From:	Yu, Olivia, EMNRD
To:	"Bob Asher"; rmann@slo.state.nm.us
Cc:	Yvette Moore
Subject:	RE: Waylon BMD State #8 Characterization Plan (Part 4)
Date:	Monday, April 30, 2018 4:03:00 PM
Attachments:	approved_linerTest_3002538256_Waylon BMD State #8 Characterization Plan.pdf image001.png

Mr. Asher:

Notes:

- This release occurred on State surface and mineral ownership. All correspondence and communications must include NMSLO.
- Release area is in LPC habitat. BLM timing stipulations are in effect.

NMOCD approves of the proposed liner integrity test for the lined facility. Please provide photo documentation of the cleaned liner and results of the liner integrity test in next report.

Like approval from NMSLO required.

Thanks,
Olivia

From: Bob Asher <Bob_Asher@eogresources.com>
Sent: Tuesday, April 3, 2018 2:38 PM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Cc: Yvette Moore <Yvette_Moore@eogresources.com>
Subject: Waylon BMD State #8 Characterization Plan (Part 4)

Thank you,

Robert C. "Bob" Asher
Environmental Supervisor
Safety & Environmental Department
EOG Resources, Inc.
Artesia Division
Artesia, NM 88210
575-748-4217 (Office)
575-365-4021 (Cell)
EOG Safety Begins With YOUR Safety

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

APPROVED
By Olivia Yu at 3:55 pm, Apr 30, 2018

NMOCD approves of the proposed liner integrity test for incident: nOY1735250845.

EOG Y Resources, Inc.

Characterization Plan

Waylon BMD State #8

30-025-38256

Section 14, T11S-R34E

Lea County, New Mexico

April 3, 2018

1RP-

Table of Contents

Figures:

Photos

Appendices:

I. Location

From Tatum, NM, travel west on US Highway 380 for approximately 12 miles to Four Lakes Road. Turn right (North) and continue for approximately 2.5 miles, turn right (East), before cattle guard onto Farm Road. Continue approximately 0.5 miles, to a "Y" in the road and turn left, continue through a cattle guard. Curve back West and then and continue North for approximately 1.7 miles to a "T" in the road. Turn right (East) and continue for approximately 0.4 miles to the Southwest corner of the well pad.

II. Background

On December 15, 2017, EOG Y Resources, Inc. submitted to the NMOCD District I Office a Form C-141 for the release of 5 B/O with 4.5 B/O recovered (the remaining 0.5 B/O entrained within the gravel). The affected area is approximately 30' X 30' within the containment of the production facility and was contained within the bermed and lined battery. The release was caused by a production tank, a valve was left open causing the oil to equalize and overflow the tank. A vacuum truck was dispatched and recovered 90% of the released oil. A roustabout crew was dispatched and excavated the visibly impacted gravel. The impacted gravel excavated was hauled to an NMOCD approved disposal facility.

III. Surface and Ground Water

Area surface geology is Paleozoic Permian. Based on information regarding this location (Section 14, T11S-R34E), the New Mexico Office of the State Engineer (NMOSE) database depth to groundwater is follows: (NMOSE-L06372, DTGW @ 80'), the United States Geological Survey National Water Information System, is as follows: (USGS #332301103291301, DTGW @ 18.25', USGS #332230103294501, DTGW @ 19.5', USGS #332118103283901, DTGW @ 25' & USGS #332212103282101, DTGW @ 26.5'). The depth to groundwater is <50', per USGS and NMOSE groundwater level. **Based on this information the Site Ranking is a Twenty (20).**

Watercourses in the area are dry except for infrequent flows in response to major precipitation events, with the nearest body of surface water is House Lake (0.91 miles, SW direction).

IV. NMOCD Ranking Criteria

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

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

Based on the ranking criteria, the NMOCD established RRALs for this site are:

Benzene	10 ppm
BTEX	50 ppm
TPH	100 ppm
Chlorides	No established RRAL

V. Liner Integrity Test

With the battery being bermed and lined with a 20 millimeter liner, a liner integrity test will be performed to determine if there are any leaks, tears, punctures and/or breaches. The battery will be filled with fresh water and the level gauged. After a period of three (3) hours, the water level will be gauged again, based off of the measurements, the SMA Evaporation Formula will be used to determine liner integrity, if intact a Closure Report/Form C-141 Final Report will be submitted to the NMOCD II Office requesting closure. If there is abnormal water loss that would indicate a liner failure, VI. Sampling Procedure will be implemented.

VI. Sampling Procedure

Samples will only be collected if the liner integrity test shows a failure or breach in the liner.

Vertical delineation samples (SP-1 & SP-2) will be collected within the release area. Samples will be collected at 1', 2', 3', and 4' below grade surface (bgs) or when auger and or backhoe refusal is encountered. Due to the nature of the release (produced water), the vertical delineation soil samples will be analyzed for Benzene, BTEX, TPH extended (Chlorides for documentation, with no established RRAL's for chlorides). All samples will be sent to a NMOCD approved laboratory for analysis.

Horizontal delineation samples will be collected at the 4 cardinal point (CP1-CP4) at what is believed to be the outer edge of the release area. Samples will be collected at 1' below grade surface (bgs) or when auger and or backhoe refusal is encountered. If a sample point is determined to be impacted by the release, a new sample will be collected moving out further until an area without impaction is located. Once located, samples will be taken to collaborate the impaction path to the next sample point in the sequence. Due to the nature of the release (produced water), the vertical delineation soil samples will be analyzed for Benzene, BTEX, TPH extended (Chlorides for documentation). All samples will be sent to a NMOCD approved laboratory for analysis.

As a baseline for all sampling analytical data, a background sample (BG-1) will be collected east of the battery.

Latitude/Longitude Coordinates for Sample Points

SP-1	33.371035°; -103.483048°
SP-2	33.371009°; -103.483073°
CP-1	33.371059°; -103.483051°
CP-2	33.370987°; -103.483067°
CP-3	33.371018°; -103.483030°
CP-4	33.371027°; -103.483087 °
BG-1	33.371074°; -103.483200°

Figure 1

Site Map


Waylon BMD State #8
Section 14, T11S-R34E
Lea County, New Mexico
Site Map
Legend
Waylon BMD State #8
Google Earth
© 2013 Google
N
2000 ft

Figure 2

Vertical Sample Point(s)


Waylon BMD State #8
Section 14, T11S-R34E
Lea County, New Mexico
Legend
Untitled Polygon
Vertical Sample Point
Vertical Sample Point
Waylon BMD State #8
SP-1
SP-2
Google Earth
© 2018 Google
2000 ft
N

Figure 3

Horizontal Sample Point(s)


Waylon BMD State #8
Section 14, T11S-R34E
Lea County, New Mexico
Legend
Horizontal Sample Points
Untitled Polygon
Waylon BMD State #8
CP-1
CP-4
CP-3
CP-2
Google Earth
© 2018 Google
N
90 ft

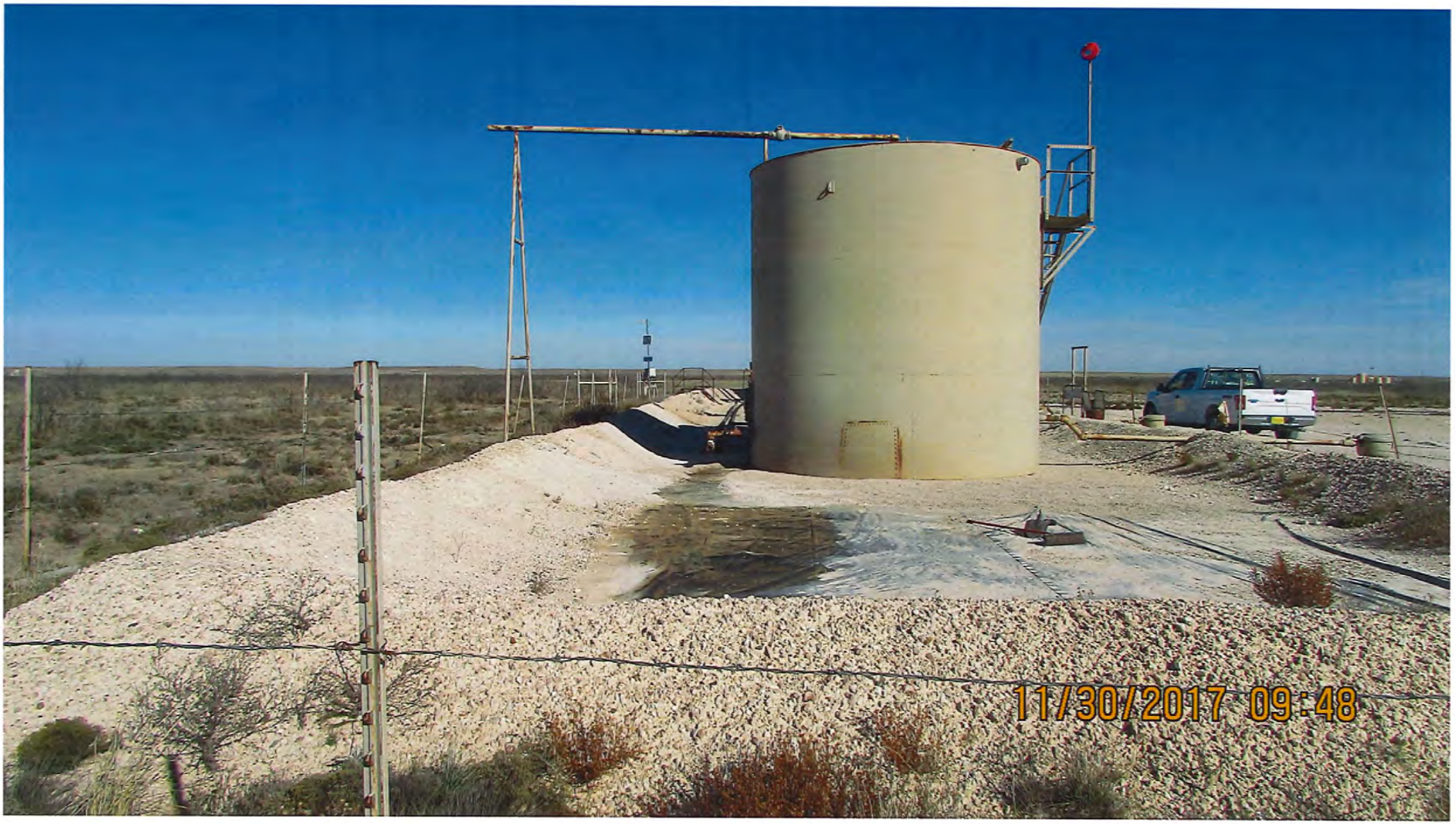
Figure 4

Background Sample Point(s)


Waylon BMD State #8
Section 14, T11S-R34E
Lea County, New Mexico
Legend
Background Sample Point
Untitled Polygon
Waylon BMD State #8
BG-1
Google Earth
© 2018 Google
90 ft
N

Photos


eog y resources (575) 748-1471
WAYLON State Unit #8
660' FNL & 2310' FWL - NE/NW
Sec. 14 - T 11 S - R 34 E - Unit C
Lea Co. New Mexico
Lse. # VO-5305 - API #30-025-38256
AFE # 07-268-O
11/30/2017 09:47


11/30/2017 09:48

11/30/2017 09:49

11/30/2017 09:49

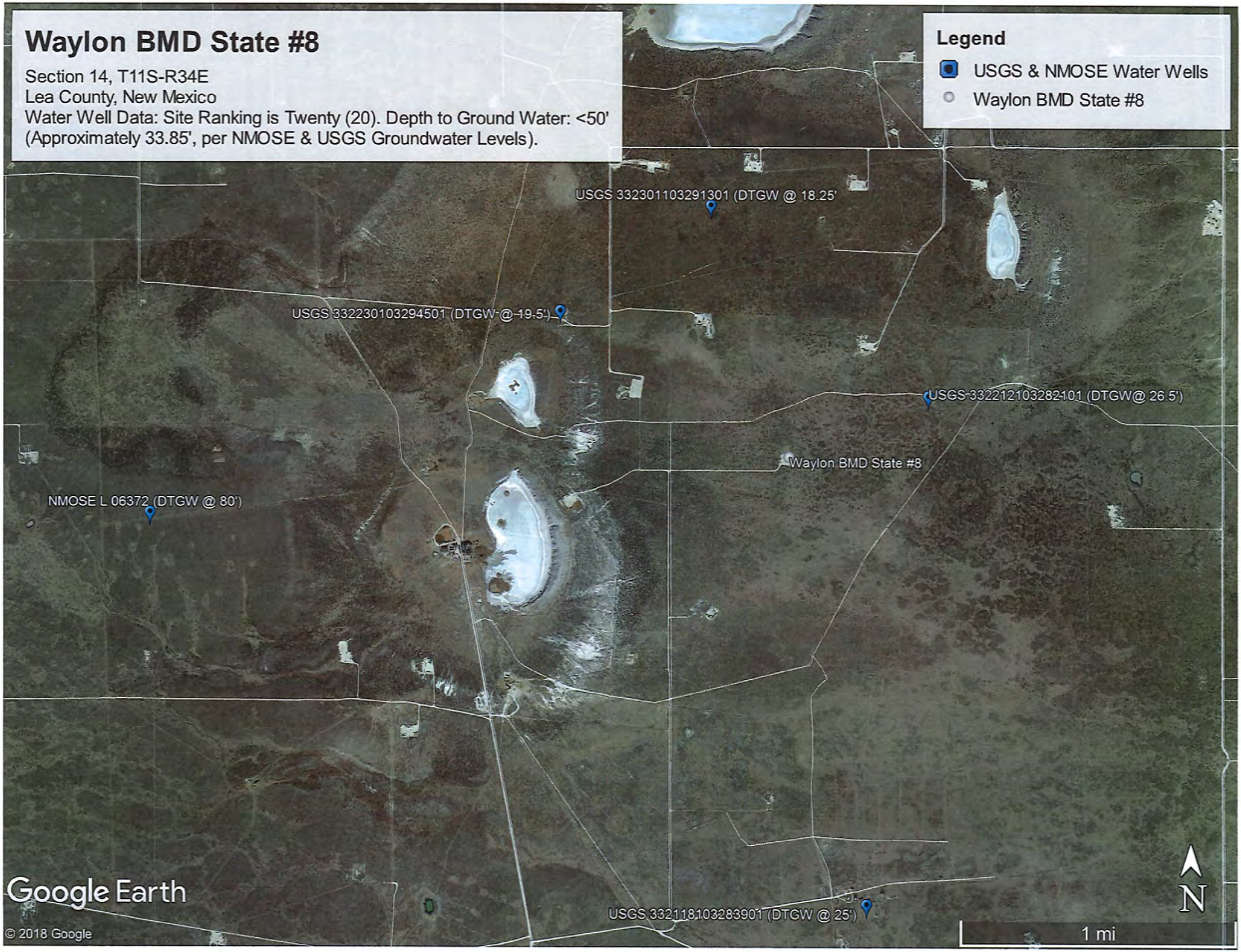
11/30/2017 09:49


11/30/2017 09:50


11/30/2017 09:50

Appendix A

Water Well Data Site Map


Waylon BMD State #8
Section 14, T11S-R34E
Lea County, New Mexico
Water Well Data: Site Ranking is Twenty (20). Depth to Ground Water: <50' (Approximately 33.85', per NMOSE & USGS Groundwater Levels).
Legend
USGS & NMOSE Water Wells
Waylon BMD State #8
USGS 332301103291301 (DTGW @ 18.25'
USGS 332230103294501 (DTGW @ 19.5')
USGS 332212103282101 (DTGW@ 26.5')
Waylon BMD State #8
NMOSE L 06372 (DTGW @ 80')
USGS 332118103283901 (DTGW @ 25')
Google Earth
© 2018 Google
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Appendix B

NMOSE Point of Diversion Summary

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	L 06372	3	1		16	11S	34E	637458	3693013*

Driller License: 46 **Driller Company:** ABBOTT BROTHERS COMPANY

Driller Name: MURRELL ABBOTT

Drill Start Date:	08/18/1968	**Drill Finish Date:**	08/19/1968	**Plug Date:**	10/31/1968
Log File Date:	10/03/1968	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:		**Depth Well:**	124 feet	**Depth Water:**	80 feet

Water Bearing Stratifications:	Top	Bottom	Description
	80	110	Sandstone/Gravel/Conglomerate
	112	120	Sandstone/Gravel/Conglomerate

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

Appendix C

USGS Water Information System

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USGS Water Resources

Data Category: Site Information | Geographic Area: United States | GO

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USGS 332301103291301 11S.34E.02.33100

Available data for this site SUMMARY OF ALL AVAILABLE DATA | GO

Well Site

DESCRIPTION:

Latitude 33°23'01", Longitude 103°29'13" NAD27
Lea County, New Mexico
Well depth: not determined.
Land surface altitude: 4,145 feet above NAVD88.
Well completed in "Ogallala Formation" (121OGLL) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1981-02-17	1990-11-30	3

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

---

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U.S. Department of the Interior | U.S. Geological Survey

Title: NWIS Site Information for USA: Site Inventory
URL: https://waterdata.usgs.gov/nwis/inventory?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2017-12-15 08:55:07 EST
0.28 0.26 caww01

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

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Search Results -- 1 sites found

site_no list =

- 332301103291301

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

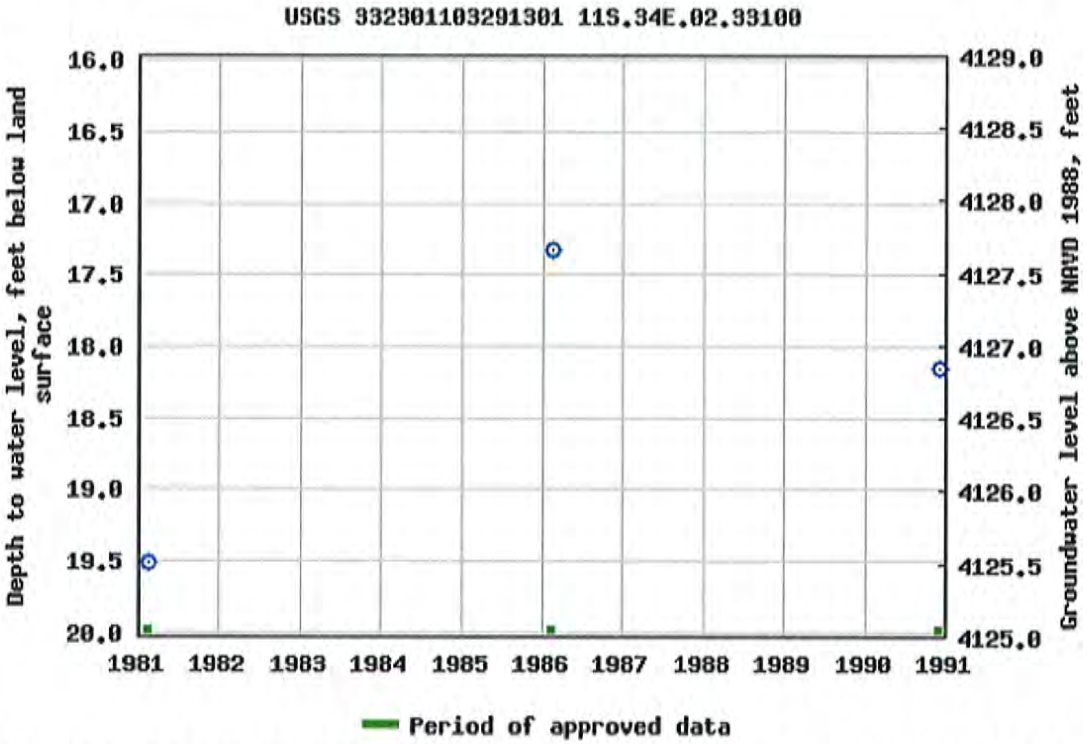
USGS 332301103291301 11S.34E.02.33100

Available data for this site Groundwater: Field measurements | GO

Lea County, New Mexico
Hydrologic Unit Code --
Latitude 33°23'01", Longitude 103°29'13" NAD27
Land-surface elevation 4,145 feet above NAVD88
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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



Breaks in the plot represent a gap of at least one year between field measurements.
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U.S. Department of the Interior | U.S. Geological Survey

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

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2017-12-15 08:55:18 EST
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Data Category: Site Information | Geographic Area: United States | GO

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USGS 332230103294501 11S.34E.10.413221

Available data for this site: SUMMARY OF ALL AVAILABLE DATA | GO

Well Site

DESCRIPTION:

Latitude 33°22'41", Longitude 103°29'47" NAD27
Lea County, New Mexico , Hydrologic Unit 12080001
Well depth: not determined.
Land surface altitude: 4,144.00 feet above NGVD29.
Well completed in "Ogallala Formation" (121OGLL) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1971-03-18	1996-01-24	6

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

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URL: https://waterdata.usgs.gov/nwis/inventory?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2017-12-15 08:45:09 EST
0.28 0.27 caww01

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Search Results -- 1 sites found

site_no list =

- 332230103294501

Minimum number of levels = 1

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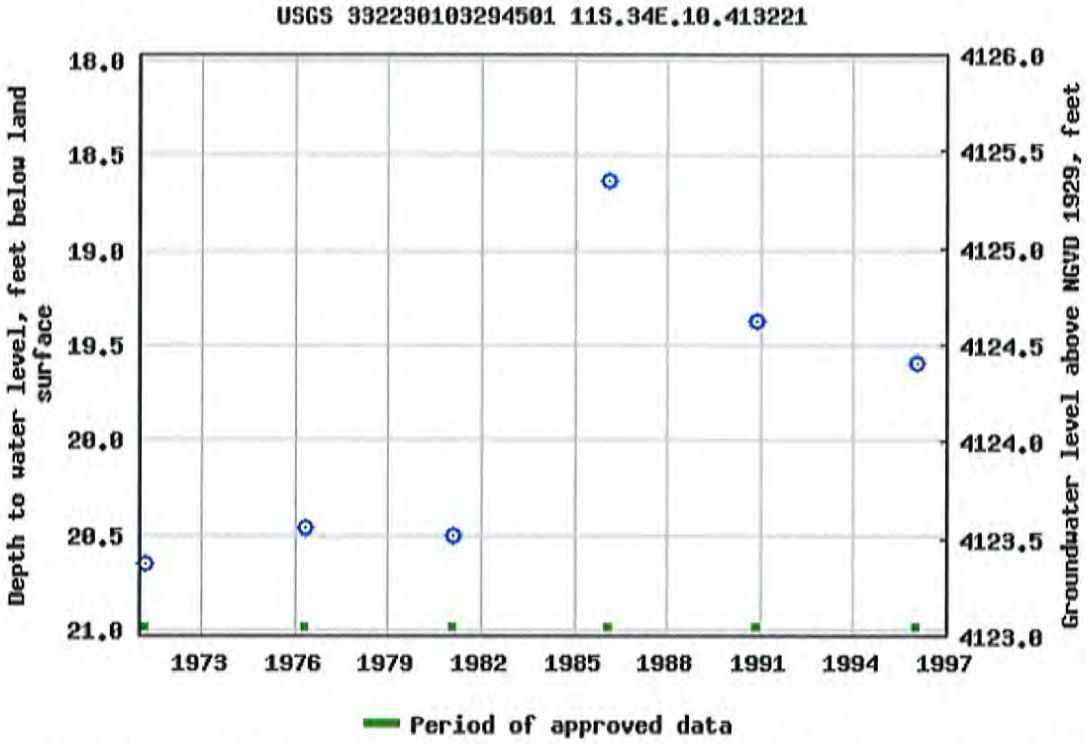
USGS 332230103294501 11S.34E.10.413221

Available data for this site Groundwater: Field measurements | GO

Lea County, New Mexico
Hydrologic Unit Code 12080001
Latitude 33°22'41", Longitude 103°29'47" NAD27
Land-surface elevation 4,144.00 feet above NGVD29
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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



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

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2017-12-15 08:45:27 EST
5.57 0.97 nadww01

USGS 332118103283901 11S.34E.14.434441

Available data for this site SUMMARY OF ALL AVAILABLE DATA GO

Well Site

DESCRIPTION:

Latitude 33°21'31", Longitude 103°28'38" NAD27
Lea County, New Mexico , Hydrologic Unit 12080001
Well depth: not determined.
Land surface altitude: 4,143.50 feet above NGVD29.
Well completed in "Ogallala Formation" (121OGLL) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1961-02-15	1981-02-17	5

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
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Title: NWIS Site Information for USA: Site Inventory
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site_no list =

- 332118103283901

Minimum number of levels = 1

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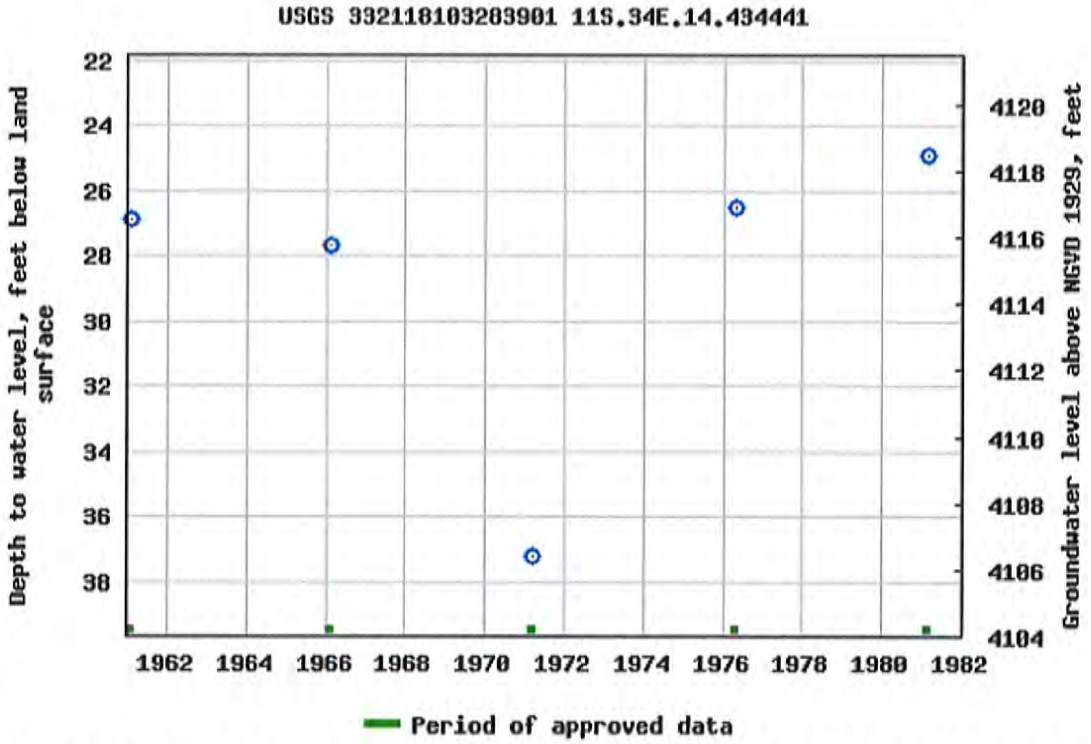
USGS 332118103283901 11S.34E.14.434441

Available data for this site Groundwater: Field measurements | GO

Lea County, New Mexico
Hydrologic Unit Code 12080001
Latitude 33°21'31", Longitude 103°28'38" NAD27
Land-surface elevation 4,143.50 feet above NGVD29
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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



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USGS 332212103282101 11S.34E.11.444

Available data for this site SUMMARY OF ALL AVAILABLE DATA | GO

Well Site

DESCRIPTION:

Latitude 33°22'25", Longitude 103°28'24" NAD27
Lea County, New Mexico , Hydrologic Unit 12080001
Well depth: not determined.
Land surface altitude: 4,138.00 feet above NGVD29.

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1961-02-15	1976-04-27	4

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
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URL: https://waterdata.usgs.gov/nwis/inventory?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2017-12-15 09:02:50 EST
0.36 0.31 caww01

National Water Information System: Web Interface

USGS Water Resources

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

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Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 332212103282101

Minimum number of levels = 1

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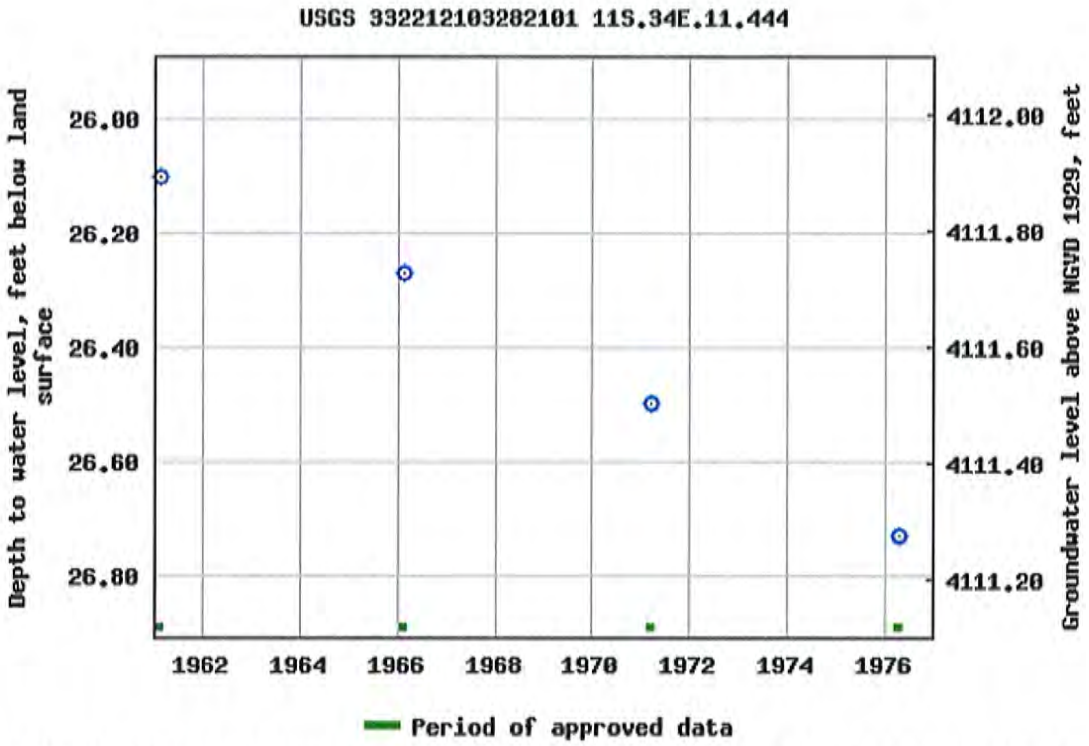
USGS 332212103282101 11S.34E.11.444

Available data for this site Groundwater: Field measurements | GO

Lea County, New Mexico
Hydrologic Unit Code 12080001
Latitude 33°22'25", Longitude 103°28'24" NAD27
Land-surface elevation 4,138.00 feet above NGVD29

Output formats

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



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U.S. Department of the Interior | U.S. Geological Survey

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

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2017-12-15 09:03:05 EST
1.01 0.9 nadww01

Appendix D

Form C-141 Initial

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

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

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

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company	OGRID Number	Contact
EOG Y Resources, Inc.	25575	Robert Asher
Address		Telephone No.
104 S. 4th Street		575-748-1471
Facility Name		Facility Type
Waylon BMD State #8		Battery

Surface Owner	Mineral Owner	API No.
State	State	30-005-38256

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	14	11S	34E	660	North	2310	West	Lea

Latitude 33.3712234 **Longitude** 103.4824219

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Oil	5 B/O	4.5 B/O
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Production Tank	11/25/2017; PM	11/25/2017; PM
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
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.*
Pumper drained water from oil tank to water tank. Left valve open to long causing to much fluid to equalize over. Causing water tank to run over. Vacuum truck(s) and roustabout/backhoe crews were called.

Describe Area Affected and Cleanup Action Taken.*
An approximate area of 10'X 30', this battery is bermed and has a synthetic liner. Vacuum truck recovered 4.5 B/O, remaining 0.5 B/O entrained within gravel material on top of liner. Roustabout crews removed impacted gravel, that gravel was disposed at an NMOCD approved facility. EOG Y will inspect liner and attest to liner integrity. **Depth to Ground Water: <50' (approximately 33.85', per NMOSE & USGS Groundwater Levels), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 20. Based off of the liner inspection/enclosed photos, EOG Y 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:	OIL CONSERVATION DIVISION	
Printed Name: Robert Asher	Approved by Environmental Specialist:	
Title: Environmental Supervisor	Approval Date:	Expiration Date:
E-mail Address: Robert_Asher@eogresources.com	Conditions of Approval:	Attached ☐
Date: December 15, 2017 Phone: 575-748-4217	**1RP-**	

* Attach Additional Sheets If Necessary

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

State of New Mexico
Energy Minerals and Natural Resources

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

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

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company	OGRID Number	Contact
EOG Y Resources, Inc.	25575	Robert Asher
Address		Telephone No.
104 S. 4th Street		575-748-1471
Facility Name		Facility Type
Waylon BMD State #8		Battery

Surface Owner	Mineral Owner	API No.
State	State	30-025-38256

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	14	11S	34E	660	North	2310	West	Lea

Latitude 33.3712234 Longitude 103.4824219

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Oil	5 B/O	4.5 B/O
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Production Tank	11/25/2017; PM	11/25/2017; PM
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
	N/A	
By Whom?	Date and Hour	
N/A	N/A	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

RECEIVED
By Olivia Yu at 2:00 pm, Dec 18, 2017

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Pumper drained water from oil tank to water tank. Left valve open to long causing to much fluid to equalize over. Causing water tank to run over. Vacuum truck(s) and roustabout/backhoe crews were called.

Describe Area Affected and Cleanup Action Taken.*
An approximate area of 10'X 30', this battery is bermed and has a synthetic liner. Vacuum truck recovered 4.5 B/O, remaining 0.5 B/O entrained within gravel material on top of liner. Roustabout crews removed impacted gravel, that gravel was disposed at an NMOCD approved facility. EOG Y will inspect liner and attest to liner integrity. **Depth to Ground Water: <50' (approximately 33.85', per NMOSE & USGS Groundwater Levels), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 20. Based off of the liner inspection/enclosed photos, EOG Y 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: Environmental Supervisor

E-mail Address: Robert_Asher@eogresources.com

Date: December 15, 2017 Phone: 575-748-4217

Attach Additional Sheets If Necessary

OIL CONSERVATION DIVISION

Approved by Environmental Specialist:

Approval Date: 12/18/2017 Expiration Date:

Conditions of Approval:
Please inspect liner in question. Provide NMOCD with a concise report of the inspection with affirmation the liner has and will continue to contain liquids.

Attached ☐

nOY1735250845


eog y resources (575) 748-1471
WAYLON State Unit #8
660' FNL & 2310' FWL - NE/NW
Sec. 14 - T 11 S - R 34 E - Unit C
Lea Co. New Mexico
Lse. # VO-5305 - API #30-025-38256
AFE # 07-268-0
11/30/2017 09:47

11/30/2017 09:48

11/30/2017 09:49

11/30/2017 09:49

11/30/2017 09:49

11/30/2017 09:50