total	ND	0.099		mg/Kg	1	10/8/2021 7:52:20 PM	63094
Surr: 4-Bromofluorobenzene	82.9	70-130		%Rec	1	10/8/2021 7:52:20 PM	63094

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Project: Dagger Draw Gas Gathering
Lab ID: 2110085-018 **Matrix:** SOIL

Client Sample ID: BH21-04 2'
Collection Date: 9/30/2021 12:40:00 PM
Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	250	60		mg/Kg	20	10/8/2021 3:09:57 PM	63148
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/10/2021 5:34:03 AM	63112
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/10/2021 5:34:03 AM	63112
Surr: DNOP	67.6	70-130	S	%Rec	1	10/10/2021 5:34:03 AM	63112
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/8/2021 8:15:45 PM	63094
Surr: BFB	94.5	70-130		%Rec	1	10/8/2021 8:15:45 PM	63094
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/8/2021 8:15:45 PM	63094
Toluene	ND	0.048		mg/Kg	1	10/8/2021 8:15:45 PM	63094
Ethylbenzene	ND	0.048		mg/Kg	1	10/8/2021 8:15:45 PM	63094
Xylenes, Total	ND	0.096		mg/Kg	1	10/8/2021 8:15:45 PM	63094
Surr: 4-Bromofluorobenzene	85.2	70-130		%Rec	1	10/8/2021 8:15:45 PM	63094

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Project: Dagger Draw Gas Gathering
Lab ID: 2110085-019 **Matrix:** SOIL

Client Sample ID: BH21-04 3'
Collection Date: 9/30/2021 12:45:00 PM
Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	430	61		mg/Kg	20	10/8/2021 3:22:21 PM	63148
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/10/2021 5:57:56 AM	63112
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/10/2021 5:57:56 AM	63112
Surr: DNOP	79.2	70-130		%Rec	1	10/10/2021 5:57:56 AM	63112
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/8/2021 8:39:08 PM	63094
Surr: BFB	95.4	70-130		%Rec	1	10/8/2021 8:39:08 PM	63094
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	10/8/2021 8:39:08 PM	63094
Toluene	ND	0.050		mg/Kg	1	10/8/2021 8:39:08 PM	63094
Ethylbenzene	ND	0.050		mg/Kg	1	10/8/2021 8:39:08 PM	63094
Xylenes, Total	ND	0.10		mg/Kg	1	10/8/2021 8:39:08 PM	63094
Surr: 4-Bromofluorobenzene	85.7	70-130		%Rec	1	10/8/2021 8:39:08 PM	63094

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Project: Dagger Draw Gas Gathering
Lab ID: 2110085-020 **Matrix:** SOIL

Client Sample ID: BH21-04 4'
Collection Date: 9/30/2021 12:50:00 PM
Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	410	60		mg/Kg	20	10/8/2021 3:34:46 PM	63148
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/10/2021 6:21:48 AM	63112
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/10/2021 6:21:48 AM	63112
Surr: DNOP	84.8	70-130		%Rec	1	10/10/2021 6:21:48 AM	63112
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/8/2021 9:02:36 PM	63094
Surr: BFB	96.3	70-130		%Rec	1	10/8/2021 9:02:36 PM	63094
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/8/2021 9:02:36 PM	63094
Toluene	ND	0.049		mg/Kg	1	10/8/2021 9:02:36 PM	63094
Ethylbenzene	ND	0.049		mg/Kg	1	10/8/2021 9:02:36 PM	63094
Xylenes, Total	ND	0.097		mg/Kg	1	10/8/2021 9:02:36 PM	63094
Surr: 4-Bromofluorobenzene	86.6	70-130		%Rec	1	10/8/2021 9:02:36 PM	63094

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Project: Dagger Draw Gas Gathering
Lab ID: 2110085-021 **Matrix:** SOIL

Client Sample ID: BH21-05 0'
Collection Date: 9/30/2021 1:15:00 PM
Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	10/8/2021 3:47:11 PM	63148
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/10/2021 6:45:36 AM	63112
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/10/2021 6:45:36 AM	63112
Surr: DNOP	91.9	70-130		%Rec	1	10/10/2021 6:45:36 AM	63112
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/8/2021 9:26:04 PM	63094
Surr: BFB	96.7	70-130		%Rec	1	10/8/2021 9:26:04 PM	63094
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	10/8/2021 9:26:04 PM	63094
Toluene	ND	0.049		mg/Kg	1	10/8/2021 9:26:04 PM	63094
Ethylbenzene	ND	0.049		mg/Kg	1	10/8/2021 9:26:04 PM	63094
Xylenes, Total	ND	0.098		mg/Kg	1	10/8/2021 9:26:04 PM	63094
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	10/8/2021 9:26:04 PM	63094

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Project: Dagger Draw Gas Gathering
Lab ID: 2110085-022 **Matrix:** SOIL

Client Sample ID: BH21-05 1'
Collection Date: 9/30/2021 1:20:00 PM
Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	10/8/2021 3:59:36 PM	63148
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/10/2021 7:09:08 AM	63112
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/10/2021 7:09:08 AM	63112
Surr: DNOP	68.1	70-130	S	%Rec	1	10/10/2021 7:09:08 AM	63112
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/8/2021 9:49:35 PM	63094
Surr: BFB	93.9	70-130		%Rec	1	10/8/2021 9:49:35 PM	63094
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/8/2021 9:49:35 PM	63094
Toluene	ND	0.048		mg/Kg	1	10/8/2021 9:49:35 PM	63094
Ethylbenzene	ND	0.048		mg/Kg	1	10/8/2021 9:49:35 PM	63094
Xylenes, Total	ND	0.097		mg/Kg	1	10/8/2021 9:49:35 PM	63094
Surr: 4-Bromofluorobenzene	83.4	70-130		%Rec	1	10/8/2021 9:49:35 PM	63094

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Project: Dagger Draw Gas Gathering
Lab ID: 2110085-023 **Matrix:** SOIL

Client Sample ID: BH21-05 2'
Collection Date: 9/30/2021 1:25:00 PM
Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	100	60		mg/Kg	20	10/8/2021 4:12:01 PM	63148
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/10/2021 7:32:34 AM	63112
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/10/2021 7:32:34 AM	63112
Surr: DNOP	35.7	70-130	S	%Rec	1	10/10/2021 7:32:34 AM	63112
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/8/2021 10:13:07 PM	63094
Surr: BFB	94.7	70-130		%Rec	1	10/8/2021 10:13:07 PM	63094
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/8/2021 10:13:07 PM	63094
Toluene	ND	0.048		mg/Kg	1	10/8/2021 10:13:07 PM	63094
Ethylbenzene	ND	0.048		mg/Kg	1	10/8/2021 10:13:07 PM	63094
Xylenes, Total	ND	0.095		mg/Kg	1	10/8/2021 10:13:07 PM	63094
Surr: 4-Bromofluorobenzene	85.3	70-130		%Rec	1	10/8/2021 10:13:07 PM	63094

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Project: Dagger Draw Gas Gathering
Lab ID: 2110085-024 **Matrix:** SOIL

Client Sample ID: BH21-05 3'
Collection Date: 9/30/2021 1:30:00 PM
Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	140	60		mg/Kg	20	10/8/2021 4:24:26 PM	63148
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/10/2021 7:56:05 AM	63112
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/10/2021 7:56:05 AM	63112
Surr: DNOP	73.4	70-130		%Rec	1	10/10/2021 7:56:05 AM	63112
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/8/2021 10:36:36 PM	63094
Surr: BFB	95.0	70-130		%Rec	1	10/8/2021 10:36:36 PM	63094
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	10/8/2021 10:36:36 PM	63094
Toluene	ND	0.050		mg/Kg	1	10/8/2021 10:36:36 PM	63094
Ethylbenzene	ND	0.050		mg/Kg	1	10/8/2021 10:36:36 PM	63094
Xylenes, Total	ND	0.10		mg/Kg	1	10/8/2021 10:36:36 PM	63094
Surr: 4-Bromofluorobenzene	85.1	70-130		%Rec	1	10/8/2021 10:36:36 PM	63094

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Project: Dagger Draw Gas Gathering
Lab ID: 2110085-025 **Matrix:** SOIL

Client Sample ID: BH21-05 4'
Collection Date: 9/30/2021 1:35:00 PM
Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	190	60		mg/Kg	20	10/8/2021 4:36:51 PM	63148
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/10/2021 8:19:39 AM	63112
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/10/2021 8:19:39 AM	63112
Surr: DNOP	54.2	70-130	S	%Rec	1	10/10/2021 8:19:39 AM	63112
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/8/2021 11:00:11 PM	63094
Surr: BFB	95.4	70-130		%Rec	1	10/8/2021 11:00:11 PM	63094
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	10/8/2021 11:00:11 PM	63094
Toluene	ND	0.050		mg/Kg	1	10/8/2021 11:00:11 PM	63094
Ethylbenzene	ND	0.050		mg/Kg	1	10/8/2021 11:00:11 PM	63094
Xylenes, Total	ND	0.099		mg/Kg	1	10/8/2021 11:00:11 PM	63094
Surr: 4-Bromofluorobenzene	84.8	70-130		%Rec	1	10/8/2021 11:00:11 PM	63094

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2110085**

14-Oct-21

Client: EOG

Project: Dagger Draw Gas Gathering

Sample ID: **MB-63135**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **63135**	RunNo: **81887**							
Prep Date: **10/7/2021**	Analysis Date: **10/8/2021**	SeqNo: **2897391**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-63135**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **63135**	RunNo: **81887**							
Prep Date: **10/7/2021**	Analysis Date: **10/8/2021**	SeqNo: **2897392**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.9	90	110			

Sample ID: **MB-63148**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **63148**	RunNo: **81903**							
Prep Date: **10/8/2021**	Analysis Date: **10/8/2021**	SeqNo: **2898871**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-63148**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **63148**	RunNo: **81903**							
Prep Date: **10/8/2021**	Analysis Date: **10/8/2021**	SeqNo: **2898872**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.3	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2110085**

14-Oct-21

Client: EOG

Project: Dagger Draw Gas Gathering

Sample ID: **LCS-63111**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **63111**	RunNo: **81901**
Prep Date: **10/7/2021**	Analysis Date: **10/8/2021**	SeqNo: **2898601** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.6	68.9	135			
Surr: DNOP	4.8		5.000		96.7	70	130			

Sample ID: **MB-63111**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **63111**	RunNo: **81901**
Prep Date: **10/7/2021**	Analysis Date: **10/8/2021**	SeqNo: **2898602** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.3	70	130			

Sample ID: **MB-63110**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **63110**	RunNo: **81929**
Prep Date: **10/7/2021**	Analysis Date: **10/9/2021**	SeqNo: **2899835** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		93.2	70	130			

Sample ID: **LCS-63110**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **63110**	RunNo: **81929**
Prep Date: **10/7/2021**	Analysis Date: **10/9/2021**	SeqNo: **2899838** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.7	68.9	135			
Surr: DNOP	4.5		5.000		89.6	70	130			

Sample ID: **MB-63112**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **63112**	RunNo: **81862**
Prep Date: **10/7/2021**	Analysis Date: **10/10/2021**	SeqNo: **2900902** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		96.3	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2110085**

14-Oct-21

Client: EOG

Project: Dagger Draw Gas Gathering

Sample ID: **LCS-63112** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **63112** RunNo: **81862**

Prep Date: **10/7/2021** Analysis Date: **10/10/2021** SeqNo: **2900903** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.5	68.9	135			
Surr: DNOP	4.9		5.000		97.5	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2110085**

14-Oct-21

Client: EOG

Project: Dagger Draw Gas Gathering

Sample ID: **mb-63083**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **63083**	RunNo: **81857**
Prep Date: **10/6/2021**	Analysis Date: **10/7/2021**	SeqNo: **2897279** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	70	130			

Sample ID: **lcs-63083**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **63083**	RunNo: **81857**
Prep Date: **10/6/2021**	Analysis Date: **10/7/2021**	SeqNo: **2897281** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	117	78.6	131			
Surr: BFB	1100		1000		112	70	130			

Sample ID: **mb-63094**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **63094**	RunNo: **81923**
Prep Date: **10/6/2021**	Analysis Date: **10/8/2021**	SeqNo: **2899189** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		96.7	70	130			

Sample ID: **lcs-63094**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **63094**	RunNo: **81923**
Prep Date: **10/6/2021**	Analysis Date: **10/8/2021**	SeqNo: **2899190** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	78.6	131			
Surr: BFB	1000		1000		105	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2110085**

14-Oct-21

Client: EOG

Project: Dagger Draw Gas Gathering

Sample ID: **mb-63083**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **63083**	RunNo: **81857**
Prep Date: **10/6/2021**	Analysis Date: **10/7/2021**	SeqNo: **2897316** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.88		1.000		88.4	70	130			

Sample ID: **lcs-63083**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **63083**	RunNo: **81857**
Prep Date: **10/6/2021**	Analysis Date: **10/7/2021**	SeqNo: **2897330** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.3	80	120			
Toluene	0.99	0.050	1.000	0	98.9	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.0	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.8	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		91.6	70	130			

Sample ID: **mb-63094**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **63094**	RunNo: **81923**
Prep Date: **10/6/2021**	Analysis Date: **10/8/2021**	SeqNo: **2899406** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.87		1.000		87.3	70	130			

Sample ID: **LCS-63094**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **63094**	RunNo: **81923**
Prep Date: **10/6/2021**	Analysis Date: **10/8/2021**	SeqNo: **2899407** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.3	80	120			
Toluene	0.94	0.050	1.000	0	94.2	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.7	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.2	80	120			
Surr: 4-Bromofluorobenzene	0.86		1.000		86.1	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2110085 | RcptNo: 1

Received By: Sean Livingston 10/2/2021 9:15:00 AM
Completed By: Sean Livingston 10/2/2021 10:14:41 AM
Reviewed By: DAD 10-2-21

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: Sn 10/2/21

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.8	Good				
2	3.0	Good				
3	1.3	Good				
4	5.3	Good				

Chain-of-Custody Record

Client: EOG

Chase Settle

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 5 Day
☑ Standard ☐ Rush

Project Name: Dagger Draw Gas Gathering

Project #: 21E-03278

Project Manager: Dennis Williams

Sampler: MJP

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): See remarks (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2110085	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
9/30	10:45	Soil	BH21-01 0'	402	ice	001	✓	✓					✓			
	10:50		BH21-01 1'			002										
	10:55		BH21-01 2'			003										
	11:00		BH21-01 3'			004										
	11:05		BH21-01 4'			005										
	11:15		BH21-02 0'			006										
	11:20		BH21-02 1'			007										
	11:25		BH21-02 2'			008										
	11:30		BH21-02 3'			009										
	11:35		BH21-02 4'			010										
	11:45		BH21-03 0'			011										
	11:50		BH21-03 1'			012										

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
10/1/21	730				10/1/21	730
10/1/21	1900		See courier		10/2/21	9:15

Remarks: CC: M Peppin
Direct Bill EOG

2.8±0=2.8°C
3.0±0=3.0°C
1.3±0=1.3°C
5.3±0=5.3°C

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: EOG

Chase Settle

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 5 Day
☑ Standard ☐ Rush

Project Name: Dagger Draw Gas Gathering

Project #: 21E-03278

Project Manager: Dennis Williams

Sampler: MJP

On Ice: ☑ Yes ☐ No

# of Coolers: 4

Cooler Temp(including CF): see remarks (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
9/30	11:55	Soil	BH21-03 2	4oz	ice	013	✓	✓					✓			
	12:00		BH21-03 3			014										
	12:05		BH21-03 4			015										
	12:30		BH21-04 0			016										
	12:35		BH21-04 1			017										
	12:40		BH21-04 2			018										
	12:45		BH21-04 3			019										
	12:50		BH21-04 4			020										
	1:15		BH21-05 0			021										
	1:20		BH21-05 1			022										
	1:25		BH21-05 2			023										
	1:30		BH21-05 3			024										

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
10/1/21	730				10/1/21	730
10/1/21	1900		SGL courier		10/2/21	9:15

Remarks: CC: M. Peppin

2.8 ± 0.2 °C
3.0 ± 0.3 °C
1.3 ± 0.3 °C
5.3 ± 0.3 °C

Direct Bill EOG

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: EOG
Chase Settle
Mailing Address:

Phone #:
email or Fax#:
QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time: 5 Day
☑ Standard ☐ Rush
Project Name: Dagger Draw Gas Gathering
Project #: 21E-03278
Project Manager: Dennis Williams
Sampler: MJP
On Ice: ☑ Yes ☐ No
# of Coolers: 4
Cooler Temp(including CF): See remarks (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
9/30	1:35	Soil	BH21-05 4	4oz	ice	025	✓	✓					✓			

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date Time
9/1/21	730				
10/1/21	1900		SK	courier	10/2/21 9:15

Received by: Via: Date Time
10/1/21 730

Remarks: CC: M. Peppin
Direct Bill EOG

2.8±0=2.8°C
3.0±0=3.0°C
1.3±0=1.3°C
5.3±0=5.3°C

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

November 02, 2021

Chase Settle
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX

RE: Dagger Draw Gas Gathering Hinkle Line OrderNo.: 2110B23

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 6 sample(s) on 10/23/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2110B23**
Date Reported: **11/2/2021**

CLIENT: EOG
Client Sample ID: WS21-01 0-4
Project: Dagger Draw Gas Gathering Hinkle Line
Collection Date: 10/21/2021 8:00:00 AM
Lab ID: 2110B23-001 **Matrix:** SOIL
Received Date: 10/23/2021 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	10/29/2021 1:45:59 PM	63648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	10/29/2021 4:59:31 PM	63614
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	10/29/2021 4:59:31 PM	63614
Surr: DNOP	87.0	70-130		%Rec	1	10/29/2021 4:59:31 PM	63614
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/29/2021 9:28:00 AM	63577
Surr: BFB	107	70-130		%Rec	1	10/29/2021 9:28:00 AM	63577
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.023		mg/Kg	1	10/29/2021 9:28:00 AM	63577
Toluene	ND	0.046		mg/Kg	1	10/29/2021 9:28:00 AM	63577
Ethylbenzene	ND	0.046		mg/Kg	1	10/29/2021 9:28:00 AM	63577
Xylenes, Total	ND	0.091		mg/Kg	1	10/29/2021 9:28:00 AM	63577
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	10/29/2021 9:28:00 AM	63577

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: WS21-02 0-4
Project: Dagger Draw Gas Gathering Hinkle Line
Collection Date: 10/21/2021 8:20:00 AM
Lab ID: 2110B23-002 **Matrix:** SOIL
Received Date: 10/23/2021 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	10/29/2021 2:48:02 PM	63648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/29/2021 5:10:30 PM	63614
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/29/2021 5:10:30 PM	63614
Surr: DNOP	102	70-130		%Rec	1	10/29/2021 5:10:30 PM	63614
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/29/2021 9:48:00 AM	63577
Surr: BFB	103	70-130		%Rec	1	10/29/2021 9:48:00 AM	63577
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.023		mg/Kg	1	10/29/2021 9:48:00 AM	63577
Toluene	ND	0.047		mg/Kg	1	10/29/2021 9:48:00 AM	63577
Ethylbenzene	ND	0.047		mg/Kg	1	10/29/2021 9:48:00 AM	63577
Xylenes, Total	ND	0.094		mg/Kg	1	10/29/2021 9:48:00 AM	63577
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	10/29/2021 9:48:00 AM	63577

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Project: Dagger Draw Gas Gathering Hinkle Line
Lab ID: 2110B23-003 **Matrix:** SOIL

Client Sample ID: WS21-03 0-4
Collection Date: 10/21/2021 8:40:00 AM
Received Date: 10/23/2021 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	10/29/2021 3:00:27 PM	63648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/29/2021 5:21:28 PM	63614
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/29/2021 5:21:28 PM	63614
Surr: DNOP	94.6	70-130		%Rec	1	10/29/2021 5:21:28 PM	63614
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/29/2021 10:08:00 AM	63577
Surr: BFB	104	70-130		%Rec	1	10/29/2021 10:08:00 AM	63577
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.023		mg/Kg	1	10/29/2021 10:08:00 AM	63577
Toluene	ND	0.047		mg/Kg	1	10/29/2021 10:08:00 AM	63577
Ethylbenzene	ND	0.047		mg/Kg	1	10/29/2021 10:08:00 AM	63577
Xylenes, Total	ND	0.093		mg/Kg	1	10/29/2021 10:08:00 AM	63577
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	10/29/2021 10:08:00 AM	63577

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2110B23**
Date Reported: **11/2/2021**

CLIENT: EOG
Project: Dagger Draw Gas Gathering Hinkle Line
Lab ID: 2110B23-004 **Matrix:** SOIL

Client Sample ID: WS21-04 0-4
Collection Date: 10/21/2021 9:00:00 AM
Received Date: 10/23/2021 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	10/29/2021 3:12:51 PM	63648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/29/2021 5:32:29 PM	63614
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/29/2021 5:32:29 PM	63614
Surr: DNOP	108	70-130		%Rec	1	10/29/2021 5:32:29 PM	63614
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/29/2021 10:28:00 AM	63577
Surr: BFB	97.2	70-130		%Rec	1	10/29/2021 10:28:00 AM	63577
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	10/29/2021 10:28:00 AM	63577
Toluene	ND	0.047		mg/Kg	1	10/29/2021 10:28:00 AM	63577
Ethylbenzene	ND	0.047		mg/Kg	1	10/29/2021 10:28:00 AM	63577
Xylenes, Total	ND	0.094		mg/Kg	1	10/29/2021 10:28:00 AM	63577
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	10/29/2021 10:28:00 AM	63577

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: BS21-01 0-4
Project: Dagger Draw Gas Gathering Hinkle Line
Collection Date: 10/21/2021 9:20:00 AM
Lab ID: 2110B23-005 **Matrix:** SOIL
Received Date: 10/23/2021 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	10/29/2021 3:25:15 PM	63648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/29/2021 5:43:32 PM	63614
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/29/2021 5:43:32 PM	63614
Surr: DNOP	98.5	70-130		%Rec	1	10/29/2021 5:43:32 PM	63614
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/28/2021 8:58:31 PM	63586
Surr: BFB	105	70-130		%Rec	1	10/28/2021 8:58:31 PM	63586
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/28/2021 8:58:31 PM	63586
Toluene	ND	0.047		mg/Kg	1	10/28/2021 8:58:31 PM	63586
Ethylbenzene	ND	0.047		mg/Kg	1	10/28/2021 8:58:31 PM	63586
Xylenes, Total	ND	0.095		mg/Kg	1	10/28/2021 8:58:31 PM	63586
Surr: 4-Bromofluorobenzene	89.0	70-130		%Rec	1	10/28/2021 8:58:31 PM	63586

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: BS21-02 0-4
Project: Dagger Draw Gas Gathering Hinkle Line
Collection Date: 10/21/2021 9:40:00 AM
Lab ID: 2110B23-006 **Matrix:** SOIL
Received Date: 10/23/2021 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	10/29/2021 3:37:40 PM	63648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/29/2021 5:54:32 PM	63614
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/29/2021 5:54:32 PM	63614
Surr: DNOP	121	70-130		%Rec	1	10/29/2021 5:54:32 PM	63614
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/28/2021 10:08:49 PM	63586
Surr: BFB	101	70-130		%Rec	1	10/28/2021 10:08:49 PM	63586
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/28/2021 10:08:49 PM	63586
Toluene	ND	0.047		mg/Kg	1	10/28/2021 10:08:49 PM	63586
Ethylbenzene	ND	0.047		mg/Kg	1	10/28/2021 10:08:49 PM	63586
Xylenes, Total	ND	0.094		mg/Kg	1	10/28/2021 10:08:49 PM	63586
Surr: 4-Bromofluorobenzene	85.3	70-130		%Rec	1	10/28/2021 10:08:49 PM	63586

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2110B23**

02-Nov-21

Client: EOG

Project: Dagger Draw Gas Gathering Hinkle Line

Sample ID: **MB-63648**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **63648**	RunNo: **82473**
Prep Date: **10/29/2021**	Analysis Date: **10/29/2021**	SeqNo: **2926254** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-63648**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **63648**	RunNo: **82473**
Prep Date: **10/29/2021**	Analysis Date: **10/29/2021**	SeqNo: **2926255** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.5	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2110B23**

02-Nov-21

Client: EOG

Project: Dagger Draw Gas Gathering Hinkle Line

Sample ID: **LCS-63614**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **63614**	RunNo: **82441**
Prep Date: **10/27/2021**	Analysis Date: **10/29/2021**	SeqNo: **2926599** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	68.9	135			
Surr: DNOP	5.7		5.000		114	70	130			

Sample ID: **MB-63614**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **63614**	RunNo: **82441**
Prep Date: **10/27/2021**	Analysis Date: **10/29/2021**	SeqNo: **2926600** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		106	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2110B23**

02-Nov-21

Client: EOG

Project: Dagger Draw Gas Gathering Hinkle Line

Sample ID: **mb-63586**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **63586**	RunNo: **82415**
Prep Date: **10/26/2021**	Analysis Date: **10/29/2021**	SeqNo: **2924585** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	70	130			

Sample ID: **lcs-63586**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **63586**	RunNo: **82415**
Prep Date: **10/26/2021**	Analysis Date: **10/28/2021**	SeqNo: **2924586** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	106	78.6	131			
Surr: BFB	1100		1000		114	70	130			

Sample ID: **mb-63577**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **63577**	RunNo: **82404**
Prep Date: **10/26/2021**	Analysis Date: **10/28/2021**	SeqNo: **2924667** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	980		1000		97.7	70	130			

Sample ID: **lcs-63577**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **63577**	RunNo: **82404**
Prep Date: **10/26/2021**	Analysis Date: **10/28/2021**	SeqNo: **2924668** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	78.6	131			
Surr: BFB	1100		1000		111	70	130			

Sample ID: **lcs-63603**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **63603**	RunNo: **82466**
Prep Date: **10/27/2021**	Analysis Date: **10/29/2021**	SeqNo: **2926053** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		108	70	130			

Sample ID: **mb-63603**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **63603**	RunNo: **82466**
Prep Date: **10/27/2021**	Analysis Date: **10/29/2021**	SeqNo: **2926054** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	950		1000		95.0	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2110B23**

02-Nov-21

Client: EOG

Project: Dagger Draw Gas Gathering Hinkle Line

Sample ID: **mb-63586**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **63586**	RunNo: **82415**
Prep Date: **10/26/2021**	Analysis Date: **10/29/2021**	SeqNo: **2924635** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.87		1.000		87.3	70	130			

Sample ID: **LCS-63586**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **63586**	RunNo: **82415**
Prep Date: **10/26/2021**	Analysis Date: **10/28/2021**	SeqNo: **2924636** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.8	80	120			
Toluene	0.92	0.050	1.000	0	91.9	80	120			
Ethylbenzene	0.91	0.050	1.000	0	90.8	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.7	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		89.0	70	130			

Sample ID: **mb-63577**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **63577**	RunNo: **82404**
Prep Date: **10/26/2021**	Analysis Date: **10/28/2021**	SeqNo: **2924706** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		99.0	70	130			

Sample ID: **lcs-63577**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **63577**	RunNo: **82404**
Prep Date: **10/26/2021**	Analysis Date: **10/28/2021**	SeqNo: **2924708** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.7	80	120			
Toluene	0.98	0.050	1.000	0	97.7	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.1	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.9	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2110B23**

02-Nov-21

Client: EOG

Project: Dagger Draw Gas Gathering Hinkle Line

Sample ID: **lcs-63603**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **63603**	RunNo: **82466**
Prep Date: **10/27/2021**	Analysis Date: **10/29/2021**	SeqNo: **2926074** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Sample ID: **mb-63603**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **63603**	RunNo: **82466**
Prep Date: **10/27/2021**	Analysis Date: **10/29/2021**	SeqNo: **2926075** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2110B23 | RcptNo: 1

Received By: Sean Livingston 10/23/2021 9:15:00 AM Sean Livingston

Completed By: Sean Livingston 10/23/2021 10:43:41 AM Sean Livingston

Reviewed By: SLC 10/23/21

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐
5. Sample(s) in proper container(s)? Smaples not frozen Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: SLC 10/23/21

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.9	Good				
2	0.6	Good				
3	-1.4	Good				

Chain-of-Custody Record

Client: EOG

Chase Settle

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 5 Day

☑ Standard ☐ Rush

Project Name: Dagger Draw Gas Gathering (Hinkle Line)

Project #: 21E-03278

Project Manager: Dennis Williams

Sampler: MJP

On Ice: ☑ Yes ☐ No

# of Coolers: 1 / 3 See coc 10/23/21

Cooler Temp(including CF): See remarks (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2110823
10/21	8:00	soil	WS21-01 0-4	4 oz	Ice	001
	8:20		WS21-02 0-4			002
	8:40		WS21-03 0-4			003
	9:00		WS21-04 0-4			004
	9:20		BS21-01 0-4			005
	9:40		BS21-02 0-4			006

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
✓	✓					✓			
✓	✓					✓			
✓	✓					✓			
✓	✓					✓			
✓	✓					✓			
✓	✓					✓			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/22/21	1050				10/22/21	1050
10/22/21	1900		See carrier		10/23/21	9:15

Remarks:

0.6 ≥ 0 = 0.6°C 4.9 ≥ 0 ≥ 4.9°C

-1.4 ≥ 0 ≥ -1.4°C Samples not frozen

CC: MPeppin Final Report See coc 10/23/21

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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 76973

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 76973
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	3/24/2022