

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	
District RP	
Facility ID	
Application ID	

Release Notification

Accepted - 05/19/2023

Responsible Party

NV

Responsible Party Dugan Production Corp.	OGRID 006515
Contact Name Kevin Smaka	Contact Telephone 505-325-1821 x1049
Contact email Kevin.Smaka@duganproduction.com	Incident # (assigned by OCD) nAPP2207544436
Contact mailing address PO Box 420, Farmington, NM 87499	

Location of Release Source

Latitude 36.7830086 Longitude -108.2831726
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Beyond Petroleum Com #90	Site Type Gas Well
Date Release Discovered 3/15/22	API# (if applicable) 30-045-30769

Unit Letter	Section	Township	Range	County
L	26	30N	14W	San Juan

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls) 200	Volume Recovered (bbls) 175
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Water line from pump jack cracked

State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes – Notice of Release submitted in NMOCD Permitting 3/16/22 (Action ID 90775)	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Kevin Smaka</u>	Title: <u>Regulatory Engineer</u>
Signature: _____	Date: <u>October 13, 2022</u>
email: <u>Kevin.Smaka@duganproduction.com</u>	Telephone: <u>505-325-1821 x1049</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2207544436
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Site Assessment/Characterization

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

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

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

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


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

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

State of New Mexico
Oil Conservation Division

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Printed Name: Kevin Smaka Title: Regulatory Engineer
Signature:  Date: October 13, 2022
email: Kevin.Smaka@duganproduction.com Telephone: 505-325-1821 x1049

OCD Only

Received by: Jocelyn Harimon Date: 10/13/2022

State of New Mexico
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Remediation Plan

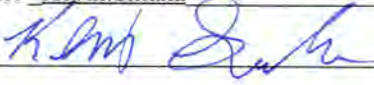
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ 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: Kevin.Smaka Title: Regulatory Engineer
Signature:  Date: October 13, 2022
email: Kevin.Smaka@duganproduction.com Telephone: 505-325-1821 x1049

OCD Only

Received by: Jocelyn Harimon Date: 10/13/2022

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

Signature: _____ Date: _____

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Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Beyond Petroleum #90

Site Characterization and Remediation Plan

30-045-30769

L-26-30N-14W

1850 FSL 1285 FWL

General Spill Information and Details

There was a produced water spill at this well site. The cause was a corroded flow line. It was estimated 8000 square feet of soil were impacted. The well was shut in and the flow of water ceased until a crew could repair the corroded line. There were no injuries to people, animals or vegetation. There was no fire as result of this incident.

Site Characteristics

NMAC 19.15.29 and the C-141 site characterization directs an operator to be cognizant of proximity to water courses, homes, springs, water wells and other conditions that present a greater risk to the environment and the public in the event of a spill.

As part of Dugan's efforts to determine if this spill fell under these categories Dugan generated 6 maps.

Map 1 is a site map that shows the outlines of the spill.

Map 2 is an aerial view of the spill site with a 300 foot buffer and 1000 foot buffer drawn on it to determine if there were sensitive areas inside of the buffers. Based on the imagery there are no homes, water courses, domestic water wells or other sensitive areas to be found near the spill.

Map 3 is a topographic map of the spill site with the same buffer. With the topography included it makes it much easier to identify water courses in proximity of the spill. In NMAC 19.15.29 it is stipulated all spills within 300 feet of a water course must be handled to the highest standards of the rule. The map here demonstrates the spill is not within 300 feet of a watercourse. The nearest watercourse is the Locke Arroyo, seen on the map, which is 1600 feet away. Nearly 2600 feet away is a stock pond/playa lakebed seen as the blue body on the map to the east of the location.

Map 4 is a flood plain map generated from FEMA. The data according to FEMA indicates the spill did not occur in a 100-year flood plain.

Map 5 is a map of all mines in the state of New Mexico with the focus of the map being the spill location. There are no underground mines below the spill.

Map 6 is a map generated from the New Mexico Office of the State Engineer (NMOSE). This map is used to identify any water wells or sources of domestic water in proximity to the spill. The map indicates no such sources of water are near the spill.

Map 7 is a map of the proposed sampling locations.

Map 8 is a map snippet of the NMED Wetlands map. NMAC 19.15.29 states spills within 300 feet of a wetland must be treated to the highest standards. According to the NMED map, the spill nearly 17,000 feet away from any type of wetland.

Groundwater Determination

To determine depth to groundwater at this location Dugan used data from the State Engineers Office (iWaters database) and two hydrogeologic reports for nearby wells. The results indicate there is a well with a depth to water of 5' located in section 3, of T-30N, R-14W. The spill occurred in section 26. This is nearly 4.44 miles away from the spill and will not be used here.

Next Dugan consulted two separate hydrogeologic reports for nearby wells. The wells were Dugan's Horace Smith #1R and Dugan's Stella Needs A Come #1E.

The Horace Smith is roughly ½ mile from the spill location and the Stella is nearly 1 mile from the spill location.

In both hydrogeologic reports it states that ground water may be found 15-20 feet below grade surface in the nearby washes and arroyos. The nearest arroyo is the Locke Arroyo, nearly 1600 feet to the east of the spill. The reports further state that depth to ground water rapidly increases to more than 200 feet below grade surface when moving away from the washes.

Based on the information presented in these reports, it has been determined the depth to groundwater is 200 feet below grade surface.

Closure Standards

Based on our findings Dugan has determined closure standards are found in table 1 of NMAC 19.15.29 table 1 >100 feet to groundwater, listed here:

>100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO-DRO-MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO-DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Field Data

As noted above the spill was found on April 25th. The spill was mapped, and test holes were dug with a shovel to determine the depth the water soaked to. It was found the average depth of wet soil was found at 1 foot. Dugan built a fence to prevent additional access to the spill site. No further excavation or boring took place and in consequence no boring/excavation logs are available. After mapping the spill and getting a measured surface area of 11,000 square feet, the total affected volume of soil is most nearly 11000 cubic feet.

Soil samples were collected on 3/25/22. Those results have been included as part of this report.

Remediation Plan

Dugan is proposing the following steps to remediate this spill:

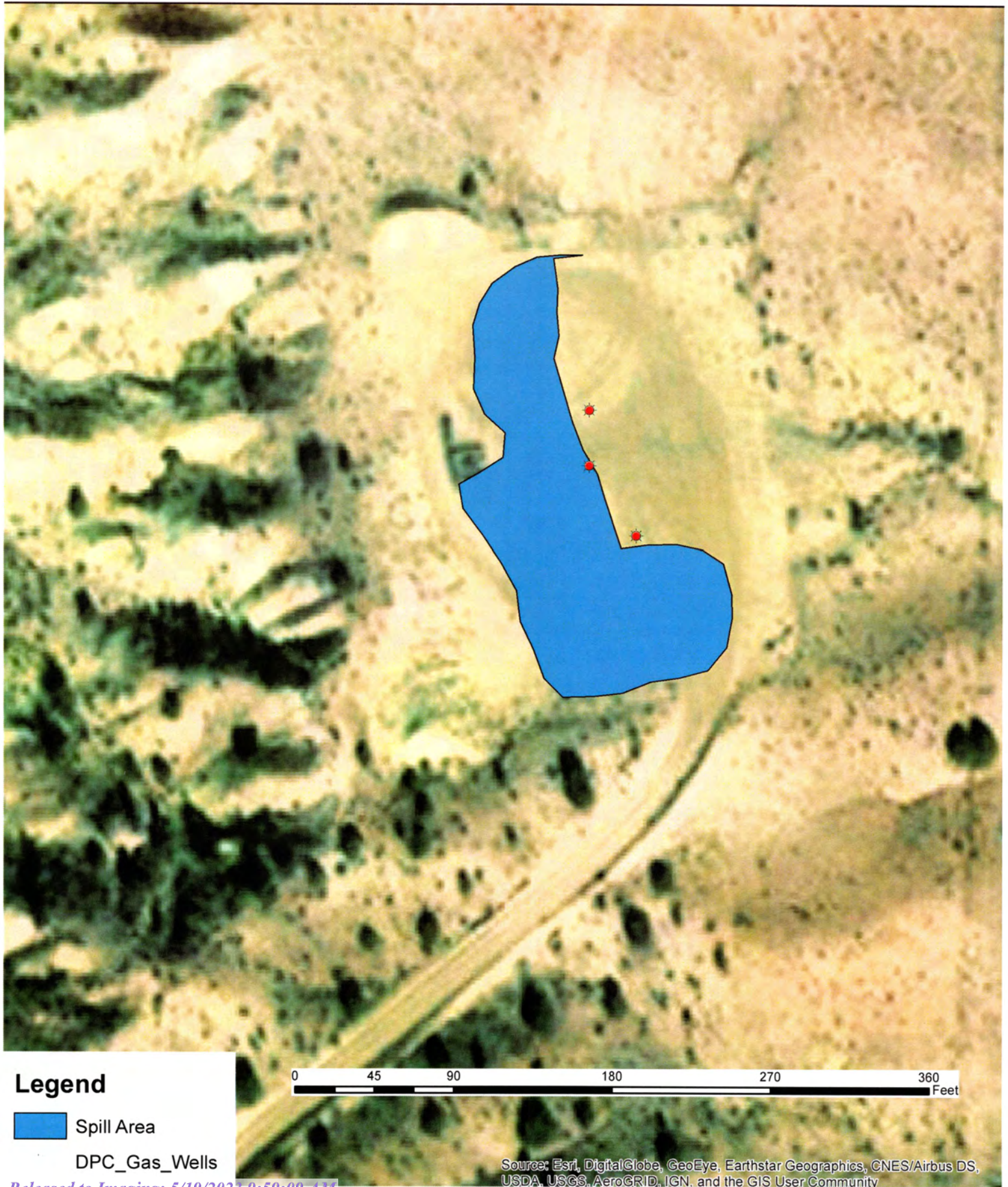
1. Apply a mixture of gypsum and fresh water to aid in the decontamination process of the soil. In total we propose using 200 lbs of gypsum pearls that will be raked in. After the application of gypsum, we propose watering the contaminated soil with 240 bbls of fresh water. We propose applying water in 80 bbl increments. To aid in treating the soil we propose ripping the soil of the pad so that all compacted, hardened soils will allow water to sink below the root growing zone of local flora. Dugan will not cause any surface disturbance off the well pad.
2. Once the treatment with gypsum and fresh water has been completed Dugan will collect 5-point composite samples. The samples will be taken to a local laboratory for analysis. Specifically, Dugan will test the samples for Chlorides, BTEX and TPH. Dugan will be collecting 14 samples within the spill area. The samples will be collected 1 ft below grade surface.
3. Dugan has not fully delineated the spill at this time. To delineate the spill Dugan will collect 8 5-point composite samples along the edges of spill area and 4 inside the spill area. These will be collected at a depth of 4' below grade surface. In total 12 soil samples will be collected. The samples will be taken to a local lab for analysis. The samples will be tested for chlorides, BTEX and TPH.

4. Any surface damage caused by the spill or remediation will be repaired via seeding.
5. Dugan anticipates completion of all the outlined steps by 11/15/22.

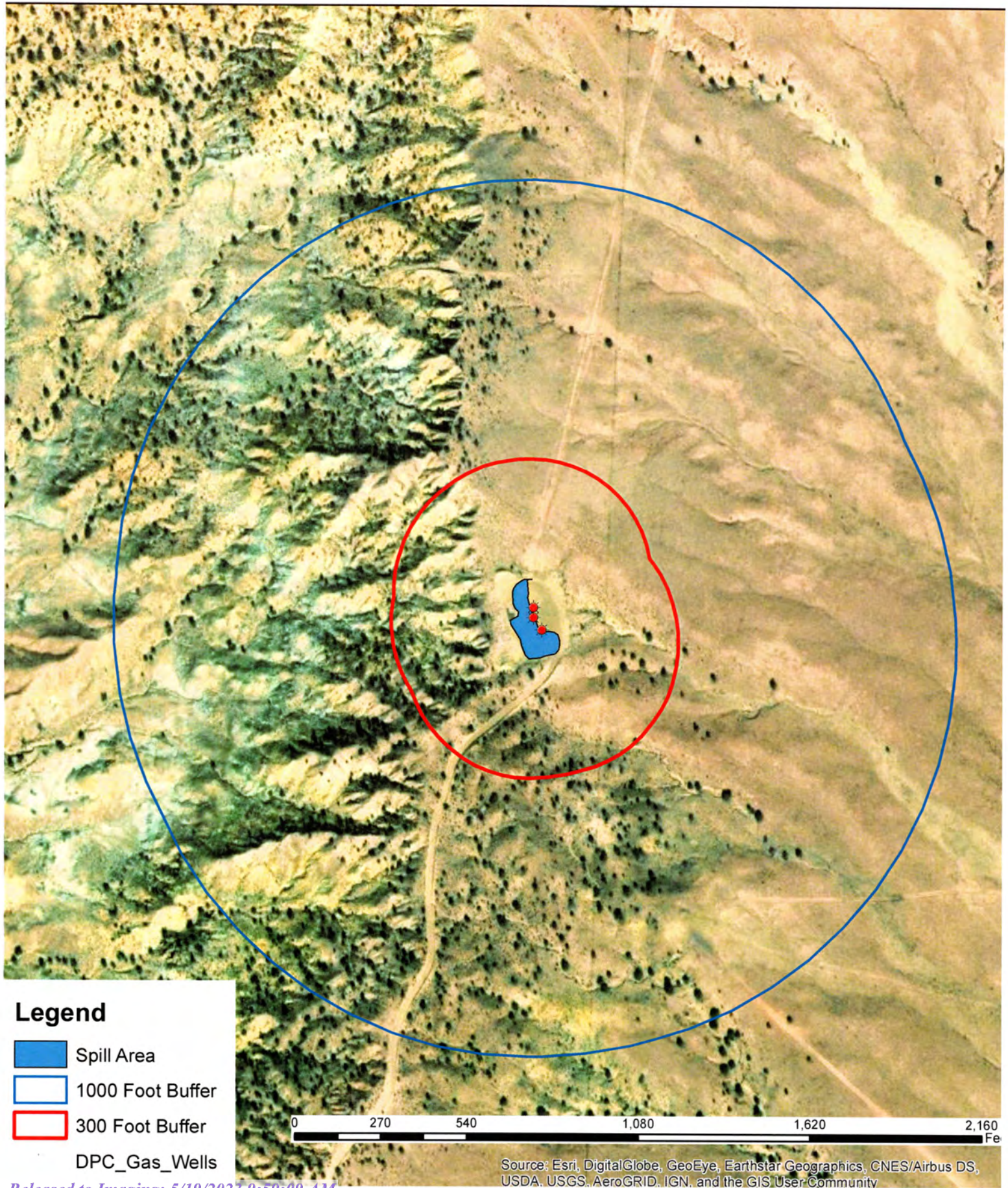
Sampling Area Increase Request

NMAC 19.15.29 stipulates an operator must acquire OCD written approval to use 5-point composite samples for areas larger than 200 square feet. Map 7 indicates we will collect 32 samples. This equates to 343.75 square feet per 5-point composite sample. Since the spill was contained to the well pad, it will present minimal danger to the public, wildlife or sources of water should OCD grant permission to use the larger sampling area.

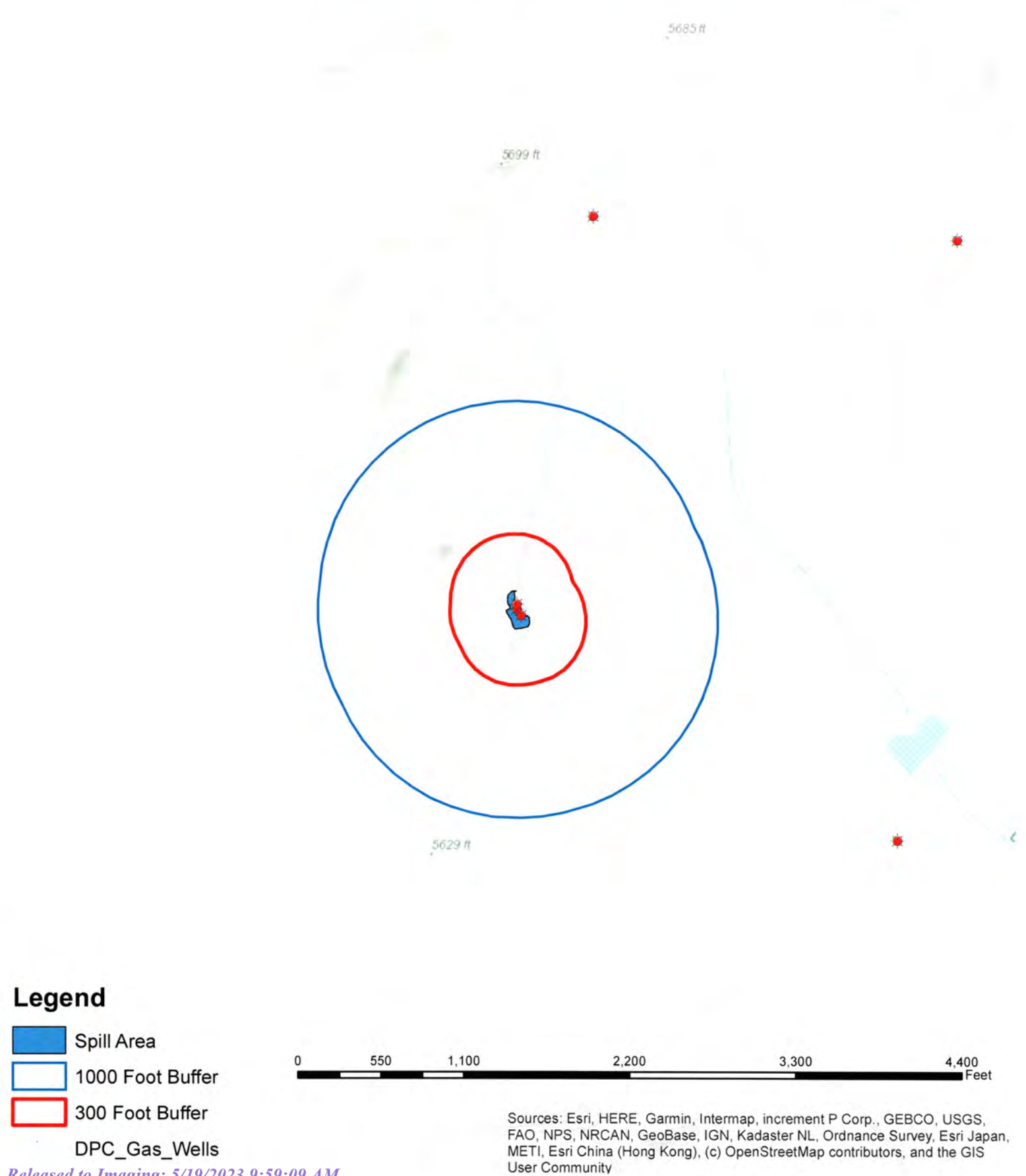
Map 1: Spill Extents



Map 2: Aerial View and Buffers



Map 3: Topo View and Buffers





30°17'18"W 36°47'14"N

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, A1
- 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 X

OTHER AREAS

- NO SCREEN
- Area of Minimal Flood Hazard
Zone X
- Effective LOMRs
- Area of Undetermined Flood Hazard
Zone X

GENERAL STRUCTURES

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

OTHER FEATURES

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

MAP PANELS

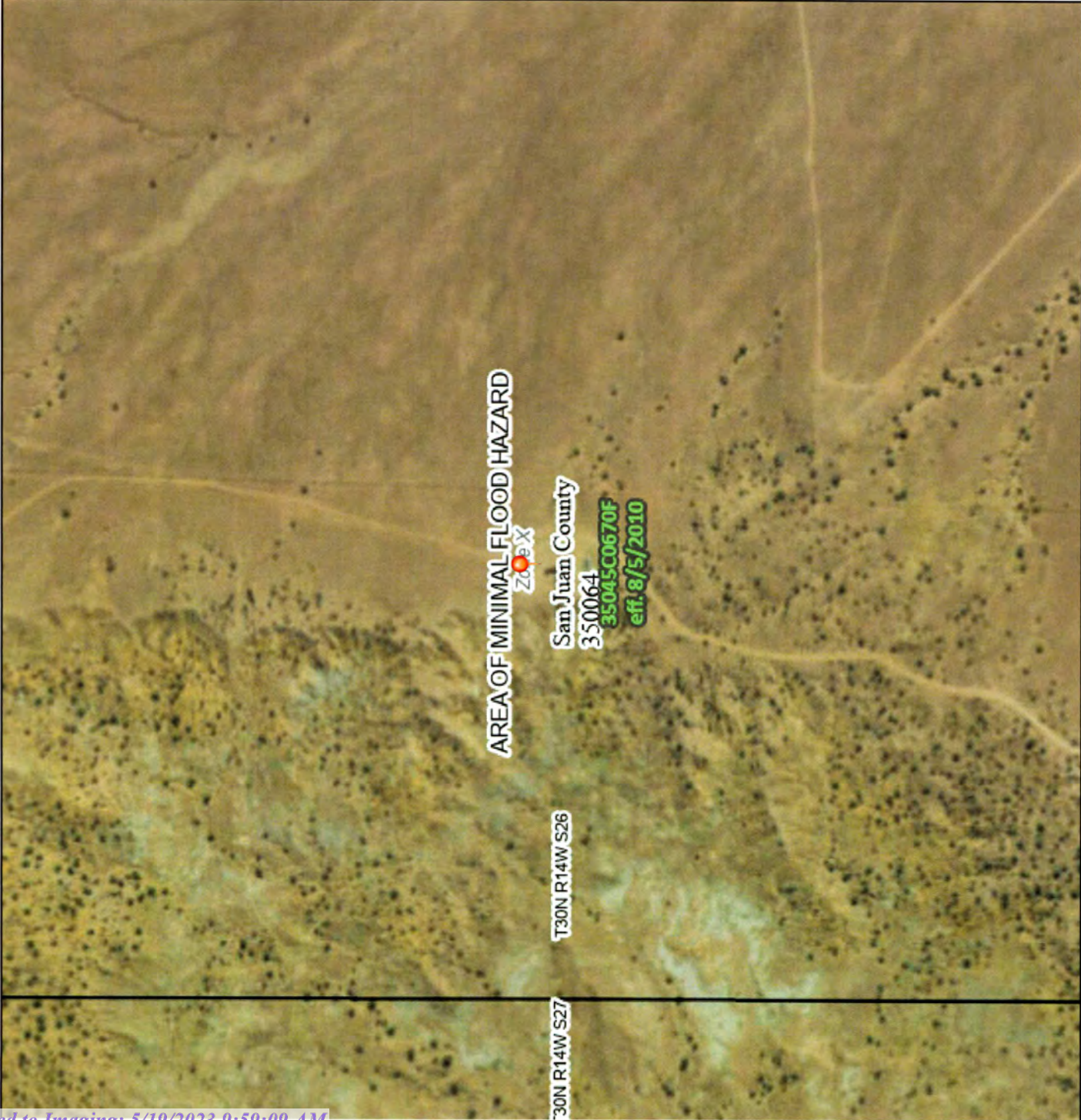
- Digital Data Available
- No Digital Data Available
- Unmapped

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 10/11/2022 at 6:14 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.

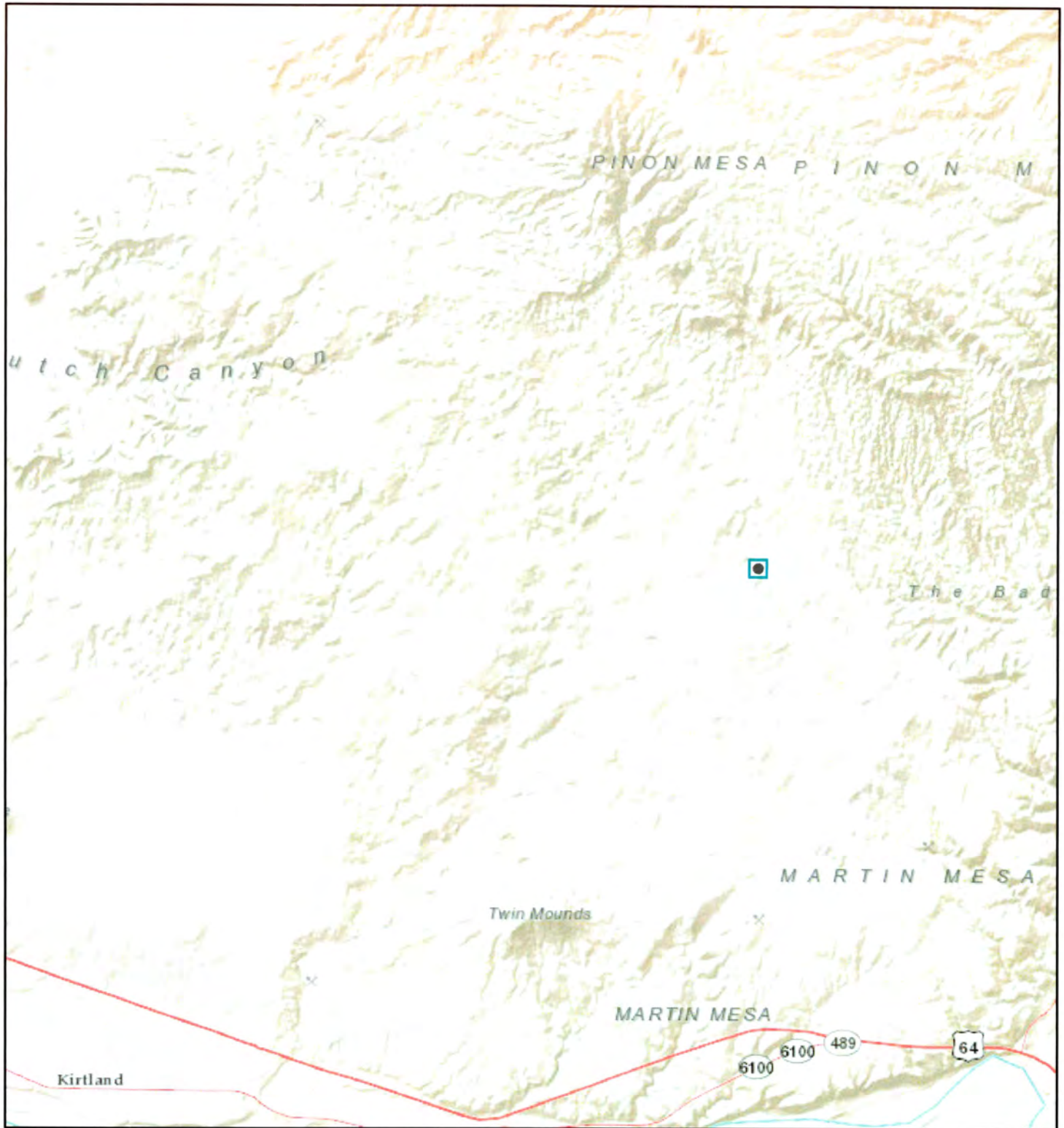
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory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



108°16'41"W 36°46'45"N



Active Mines in New Mexico

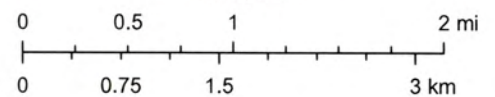


10/11/2022, 4:16:27 PM

1:72,224

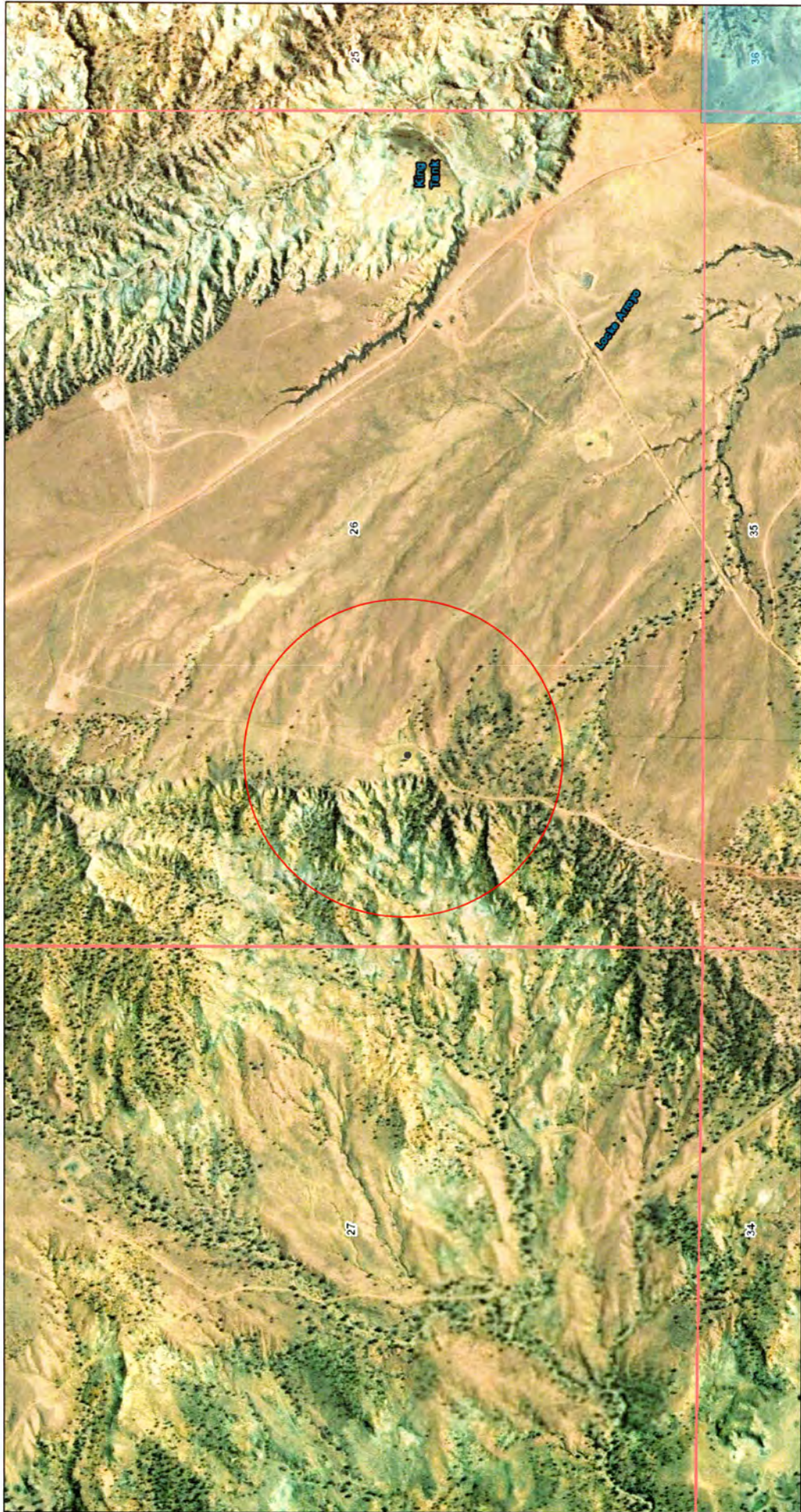
Registered Mines

- ✕ Aggregate, Stone etc.
- ✕ Aggregate, Stone etc.

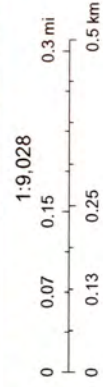


Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

OSE POD Locations Map



- 7/11/2022, 11:44:25 AM
- OSE District Boundary
 - New Mexico State Trust Lands
 - Both Estates
 - Site Boundaries
 - Sections



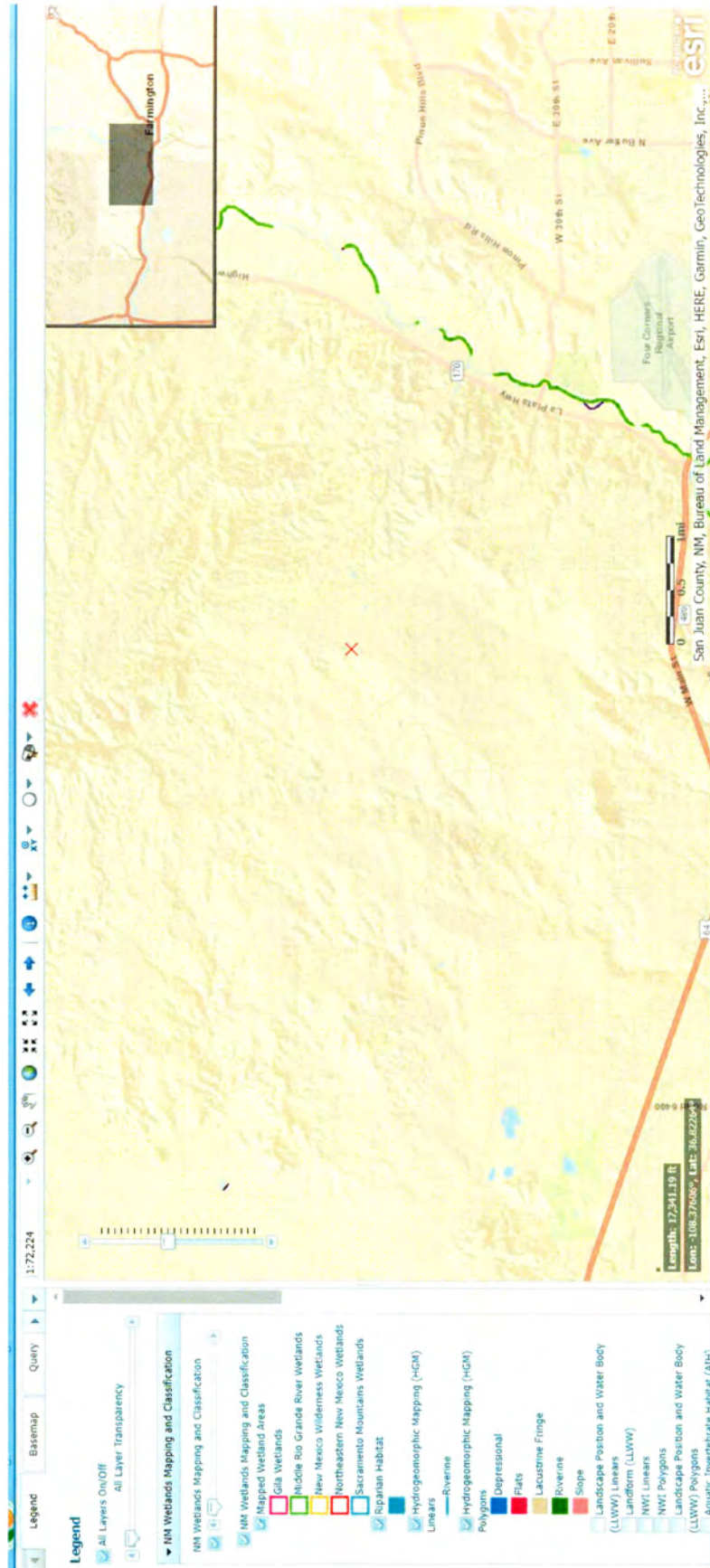
Esri, HERE, GeoTechnologies, Inc., Esri, HERE, Garmin, GeoTechnologies, Inc., OSE SLO, U.S. Department of Energy Office of Legacy Management, Maxar

Unofficial Online Map
These maps are distributed "as is" without warranty of any kind.

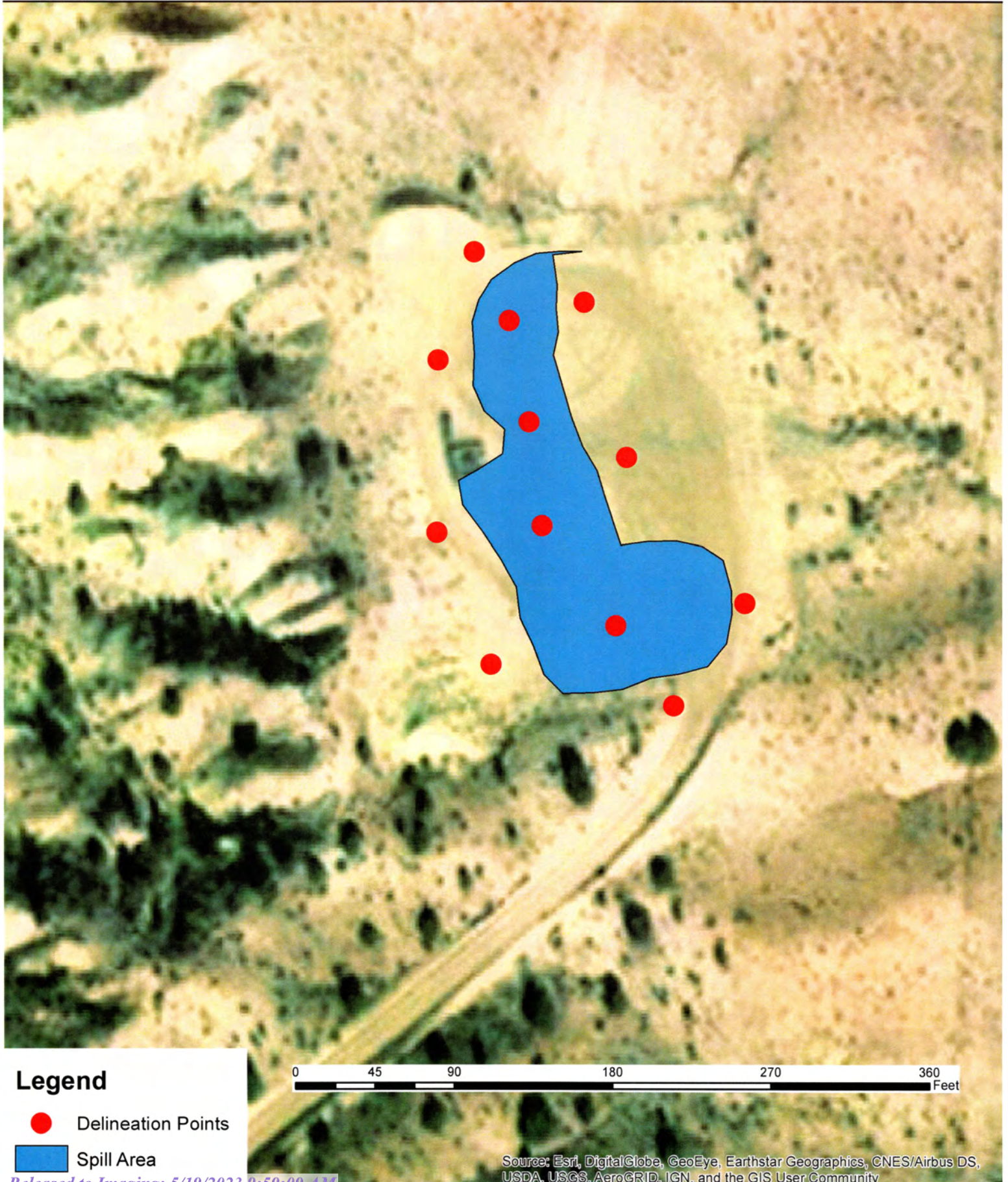
Map 7: Proposed Sampling Diagram



Map 8: Wetlands Map



Map 9: Proposed Delineation Points



Stella Needs a Com SWD #1E (Compressor) Hydrogeologic Report

The Stella Needs a Com SWD #1E (Compressor) below grade tank is located on Federal land on flats below "Pinon Mesa" on the northwest margin of the San Juan Basin, in San Juan County, New Mexico. The area is characterized as a flat grassy area on the Kirtland Shale that is bordered by "Pinon Mesa" (2-miles north) and "Badlands" topography to the north and east.

A records search of the NM Office of the State Engineer -iWATERS database was conducted on a three square mile area centered on the Stella Needs a Com SWD #1E (Compressor) location (Exhibit 2). Three water wells were located to the east, the closest of which is 9,000 feet away. Total depth drilled on these water wells ranged from 21 to 50 feet and the top of groundwater ranged from 12 to 45 feet below the surface. The wells are all located in either the La Plata River Valley or close to in deeply incised arroyos. The results of the search are shown on Exhibit 1.

The main source of stock water in the region is encountered in valley-fill deposits in existing arroyos at shallow depths of approximately 15 – 50 feet below the surface. Also, there are stock ponds located along the confluences and upper reaches of some of the main arroyos. The proposed below grade tank is not located in an arroyo; the closest arroyo is over 1500 feet to the north.

The Kirtland Shale extends from the surface down to a depth of approximately 850 feet. The interval is comprised of an upper shale member and a lower shale member. The middle sandstone member is either poorly developed or absent from the section. There is siltstone from 275 to 470 that may contain ground water but the quality is expected to be poor and the amount small.

Based on electric open hole logs, the iWATERS database and literature reviewed, depth to ground water ranges from 15 – 20 feet below the surface in major arroyos in the area. Moving away from the washes, depth to ground water drops rapidly to greater than 200 feet below the surface. At the location of the subject below grade tank, lesser amounts of poor quality ground water might be found at a depth of approximately 275 to 470 feet from thin, discontinuous siltstone layers in the Kirtland Shale. Larger quantities of poor quality ground water could be expected from the Fruitland sand at 850-900 feet or the Fruitland Coal and Pictured Cliffs interval from 1100 to 1300 feet below the surface.

Excessive drilling depth, unpredictable variations in reservoir quality and water quality have discouraged the drilling of water wells in the in the subject area.

- Stone, W.J., Lyford, F.P., Frenzel, P.F., Mizell, N.H., and Padgett, E.T., 1983, Hydrogeology and water resources of San Juan Basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p.
- Brown, D.R., and Stone, W.J., 1979, Hydrogeology of Aztec quadrangle, San Juan County, New Mexico: New Mexico Bureau of Mines and Mineral Resources Hydrogeologic Sheet 1.
- Levings, G.W., Craig, S.D., Dam, W.L., Kernodle, J.M., and Thorn, C.R., 1990, Hydrogeology of the San Jose, Nacimiento, and Animas Formations in the San Juan Structural Basin, New Mexico, Colorado, Arizona and Utah: U.S. Geological Survey, Atlas HA-720-A, Sheet 1 and 2.
- Thorn, C.R., Levings, G.W., Craig, S.D., Dam, W.L., and Kernodle, J.M., 1990, Hydrogeology of the Ojo Alamo Sandstone in the San Juan Structural Basin, New Mexico, Colorado, Arizona and Utah: U.S.G.S, Atlas HA-720-B, Sheet 1 and 2.

Horace Smith #1R (Production Tank) Hydrogeologic Report

The Horace Smith #1R (Production Tank) is located on Federal land on flats below "Pinon Mesa" on the northwest margin of the San Juan Basin, in San Juan County, New Mexico. The area is characterized as a flat grassy area on the Kirtland Shale that is bordered by "Pinon Mesa" (1-mile north) and Kirtland Shale "Badlands" topography to the east.

A records search of the NM Office of the State Engineer –iWATERS database was conducted on a three square mile area centered on the Horace Smith #1R (Production Tank) location (Exhibit 2). No water wells were located in the database search. The results of the data search are shown on Exhibit 1. One water well was located 6,100 feet to the west using map and field inspections. No other information was available on this well and it is currently in-active. The main source of stock water in the region is encountered in valley-fill deposits in existing arroyos at shallow depths of approximately 15 – 50 feet below the surface and stock ponds constructed on surface shale layers at the confluence and upper reaches of the arroyos. The below grade tank is not located in an arroyo. The closest arroyo is 150 feet east and there is a stock tank 600 feet east of the below grade tank. Both the arroyo and stock tank are down in a draw, 50-60 feet below the elevation of the below grade tank (Exhibit 2) (See Visual Inspection Cert.).

The Kirtland Shale extends from the surface down to a depth of approximately 865 feet. The interval is comprised of an upper shale member, middle sandstone member (Farmington Ss.) and a lower shale member. The upper member is all mudstone / shale with a trace of siltstone down to 325 feet. The middle member extends from 325-415 feet and contains five, thin (50-10 feet thick), poorly developed silty sands. These silty sands might contain minimal amounts of poor quality groundwater. The lower member is all mudstone / shale with a few silt stringers down to 865 feet.

The underlying Fruitland Formation from 865-1235 feet has sand at 865-910 and 920-935 feet with good reservoir quality. These sands contain groundwater as well as natural gas. Dugan Production has analyzed water from this zone in the area, the quality is poor. Analysis will be provided upon request.

Based on electric open hole logs, the iWATERS database and literature reviewed, depth to ground water ranges from 15–20 feet below the surface in major arroyos in the area. Moving away from the washes, depth to ground water drops rapidly to greater than 200 feet below the surface. At the location of the below grade tank, lesser amounts of poor quality ground water might be found at a depth of 325-415 feet from thin, discontinuous sand stringers in the middle sandstone member of the Kirtland Shale. Larger quantities of poor quality ground water could be expected from Fruitland sand at 865-910 and 920-935 feet and the Fruitland Coal and Pictured Cliffs Sandstone interval at 1200-1300 feet below the surface.

Excessive drilling depth, unpredictable variations in reservoir quality and water quality have discouraged the drilling of water wells in the in the subject area.

This Hydrogeologic Report was prepared by Mr. Kurt Fagrelus, Geologist for Dugan Production. Mr. Fagrelus has been employed as a geologist for Dugan for the past 31-years, received a MS in Geology from NMIMT in Socorro, NM and a BS in Geology from FLC in Durango, CO.

Stone, W.J., Lyford, F.P., Frenzel, P.F., Mizell, N.H., and Padgett, E.T., 1983, Hydrogeology and water resources of San Juan Basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p.

Brown, D.R., and Stone, W.J., 1979, Hydrogeology of Aztec quadrangle, San Juan County, New Mexico: New Mexico Bureau of Mines and Mineral Resources Hydrogeologic Sheet 1.

Levings, G.W., Craig, S.D., Dam, W.L. Kernodle, J.M., and Thorn, C.R., 1990, Hydrogeology of the San Jose, Nacimiento, and Animas Formations in the San Juan Structural Basin, New Mexico, Colorado, Arizona and Utah: U.S. Geological Survey, Atlas HA-720-A, Sheet 1 and 2.

Thorn, C.R., Levings, G.W., Craig, S.D., Dam, W.L., and Kernodle, J.M., 1990, Hydrogeology of the Ojo Alamo Sandstone in the San Juan Structural Basin, New Mexico, Colorado, Arizona and Utah: U.S.G.S, Atlas HA-720-B, Sheet 1 and 2.

Report to:
Kevin Smaka



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Envirotech-inc.com



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Practical Solutions for a Better Tomorrow

Analytical Report

Dugan Production Corp.

Project Name: Beyond Petroleum 90

Work Order: E207186

Job Number: 06094-0177

Received: 7/27/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/2/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 8/2/22

Kevin Smaka
PO Box 420
Farmington, NM 87499



Project Name: Beyond Petroleum 90
Workorder: E207186
Date Received: 7/27/2022 1:42:00PM

Kevin Smaka,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/27/2022 1:42:00PM, under the Project Name: Beyond Petroleum 90.

The analytical test results summarized in this report with the Project Name: Beyond Petroleum 90 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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Sample Summary

Dugan Production Corp.	Project Name:	Beyond Petroleum 90	Reported: 08/02/22 13:33
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
B.P. 90 - 1	E207186-01A	Soil	07/27/22	07/27/22	Glass Jar, 4 oz.
B.P. 90 - 2	E207186-02A	Soil	07/27/22	07/27/22	Glass Jar, 4 oz.
B.P. 90 - 3	E207186-03A	Soil	07/27/22	07/27/22	Glass Jar, 4 oz.
B.P. 90 - 4	E207186-04A	Soil	07/27/22	07/27/22	Glass Jar, 4 oz.
B.P. 90 - 5	E207186-05A	Soil	07/27/22	07/27/22	Glass Jar, 4 oz.
B.P. 90 - 6	E207186-06A	Soil	07/27/22	07/27/22	Glass Jar, 4 oz.
B.P. 90 - 7	E207186-07A	Soil	07/27/22	07/27/22	Glass Jar, 4 oz.
B.P. 90 - 8	E207186-08A	Soil	07/27/22	07/27/22	Glass Jar, 4 oz.
B.P. 90 - 9	E207186-09A	Soil	07/27/22	07/27/22	Glass Jar, 4 oz.
B.P. 90 - 10	E207186-10A	Soil	07/27/22	07/27/22	Glass Jar, 4 oz.
B.P. 90 - 11	E207186-11A	Soil	07/27/22	07/27/22	Glass Jar, 4 oz.
B.P. 90 - 12	E207186-12A	Soil	07/27/22	07/27/22	Glass Jar, 4 oz.

Sample Data

Dugan Production Corp.
PO Box 420
Farmington NM, 87499

Project Name: Beyond Petroleum 90
Project Number: 06094-0177
Project Manager: Kevin Smaka

Reported:
8/2/2022 1:33:39PM

B.P. 90 - 1

E207186-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232018
Benzene	ND	0.0250	1	07/28/22	07/30/22	
Ethylbenzene	ND	0.0250	1	07/28/22	07/30/22	
Toluene	ND	0.0250	1	07/28/22	07/30/22	
o-Xylene	ND	0.0250	1	07/28/22	07/30/22	
p,m-Xylene	ND	0.0500	1	07/28/22	07/30/22	
Total Xylenes	ND	0.0250	1	07/28/22	07/30/22	
Surrogate: 4-Bromochlorobenzene-PID	94.9 %	70-130		07/28/22	07/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232018
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/28/22	07/30/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.2 %	70-130		07/28/22	07/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2231067
Diesel Range Organics (C10-C28)	ND	25.0	1	07/28/22	07/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/28/22	07/29/22	
Surrogate: n-Nonane	103 %	50-200		07/28/22	07/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2231080
Chloride	1500	200	10	07/29/22	07/30/22	

Sample Data

Dugan Production Corp. PO Box 420 Farmington NM, 87499	Project Name: Beyond Petroleum 90 Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 8/2/2022 1:33:39PM
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B.P. 90 - 2

E207186-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2232018
Benzene	ND	0.0250	1	07/28/22	07/30/22	
Ethylbenzene	ND	0.0250	1	07/28/22	07/30/22	
Toluene	ND	0.0250	1	07/28/22	07/30/22	
o-Xylene	ND	0.0250	1	07/28/22	07/30/22	
p,m-Xylene	ND	0.0500	1	07/28/22	07/30/22	
Total Xylenes	ND	0.0250	1	07/28/22	07/30/22	
Surrogate: 4-Bromochlorobenzene-PID	95.6 %	70-130		07/28/22	07/30/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2232018
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/28/22	07/30/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.8 %	70-130		07/28/22	07/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2231067
Diesel Range Organics (C10-C28)	ND	25.0	1	07/28/22	07/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/28/22	07/29/22	
Surrogate: n-Nonane	94.4 %	50-200		07/28/22	07/29/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2231080
Chloride	2010	100	5	07/29/22	07/30/22	



Sample Data

Dugan Production Corp.
PO Box 420
Farmington NM, 87499

Project Name: Beyond Petroleum 90
Project Number: 06094-0177
Project Manager: Kevin Smaka

Reported:
8/2/2022 1:33:39PM

B.P. 90 - 3

E207186-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232018
Benzene	ND	0.0250	1	07/28/22	07/30/22	
Ethylbenzene	ND	0.0250	1	07/28/22	07/30/22	
Toluene	ND	0.0250	1	07/28/22	07/30/22	
o-Xylene	ND	0.0250	1	07/28/22	07/30/22	
p,m-Xylene	ND	0.0500	1	07/28/22	07/30/22	
Total Xylenes	ND	0.0250	1	07/28/22	07/30/22	
Surrogate: 4-Bromochlorobenzene-PID	95.1 %	70-130		07/28/22	07/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232018
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/28/22	07/30/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.1 %	70-130		07/28/22	07/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2231067
Diesel Range Organics (C10-C28)	31.0	25.0	1	07/28/22	07/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/28/22	07/29/22	
Surrogate: n-Nonane	93.0 %	50-200		07/28/22	07/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2231080
Chloride	414	40.0	2	07/29/22	07/30/22	



Sample Data

Dugan Production Corp.
PO Box 420
Farmington NM, 87499

Project Name: Beyond Petroleum 90
Project Number: 06094-0177
Project Manager: Kevin Smaka

Reported:
8/2/2022 1:33:39PM

B.P. 90 - 4

E207186-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232018
Benzene	ND	0.0250	1	07/28/22	07/30/22	
Ethylbenzene	ND	0.0250	1	07/28/22	07/30/22	
Toluene	ND	0.0250	1	07/28/22	07/30/22	
o-Xylene	ND	0.0250	1	07/28/22	07/30/22	
p,m-Xylene	ND	0.0500	1	07/28/22	07/30/22	
Total Xylenes	ND	0.0250	1	07/28/22	07/30/22	
Surrogate: 4-Bromochlorobenzene-PID	95.1 %	70-130		07/28/22	07/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232018
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/28/22	07/30/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.9 %	70-130		07/28/22	07/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2231067
Diesel Range Organics (C10-C28)	ND	25.0	1	07/28/22	07/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/28/22	07/29/22	
Surrogate: n-Nonane	91.2 %	50-200		07/28/22	07/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2231080
Chloride	3380	400	20	07/29/22	07/30/22	



Sample Data

Dugan Production Corp.	Project Name:	Beyond Petroleum 90	Reported: 8/2/2022 1:33:39PM
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	

B.P. 90 - 5

E207186-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2232018
Benzene	ND	0.0250	1	07/28/22	07/30/22	
Ethylbenzene	ND	0.0250	1	07/28/22	07/30/22	
Toluene	ND	0.0250	1	07/28/22	07/30/22	
o-Xylene	ND	0.0250	1	07/28/22	07/30/22	
p,m-Xylene	ND	0.0500	1	07/28/22	07/30/22	
Total Xylenes	ND	0.0250	1	07/28/22	07/30/22	
Surrogate: 4-Bromochlorobenzene-PID	95.7 %	70-130		07/28/22	07/30/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2232018
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/28/22	07/30/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.8 %	70-130		07/28/22	07/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2231067
Diesel Range Organics (C10-C28)	ND	25.0	1	07/28/22	07/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/28/22	07/29/22	
Surrogate: n-Nonane	93.3 %	50-200		07/28/22	07/29/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2231080
Chloride	467	40.0	2	07/29/22	07/30/22	



Sample Data

Dugan Production Corp.	Project Name:	Beyond Petroleum 90	Reported: 8/2/2022 1:33:39PM
PO Box 420	Project Number:	06094-0177	
Farmington NM, 87499	Project Manager:	Kevin Smaka	

B.P. 90 - 6

E207186-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2232018
Benzene	ND	0.0250	1	07/28/22	07/30/22	
Ethylbenzene	ND	0.0250	1	07/28/22	07/30/22	
Toluene	ND	0.0250	1	07/28/22	07/30/22	
o-Xylene	ND	0.0250	1	07/28/22	07/30/22	
p,m-Xylene	ND	0.0500	1	07/28/22	07/30/22	
Total Xylenes	ND	0.0250	1	07/28/22	07/30/22	
Surrogate: 4-Bromochlorobenzene-PID	95.5 %	70-130		07/28/22	07/30/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2232018
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/28/22	07/30/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.8 %	70-130		07/28/22	07/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2231067
Diesel Range Organics (C10-C28)	ND	25.0	1	07/28/22	07/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/28/22	07/29/22	
Surrogate: n-Nonane	97.5 %	50-200		07/28/22	07/29/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2231080
Chloride	3680	400	20	07/29/22	07/30/22	



Sample Data

Dugan Production Corp.
PO Box 420
Farmington NM, 87499

Project Name: Beyond Petroleum 90
Project Number: 06094-0177
Project Manager: Kevin Smaka

Reported:
8/2/2022 1:33:39PM

B.P. 90 - 7

E207186-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2232018	
Benzene	ND	0.0250	1	07/28/22	07/30/22	
Ethylbenzene	ND	0.0250	1	07/28/22	07/30/22	
Toluene	ND	0.0250	1	07/28/22	07/30/22	
o-Xylene	ND	0.0250	1	07/28/22	07/30/22	
p,m-Xylene	ND	0.0500	1	07/28/22	07/30/22	
Total Xylenes	ND	0.0250	1	07/28/22	07/30/22	
Surrogate: 4-Bromochlorobenzene-PID	95.2 %	70-130		07/28/22	07/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2232018	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/28/22	07/30/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.0 %	70-130		07/28/22	07/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: JL		Batch: 2231067	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/28/22	07/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/28/22	07/29/22	
Surrogate: n-Nonane	102 %	50-200		07/28/22	07/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2231080	
Chloride	219	200	10	07/29/22	07/30/22	

Sample Data

Dugan Production Corp. PO Box 420 Farmington NM, 87499	Project Name: Beyond Petroleum 90 Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 8/2/2022 1:33:39PM
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B.P. 90 - 8

E207186-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232018
Benzene	ND	0.0250	1	07/28/22	07/30/22	
Ethylbenzene	ND	0.0250	1	07/28/22	07/30/22	
Toluene	ND	0.0250	1	07/28/22	07/30/22	
o-Xylene	ND	0.0250	1	07/28/22	07/30/22	
p,m-Xylene	ND	0.0500	1	07/28/22	07/30/22	
Total Xylenes	ND	0.0250	1	07/28/22	07/30/22	
Surrogate: 4-Bromochlorobenzene-PID	96.4 %	70-130		07/28/22	07/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232018
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/28/22	07/30/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.4 %	70-130		07/28/22	07/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2231067
Diesel Range Organics (C10-C28)	ND	25.0	1	07/28/22	07/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/28/22	07/29/22	
Surrogate: n-Nonane	103 %	50-200		07/28/22	07/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2231080
Chloride	686	200	10	07/29/22	07/30/22	

Sample Data

Dugan Production Corp. PO Box 420 Farmington NM, 87499	Project Name: Beyond Petroleum 90 Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 8/2/2022 1:33:39PM
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B.P. 90 - 9

E207186-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232018
Benzene	ND	0.0250	1	07/28/22	07/30/22	
Ethylbenzene	ND	0.0250	1	07/28/22	07/30/22	
Toluene	ND	0.0250	1	07/28/22	07/30/22	
o-Xylene	ND	0.0250	1	07/28/22	07/30/22	
p,m-Xylene	ND	0.0500	1	07/28/22	07/30/22	
Total Xylenes	ND	0.0250	1	07/28/22	07/30/22	
Surrogate: 4-Bromochlorobenzene-PID	95.9 %	70-130		07/28/22	07/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232018
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/28/22	07/30/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.2 %	70-130		07/28/22	07/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2231067
Diesel Range Organics (C10-C28)	ND	25.0	1	07/28/22	07/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/28/22	07/29/22	
Surrogate: n-Nonane	94.3 %	50-200		07/28/22	07/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2231080
Chloride	6430	400	20	07/29/22	07/30/22	

Sample Data

Dugan Production Corp.
PO Box 420
Farmington NM, 87499

Project Name: Beyond Petroleum 90
Project Number: 06094-0177
Project Manager: Kevin Smaka

Reported:
8/2/2022 1:33:39PM

B.P. 90 - 10

E207186-10

Analyte	Reporting					Notes
	Result	Limit	Dilution	Prepared	Analyzed	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2232018
Benzene	ND	0.0250	1	07/28/22	07/30/22	
Ethylbenzene	ND	0.0250	1	07/28/22	07/30/22	
Toluene	ND	0.0250	1	07/28/22	07/30/22	
o-Xylene	ND	0.0250	1	07/28/22	07/30/22	
p,m-Xylene	ND	0.0500	1	07/28/22	07/30/22	
Total Xylenes	ND	0.0250	1	07/28/22	07/30/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.6 %	70-130		07/28/22	07/30/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2232018
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/28/22	07/30/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.1 %	70-130		07/28/22	07/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2231067
Diesel Range Organics (C10-C28)	ND	25.0	1	07/28/22	07/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/28/22	07/29/22	
<i>Surrogate: n-Nonane</i>						
	93.4 %	50-200		07/28/22	07/29/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2231080
Chloride	383	100	5	07/29/22	07/30/22	



Sample Data

Dugan Production Corp. PO Box 420 Farmington NM, 87499	Project Name: Beyond Petroleum 90 Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 8/2/2022 1:33:39PM
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B.P. 90 - 11

E207186-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2232018
Benzene	ND	0.0250	1	07/28/22	07/30/22	
Ethylbenzene	ND	0.0250	1	07/28/22	07/30/22	
Toluene	ND	0.0250	1	07/28/22	07/30/22	
o-Xylene	ND	0.0250	1	07/28/22	07/30/22	
p,m-Xylene	ND	0.0500	1	07/28/22	07/30/22	
Total Xylenes	ND	0.0250	1	07/28/22	07/30/22	
Surrogate: 4-Bromochlorobenzene-PID	96.9 %	70-130		07/28/22	07/30/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2232018
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/28/22	07/30/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.6 %	70-130		07/28/22	07/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2231067
Diesel Range Organics (C10-C28)	ND	25.0	1	07/28/22	07/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/28/22	07/29/22	
Surrogate: n-Nonane	103 %	50-200		07/28/22	07/29/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2231080
Chloride	1780	400	20	07/29/22	07/30/22	

Sample Data

Dugan Production Corp. PO Box 420 Farmington NM, 87499	Project Name: Beyond Petroleum 90 Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 8/2/2022 1:33:39PM
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B.P. 90 - 12

E207186-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232018
Benzene	ND	0.0250	1	07/28/22	07/30/22	
Ethylbenzene	ND	0.0250	1	07/28/22	07/30/22	
Toluene	ND	0.0250	1	07/28/22	07/30/22	
o-Xylene	ND	0.0250	1	07/28/22	07/30/22	
p,m-Xylene	ND	0.0500	1	07/28/22	07/30/22	
Total Xylenes	ND	0.0250	1	07/28/22	07/30/22	
Surrogate: 4-Bromochlorobenzene-PID	96.9 %	70-130		07/28/22	07/30/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2232018
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/28/22	07/30/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.9 %	70-130		07/28/22	07/30/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2231067
Diesel Range Organics (C10-C28)	ND	25.0	1	07/28/22	07/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	07/28/22	07/29/22	
Surrogate: n-Nonane	105 %	50-200		07/28/22	07/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2231080
Chloride	1510	400	20	07/29/22	07/30/22	



QC Summary Data

Dugan Production Corp. PO Box 420 Farmington NM, 87499	Project Name: Beyond Petroleum 90 Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 8/2/2022 1:33:39PM
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Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2232018-BLK1)

Prepared: 07/28/22 Analyzed: 07/30/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.77		8.00		97.1	70-130			

LCS (2232018-BS1)

Prepared: 07/28/22 Analyzed: 07/30/22

Benzene	4.83	0.0250	5.00		96.7	70-130			
Ethylbenzene	4.18	0.0250	5.00		83.6	70-130			
Toluene	4.54	0.0250	5.00		90.8	70-130			
o-Xylene	4.48	0.0250	5.00		89.5	70-130			
p,m-Xylene	8.63	0.0500	10.0		86.3	70-130			
Total Xylenes	13.1	0.0250	15.0		87.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.86		8.00		98.3	70-130			

LCS Dup (2232018-BS1)

Prepared: 07/28/22 Analyzed: 07/30/22

Benzene	4.82	0.0250	5.00		96.3	70-130	0.390	20	
Ethylbenzene	4.17	0.0250	5.00		83.4	70-130	0.346	20	
Toluene	4.53	0.0250	5.00		90.6	70-130	0.272	20	
o-Xylene	4.47	0.0250	5.00		89.3	70-130	0.265	20	
p,m-Xylene	8.61	0.0500	10.0		86.1	70-130	0.247	20	
Total Xylenes	13.1	0.0250	15.0		87.2	70-130	0.253	20	
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		99.0	70-130			

QC Summary Data

Dugan Production Corp. PO Box 420 Farmington NM, 87499	Project Name: Beyond Petroleum 90 Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 8/2/2022 1:33:39PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2232018-BLK1)

Prepared: 07/28/22 Analyzed: 07/30/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.8	70-130			

LCS (2232018-BS2)

Prepared: 07/28/22 Analyzed: 07/30/22

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.1	70-130			

LCS Dup (2232018-BSD2)

Prepared: 07/28/22 Analyzed: 07/30/22

Gasoline Range Organics (C6-C10)	44.3	20.0	50.0		88.7	70-130	0.869	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		8.00		95.6	70-130			



QC Summary Data

Dugan Production Corp. PO Box 420 Farmington NM, 87499	Project Name: Beyond Petroleum 90 Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 8/2/2022 1:33:39PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2231067-BLK1)

Prepared: 07/28/22 Analyzed: 07/29/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.6		50.0		95.2	50-200			

LCS (2231067-BS1)

Prepared: 07/28/22 Analyzed: 07/29/22

Diesel Range Organics (C10-C28)	239	25.0	250		95.7	38-132			
Surrogate: n-Nonane	47.8		50.0		95.6	50-200			

Matrix Spike (2231067-MS1)

Source: E207186-06

Prepared: 07/28/22 Analyzed: 07/29/22

Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	38-132			
Surrogate: n-Nonane	47.2		50.0		94.4	50-200			

Matrix Spike Dup (2231067-MSD1)

Source: E207186-06

Prepared: 07/28/22 Analyzed: 07/29/22

Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	38-132	1.26	20	
Surrogate: n-Nonane	43.4		50.0		86.7	50-200			



QC Summary Data

Dugan Production Corp. PO Box 420 Farmington NM, 87499	Project Name: Beyond Petroleum 90 Project Number: 06094-0177 Project Manager: Kevin Smaka	Reported: 8/2/2022 1:33:39PM
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Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2231080-BLK1)

Prepared: 07/29/22 Analyzed: 07/30/22

Chloride ND 20.0

LCS (2231080-BS1)

Prepared: 07/29/22 Analyzed: 07/30/22

Chloride 255 20.0 250 102 90-110

Matrix Spike (2231080-MS1)

Source: E207186-01

Prepared: 07/29/22 Analyzed: 07/30/22

Chloride 1610 200 250 1500 45.0 80-120 M5

Matrix Spike Dup (2231080-MSD1)

Source: E207186-01

Prepared: 07/29/22 Analyzed: 07/30/22

Chloride 1430 200 250 1500 NR 80-120 11.9 20 M5

QC Summary Report Comment:

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



Definitions and Notes

Dugan Production Corp.	Project Name:	Beyond Petroleum 90	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Kevin Smaka	08/02/22 13:33

M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

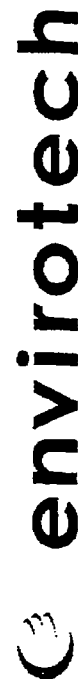


Project Information

Chain of Custody

Page 1 of 2

Client: <u>Dugan Production</u> Project: <u>Beyond Petroleum 90</u> Project Manager: <u>Kevin Sotaka</u> Address: _____ City, State, Zip: _____ Phone: _____ Email: _____				Bill To: <u>Dugan Production</u> Attention: _____ Address: _____ City, State, Zip: _____ Phone: _____ Email: _____				Lab Use Only Lab WO# <u>E207180</u> Job Number <u>00044077</u> Analysis and Method _____				TAT 1D _____ 2D _____ 3D _____ Standard <u>X</u> EPA Program CWA _____ SDWA _____ RCRA _____ State NM _____ CO _____ UT _____ AZ _____ TX _____ Remarks _____			
Report due by: _____				Sample ID				Lab Number							
Time Sampled	Date Sampled	Matrix	No of Containers												
9:00 AM	7/27/2022	Soil	1	B.P. 90	- 1	1									
			2	B.P. 90	- 2	2									
			3	B.P. 90	- 3	3									
			4	B.P. 90	- 4	4									
			5	B.P. 90	- 5	5									
			6	B.P. 90	- 6	6									
			7	B.P. 90	- 7	7									
			8	B.P. 90	- 8	8									
			9	B.P. 90	- 9	9									
			10	B.P. 90	- 10	10									
Additional Instructions: _____															
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.															
Relinquished by: (Signature) _____ Date <u>7/27/2022</u> Time <u>1:30 PM</u>				Received by: (Signature) _____ Date <u>7/27/2022</u> Time <u>13:42</u>				Lab Use Only Received on Ice: <u>YY N</u> T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>							
Relinquished by: (Signature) _____ Date _____ Time _____				Received by: (Signature) _____ Date _____ Time _____				Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.															



Project Information

Chain of Custody

Page 2 of 2

Client: <u>Desam Production</u> Project: <u>Begonia Petroleum Co</u> Project Manager: <u>Kenneth Sparks</u> Address: _____ City, State, Zip: _____ Phone: _____ Email: _____				Bill To Attention: _____ Address: _____ City, State, Zip: _____ Phone: _____ Email: _____				Lab Use Only Lab WO# <u>E200180</u> Job Number <u>41010007</u> Analysis and Method _____ EPA Program CWA _____ SDWA _____ RCRA _____ State _____ NM CO UT AZ TX _____ Remarks _____			
Report due by: _____ Time Sampled <u>Am 2:13</u> Date Sampled <u>27.10.22</u> Sample ID <u>B.P. 90 - 11</u> No. of Containers <u>11</u> Matrix <u>Soil</u>				Lab Number <u>11</u> DRD/ORD by 8015 _____ GRO/DRO by 8015 _____ BTEX by 8021 _____ VOC by 8250 _____ Metals 5010 _____ Chloride 300.0 _____				TAT 1D _____ 2D _____ 3D _____ Standard _____ State _____ NM CO UT AZ TX _____ Remarks _____			
Additional Instructions: _____				Relinquished by: (Signature) <u>[Signature]</u> Date <u>27.10.22</u> Time <u>1:30 PM</u> Received by: (Signature) <u>[Signature]</u> Date <u>7/2/22</u> Time <u>13:42</u> Relinquished by: (Signature) _____ Date _____ Time _____ Received by: (Signature) _____ Date _____ Time _____				Lab Use Only Received on Ice: <u>W/N</u> T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>			
Sample Matrix: S - Soil, Sl - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.				Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____							



Envirotech Analytical Laboratory

Printed: 7/27/2022 3:48:53PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Dugan Production Corp.	Date Received:	07/27/22 13:42	Work Order ID:	E207186
Phone:	505-486-6207	Date Logged In:	07/27/22 15:46	Logged In By:	Alexa Michaels
Email:	kevin.smaka@duganproduction.com	Due Date:	08/03/22 17:00 (5 day TAT)		

Chain of Custody (COC)

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

Carrier: Mario UlibarriComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

WGS84
±16ft

36.78333, -108.28327

ft
±10ft

5641

°T
±12

S182



Sep22 11:29 AdHoc

9 E Murray Dr, Farmington NM 87401, US © 01-Sep-22 11:29:01



WGS84
±16ft

36.78282, -108.28332

M^{ft}
±11ft

5642

°T
±12

N6

Sep22 11:30 Ad-hoc
Irrmington NM 87401, United States © 01-Sep-22 11:30:15

WGS84
±16ft

36.78290, -108.28297

ft
±11ft

5637

°T
±12

NW299



Sep22 11:31 Ad-hoc

irmington NM 87401, United States © 01-Sep-22 11:31:02

WGS84
±1 ft

36.78317, -108.28315

ft
±17 ft

5639

°T
±12

SW233



Sep22 11:32 Ad-hoc
Farmington NM 87401, United States © 01-Sep-22 11:32:04

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 150731

CONDITIONS

Operator: DUGAN PRODUCTION CORP PO Box 420 Farmington, NM 87499	OGRID: 6515
	Action Number: 150731
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Accepted for the record. Incident on tribal land.	5/19/2023