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	nAB1425342247
District RP	2RP-2479
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources, Inc.	OGRID 7377
Contact Name Robert Asher	Contact Telephone 575-748-4217
Contact email bob_asher@eogresources.com	Incident # *(assigned by OCD)* *nAB1425342247*
Contact mailing address 104 S. 4th Street, Artesia, NM 88210	

Location of Release Source

Latitude 32.60060 Longitude -104.54733
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: State CO SWD System	Site Type: Tin Horn
Date Release Discovered: 08/25/2014	API# 30-015-21705

Unit Letter	Section	Township	Range	County
L	1	20S	24E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name: K. Wilbanks*)

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) 400	Volume Recovered (bbls) 200
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:
Please refer to the attached original C-141 form for 2RP-2479 for cause of release and immediate action steps. EOG Resources is submitting for closure via the new form to formally close out this incident. All sampling and correspondence is also attached.

Form C-141
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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? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? An unauthorized release of a volume, excluding gases, of 25 barrels or more.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Mike Bratcher/NMOCD by email (8/26/2014).	

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: Robert Asher Title: Environmental Supervisor

Signature: Date: 11/16/2021

email: bob_asher@eogresources.com Telephone: 575-748-4217

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	nAB1425342247
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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?	_____ (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.

State of New Mexico
Oil Conservation Division

Incident ID	nAB1425342247
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Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

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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: _____

Form C-141
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State of New Mexico
Oil Conservation Division

Incident ID	nAB1425342247
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Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

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

☒ Description of remediation activities

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

Printed Name: Robert Asher Title: Environmental Supervisor

Signature: Date: 11/16/2021

email: bob_asher@eogresources.com Telephone: 575-748-4217

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: Bradford Billings Date: 01/24/2022

Printed Name: Bradford Billings Title: E.Spec.A

EOG Resources, Inc.
Artesia Division Office
104 S. 4th Street
Artesia, N. M. 88210

EOG Resources, Inc.

Closure Report

State CO SWD System

30-015-21705

Section 1, T20S-R24E, UL J

Eddy County, New Mexico

11/16/2021

2RP-2479

nAB1425342247

Table of Contents

Figures:

I. Background

On August 25, 2014, EOG Resources (formerly Yates Petroleum Corp) submitted to the NMOCD District II office a Form C-141 for a release of approximately 400 B/PW with 200 B/PW recovered. The total affected area was approximately 500 feet by 1500 feet area (off of the east side of the battery). The release was from a 12" main line at a series of three tin horns. The impacted area from the oil skim in being excavated and hauled to an NMOCD approved facility. Initial delineation samples were taken (9/4/2014) and sent to an NMOCD approved laboratory (9/12/2014, results enclosed). After the impacted soils were excavated, the NMOCD requested further delineation sampling that was conducted on May 27, 2015.

The location is approximately 25 miles south of Artesia, NM. Highway 285 (17 miles south), Rock Daisy Road (approximately 8 miles west) and 0.25 miles east from Sawbuck Road.

Area surface geology ranges from Cenozoic to Paleozoic. The groundwater of record is listed on the ChevronTexaco Trend and shows depth to groundwater approximately 175 feet making the site ranking for this site a zero (0). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is zero (0) based on the as following:

Depth to ground water	>100'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

By request of the NMOCD II, on June 30, 2015 the Oil City Well (Section 35, T19S-R24E) was sound tested and elevations for the well and excavation were plotted by David Boyer, Safety & Environmental Solutions (see Figure 3).

The area consists of soils that are of a loamy topsoil and are interspersed with clay seams providing a low permeability barrier to retard vertical percolation of contaminants into the subsurface (approximately twenty (20) feet below the surface based on attached analytical reports).

II. Description of all remedial actions and closure

EOG Resources Inc. (formerly Yates Petroleum Corporation) conducted the below remediation work from the NMOCD approved scope of work for **2RP-2479** and **2RP-2284**.

Scope of Work

Based on the 5/27/2015 analytical results, (see attached diagrams), Yates excavated one (1) foot of impacted soils within release area A#1, which were taken to an approved NMOCD facility. No further actions were taken based on the June 16, 2015 on-site meeting with NMOCD and Yates.

A ten (10) foot perimeter was excavated from sample points A#2, A#3, B#1, B#3, C#2, C#3, D#2, D#3, E#2, F#2 & G#2 at a depth of three (3) feet and those soils were taken to an approved NMOCD facility. Area G#1 had 3 feet of soils excavated/stockpiled).

Sidewall samples were obtained and field titrator test strips for Chlorides were used to determine chloride levels. If the test strips recorded chlorides 2000 ppm or below (indicating a decreasing trend in chlorides based on the 5/27/2015 analytical results), no further excavating was to be conducted. If chlorides were above 2000 ppm, further impacted perimeter soils were removed until test strips showed chlorides at 2000 ppm or below (indicating a decreasing trend in chlorides based on the 5/27/2015 analytical results).

Based on the 5/27/2015 analytical results, no further analytical testing of TPH, BTEX and chlorides were conducted outside the excavation.

Yates lined the excavated areas (A#2, A#3, B#1, B#3, C#2, C#3, D#2, D#3, E#2, F#2, G#1 & G#2) with a 20 millimeter liner and backfilled with two (2) feet of caliche and three (3) feet of clean, like topsoil to grade and contour. No excavation or delineation actions were to be taken in the following areas (B#2, C#1, D#1, E#1, E#3, F#1, F#3 & G#3). Yates excavated, lined and backfilled each area separately to prevent any open excavations since livestock were in the area.

Final delineation sampling was conducted on 12/23/2015 (see Figure 1). When all work was completed, a C-141 Final Report, was submitted to the NMOCD for closure of the site. The area was reseeded per the surface owners preferred seed mixture.

Figure 1

Scaled Site Map and Sampling Diagram

Figure 2

Photographs of the site
(Release & Initial Excavation)

Figure 3

Report of Groundwater Survey

Figure 4

Laboratory analysis after initial excavation

Figure 5

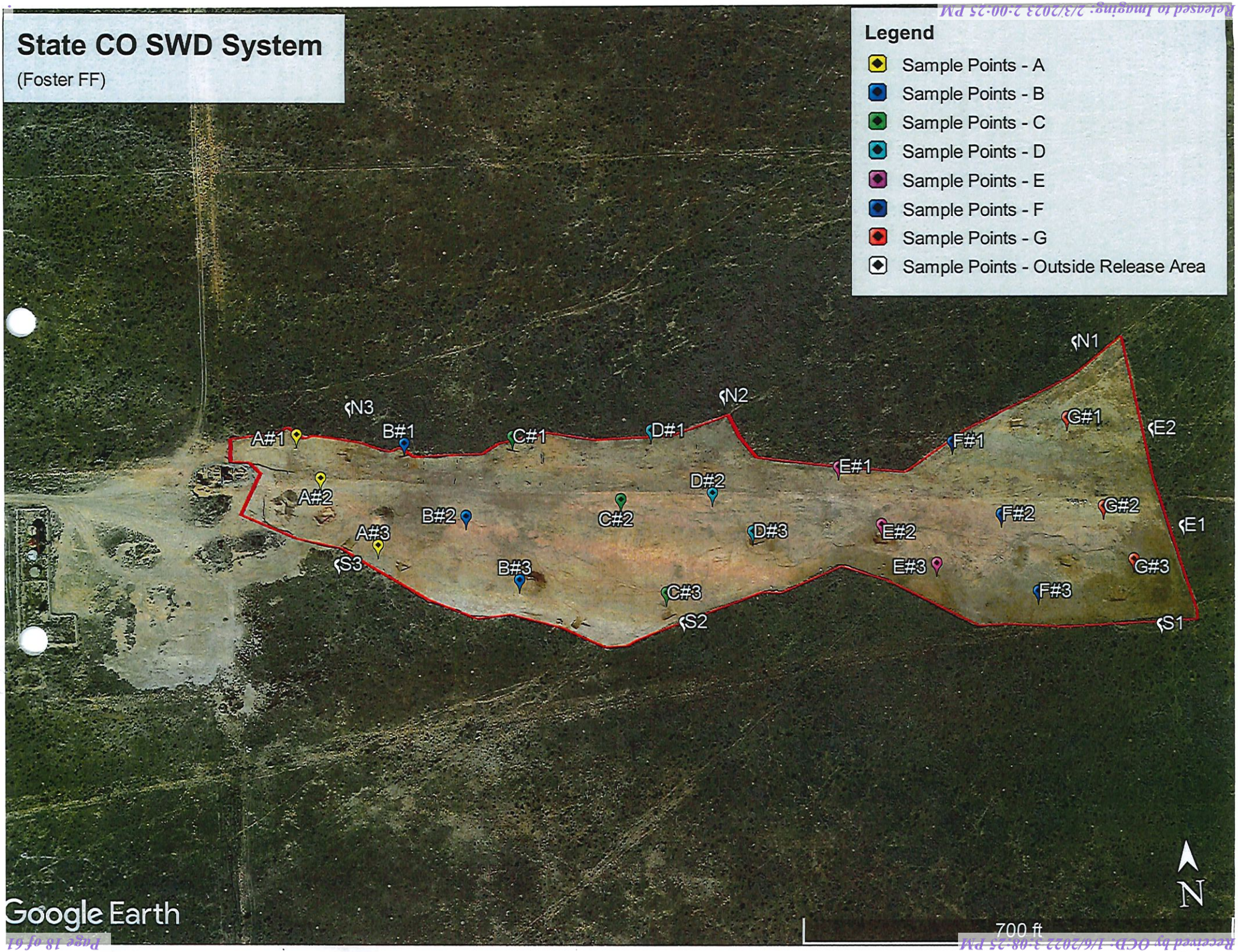
Laboratory analysis of Final Sampling

Figure 6

Release Notification, Form C-141

Figure 7

Closure, Form C-141



08/25/2014

08/25/2014

ATES
PETROLEUM
CORPORATION
(505) 748-147
FOSTER "FF" BATTERY
NWSW
Sec.1 - T20S - R24E
Eddy Co. New Mexico
Fee Lease
08/25/2014

08/25/2014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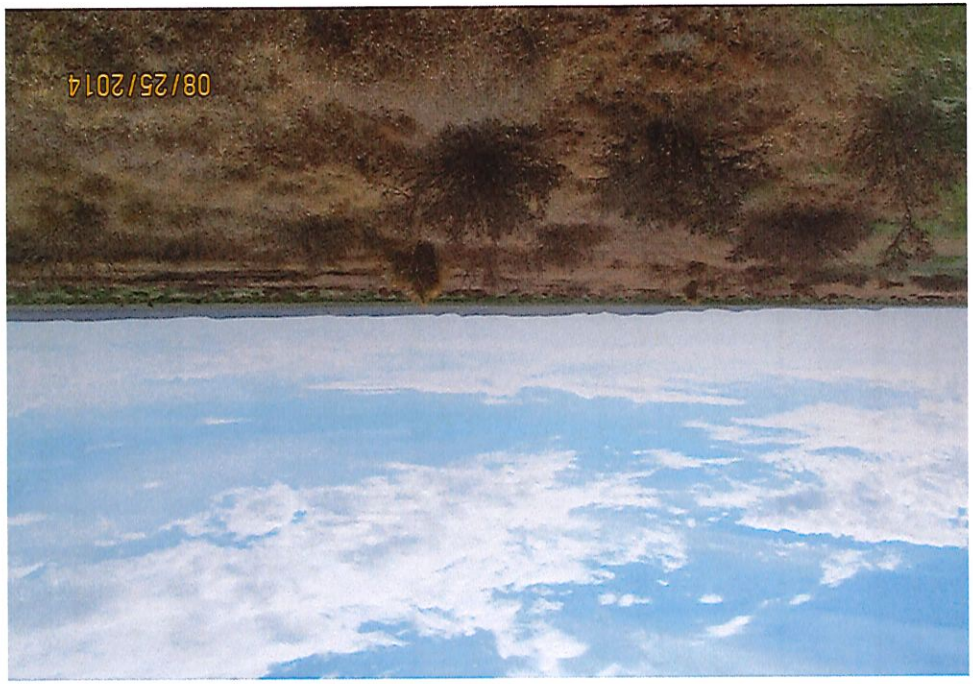
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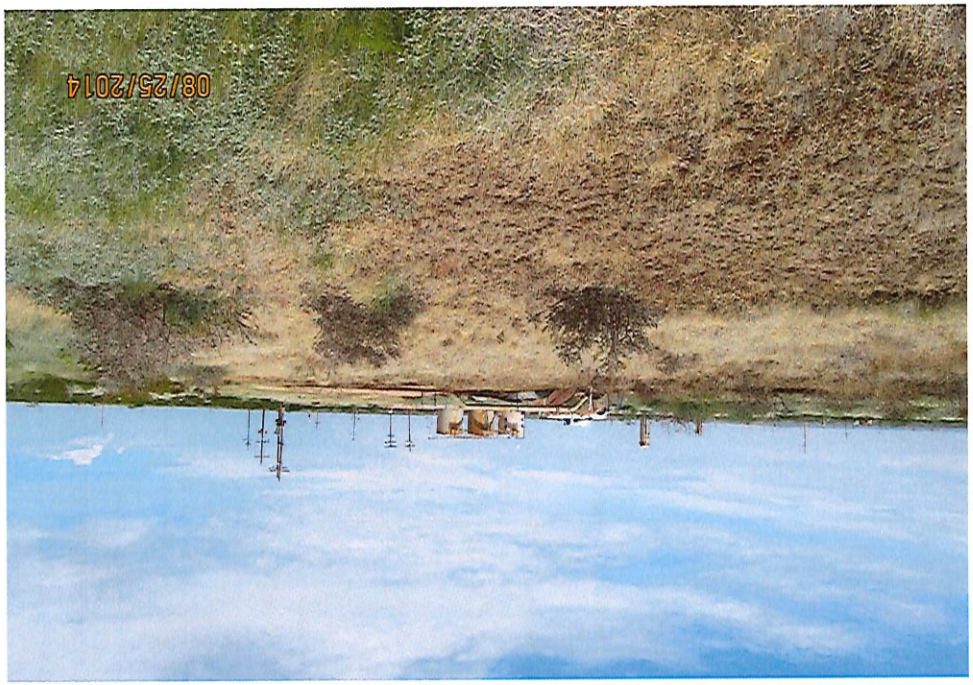
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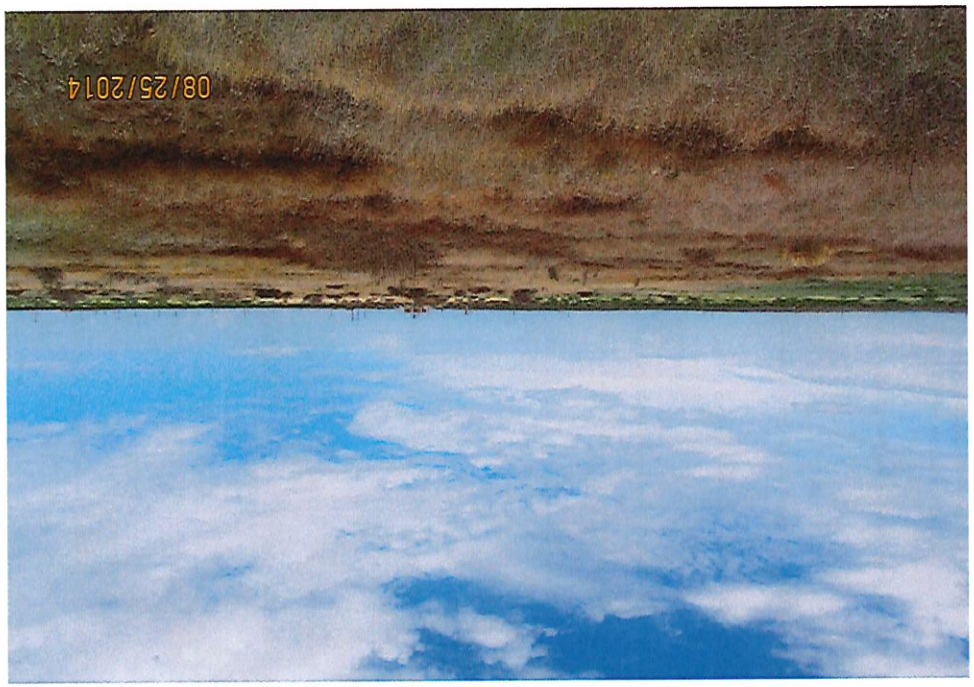
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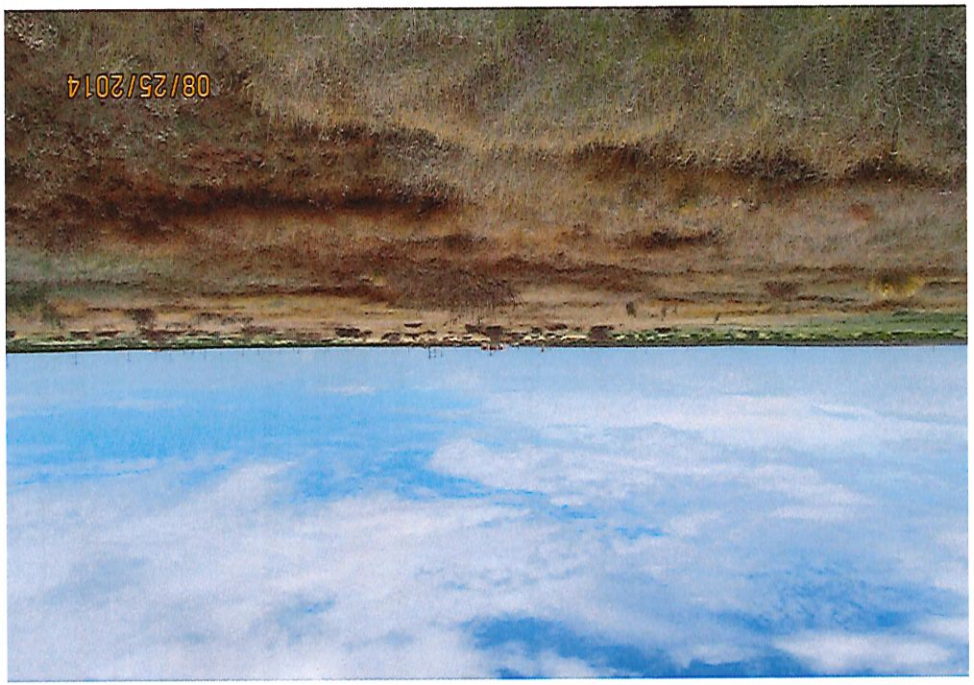
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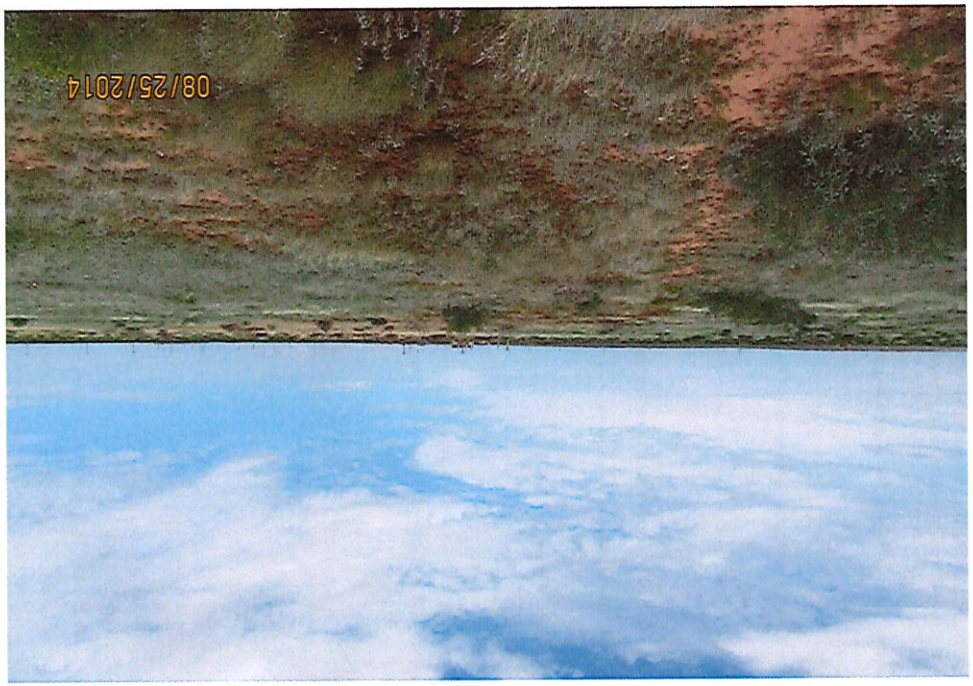
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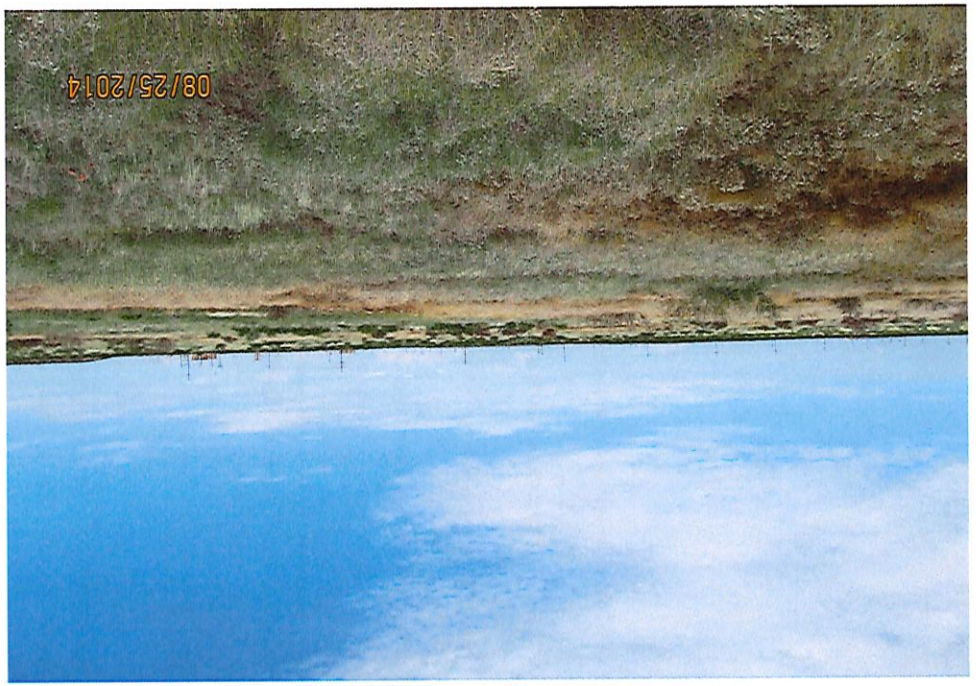
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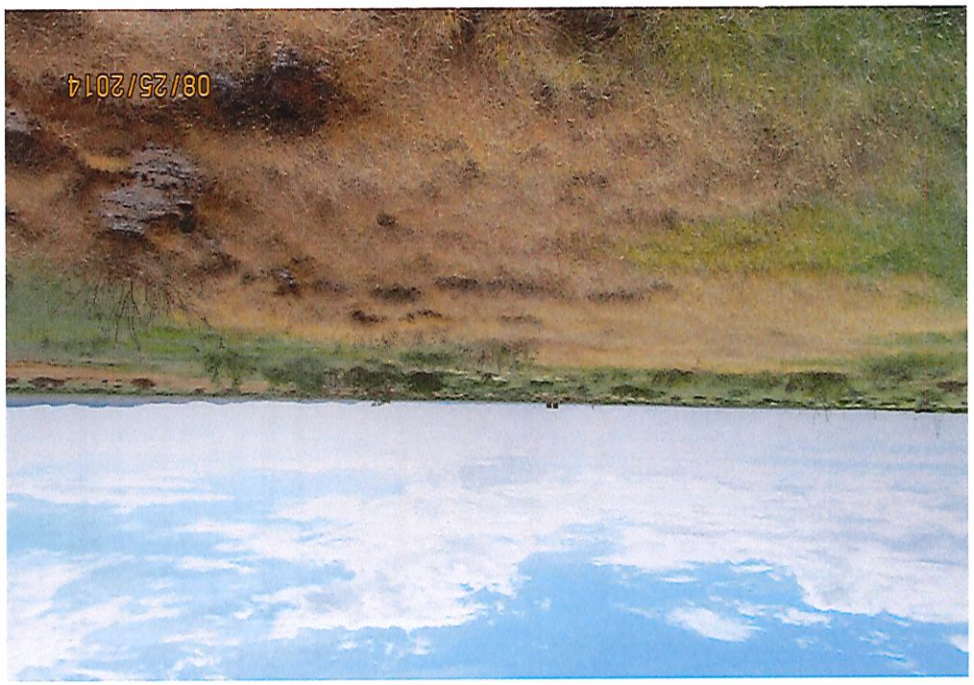
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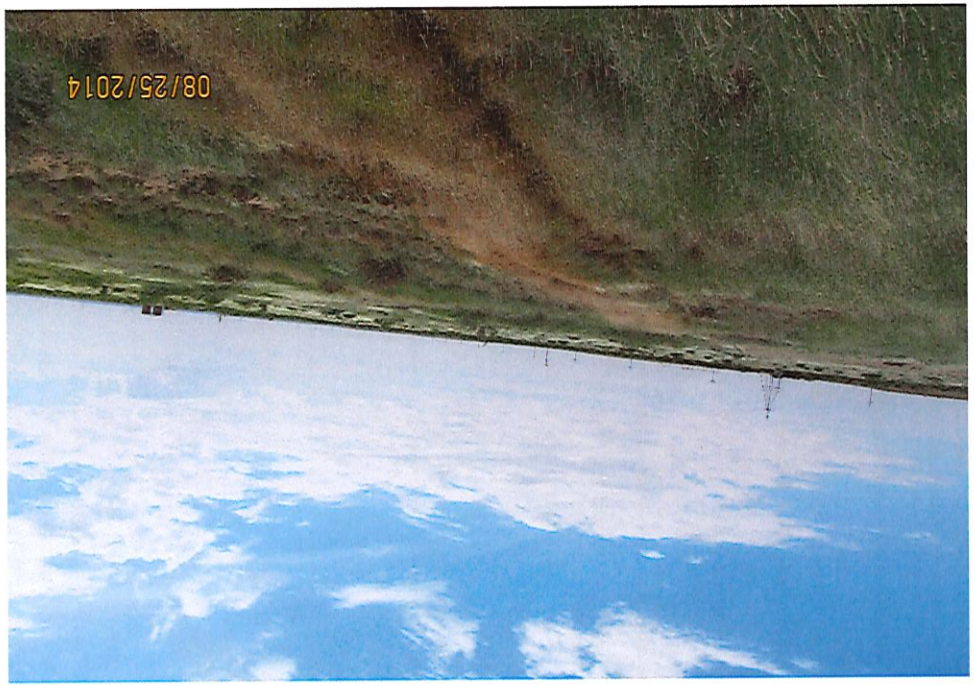
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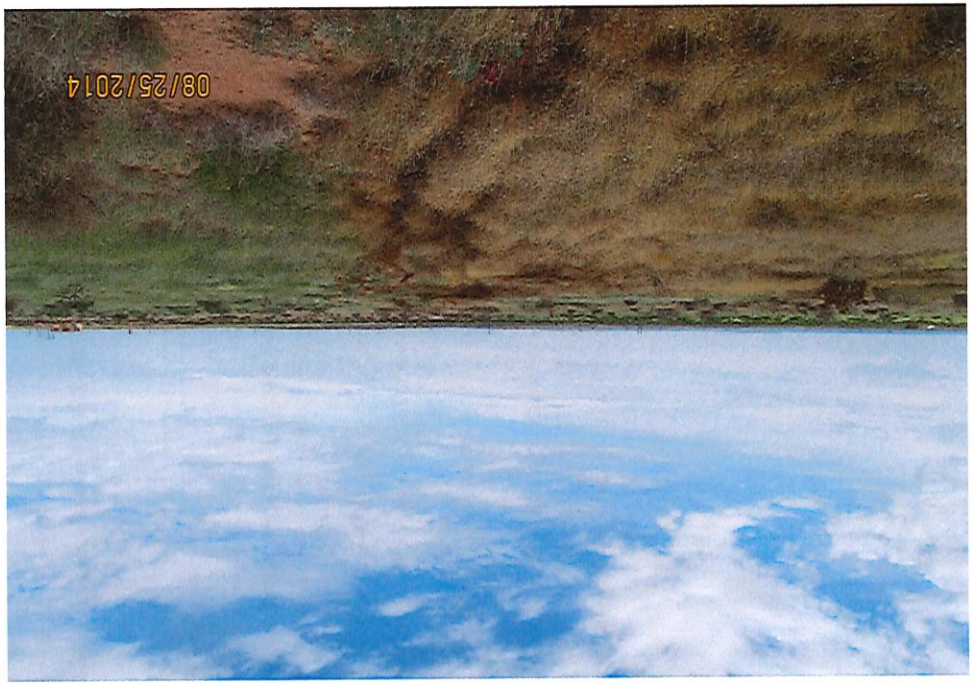
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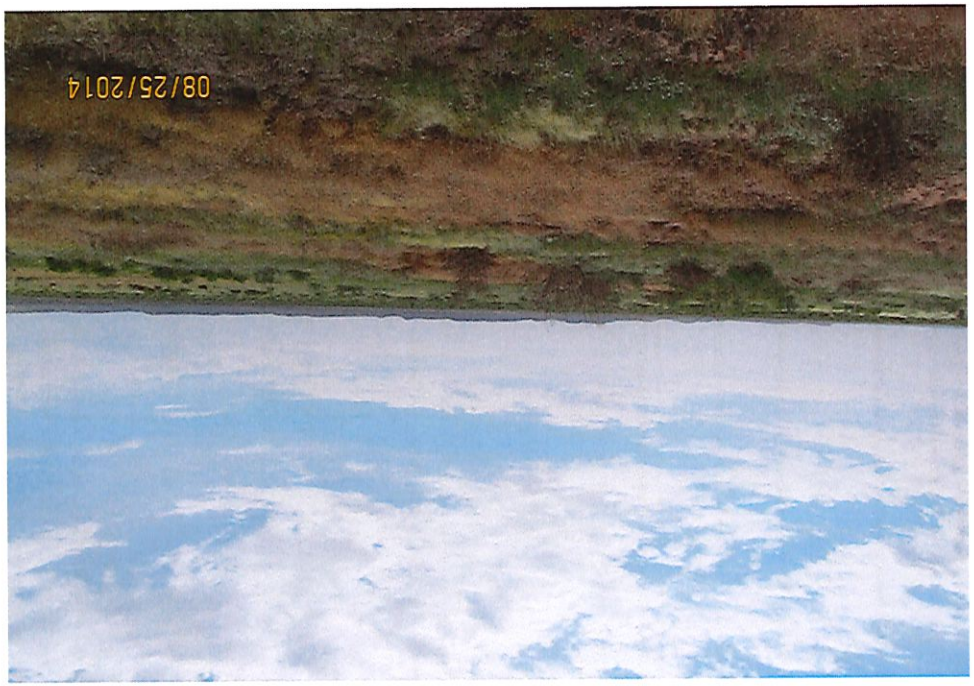
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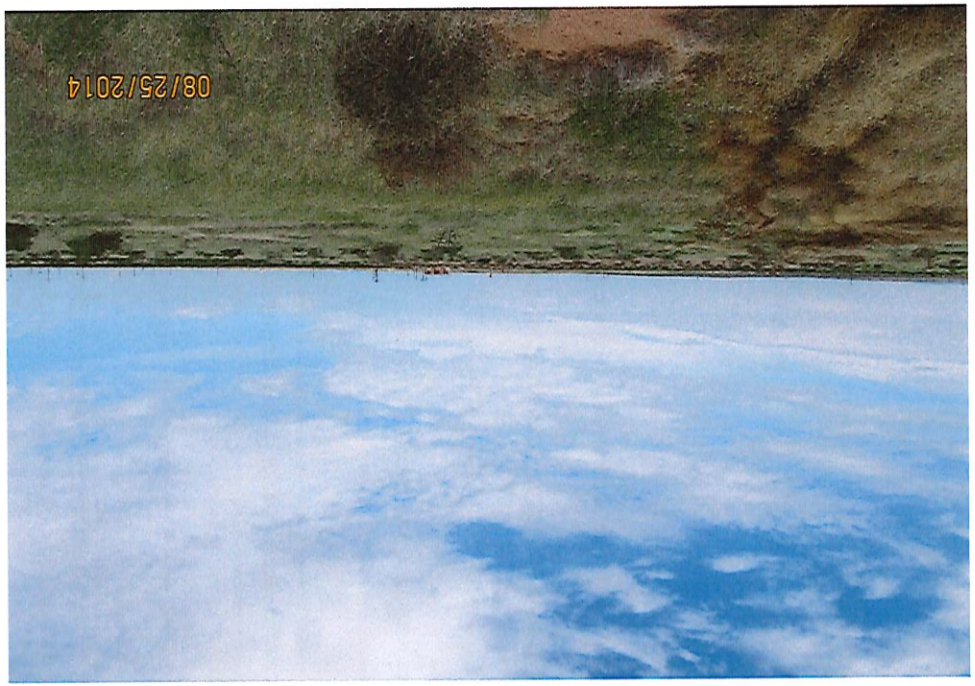
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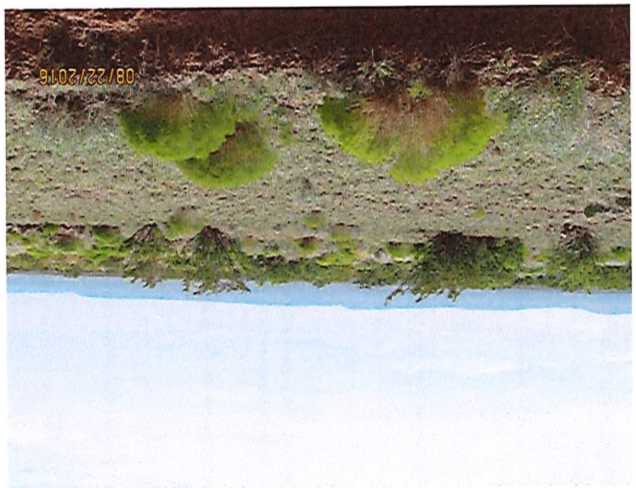
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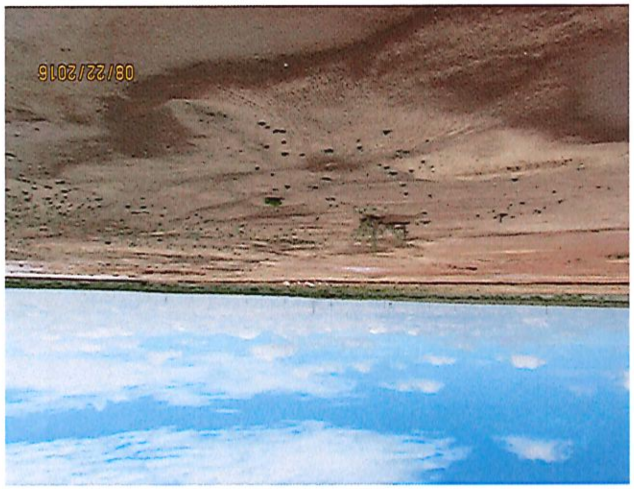
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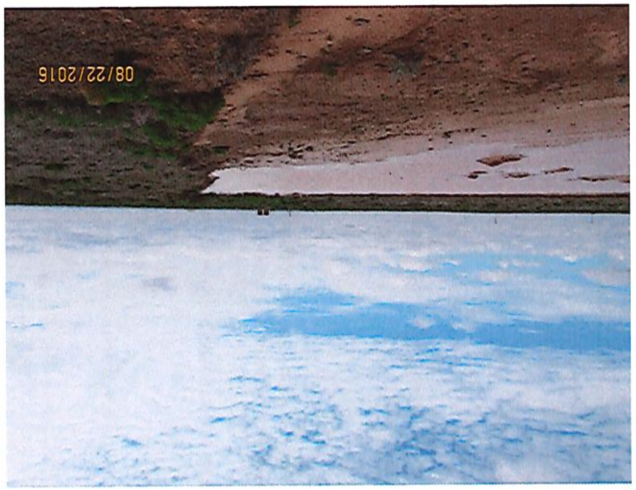
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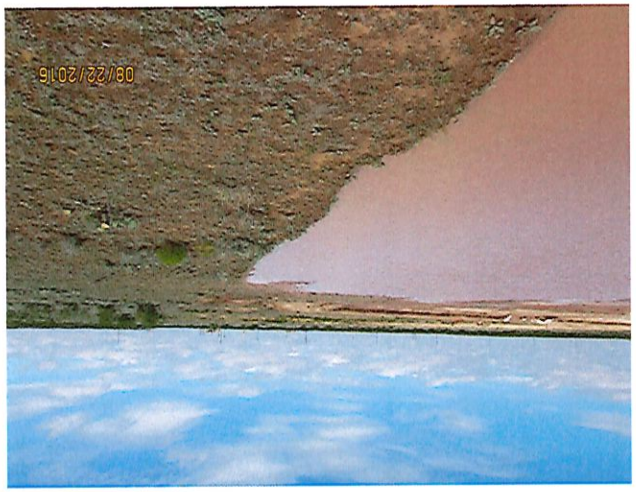
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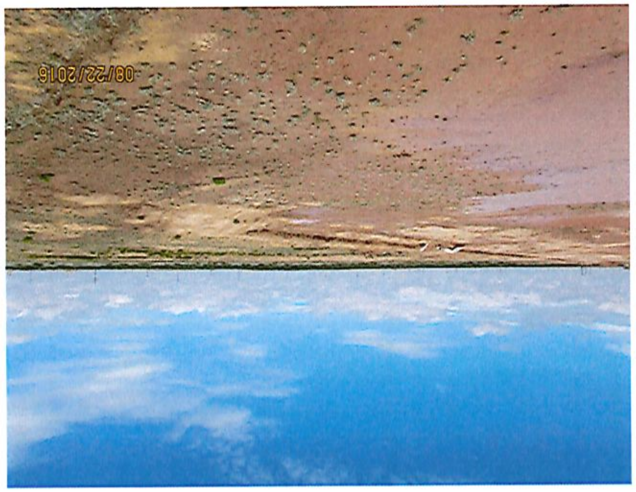
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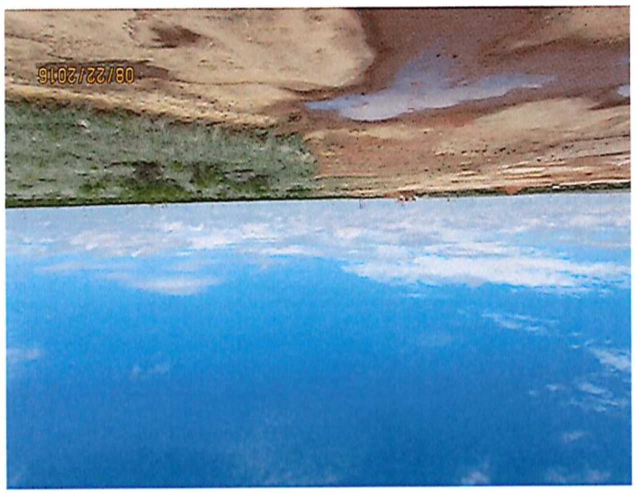
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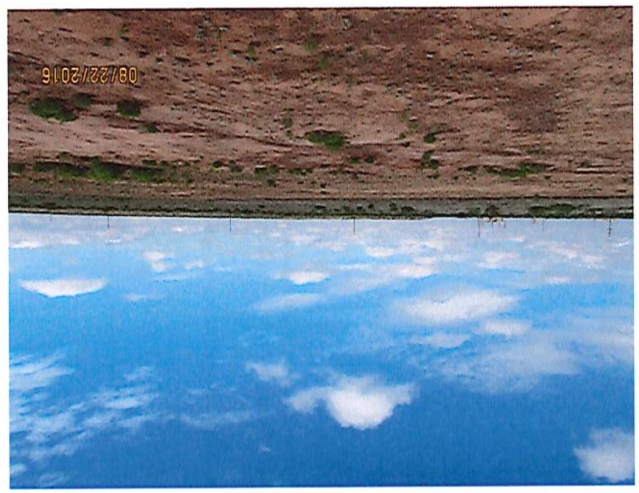
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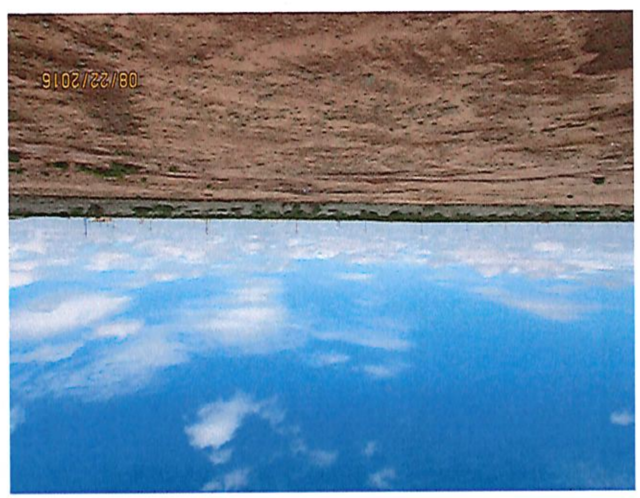
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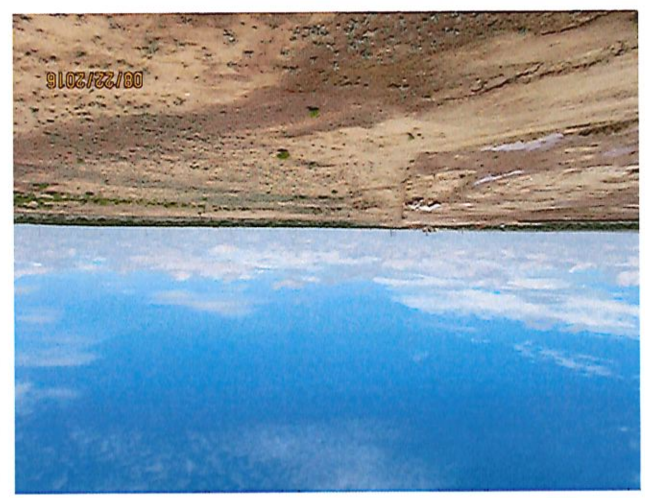
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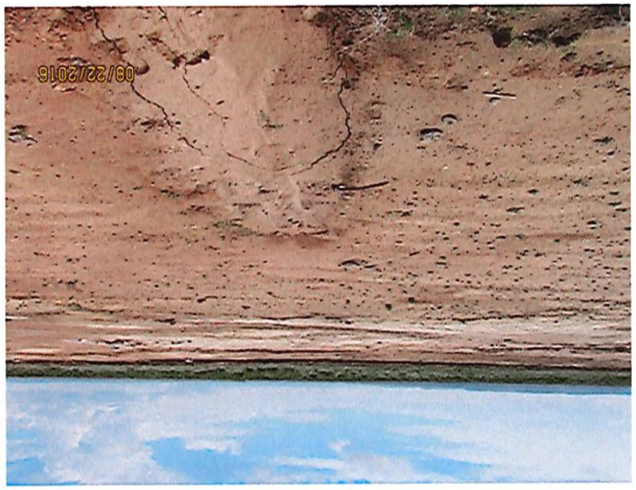

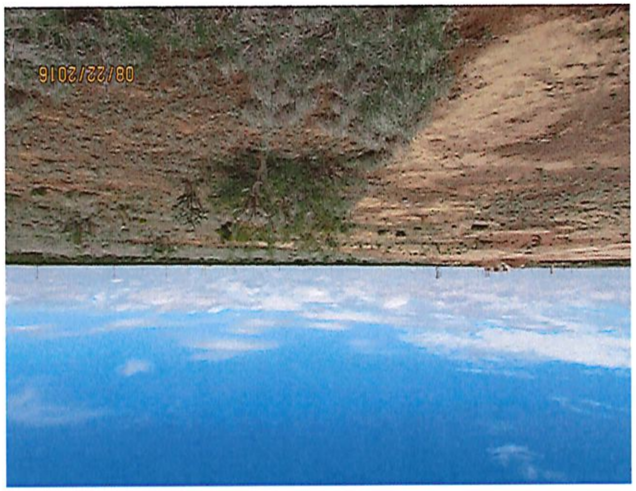



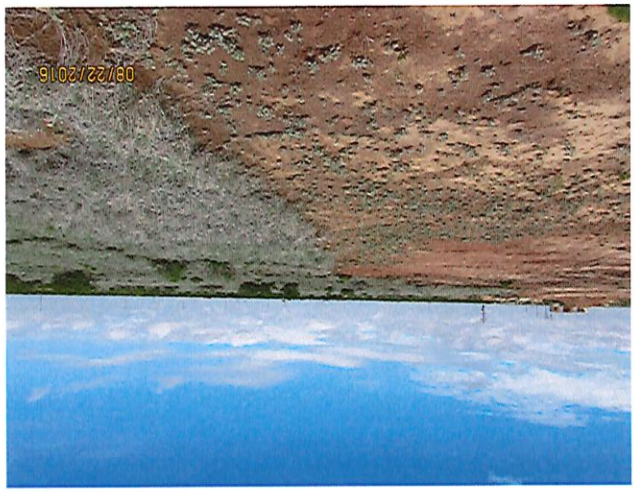
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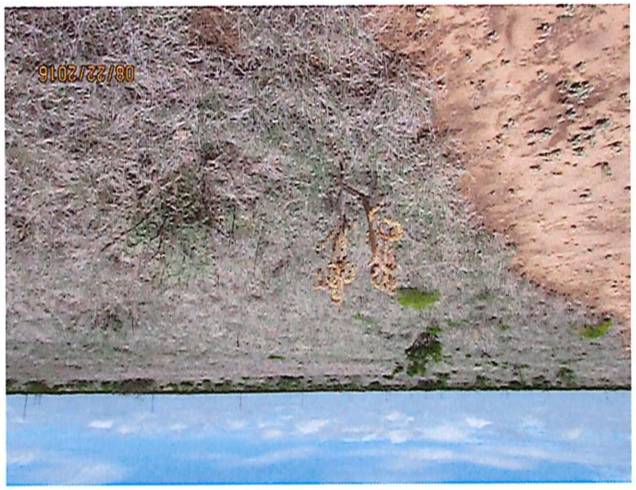
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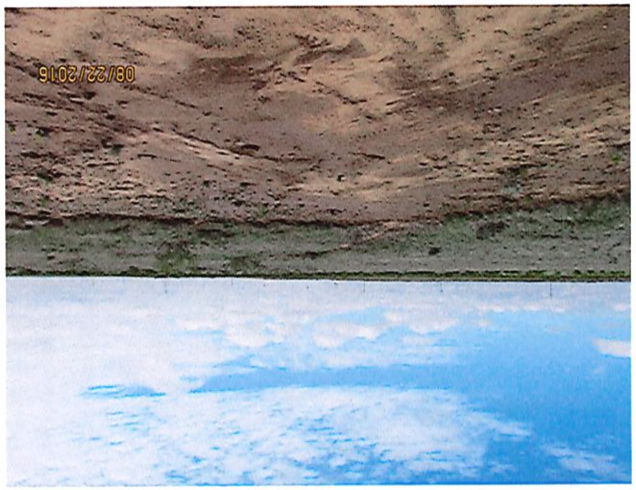
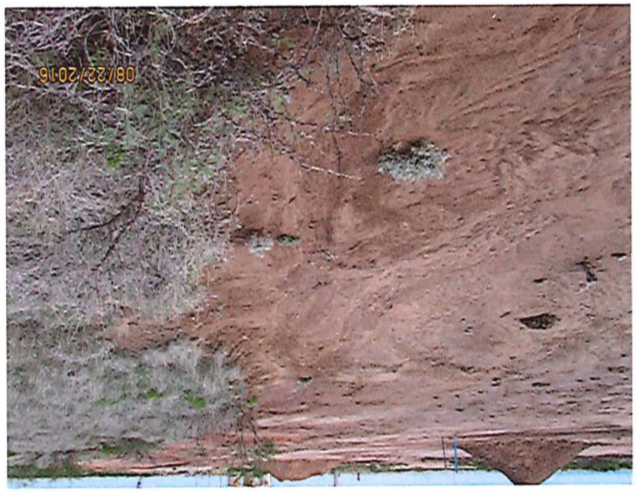
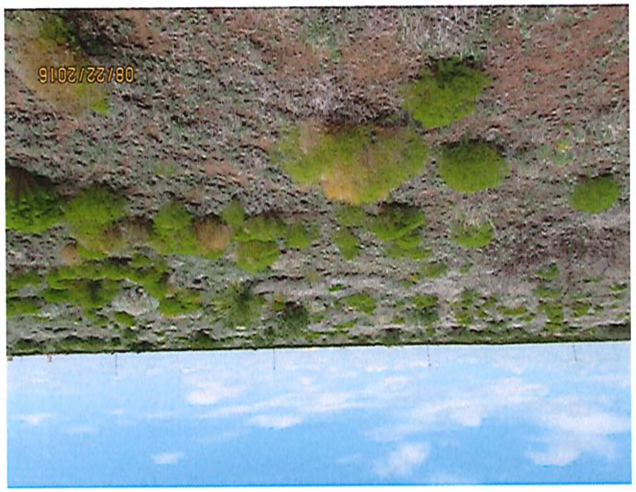
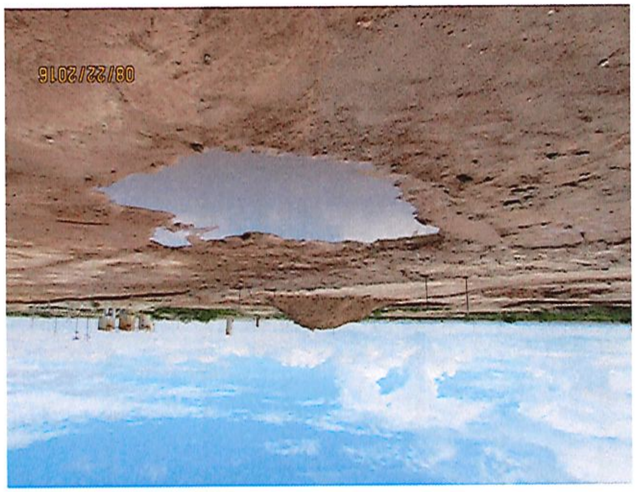
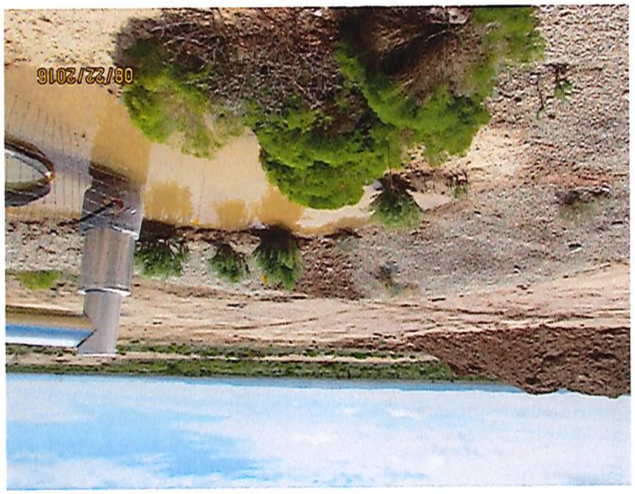

08/22/2016

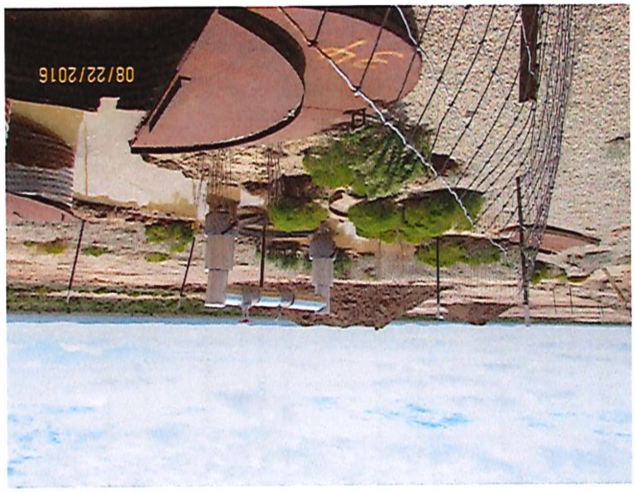






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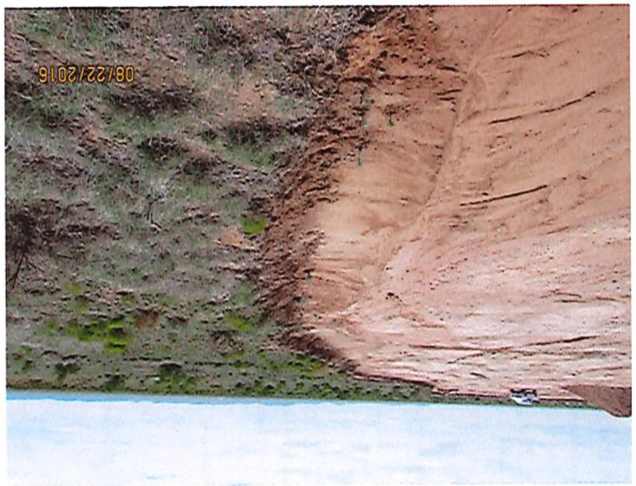
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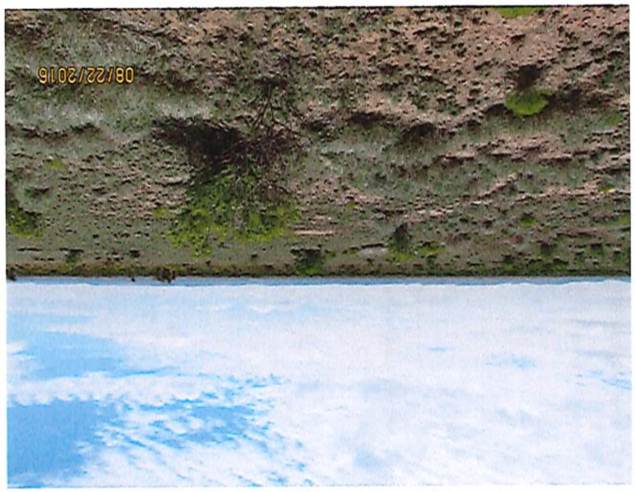
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08/22/2016

Safety & Environmental Solutions
703 E. Clinton, P.O. Box 1613
Hobbs, New Mexico 88241
(575) 397-0510
Fax (575) 393-4388

Memorandum

Date: July 30, 2015

To: Robert Asher, NM Environmental Regulatory Supervisor, Yates Petroleum Corporation

From: David G. Boyer, P.G.

RE: Report of Groundwater Survey, Vicinity of Yates Foster "FF" Battery, Eddy County, NM

Background

At the request of Yates Petroleum I was asked to perform groundwater elevation measurements in the vicinity of the Yates Foster "FF" battery located in NW/4, SW/4, Section 1, Township 20 South, Range 24 East. At that location a release of oilfield produced water occurred which traveled approximately 1,450 feet east of the release location. To determine if the release presents a threat to groundwater and to establish remediation criteria, the NM Oil Conservation Division requested that Yates establish the depth to groundwater in the vicinity of the location. To that end I visited the location and that of a nearby water well on July 13, 2015.

Hydrogeologic Setting

The two geologic formations that provide water in the vicinity of the site are the San Andres formation and the overlying Chalk Bluff formation*. The limestone member of the San Andres formation in Eddy County is composed of limestone, dolomitic limestone, and dolomite; color ranges from gray to light tan. Solution cavities in the limestone range from fraction of an inch to several feet in diameter. The formation outcrops about ten miles west of the location and dips eastward under younger sedimentary rocks. The formation with a thickness of about 1,000 feet is the chief artesian aquifer in the Roswell basin.

The Chalk Bluff formation is present at the surface at the location. From base to top it consists of the Queen sandstone member, the Seven Rivers gypsiferous member and the Three Twins member consisting of evaporates, redbeds and dolomitic limestone. The formation outcrops east of the San Andres until it is covered by alluvium nearer the Pecos River. The thickness of the formation increases from west to east as the dip of the formation is greater than that of the surface slope. The thickness near Lakewood, west of former Lake McMillan, is about 400 to 500 feet. Groundwater of any consequence is found only the basal Queen sandstone member.

In the vicinity of the site two wells were located with drilling information indicative of completion in Queen sandstone member. The first, identified on a USGS topographic map as the Old Ball well is located approximately 2,000 feet east-northeast of the release point and was drilled in

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* Hydrogeologic information obtained from:
Geology and Ground-Water Resources of Eddy County, New Mexico, Ground-Water Report 3, New Mexico Bureau of Mines and Mineral Resources, 1952

New Mexico Office of the State Engineer (SEO), Water Rights Reporting System

September 1966. The available drilling information is incomplete but lists the water bearing stratifications as sandstone/gravel/conglomerate at a depth from 279 to 282 below the surface. Depth to water upon completion is reported as 273 feet.

The second well is located approximately 2.0 miles northeast of the release point and is identified as the Black Muley Mill well. It was first drilled to 218 feet in 2005 and repaired and deepened to 330 feet in August 2007. The drilling log shows mainly sand and gravel as the water bearing strata from 259 to 326 feet with several zones of hard sandstone up to 4 feet thick. Depth to water upon completion was 250 feet. The lithology of the non-water bearing zones are identified as caliche, clay, limestone and sand and gravel. The earlier drilling log from 2005 lists the zone from 100 to 218 as "broken anhydrite with red clay stringers." Above that to the surface the material is mainly red clay and gray/white rock anhydrite with brown and gray caliche immediately below surface topsoil.

Work Performed

Prior to the July 13 site visit, two water wells were located in the immediate vicinity of the site. They are identified as the Oil City Well and the Old Ball Well. A third well, the Black Muley Mill well is located approximately 2 miles northeast and is included because of the completeness of the driller's logs. Available information on each well is presented in the attached table:

I met Mr. Robert Asher of Yates and we arrived at the location of the Oil City well about 11:00 a.m. State Engineer information had the depth of the well at 300 feet but no other information was available from their online data base. Upon arrival we noted the well casing was at ground level with a rock over a piece of sheet metal. There was no protection from runoff in the event of a heavy rainfall. We inserted a water level probe and found water at 54.61 feet below ground surface. We measured the depth of the well and found it plugged at 56.2 feet. The bottom was relatively solid and no mud was observed on the probe. The 1.6 feet of water in the well is most certainly surface drainage from recent very heavy rainfall in the area.

We then traveled to the release point and GPS measurements were taken at that location and eastward to the farthest distance from the release point, a distance of about 1,450 feet.

Results

Though no reliable groundwater level elevations could be made in the Oil City well, the 1966 water level elevation in the Old Ball well was 3,329 feet (3,602-273=3,329). The elevation of the low point of the spill release is 3,598 feet. The elevation difference between the 1966 water level and the low point of the spill release is 269 feet. Given the current drought conditions it is unlikely that a water level in this well, if available, would be higher.

Conclusions

Based on the above survey, depth to groundwater at the spill location is very likely to be in excess of 269 feet below land surface. This value for depth to water is the best available for this location given current information. Both of the wells nearest the release location are out of service and nonproductive. Additionally, the composition, thickness and low permeability of the overlying rock sediments make the likelihood of groundwater impact from this one-time release of produced water extremely remote.

DGB/DGB

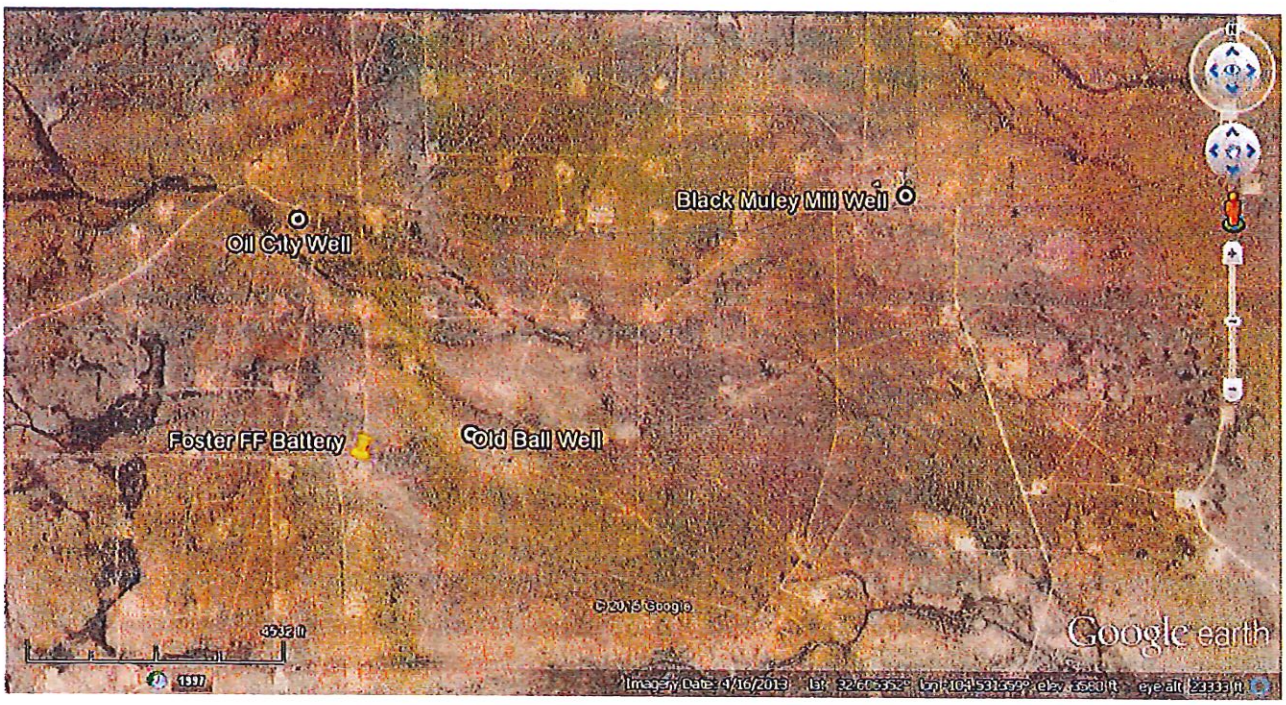
Yates Foster "FF" Battery Data Tables

Name	State Engineer No.	Latitude	Longitude	Elevation (ft.) (Google Earth)	Qtr, Qtr, Sec, Trn, Rge
Oil City Well	RA 04245	32.612828° N	-104.551294° W	3,643	SE, SE, 35, 19S, 24E
Old Ball Well	RA 05284	32.602450° N	-104.541238° W	3,602	NW, SE, 01, 20S, 24E
Black Muley Mill Well	RA 10826	32.614175° N	-104.515931° W	3,544	NE, SE, 31, 19S, 25E

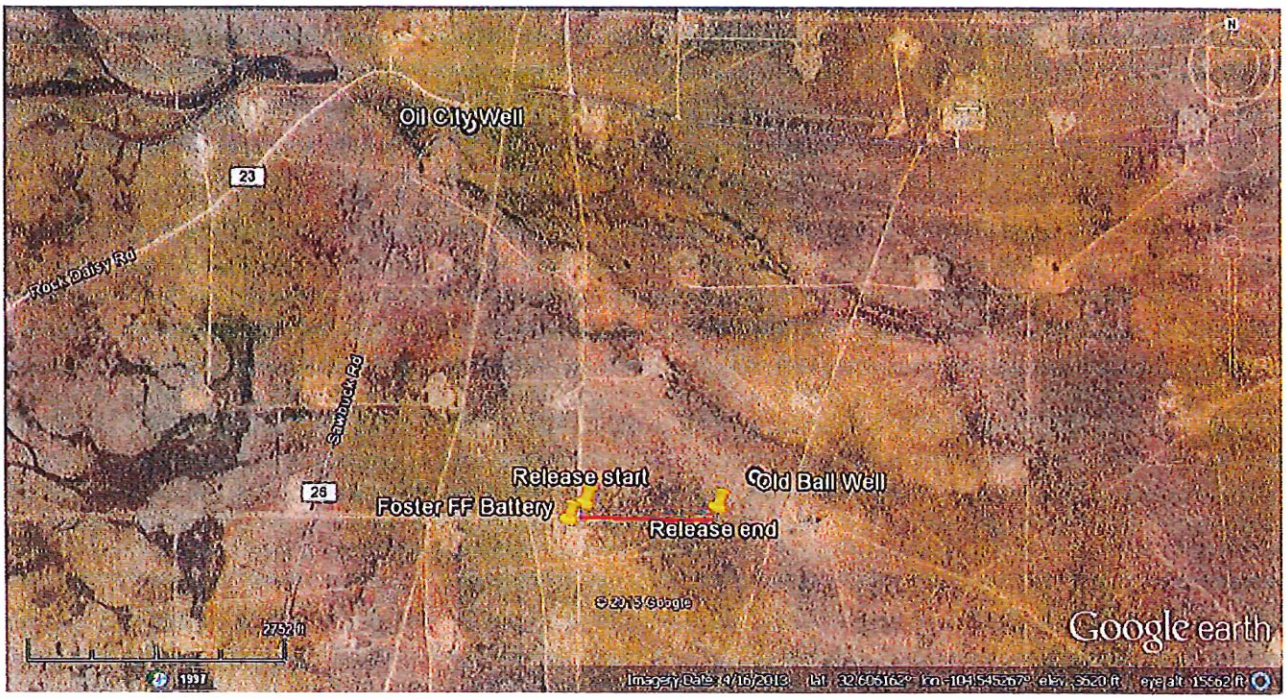
Name	Distance from spill	Depth to Water (ft.)	Reported Depth (ft.)	Water Column (ft.)	Measurement Date	Comment
Oil City Well	4,400 ft. north of release point	- -	300	- -	08/1960	Application date only, no drilling information provided to SEO
		54.61	56.2	1.6	07/13/2015	8-in. diam. Well. Plugged at 56 ft., perched rain water, casing is at ground level.
Old Ball Well	1,975 ft. ENE of release point, 690 ft. NE of end point	273	282	9	09/1966	Information received from Mr. Robert Asher, Yates representative, is that due to issues within the well casing, the well is not currently pumping water and no measurements are possible
Black Muley Mill Well	2.0 miles NE of release point	250	330	80	08/2007	Included only for drilling record and groundwater information

Spill Location Info	Latitude	Longitude	Elevation (ft.) (Google Earth)	Qtr, Qtr, Sec, Trn, Rge
Release Point	32.601190° N	-104.547518° W	3,613	NW, SW, 01, 20S, 24E
End Point	32.601072° N	-104.542801° W	3,598	NE, SW, 01, 20S, 24E

Water Well Locations, Vicinity of Foster FF Battery, Eddy County, New Mexico



Water Wells in Proximity to Foster FF Battery Release Location



"Oil City" Water Well July 13, 2015

Well location under sheet metal piece

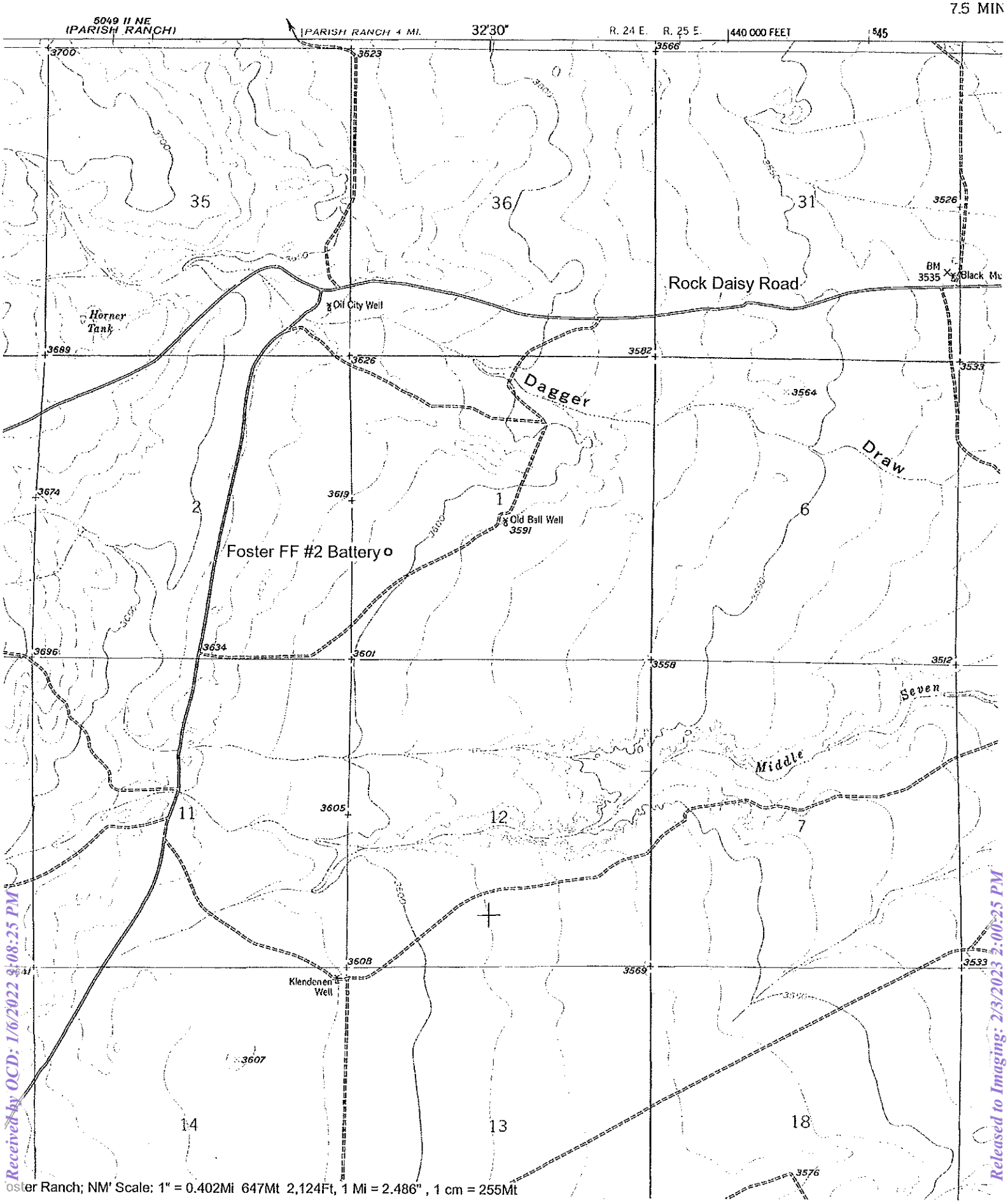
Top of open well at ground surface

Open well. Water tank in left background receives water from another source

Horse corral at water well location

Horse corral at water well location

FOSTE
7.5 MIN



oster Ranch; NM' Scale: 1" = 0.402Mi 647Mt 2,124Ft, 1 Mi = 2.486" , 1 cm = 255Mt

Analytical Report- H501382 (Cardinal)	Sample Area	S e Date	Sample Type	Depth	rides
A#1 - 1.0	Release Area	5/28/2015	Grab/Trackhoe	1' (2' BSL)	4400
A#1 - 2.0	Release Area	5/28/2015	Grab/Trackhoe	2 (3' BSL)	2880
A#1 - 3.0	Release Area	5/28/2015	Grab/Trackhoe	3' (4 'BSL)	2560
A#1 - 4.0	Release Area	5/28/2015	Grab/Trackhoe	4' (5' BSL)	304
A#1 - 5.0	Release Area	5/28/2015	Grab/Trackhoe	5' (6' BSL)	64
A#1 - 6.0	Release Area	5/28/2015	Grab/Trackhoe	6' (7' BSL)	544
A#1 - 8.0	Release Area	5/28/2015	Grab/Trackhoe	8' (9' BSL)	64
A#1 - 10.0	Release Area	5/28/2015	Grab/Trackhoe	10' (11' BSL)	144
A#1 - 12.0	Release Area	5/28/2015	Grab/Trackhoe	12' (13' BSL)	112
A#1 - 14.0	Release Area	5/28/2015	Grab/Trackhoe	14' (15' BSL)	32
A#1 - 16.0	Release Area	5/28/2015	Grab/Trackhoe	16' (17' BSL)	416
A#1 - 18.0	Release Area	5/28/2015	Grab/Trackhoe	18' (19' BSL)	784
Analytical Report- H501372 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	Chlorides
A#2 - 1.0	Release Area	5/27/2015	Grab/Trackhoe	1' (3' BSL)	7100
A#2 - 2.0	Release Area	5/27/2015	Grab/Trackhoe	2 (4' BSL)	4700
A#2 - 3.0	Release Area	5/27/2015	Grab/Trackhoe	3' (5 'BSL)	6080
A#2 - 4.0	Release Area	5/27/2015	Grab/Trackhoe	4' (6' BSL)	4160
A#2 - 5.0	Release Area	5/27/2015	Grab/Trackhoe	5' (7' BSL)	2640
A#2 - 6.0	Release Area	5/27/2015	Grab/Trackhoe	6' (8' BSL)	1880
A#2 - 8.0	Release Area	5/27/2015	Grab/Trackhoe	8' (10' BSL)	1840
A#2 - 10.0	Release Area	5/27/2015	Grab/Trackhoe	10' (12' BSL)	624
A#2 - 12.0	Release Area	5/27/2015	Grab/Trackhoe	12' (14' BSL)	288
A#2 - 14.0	Release Area	5/27/2015	Grab/Trackhoe	14' (16' BSL)	320
A#2 - 16.0	Release Area	5/27/2015	Grab/Trackhoe	16' (18' BSL)	160
A#2 - 18.0	Release Area	5/27/2015	Grab/Trackhoe	18' (20' BSL)	48
Analytical Report- H501373 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	Chlorides
A#3 - 1.0	Release Area	5/27/2015	Grab/Trackhoe	1' (3' BSL)	6400
A#3 - 2.0	Release Area	5/27/2015	Grab/Trackhoe	2 (4' BSL)	7280
A#3 - 3.0	Release Area	5/27/2015	Grab/Trackhoe	3' (5 'BSL)	5120
A#3 - 4.0	Release Area	5/27/2015	Grab/Trackhoe	4' (6' BSL)	5040
A#3 - 5.0	Release Area	5/27/2015	Grab/Trackhoe	5' (7' BSL)	5440
A#3 - 6.0	Release Area	5/27/2015	Grab/Trackhoe	6' (8' BSL)	3440
A#3 - 8.0	Release Area	5/27/2015	Grab/Trackhoe	8' (10' BSL)	1920
A#3 - 10.0	Release Area	5/27/2015	Grab/Trackhoe	10' (12' BSL)	1090
A#3 - 12.0	Release Area	5/27/2015	Grab/Trackhoe	12' (14' BSL)	786
A#3 - 14.0	Release Area	5/27/2015	Grab/Trackhoe	14' (16' BSL)	1020
A#3 - 16.0	Release Area	5/27/2015	Grab/Trackhoe	16' (18' BSL)	304
A#3 - 18.0	Release Area	5/27/2015	Grab/Trackhoe	18' (20' BSL)	80

Site Ranking is Zero (0), DTGW >100' (Approximately 132' – 175', per ChevronTexaco Trend Map) All results are ppm. BSL-Below Surface Level.

Chlorides sampled for documentation. Released 400 B/PW; Recovered: 200 B/PW. Release Date; 8/25/2014.

Excavated Soils

Stockpiled Soils

Analytical Report-H501369 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	Chlorides
B#1 - 1.0	Release Area	5/28/2015	Grab/Trackhoe	1' (2' BSL)	8000
B#1 - 2.0	Release Area	5/28/2015	Grab/Trackhoe	2 (3' BSL)	5700
B#1 - 3.0	Release Area	5/28/2015	Grab/Trackhoe	3' (4 'BSL)	2360
B#1 - 4.0	Release Area	5/28/2015	Grab/Trackhoe	4' (5' BSL)	1400
B#1 - 5.0	Release Area	5/28/2015	Grab/Trackhoe	5' (6' BSL)	752
B#1 - 6.0	Release Area	5/28/2015	Grab/Trackhoe	6' (7' BSL)	304
B#1 - 8.0	Release Area	5/28/2015	Grab/Trackhoe	8' (9' BSL)	160
B#1 - 10.0	Release Area	5/28/2015	Grab/Trackhoe	10' (11' BSL)	768
B#1 - 12.0	Release Area	5/28/2015	Grab/Trackhoe	12' (13' BSL)	400
B#1 - 14.0	Release Area	5/28/2015	Grab/Trackhoe	14' (15' BSL)	416
B#1 - 16.0	Release Area	5/28/2015	Grab/Trackhoe	16' (17' BSL)	128
B#1 - 18.0	Release Area	5/28/2015	Grab/Trackhoe	18' (19' BSL)	224
Analytical Report-H501369 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	Chlorides
B#2 - 1.0	Release Area	5/27/2015	Grab/Trackhoe	1' (3' BSL)	640
B#2 - 2.0	Release Area	5/27/2015	Grab/Trackhoe	2 (4' BSL)	1490
B#2 - 3.0	Release Area	5/27/2015	Grab/Trackhoe	3' (5 'BSL)	1310
B#2 - 4.0	Release Area	5/27/2015	Grab/Trackhoe	4' (6' BSL)	960
B#2 - 5.0	Release Area	5/27/2015	Grab/Trackhoe	5' (7' BSL)	1460
B#2 - 6.0	Release Area	5/27/2015	Grab/Trackhoe	6' (8' BSL)	1300
B#2 - 8.0	Release Area	5/27/2015	Grab/Trackhoe	8' (10' BSL)	960
B#2 - 10.0	Release Area	5/27/2015	Grab/Trackhoe	10' (12' BSL)	704
B#2 - 12.0	Release Area	5/27/2015	Grab/Trackhoe	12' (14' BSL)	544
B#2 - 14.0	Release Area	5/27/2015	Grab/Trackhoe	14' (16' BSL)	96
B#2 - 16.0	Release Area	5/27/2015	Grab/Trackhoe	16' (18' BSL)	176
B#2 - 18.0	Release Area	5/27/2015	Grab/Trackhoe	18' (20' BSL)	256
Analytical Report-H501369 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	Chlorides
B#3 - 1.0	Release Area	5/27/2015	Grab/Trackhoe	1' (3' BSL)	7100
B#3 - 2.0	Release Area	5/27/2015	Grab/Trackhoe	2 (4' BSL)	8800
B#3 - 3.0	Release Area	5/27/2015	Grab/Trackhoe	3' (5 'BSL)	6400
B#3 - 4.0	Release Area	5/27/2015	Grab/Trackhoe	4' (6' BSL)	5700
B#3 - 5.0	Release Area	5/27/2015	Grab/Trackhoe	5' (7' BSL)	4300
B#3 - 6.0	Release Area	5/27/2015	Grab/Trackhoe	6' (8' BSL)	4000
B#3 - 8.0	Release Area	5/27/2015	Grab/Trackhoe	8' (10' BSL)	2320
B#3 - 10.0	Release Area	5/27/2015	Grab/Trackhoe	10' (12' BSL)	656
B#3 - 12.0	Release Area	5/27/2015	Grab/Trackhoe	12' (14' BSL)	736
B#3 - 14.0	Release Area	5/27/2015	Grab/Trackhoe	14' (16' BSL)	736
B#3 - 16.0	Release Area	5/27/2015	Grab/Trackhoe	16' (18' BSL)	576
B#3 - 18.0	Release Area	5/27/2015	Grab/Trackhoe	18' (20' BSL)	208

Site Ranking is Zero (0), DTGW >100' (Approximately 132' – 175', per ChevronTexaco Trend Map) All results are ppm. BSL-Below Surface Level.

Chlorides sampled for documentation. Released 400 B/PW; Recovered: 200 B/PW. Release Date; 8/25/2014.

Excavated Soils

Stockpiled Soils

Analytical Report- H501366 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	Chlorides
C#1 - 1.0	Release Area	5/28/2015	Grab/Trackhoe	1' (2' BSL)	608
C#1 - 2.0	Release Area	5/28/2015	Grab/Trackhoe	2 (3' BSL)	160
C#1 - 3.0	Release Area	5/28/2015	Grab/Trackhoe	3' (4 'BSL)	64
C#1 - 4.0	Release Area	5/28/2015	Grab/Trackhoe	4' (5' BSL)	320
C#1 - 5.0	Release Area	5/28/2015	Grab/Trackhoe	5' (6' BSL)	752
C#1 - 6.0	Release Area	5/28/2015	Grab/Trackhoe	6' (7' BSL)	544
C#1 - 8.0	Release Area	5/28/2015	Grab/Trackhoe	8' (9' BSL)	3160
C#1 - 10.0	Release Area	5/28/2015	Grab/Trackhoe	10' (11' BSL)	2120
C#1 - 12.0	Release Area	5/28/2015	Grab/Trackhoe	12' (13' BSL)	464
C#1 - 14.0	Release Area	5/28/2015	Grab/Trackhoe	14' (15' BSL)	208
C#1 - 16.0	Release Area	5/28/2015	Grab/Trackhoe	16' (17' BSL)	304
C#1 - 18.0	Release Area	5/28/2015	Grab/Trackhoe	18' (19' BSL)	384
Analytical Report- H501366 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	Chlorides
C#2 - 1.0	Release Area	5/27/2015	Grab/Trackhoe	1' (3' BSL)	1340
C#2 - 2.0	Release Area	5/27/2015	Grab/Trackhoe	2 (4' BSL)	2360
C#2 - 3.0	Release Area	5/27/2015	Grab/Trackhoe	3' (5 'BSL)	5040
C#2 - 4.0	Release Area	5/27/2015	Grab/Trackhoe	4' (6' BSL)	4640
C#2 - 5.0	Release Area	5/27/2015	Grab/Trackhoe	5' (7' BSL)	4240
C#2 - 6.0	Release Area	5/27/2015	Grab/Trackhoe	6' (8' BSL)	3360
C#2 - 8.0	Release Area	5/27/2015	Grab/Trackhoe	8' (10' BSL)	1500
C#2 - 10.0	Release Area	5/27/2015	Grab/Trackhoe	10' (12' BSL)	2040
C#2 - 12.0	Release Area	5/27/2015	Grab/Trackhoe	12' (14' BSL)	1600
C#2 - 14.0	Release Area	5/27/2015	Grab/Trackhoe	14' (16' BSL)	688
C#2 - 16.0	Release Area	5/27/2015	Grab/Trackhoe	16' (18' BSL)	480
C#2 - 18.0	Release Area	5/27/2015	Grab/Trackhoe	18' (20' BSL)	128
Analytical Report- H501367 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	Chlorides
C#3 - 1.0	Release Area	5/27/2015	Grab/Trackhoe	1' (3' BSL)	2520
C#3 - 2.0	Release Area	5/27/2015	Grab/Trackhoe	2 (4' BSL)	2920
C#3 - 3.0	Release Area	5/27/2015	Grab/Trackhoe	3' (5 'BSL)	4720
C#3 - 4.0	Release Area	5/27/2015	Grab/Trackhoe	4' (6' BSL)	7120
C#3 - 5.0	Release Area	5/27/2015	Grab/Trackhoe	5' (7' BSL)	7440
C#3 - 6.0	Release Area	5/27/2015	Grab/Trackhoe	6' (8' BSL)	5520
C#3 - 8.0	Release Area	5/27/2015	Grab/Trackhoe	8' (10' BSL)	2200
C#3 - 10.0	Release Area	5/27/2015	Grab/Trackhoe	10' (12' BSL)	2720
C#3 - 12.0	Release Area	5/27/2015	Grab/Trackhoe	12' (14' BSL)	1710
C#3 - 14.0	Release Area	5/27/2015	Grab/Trackhoe	14' (16' BSL)	1120
C#3 - 16.0	Release Area	5/27/2015	Grab/Trackhoe	16' (18' BSL)	1360

Site Ranking is Zero (0). DTGW >100' (Approximately 132' – 175', per ChevronTexaco Trend Map) All results are ppm. BSL-Below Surface Level.

Chlorides sampled for documentation. Released 400 B/PW; Recovered: 200 B/PW. Release Date; 8/25/2014.

Excavated Soils

Stockpiled Soils

Analytical Report- H501368 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	Chlorides
D#1 - 1.0	Release Area	5/28/2015	Grab/Trackhoe	1' (2' BSL)	16
D#1 - 2.0	Release Area	5/28/2015	Grab/Trackhoe	2 (3' BSL)	<16.0
D#1 - 3.0	Release Area	5/28/2015	Grab/Trackhoe	3' (4 'BSL)	80
D#1 - 4.0	Release Area	5/28/2015	Grab/Trackhoe	4' (5' BSL)	16
D#1 - 5.0	Release Area	5/28/2015	Grab/Trackhoe	5' (6' BSL)	48
D#1 - 6.0	Release Area	5/28/2015	Grab/Trackhoe	6' (7' BSL)	96
D#1 - 8.0	Release Area	5/28/2015	Grab/Trackhoe	8' (9' BSL)	96
D#1 - 10.0	Release Area	5/28/2015	Grab/Trackhoe	10' (11' BSL)	480
D#1 - 12.0	Release Area	5/28/2015	Grab/Trackhoe	12' (13' BSL)	224
D#1 - 14.0	Release Area	5/28/2015	Grab/Trackhoe	14' (15' BSL)	400
D#1 - 16.0	Release Area	5/28/2015	Grab/Trackhoe	16' (17' BSL)	288
D#1 - 18.0	Release Area	5/28/2015	Grab/Trackhoe	18' (19' BSL)	160
Analytical Report- H501364 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	Chlorides
D#2 - 1.0	Release Area	5/28/2015	Grab/Trackhoe	1' (3' BSL)	3960
D#2 - 2.0	Release Area	5/28/2015	Grab/Trackhoe	2 (4' BSL)	5200
D#2 - 3.0	Release Area	5/28/2015	Grab/Trackhoe	3' (5 'BSL)	5280
D#2 - 4.0	Release Area	5/28/2015	Grab/Trackhoe	4' (6' BSL)	4000
D#2 - 5.0	Release Area	5/28/2015	Grab/Trackhoe	5' (7' BSL)	3440
D#2 - 6.0	Release Area	5/28/2015	Grab/Trackhoe	6' (8' BSL)	3900
D#2 - 8.0	Release Area	5/28/2015	Grab/Trackhoe	8' (10' BSL)	3040
D#2 - 10.0	Release Area	5/28/2015	Grab/Trackhoe	10' (12' BSL)	688
D#2 - 12.0	Release Area	5/28/2015	Grab/Trackhoe	12' (14' BSL)	352
D#2 - 14.0	Release Area	5/28/2015	Grab/Trackhoe	14' (16' BSL)	336
D#2 - 16.0	Release Area	5/28/2015	Grab/Trackhoe	16' (18' BSL)	384
D#2 - 18.0	Release Area	5/28/2015	Grab/Trackhoe	18' (20' BSL)	336
Analytical Report- H501365 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	Chlorides
D#3 - 1.0	Release Area	5/28/2015	Grab/Trackhoe	1' (3' BSL)	4800
D#3 - 2.0	Release Area	5/28/2015	Grab/Trackhoe	2 (4' BSL)	6960
D#3 - 3.0	Release Area	5/28/2015	Grab/Trackhoe	3' (5 'BSL)	6480
D#3 - 4.0	Release Area	5/28/2015	Grab/Trackhoe	4' (6' BSL)	6880
D#3 - 5.0	Release Area	5/28/2015	Grab/Trackhoe	5' (7' BSL)	6560
D#3 - 6.0	Release Area	5/28/2015	Grab/Trackhoe	6' (8' BSL)	4880
D#3 - 8.0	Release Area	5/28/2015	Grab/Trackhoe	8' (10' BSL)	3440
D#3 - 10.0	Release Area	5/28/2015	Grab/Trackhoe	10' (12' BSL)	3520
D#3 - 12.0	Release Area	5/28/2015	Grab/Trackhoe	12' (14' BSL)	1840
D#3 - 14.0	Release Area	5/28/2015	Grab/Trackhoe	14' (16' BSL)	1460
D#3 - 16.0	Release Area	5/28/2015	Grab/Trackhoe	16' (18' BSL)	1090
D#3 - 18.0	Release Area	5/28/2015	Grab/Trackhoe	18' (20' BSL)	1680

Site Ranking is Zero (0). DTGW >100' (Approximately 132' – 175', per ChevronTexaco Trend Map) All results are ppm. BSL-Below Surface Level.

Chlorides sampled for documentation. Released 400 B/PW; Recovered: 200 B/PW. Release Date; 8/25/2014.

Excavated Soils

Stockpiled Soils

Analytical Report- H501369 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	Chlorides
E#1 - 1.0	Release Area	5/28/2015	Grab/Trackhoe	1' (2' BSL)	<16.0
E#1 - 2.0	Release Area	5/28/2015	Grab/Trackhoe	2 (3' BSL)	16
E#1 - 3.0	Release Area	5/28/2015	Grab/Trackhoe	3' (4 'BSL)	16
E#1 - 4.0	Release Area	5/28/2015	Grab/Trackhoe	4' (5' BSL)	16
E#1 - 5.0	Release Area	5/28/2015	Grab/Trackhoe	5' (6' BSL)	16
E#1 - 6.0	Release Area	5/28/2015	Grab/Trackhoe	6' (7' BSL)	16
E#1 - 8.0	Release Area	5/28/2015	Grab/Trackhoe	8' (9' BSL)	16
E#1 - 10.0	Release Area	5/28/2015	Grab/Trackhoe	10' (11' BSL)	16
E#1 - 12.0	Release Area	5/28/2015	Grab/Trackhoe	12' (13' BSL)	<16.0
E#1 - 14.0	Release Area	5/28/2015	Grab/Trackhoe	14' (15' BSL)	16
E#1 - 16.0	Release Area	5/28/2015	Grab/Trackhoe	16' (17' BSL)	16
E#1 - 18.0	Release Area	5/28/2015	Grab/Trackhoe	18' (19' BSL)	32
Analytical Report- H501370 (Cardinal)	**Sample Area**	**Sample Date**	**Sample Type**	**Depth**	**Chlorides**
E#2 - 1.0	Release Area	5/28/2015	Grab/Trackhoe	1' (3' BSL)	5700
E#2 - 2.0	Release Area	5/28/2015	Grab/Trackhoe	2 (4' BSL)	8500
E#2 - 3.0	Release Area	5/28/2015	Grab/Trackhoe	3' (5 'BSL)	7800
E#2 - 4.0	Release Area	5/28/2015	Grab/Trackhoe	4' (6' BSL)	7200
E#2 - 5.0	Release Area	5/28/2015	Grab/Trackhoe	5' (7' BSL)	8100
E#2 - 6.0	Release Area	5/28/2015	Grab/Trackhoe	6' (8' BSL)	7700
E#2 - 8.0	Release Area	5/28/2015	Grab/Trackhoe	8' (10' BSL)	4500
E#2 - 10.0	Release Area	5/28/2015	Grab/Trackhoe	10' (12' BSL)	3440
E#2 - 12.0	Release Area	5/28/2015	Grab/Trackhoe	12' (14' BSL)	3520
E#2 - 14.0	Release Area	5/28/2015	Grab/Trackhoe	14' (16' BSL)	5120
E#2 - 16.0	Release Area	5/28/2015	Grab/Trackhoe	16' (18' BSL)	1120
E#2 - 18.0	Release Area	5/28/2015	Grab/Trackhoe	18' (20' BSL)	800
Analytical Report- H501371 (Cardinal)	**Sample Area**	**Sample Date**	**Sample Type**	**Depth**	**Chlorides**
E#3 - 1.0	Release Area	5/28/2015	Grab/Trackhoe	1' (3' BSL)	<16.0
E#3 - 2.0	Release Area	5/28/2015	Grab/Trackhoe	2 (4' BSL)	16
E#3 - 3.0	Release Area	5/28/2015	Grab/Trackhoe	3' (5 'BSL)	16
E#1 - 4.0	Release Area	5/28/2015	Grab/Trackhoe	4' (6' BSL)	16
E#3 - 5.0	Release Area	5/28/2015	Grab/Trackhoe	5' (7' BSL)	16
E#3 - 6.0	Release Area	5/28/2015	Grab/Trackhoe	6' (8' BSL)	16
E#3 - 8.0	Release Area	5/28/2015	Grab/Trackhoe	8' (10' BSL)	16
E#3 - 10.0	Release Area	5/28/2015	Grab/Trackhoe	10' (12' BSL)	16
E#3 - 12.0	Release Area	5/28/2015	Grab/Trackhoe	12' (14' BSL)	<16.0
E#3 - 14.0	Release Area	5/28/2015	Grab/Trackhoe	14' (16' BSL)	16
E#3 - 16.0	Release Area	5/28/2015	Grab/Trackhoe	16' (18' BSL)	16
E#3 - 18.0	Release Area	5/28/2015	Grab/Trackhoe	18' (20' BSL)	32

Site Ranking is Zero (0), DTGW >100' (Approximately 132' – 175', per ChevronTexaco Trend Map) All results are ppm. BSL-Below Surface Level.

Chlorides sampled for documentation. Released 400 B/PW; Recovered: 200 B/PW. Release Date; 8/25/2014.

Excavated Soils

Stockpiled Soils

Analytical Report- H501374 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	Chlorides
F#1 - 1.0	Release Area	5/28/2015	Grab/Trackhoe	1' (2' BSL)	<16.0
F#1 - 2.0	Release Area	5/28/2015	Grab/Trackhoe	2 (3' BSL)	<16.0
F#1 - 3.0	Release Area	5/28/2015	Grab/Trackhoe	3' (4 'BSL)	<16.0
F#1 - 4.0	Release Area	5/28/2015	Grab/Trackhoe	4' (5' BSL)	<16.0
F#1 - 5.0	Release Area	5/28/2015	Grab/Trackhoe	5' (6' BSL)	<16.0
F#1 - 6.0	Release Area	5/28/2015	Grab/Trackhoe	6' (7' BSL)	<16.0
F#1 - 8.0	Release Area	5/28/2015	Grab/Trackhoe	8' (9' BSL)	16
F#1 - 10.0	Release Area	5/28/2015	Grab/Trackhoe	10' (11' BSL)	32
F#1 - 12.0	Release Area	5/28/2015	Grab/Trackhoe	12' (13' BSL)	16
F#1 - 14.0	Release Area	5/28/2015	Grab/Trackhoe	14' (15' BSL)	48
F#1 - 16.0	Release Area	5/28/2015	Grab/Trackhoe	16' (17' BSL)	16
F#1 - 18.0	Release Area	5/28/2015	Grab/Trackhoe	18' (19' BSL)	16
Analytical Report- H501376 (Cardinal)	**Sample Area**	**Sample Date**	**Sample Type**	**Depth**	**Chlorides**
F#2 - 1.0	Release Area	5/28/2015	Grab/Trackhoe	1' (3' BSL)	3240
F#2 - 2.0	Release Area	5/28/2015	Grab/Trackhoe	2 (4' BSL)	3200
F#2 - 3.0	Release Area	5/28/2015	Grab/Trackhoe	3' (5 'BSL)	4960
F#2 - 4.0	Release Area	5/28/2015	Grab/Trackhoe	4' (6' BSL)	5200
F#2 - 5.0	Release Area	5/28/2015	Grab/Trackhoe	5' (7' BSL)	6800
F#2 - 6.0	Release Area	5/28/2015	Grab/Trackhoe	6' (8' BSL)	4480
F#2 - 8.0	Release Area	5/28/2015	Grab/Trackhoe	8' (10' BSL)	2800
F#2 - 10.0	Release Area	5/28/2015	Grab/Trackhoe	10' (12' BSL)	2920
F#2 - 12.0	Release Area	5/28/2015	Grab/Trackhoe	12' (14' BSL)	2360
F#2 - 14.0	Release Area	5/28/2015	Grab/Trackhoe	14' (16' BSL)	1260
F#2 - 16.0	Release Area	5/28/2015	Grab/Trackhoe	16' (18' BSL)	784
F#2 - 18.0	Release Area	5/28/2015	Grab/Trackhoe	18' (20' BSL)	848
Analytical Report- H501377 (Cardinal)	**Sample Area**	**Sample Date**	**Sample Type**	**Depth**	**Chlorides**
F#3 - 1.0	Release Area	5/28/2015	Grab/Trackhoe	1' (3' BSL)	48
F#3 - 2.0	Release Area	5/28/2015	Grab/Trackhoe	2 (4' BSL)	32
F#3 - 3.0	Release Area	5/28/2015	Grab/Trackhoe	3' (5 'BSL)	48
F#3 - 4.0	Release Area	5/28/2015	Grab/Trackhoe	4' (6' BSL)	48
F#3 - 5.0	Release Area	5/28/2015	Grab/Trackhoe	5' (7' BSL)	64
F#3 - 6.0	Release Area	5/28/2015	Grab/Trackhoe	6' (8' BSL)	32
F#3 - 8.0	Release Area	5/28/2015	Grab/Trackhoe	8' (10' BSL)	80
F#3 - 10.0	Release Area	5/28/2015	Grab/Trackhoe	10' (12' BSL)	48
F#3 - 12.0	Release Area	5/28/2015	Grab/Trackhoe	12' (14' BSL)	160
F#3 - 14.0	Release Area	5/28/2015	Grab/Trackhoe	14' (16' BSL)	144
F#3 - 16.0	Release Area	5/28/2015	Grab/Trackhoe	16' (18' BSL)	176
F#3 - 18.0	Release Area	5/28/2015	Grab/Trackhoe	18' (20' BSL)	192

Site Ranking is Zero (0), DTGW >100' (Approximately 132' – 175', per ChevronTexaco Trend Map) All results are ppm. BSL-Below Surface Level.

Chlorides sampled for documentation. Released 400 B/PW; Recovered: 200 B/PW. Release Date; 8/25/2014.

Excavated Soils

Stockpiled Soils

Analytical Report- H501374 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	Chlorides
G#1 - 1.0	Release Area	5/28/2015	Grab/Trackhoe	1' (2' BSL)	16
G#1 - 2.0	Release Area	5/28/2015	Grab/Trackhoe	2 (3' BSL)	160
G#1 - 3.0	Release Area	5/28/2015	Grab/Trackhoe	3' (4 'BSL)	464
G#1 - 4.0	Release Area	5/28/2015	Grab/Trackhoe	4' (5' BSL)	640
G#1 - 5.0	Release Area	5/28/2015	Grab/Trackhoe	5' (6' BSL)	10300
G#1 - 6.0	Release Area	5/28/2015	Grab/Trackhoe	6' (7' BSL)	11800
G#1 - 8.0	Release Area	5/28/2015	Grab/Trackhoe	8' (9' BSL)	8300
G#1 - 10.0	Release Area	5/28/2015	Grab/Trackhoe	10' (11' BSL)	6500
G#1 - 12.0	Release Area	5/28/2015	Grab/Trackhoe	12' (13' BSL)	6000
G#1 - 14.0	Release Area	5/28/2015	Grab/Trackhoe	14' (15' BSL)	5200
G#1 - 16.0	Release Area	5/28/2015	Grab/Trackhoe	16' (17' BSL)	2040
G#1 - 18.0	Release Area	5/28/2015	Grab/Trackhoe	18' (19' BSL)	2680
Analytical Report- H501376 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	Chlorides
G#2 - 1.0	Release Area	5/28/2015	Grab/Trackhoe	1' (3' BSL)	3240
G#2 - 2.0	Release Area	5/28/2015	Grab/Trackhoe	2 (4' BSL)	3200
G#2 - 3.0	Release Area	5/28/2015	Grab/Trackhoe	3' (5 'BSL)	4960
G#2 - 4.0	Release Area	5/28/2015	Grab/Trackhoe	4' (6' BSL)	5200
G#2 - 5.0	Release Area	5/28/2015	Grab/Trackhoe	5' (7' BSL)	6800
G#2 - 6.0	Release Area	5/28/2015	Grab/Trackhoe	6' (8' BSL)	4480
G#2 - 8.0	Release Area	5/28/2015	Grab/Trackhoe	8' (10' BSL)	2800
G#2 - 10.0	Release Area	5/28/2015	Grab/Trackhoe	10' (12' BSL)	2920
G#2 - 12.0	Release Area	5/28/2015	Grab/Trackhoe	12' (14' BSL)	2360
G#2 - 14.0	Release Area	5/28/2015	Grab/Trackhoe	14' (16' BSL)	1260
G#2 - 16.0	Release Area	5/28/2015	Grab/Trackhoe	16' (18' BSL)	784
G#2 - 18.0	Release Area	5/28/2015	Grab/Trackhoe	18' (20' BSL)	848
Analytical Report- H501377 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	Chlorides
G#3 - 1.0	Release Area	5/28/2015	Grab/Trackhoe	1' (3' BSL)	48
G#3 - 2.0	Release Area	5/28/2015	Grab/Trackhoe	2 (4' BSL)	32
G#3 - 3.0	Release Area	5/28/2015	Grab/Trackhoe	3' (5 'BSL)	48
G#3 - 4.0	Release Area	5/28/2015	Grab/Trackhoe	4' (6' BSL)	48
G#3 - 5.0	Release Area	5/28/2015	Grab/Trackhoe	5' (7' BSL)	64
G#3 - 6.0	Release Area	5/28/2015	Grab/Trackhoe	6' (8' BSL)	32
G#3 - 8.0	Release Area	5/28/2015	Grab/Trackhoe	8' (10' BSL)	80
G#3 - 10.0	Release Area	5/28/2015	Grab/Trackhoe	10' (12' BSL)	48
G#3 - 12.0	Release Area	5/28/2015	Grab/Trackhoe	12' (14' BSL)	160
G#3 - 14.0	Release Area	5/28/2015	Grab/Trackhoe	14' (16' BSL)	144
G#3 - 16.0	Release Area	5/28/2015	Grab/Trackhoe	16' (18' BSL)	176
G#3 - 18.0	Release Area	5/28/2015	Grab/Trackhoe	18' (20' BSL)	192

Site Ranking is Zero (0). DTGW >100' (Approximately 132' – 175', per ChevronTexaco Trend Map) All results are ppm. BSL-Below Surface Level.

Chlorides sampled for documentation. Released 400 B/PW; Recovered: 200 B/PW. Release Date; 8/25/2014.

Excavated Soils

Stockpiled Soils

Sample Area **	Sample Date	Starting Excavation Area	Chloride Results (ppm)	Comments
A-1 (N)	9/3/2015	10' X 20' X 4' D	275	No Further Excavation
A-1 (S)	9/3/2015	10' X 20' X 4' D	2844	Additional 2' excavated
A-1 (S)	9/4/2015		848	No Further Excavation
A-1 (E)	9/3/2015	10' X 20' X 4' D	2620	Additonal 2' excavated
A-1 (E)	9/4/2015		1524	No Further Excavation
A-1 (W)	9/3/2015	10' X 20' X 4' D	2208	Additional 1' excavated
A-1 (W)	9/4/2015		482	No Further Excavation
A-2 (N)	9/4/2015	10' X 10' X 4' D	2024	Additional 1' excacation
A-2 (N)	9/14/2015		1376	No Further Excavation
A-2 (S)	9/4/2015	10' X 10' X 4' D	3616	Additional 2' excavation
A-2 (S)	9/14/2015		828	No Further Excavation
A-2 (E)	9/4/2015	10' X 10' X 4' D	1100	No Further Excavation
A-2 (W)	9/4/2015	10' X 10' X 4' D	2824	Additional 2' excavation
A-2 (W)	9/14/2015		346	No Further Excavation
A-3 (N)	9/4/2015	10' X 10' X 4' D	1376	No Further Excavation
A-3 (S)	9/4/2015	10' X 10' X 4' D	3340	Additional 2' excavated
A-3 (S)	9/14/2015	10' X 10' X 4' D	2024	Additional 1' excavated
A-3 (S)	9/14/2015	10' X 10' X 4' D	828	No Further Excavation
A-3 (E)	9/4/2015	10' X 10' X 4' D	2024	No Further Excavation
A-3 (W)	9/4/2015	10' X 10' X 4' D	1236	No Further Excavation

Sample Area **	Sample Date	Starting Excavation Area	Chloride Results (ppm)	Comments
B-1 (N)	9/4/2015	10' X 10' X4' D	482	No Further Excavation
B-1 (S)	9/4/2015	10' X 10' X 4' D	2408	Additional 2' excavated
B-1 (S)	9/4/2015		3616	Additional 2' excavated
B-1 (S)	9/14/2015		3908	Additional 2' excavated
B-1 (S)	9/14/2015		2844	Additional 2' excavated
B-1 (S)	9/14/2015		964	No Further Excavation
B-1 (E)	9/4/2015	10' X 10' X 4' D	482	No Further Excavation
B-1 (W)	9/4/2015	10' X 10' X 4' D	241	No Further Excavation

Sample Area: Agave P/L ROW (Hall, 1512C37)	Sample Date	Total Petroleum Hydrocarbons (DRO/GRO)	BTEX	Chloride Results (ppm)
0.25 (4" BSL)	12/22/2015	120 ppm (DRO)/ND (GRO)	ND	ND
1.0 (12" BSL)	12/22/2015	ND (DRO)/ND (GRO)	ND	ND
2.0 (24" BSL)	12/22/2015	16 ppm (DRO)/ ND (GRO)	ND	ND

Sample Area/Tin Horn	Sample Date	Sample Depth	Chloride Results (ppm)	Comments
North Side Wall	12/23/2015	6'	60	N/A
South Side Wall	12/23/2015	6'	20	N/A
East Side Wall	12/23/2015	6'	40	N/A
West Side Wall	12/23/2015	6'	20	N/A

** - Samples taken on side walls only, if results were above the approved Work Plan Limits, additional impacted soils were removed until limits were met.

Bob Asher

From: Bob Asher
Sent: Tuesday, August 04, 2015 2:36 PM
To: 'Bratcher, Mike, EMNRD'; Patterson, Heather, EMNRD; Billings, Bradford, EMNRD
Cc: Katie Parker
Subject: RE: State CO SWD System/Foster FF Work Plan Meeting

Mike,

I will advise our contractor so excavation work can begin.

Thank you again.

Robert Asher
Yates Petroleum Corporation
NM Environmental Regulatory Supervisor
575-748-4217 (O)
boba@yatespetroleum.com

From: Bratcher, Mike, EMNRD [mailto:mike.bratcher@state.nm.us]
Sent: Tuesday, August 04, 2015 2:24 PM
To: Bob Asher; Patterson, Heather, EMNRD; Billings, Bradford, EMNRD
Cc: Katie Parker
Subject: RE: State CO SWD System/Foster FF Work Plan Meeting

RE: Yates Petroleum * State CO SWD System aka Foster FF Battery * 2RP-2479

Bob,

Your current proposal for remediation at the above referenced site is approved. It is OCD's understanding that the currently proposed excavation depths are from the current excavation bottom. As discussed in the meeting, in the event sidewall samples show 2000 mg/kg or greater in the upper 1' – 2', additional surficial excavation may be required, to ensure vegetative growth around the perimeter of the site. In regard to 2RP-2284, OCD will request a delineation (please advise if this has been done). A determination for remedial requirements will be based on the delineation, but will likely follow the criteria for 2RP-2479.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, please contact me.

Thank you,

Mike Bratcher
NMOCD District 2
811 S. First Street
Artesia, NM 88210
O: 575-748-1283 X108

C: 575-626-0857
F: 575-748-9720

From: Bob Asher [mailto:BobA@yatespetroleum.com]
Sent: Tuesday, August 04, 2015 11:58 AM
To: Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD; Billings, Bradford, EMNRD
Cc: Katie Parker
Subject: RE: State CO SWD System/Foster FF Work Plan Meeting

Mike, Heather and Brad,

Thank you for your time this morning. I have attached a revised work plan with the following changes per our discussion.

Test strip results of vertical sidewall samples to be at 2000 ppm.
Area C#2, a total three (3) feet of soils excavated and disposed, no soils to be stockpiled for backfill.

I will not include maps, entire excel sample documents (only C#1-3) and SESI report survey.

I will also address the area at the release point (C-141, dated 4/30/2014, 2RP-2284) with additional delineation (2000 ppm test strip sampling) and further excavation work needed if acceptable with the NMOCD.

Thank you.

Robert Asher
Yates Petroleum Corporation
NM Environmental Regulatory Supervisor
575-748-4217 (O)
boba@yatespetroleum.com

From: Bratcher, Mike, EMNRD [mailto:mike.bratcher@state.nm.us]
Sent: Thursday, July 30, 2015 4:47 PM
To: Bob Asher; Patterson, Heather, EMNRD; Billings, Bradford, EMNRD
Cc: Katie Parker
Subject: RE: State CO SWD System/Foster FF Work Plan Meeting

Bob,

This will work for us. Brad Billings will either be here or we will conference in with him.

Thanks,

Mike Bratcher
NMOCD District 2
811 S. First Street
Artesia, NM 88210
O: 575-748-1283 X108
C: 575-626-0857
F: 575-748-9720

From: Bob Asher [mailto:BobA@yatespetroleum.com]
Sent: Tuesday, July 28, 2015 5:00 PM
To: Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD; Billings, Bradford, EMNRD
Cc: Katie Parker
Subject: RE: State CO SWD System/Foster FF Work Plan Meeting

Yates would like to schedule a meeting to submit a final work plan and discuss the findings from the requested sound testing of the Oil City well north of the State CO SWD/Foster FF Battery on Tuesday, August 4, 2015 at 10:00 AM at the NMOCD District II Office in Artesia, NM.

Thank you.

Robert Asher
Yates Petroleum Corporation
NM Environmental Regulatory Supervisor
575-748-4217 (O)
boba@yatespetroleum.com

From: Bob Asher
Sent: Thursday, June 25, 2015 8:57 AM
To: mike.bratcher@state.nm.us; heather.patterson@state.nm.us; Bradford.Billings@state.nm.us
Cc: Katie Parker
Subject: State CO SWD System/Foster FF Work Plan Meeting

I would like to schedule a meeting for Tuesday, June 30, 2015 at 10:00 AM to discuss work plan options for the remediation of the State CO SWD System release/excavation area per our on-site meeting of June 16, 2015. I would like to see if this meeting could be at the OCD office in Artesia, once scheduling is complete, I will contact Kevin Wilbanks.

Thank you.

Robert Asher
NM Environmental Regulatory Supervisor
Yates Petroleum Corporation
105 S. 4th Street
Artesia, NM 88210
575-748-4217 (Office)
575-365-4021 (Cell)

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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

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

NM OIL CONSERVATION
ARTESIA DISTRICT
SEP 10 2014
RECEIVED

Form C-141
Revised August 8, 2011
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

nAB1425342247

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Yates Petroleum Corporation 25575	Contact Robert Asher
Address 104 S. 4th Street	Telephone No. 575-748-1471
Facility Name State CO SWD System (at the Foster FF #2 Battery)	Facility Type Tin Horn

Surface Owner Fee	Mineral Owner Fee	API No. 30-015-21705

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	1	20S	24E	1980	South	1980	East	Eddy

Latitude 32.60096 Longitude 104.53866

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 400 B/PW	Volume Recovered 200 B/PW
Source of Release Main water line	Date and Hour of Occurrence 8/25/2014; AM	Date and Hour of Discovery 8/25/2014; AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher/NMOCD II	
By Whom? Robert Asher/Yates Petroleum Corporation	Date and Hour 8/26/2014; AM (Email)	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
The underground 12" main water line failed, causing the release. Shut off main water line valves; vacuum truck(s) and roustabout crew called.

Describe Area Affected and Cleanup Action Taken.*
An approximate area of 500' X 1500'. Vacuum truck was called to recover produced water (with an oil skim) and roustabout crew called to repair water line. Excavated soils being hauled to a NMOCD approved facility. Vertical and horizontal delineation samples were taken (9/4/2014) and analysis ran for TPH & BTEX (chlorides for documentation). If the analytical results are above the RRAL's a work plan will be submitted to the OCD. **Depth to Ground Water: >100' (approximately 132', Section 1, T20S-R24E, per Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0.**

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:

Printed Name: Robert Asher

Title: NM Environmental Regulatory Supervisor

E-mail Address: boba@yatespetroleum.com

Date: September 8, 2014 Phone: 575-748-4217

OIL CONSERVATION DIVISION

Approved by Environmental Specialist:

Approval Date: 9/10/14 Expiration Date: N/A

Conditions of Approval:
Remediation per OCD Rule & Guidelines.
SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 10/10/14

Attached ☐

2RP-2479

* Attach Additional Sheets If Necessary

RECEIVED
FEB 26 2018
DISTRICT II-ARTESIA O.C.D.

District I
625 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	Robert Asher
Address		Telephone No.
104 S. 4TH Street, Artesia, NM 88210		575-748-4217
Facility Name	API Number	Facility Type
State CO SWD System	30-015-21705	Tin Horn

Surface Owner	Mineral Owner	Lease No.
Fee	Federal	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	1	20S	24E					Eddy

Latitude 32.60060 Longitude 104.54733

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Produced Water	400 B/PW	200 B/PW
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Main water line	8/25/2014 - AM	8/25/2014 - AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher/NMOCD II	
By Whom? Robert Asher/Yates Petroleum Corporation	Date and Hour 8/26/2014; AM (Email)	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
The underground 12" main water line failed, causing the release. Shut off main water line valves; vacuum truck (s) and roustabout crew called.

Describe Area Affected and Cleanup Action Taken.*
An approximately area of 500' X 1500' on location. Vacuum truck was called to recover produced water (with an oil skim) and roustabout crew called to repair water line. Excavated soils hauled to a NMOCD approved facility. Vertical and horizontal delineation samples were taken (9/4/2014) and analysis ran for TPH & BTEX (chlorides for documentation). If the analytical results are above the RRAL a work plan will be submitted to the OCD. **Depth to Ground Water: >100' (approximately 123', Section 1, T20S-R24E, per Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0. Based off of excavation/delineation per approved work plan, Yates Petroleum Corporation requests closure.**

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:

Printed Name: Robert Asher

Title: NM Environmental Regulatory Supervisor

E-mail Address: boba@yatespetroleum.com

Date: February 26, 2018 Phone: 575-748-4217

OIL CONSERVATION DIVISION

Approved by District Supervisor:

Approval Date: Expiration Date:

Conditions of Approval: Attached ☐

2RP-2479

* Attach Additional Sheets If Necessary

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 70911

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 70911
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	2/3/2023