

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    | nAPP2208453065 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

## Release Notification

### Responsible Party

|   |                              |
|---|------------------------------|
| Responsible Party Devon Energy Production Company               | OGRID 6137                   |
| Contact Name Dale Woodall                                       | Contact Telephone            |
| Contact email Dale.Woodall@dvn.com                              | Incident # (assigned by OCD) |
| Contact mailing address 6488 Seven Rivers Hwy Artesia, NM 88210 |                              |

### Location of Release Source

Latitude 32.345969 Longitude -104.208877  
(NAD 83 in decimal degrees to 5 decimal places)

|                                    |                      |
|------------------------------------|----------------------|
| Site Name Cascade Fee 001          | Site Type Oil        |
| Date Release Discovered 03/25/2022 | API# (if applicable) |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| J           | 32      | 22S      | 27E   | Eddy   |

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

|  |  |  |
|--|--|--|
| <input type="checkbox"/> Crude Oil                 | Volume Released (bbls)   | Volume Recovered (bbls)                                  |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) 140 BBLS  | Volume Recovered (bbls) 140 BBLS                         |
|  | Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate                | Volume Released (bbls)   | Volume Recovered (bbls)                                  |
| <input type="checkbox"/> Natural Gas               | Volume Released (Mcf)  | Volume Recovered (Mcf)                                   |
| <input type="checkbox"/> Other (describe)          | Volume/Weight Released (provide units)   | Volume/Weight Recovered (provide units)                  |

Cause of Release Fluid from tanks ran over into lined containment.

|                |                |
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|  |   |
|--|---|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  | If YES, for what reason(s) does the responsible party consider this a major release?<br><b>Spill is over 25 BLLS.</b> |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?<br><b>Immediate notice given to OCD Portal (NOR) by Dale Woodall on 03/25/2022.</b> |   |

### Initial Response

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

|  |                                |
|--|--------------------------------|
| <input checked="" type="checkbox"/> The source of the release has been stopped.<br><input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.<br><input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.<br><input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.   |                                |
| If all the actions described above have <u>not</u> been undertaken, explain why:   |                                |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.  |                                |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. |                                |
| Printed Name: <b>Kendra Ruiz</b>   | Title: <b>EHS Associate</b>    |
| Signature: <u>Kendra Ruiz</u>  | Date: <u>04/13/2022</u>        |
| email: <b>Kendra.Ruiz@dvn.com</b>  | Telephone: <b>575-748-0167</b> |
| <b><u>OCD Only</u></b>   |                                |
| Received by: <u>Jocelyn Harimon</u>  | Date: <u>04/13/2022</u>        |

| Spills In Lined Containment                                      |        |
|--|--------|
| Measurements Of Standing Fluid                                   |        |
| Length(Ft)   | 148    |
| Width(Ft)  | 105    |
| Depth(in.)   | 0.64   |
| Total Capacity without tank displacements (bbls)                 | 147.62 |
| No. of 500 bbl Tanks In Standing Fluid                           | 4      |
| No. of Other Tanks In Standing Fluid                             | 0      |
| OD Of Other Tanks In Standing Fluid(feet)                        | 15.6   |
| Total Volume of standing fluid accounting for tank displacement. | 140.45 |

|                |                |
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## Site Assessment/Characterization

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

|   |   |
|---|---|
| What is the shallowest depth to groundwater beneath the area affected by the release?   | <u>87'</u> (ft bgs)   |
| Did this release impact groundwater or surface water?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

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

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

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

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



State of New Mexico  
Oil Conservation Division

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Printed Name: Dale Woodall Title: Environmental Professional  
Signature: Dale Woodall Date: May 11, 2022  
email: dale.woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

|                |                |
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## Remediation Plan

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

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

|                |                |
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## Closure

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

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

- ☒ 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: Dale Woodall Title: Environmental Professional

Signature: Dale Woodall Date: May 11, 2022

email: dale.woodall@dvn.com Telephone: 575-748-1838

### OCD Only

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

|                |                |
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Printed Name: Dale Woodall Title: Environmental Professional

Signature: Dale Woodall Date: May 11, 2022

email: dale.woodall@dvn.com Telephone: 575-748-1838

### OCD Only

Received by: Robert Hamlet Date: 6/16/2022

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: Robert Hamlet Date: 6/16/2022

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced



402 E. Wood Avenue  
Carlsbad, New Mexico 88220  
Tel. 432.701.2159  
www.ntgenvironmental.com

May 11, 2022

Mike Bratcher  
District Supervisor  
Oil Conservation Division, District 2  
811 S. First Street  
Artesia, New Mexico 88210

**Re: Closure Report  
Cascade Fee #001  
Devon Energy Production Company  
Site Location: Unit J S32 T22S R27E  
(Lat 32.3458366, Long -104.2089691)  
Eddy County, New Mexico  
Incident ID: NAPP2208453065**

Mr. Bratcher:

On behalf of Devon Energy Production Company (Devon), New Tech Global Environmental, LLC (NTGE) has prepared this letter to document the liner inspection activities for the Ragin Cajun Central Tank Battery (Site). The Site is located in Eddy County approximately 5.1 miles south of Carlsbad, New Mexico (Figures 1 and 2).

### **Background**

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on March 25, 2022. The release was the result of equipment failure within the tank battery and all released fluids were contained within the lined secondary containment. The leak resulted in the releases of approximately 140 barrels (bbls) of produced water of which 140 (bbls) were recovered. The initial C-141 form is attached.

### **Site Characterization**

The Site is located within a Medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there are 11 water wells within a 0.5 mile radius of the Site. The nearest identified well is located approximately 0.15 miles south of the Site in S32 T22S R27E. The well was drilled on April 25, 2021 and has a reported depth to groundwater of 87 feet below ground surface (ft bgs).

Review of USGS topographic map (Figure 2) and National Flood Hazard Layer (NFHL) data identified no significant watercourse within a 0.5 mile of the Site.

A copy of the site characterization information and the associated Point of Diversion Summary report for the nearest water well is attached.

Mr. Mike Bratcher  
May 11, 2022  
Page 2 of 2

### **Regulatory Criteria**

In accordance with the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria are applicable to the Site.

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH (GRO + DRO): 1,000 mg/kg
- TPH (GRO + DRO + MRO): 2,500 mg/kg.
- Chloride: 10,000 mg/kg.

### **Liner Inspection**

On April 7, 2022, NTGE conducted liner inspection activities to assess the liner integrity at the Site. NTGE personnel conducted a visual inspection of the liner and found the liner to be intact with no integrity issues. A photographic log documenting the condition of the liner at the time of the inspection is attached. Additionally, a copy of the 48-hour advance notification of the liner inspection activities provided to the NMOCD is also attached.

### **Conclusions**

Based on the finding of the liner inspection, no further actions are required at the Site. The final C-141 is attached and Devon formally requests a no further action designation for the release. If you have any questions regarding this report or need additional information, please contact us at 432-701-2159.

Sincerely,  
**NTG Environmental**



Ethan Sessums  
Jr. Project Manager

#### Attachments:

Initial and Final C-141  
Site Characterization Information  
Figures  
Photographic Log  
NMOCD 48-Hour Advance Notification

## **INITIAL AND FINAL C-141**

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1625 N. French Dr., Hobbs, NM 88240  
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Form C-141  
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Submit to appropriate OCD District office

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## Release Notification

### Responsible Party

|                         |                              |
|-------------------------|------------------------------|
| Responsible Party       | OGRID                        |
| Contact Name            | Contact Telephone            |
| Contact email           | Incident # (assigned by OCD) |
| Contact mailing address |                              |

### Location of Release Source

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

|                         |                      |
|-------------------------|----------------------|
| Site Name               | Site Type            |
| Date Release Discovered | API# (if applicable) |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
|             |         |          |       |        |

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

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

Cause of Release



State of New Mexico  
Oil Conservation Division

|                |  |
|----------------|--|
| Incident ID    |  |
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|  |  |
|--|--|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br><input type="checkbox"/> Yes <input type="checkbox"/> No | If YES, for what reason(s) does the responsible party consider this a major release? |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?               |  |

**Initial Response**

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

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|--|-------------------------|
| <input type="checkbox"/> The source of the release has been stopped.   |                         |
| <input type="checkbox"/> The impacted area has been secured to protect human health and the environment.   |                         |
| <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.   |                         |
| <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.   |                         |
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| Printed Name: _____  | Title: _____            |
| Signature: <u>Kendra Ruiz</u>  | Date: _____             |
| email: _____   | Telephone: _____        |
| <b><u>OCD Only</u></b>   |                         |
| Received by: <u>Jocelyn Harimon</u>  | Date: <u>04/13/2022</u> |

| Spills In Lined Containment                                      |        |
|--|--------|
| Measurements Of Standing Fluid                                   |        |
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| Width(Ft)  | 105    |
| Depth(in.)   | 0.64   |
| Total Capacity without tank displacements (bbls)                 | 147.62 |
| No. of 500 bbl Tanks In Standing Fluid                           | 4      |
| No. of Other Tanks In Standing Fluid                             | 0      |
| OD Of Other Tanks In Standing Fluid(feet)                        | 15.6   |
| Total Volume of standing fluid accounting for tank displacement. | 140.45 |

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|---|---|
| What is the shallowest depth to groundwater beneath the area affected by the release?   | <u>87'</u> (ft bgs)   |
| Did this release impact groundwater or surface water?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
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| Are the lateral extents of the release within a 100-year floodplain?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

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

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

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

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

|                |                |
|----------------|----------------|
| Incident ID    | nAPP2208453065 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

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: Dale Woodall Title: Environmental Professional

Signature: Dale Woodall Date: May 11, 2022

email: dale.woodall@dnv.com Telephone: 575-748-1838

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

|                |                |
|----------------|----------------|
| Incident ID    | nAPP2208453065 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

## 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: \_\_\_\_\_

|                |                |
|----------------|----------------|
| Incident ID    | nAPP2208453065 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

## Closure

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

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

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

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

Printed Name: Dale Woodall Title: Environmental Professional

Signature: Dale Woodall Date: May 11, 2022

email: dale.woodall@dvn.com Telephone: 575-748-1838

### OCD Only

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

## **SITE CHARACTERIZATION INFORMATION**

---

Devon Energy - Cascade Fee #1  
Sec 32 T22S R27E Unit J  
32.3458366, -104.2089691  
Eddy County, New Mexico

Site Characterization

-Eleven (11) water features within specified distances of 1/2 mile radius

-Medium Karst

- USGS Groundwater is 133.44' below surface, 0.29 miles North of the site, 1957 Drilled, Section 32
- USGS Groundwater is 163.17' below surface, 0.34 miles North-northeast of the site, 1955 Drilled, Section 32
- NMSEO Groundwater is 60' below surface, 0.37 miles North-northeast of the site, 1992 Drilled, Section 32
- NMSEO Groundwater is 71' below surface, 0.39 miles East-southeast of the site, 2000 Drilled, Section 33
- NMSEO Groundwater is 71' below surface, 0.29 miles South-southeast of the site, 2003 Drilled, Section 32
- NMSEO Groundwater is 87' below surface, 0.15 miles South of the site, 2021 Drilled, Section 32
- NMSEO Groundwater is 90' below surface, 0.16 miles South-southeast of the site, 2012 Drilled, Section 32
- NMSEO Groundwater is 120' below surface, 0.29 miles West of the site, 2014 Drilled, Section 32
- NMSEO Groundwater is 126' below surface, 0.44 miles East-southeast of the site, 1987 Drilled, Section 32
- NMSEO Groundwater is 143' below surface, 0.28 miles North-northwest of the site, 1954 Drilled, Section 36
- NMSEO Groundwater is 155' below surface, 0.45 miles East-southeast of the site, 1978 Drilled, Section 32

RRALs due to insufficient \*RECENT\* groundwater data\

- Chlorides 600 mg/kg
- TPH GRO+DRO+MRO 100 mg/kg
- BTEX 50 mg/kg
- Benzene 10 mg/kg



## Medium Karst

Devon Energy  
Eddy County, NM  
Site Coordinates: 32.3458366, -104.2089691

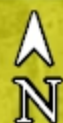
### Legend

- Site Location
- MEDIUM



Cascade Fee #1

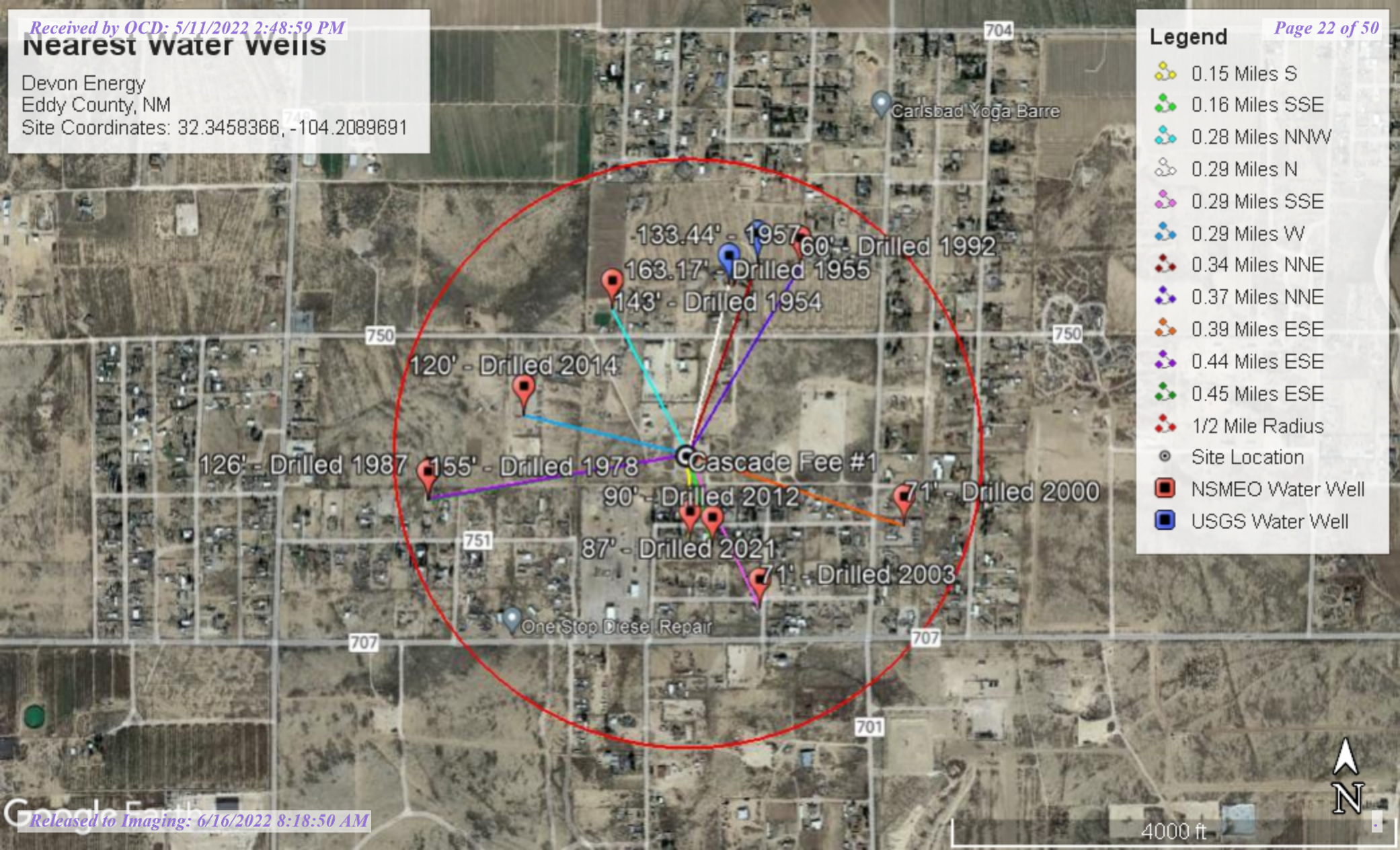
One Stop Diesel Repair



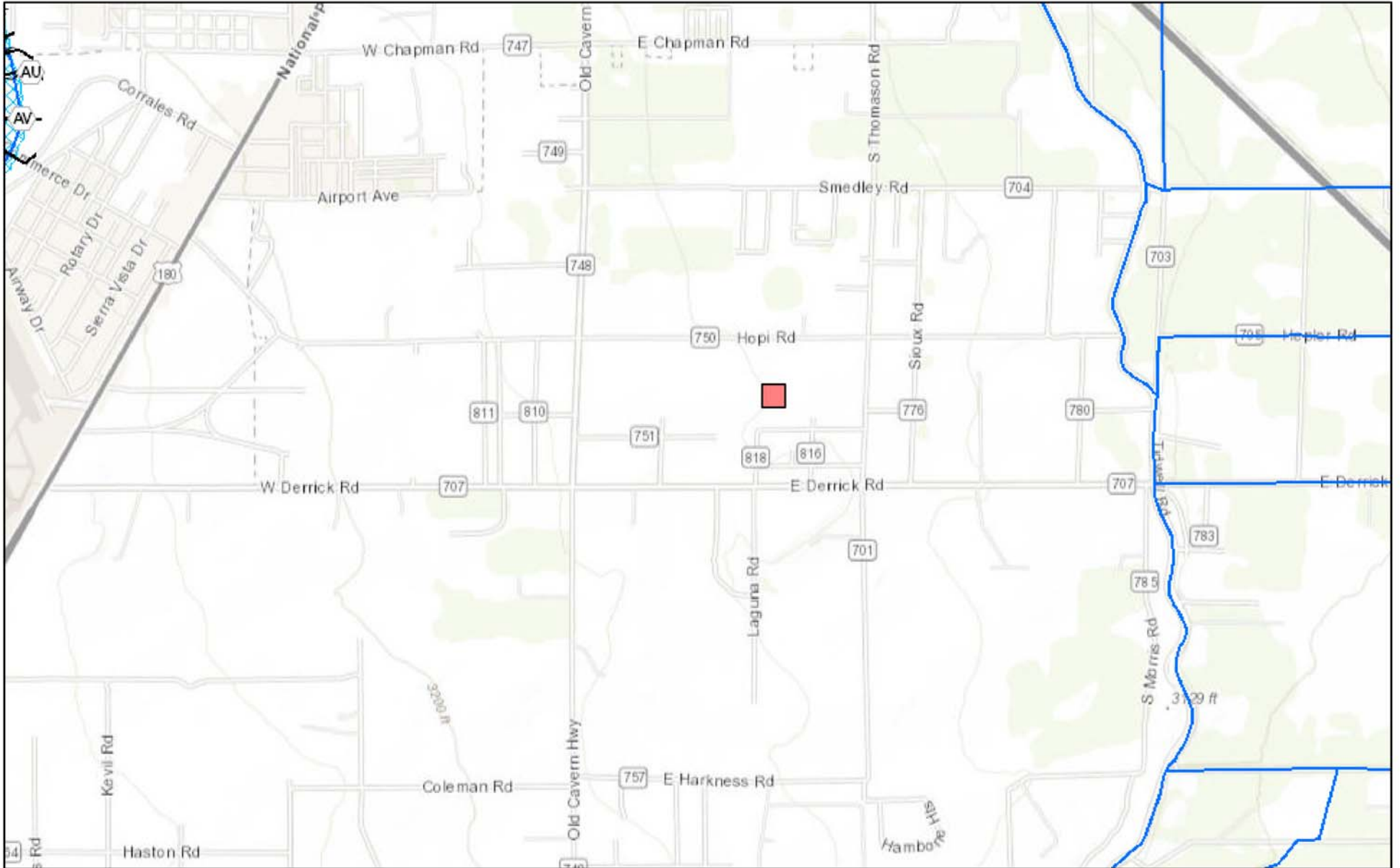


## Nearest water wells

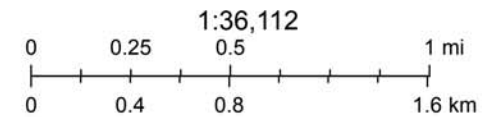
Devon Energy  
Eddy County, NM  
Site Coordinates: 32.3458366, -104.2089691



# New Mexico NFHL Data



April 3, 2022



FEMA, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,


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New Mexico Office of the State Engineer  
Point of Diversion Summary

|                                |                        |  |        |                               |     |                  |     |                       |  |
|--------------------------------|------------------------|--|--------|-------------------------------|-----|------------------|-----|-----------------------|--|
|                                |                        | (quarters are 1=NW 2=NE 3=SW 4=SE)<br>(quarters are smallest to largest) |        |                               |     |                  |     | (NAD83 UTM in meters) |  |
| Well Tag                       | POD Number             | Q64  | Q16    | Q4                            | Sec | Tws              | Rng | X                     | Y  |
|                                | C 02262                | 4  | 2      | 32                            | 22S | 27E              |     | 574732                | 3579544*  |
|                                |                        |  |        |                               |     |                  |     |                       |  |
| Driller License:               | 1184                   | Driller Company:   |        | WEST TEXAS WATER WELL SERVICE |     |                  |     |                       |  |
| Driller Name:                  | COLLIS, ROBERT E. (LD) |  |        |                               |     |                  |     |                       |  |
| Drill Start Date:              | 10/07/1992             | Drill Finish Date:   |        | 10/07/1992                    |     | Plug Date:       |     |                       |  |
| Log File Date:                 | 10/29/1992             | PCW Rcv Date:  |        |                               |     | Source:          |     | Shallow               |  |
| Pump Type:                     |                        | Pipe Discharge Size:   |        |                               |     | Estimated Yield: |     | 40 GPM                |  |
| Casing Size:                   | 5.00                   | Depth Well:  |        | 128 feet                      |     | Depth Water:     |     | 60 feet               |  |
|                                |                        |  |        |                               |     |                  |     |                       |  |
| Water Bearing Stratifications: |                        | Top  | Bottom | Description                   |     |                  |     |                       |  |
|                                |                        | 65   | 128    | Sandstone/Gravel/Conglomerate |     |                  |     |                       |  |
|                                |                        |  |        |                               |     |                  |     |                       |  |
| Casing Perforations:           |                        | Top  | Bottom |                               |     |                  |     |                       |  |
|                                |                        | 88   | 128    |                               |     |                  |     |                       |  |

\*UTM location was derived from PLSS - see Help

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|                                |                    |  |        |                               |     |                  |     |                       |  |
|--------------------------------|--------------------|--|--------|-------------------------------|-----|------------------|-----|-----------------------|--|
|                                |                    | (quarters are 1=NW 2=NE 3=SW 4=SE)<br>(quarters are smallest to largest) |        |                               |     |                  |     | (NAD83 UTM in meters) |  |
| Well Tag                       | POD Number         | Q64  | Q16    | Q4                            | Sec | Tws              | Rng | X                     | Y  |
| C                              | 02970              | 3  | 4      | 4                             | 32  | 22S              | 27E | 574635                | 3578630*  |
|                                |                    |  |        |                               |     |                  |     |                       |  |
| Driller License:               | 1348               | Driller Company:   |        | TAYLOR WATER WELL SERVICE     |     |                  |     |                       |  |
| Driller Name:                  | TAYLOR, CLINTON E. |  |        |                               |     |                  |     |                       |  |
| Drill Start Date:              | 06/12/2003         | Drill Finish Date:   |        | 06/13/2003                    |     | Plug Date:       |     |                       |  |
| Log File Date:                 | 07/16/2003         | PCW Rcv Date:  |        |                               |     | Source:          |     | Shallow               |  |
| Pump Type:                     |                    | Pipe Discharge Size:   |        |                               |     | Estimated Yield: |     | 100 GPM               |  |
| Casing Size:                   | 5.00               | Depth Well:  |        | 138 feet                      |     | Depth Water:     |     | 71 feet               |  |
|                                |                    |  |        |                               |     |                  |     |                       |  |
| Water Bearing Stratifications: |                    | Top  | Bottom | Description                   |     |                  |     |                       |  |
|                                |                    | 124  | 134    | Sandstone/Gravel/Conglomerate |     |                  |     |                       |  |
|                                |                    |  |        |                               |     |                  |     |                       |  |
| Casing Perforations:           |                    | Top  | Bottom |                               |     |                  |     |                       |  |
|                                |                    | 118  | 138    |                               |     |                  |     |                       |  |

\*UTM location was derived from PLSS - see Help


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POINT OF DIVERSION SUMMARY




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|                                |                |  |        |                               |     |                  |     |                       |   |
|--------------------------------|----------------|--|--------|-------------------------------|-----|------------------|-----|-----------------------|---|
|                                |                | (quarters are 1=NW 2=NE 3=SW 4=SE)<br>(quarters are smallest to largest) |        |                               |     |                  |     | (NAD83 UTM in meters) |   |
| Well Tag                       | POD Number     | Q64  | Q16    | Q4                            | Sec | Tws              | Rng | X                     | Y   |
| 20E19                          | C 04332 POD1   | 2  | 3      | 4                             | 32  | 22S              | 27E | 574436                | 3578805  |
|                                |                |  |        |                               |     |                  |     |                       |   |
| Driller License:               | 1348           | Driller Company:   |        | TAYLOR WATER WELL SERVICE     |     |                  |     |                       |   |
| Driller Name:                  | CLINTON TAYLOR |  |        |                               |     |                  |     |                       |   |
|                                |                |  |        |                               |     |                  |     |                       |   |
| Drill Start Date:              | 04/25/2021     | Drill Finish Date:   |        | 04/26/2021                    |     | Plug Date:       |     |                       |   |
| Log File Date:                 | 05/27/2021     | PCW Rcv Date:  |        |                               |     | Source:          |     | Shallow               |   |
| Pump Type:                     |                | Pipe Discharge Size:   |        |                               |     | Estimated Yield: |     | 100 GPM               |   |
| Casing Size:                   | 4.50           | Depth Well:  |        | 98 feet                       |     | Depth Water:     |     | 87 feet               |   |
|                                |                |  |        |                               |     |                  |     |                       |   |
| Water Bearing Stratifications: |                | Top  | Bottom | Description                   |     |                  |     |                       |   |
|                                |                | 87   | 98     | Sandstone/Gravel/Conglomerate |     |                  |     |                       |   |
|                                |                |  |        |                               |     |                  |     |                       |   |
| Casing Perforations:           |                | Top  | Bottom |                               |     |                  |     |                       |   |
|                                |                | 78   | 98     |                               |     |                  |     |                       |   |

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New Mexico Office of the State Engineer  
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|                                |                    |  |     |                            |     |                  |                               |                       |   |
|--------------------------------|--------------------|--|-----|----------------------------|-----|------------------|-------------------------------|-----------------------|---|
|                                |                    | (quarters are 1=NW 2=NE 3=SW 4=SE)<br>(quarters are smallest to largest) |     |                            |     |                  |                               | (NAD83 UTM in meters) |   |
| Well Tag                       | POD Number         | Q64  | Q16 | Q4                         | Sec | Tws              | Rng                           | X                     | Y   |
| C                              | 03504 POD1         | 2  | 3   | 4                          | 32  | 22S              | 27E                           | 574508                | 3578789  |
|                                |                    |  |     |                            |     |                  |                               |                       |   |
| Driller License:               | 1400               | Driller Company:   |     | SOUTHEAST DRILLING COMPANY |     |                  |                               |                       |   |
| Driller Name:                  | HAMMOND, MARK (LD) |  |     |                            |     |                  |                               |                       |   |
| Drill Start Date:              | 07/15/2012         | Drill Finish Date:   |     | 07/19/2012                 |     | Plug Date:       |                               |                       |   |
| Log File Date:                 | 07/26/2012         | PCW Rcv Date:  |     |                            |     | Source:          |                               | Shallow               |   |
| Pump Type:                     |                    | Pipe Discharge Size:   |     |                            |     | Estimated Yield: |                               | 20 GPM                |   |
| Casing Size:                   | 6.00               | Depth Well:  |     | 105 feet                   |     | Depth Water:     |                               | 90 feet               |   |
|                                |                    |  |     |                            |     |                  |                               |                       |   |
| Water Bearing Stratifications: |                    |  |     |                            | Top | Bottom           | Description                   |                       |   |
|                                |                    |  |     |                            | 90  | 100              | Sandstone/Gravel/Conglomerate |                       |   |
|                                |                    |  |     |                            |     |                  |                               |                       |   |
| Casing Perforations:           |                    |  |     |                            | Top | Bottom           |                               |                       |   |
|                                |                    |  |     |                            | 60  | 105              |                               |                       |   |

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|                                |                |  |     |                     |     |                               |     |                       |   |
|--------------------------------|----------------|--|-----|---------------------|-----|-------------------------------|-----|-----------------------|---|
|                                |                | (quarters are 1=NW 2=NE 3=SW 4=SE)<br>(quarters are smallest to largest) |     |                     |     |                               |     | (NAD83 UTM in meters) |   |
| Well Tag                       | POD Number     | Q64  | Q16 | Q4                  | Sec | Tws                           | Rng | X                     | Y   |
| C                              | 03821 POD1     | 2  | 2   | 3                   | 32  | 22S                           | 27E | 573988                | 3579146  |
|                                |                |  |     |                     |     |                               |     |                       |   |
| Driller License:               | 1737           | Driller Company:   |     | SHADE TREE DRILLING |     |                               |     |                       |   |
| Driller Name:                  | JUSTIN MULLINS |  |     |                     |     |                               |     |                       |   |
| Drill Start Date:              | 12/12/2014     | Drill Finish Date:   |     | 12/13/2014          |     | Plug Date:                    |     |                       |   |
| Log File Date:                 | 12/17/2014     | PCW Rcv Date:  |     |                     |     | Source:                       |     | Shallow               |   |
| Pump Type:                     |                | Pipe Discharge Size:   |     |                     |     | Estimated Yield:              |     | 150 GPM               |   |
| Casing Size:                   | 6.00           | Depth Well:  |     | 200 feet            |     | Depth Water:                  |     | 120 feet              |   |
|                                |                |  |     |                     |     |                               |     |                       |   |
| Water Bearing Stratifications: |                | Top  |     | Bottom              |     | Description                   |     |                       |   |
|                                |                | 80   |     | 195                 |     | Sandstone/Gravel/Conglomerate |     |                       |   |
|                                |                |  |     |                     |     |                               |     |                       |   |
| Casing Perforations:           |                | Top  |     | Bottom              |     |                               |     |                       |   |
|                                |                | 140  |     | 200                 |     |                               |     |                       |   |

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|                                |            |  |        |                               |     |                       |         |                  |  |
|--------------------------------|------------|--|--------|-------------------------------|-----|-----------------------|---------|------------------|--|
|                                |            | (quarters are 1=NW 2=NE 3=SW 4=SE)<br>(quarters are smallest to largest) |        |                               |     | (NAD83 UTM in meters) |         |                  |  |
| Well Tag                       | POD Number | Q64  | Q16    | Q4                            | Sec | Tws                   | Rng     | X                | Y  |
|                                | C 01749    |  |        |                               | 3   | 32                    | 22S 27E | 573728           | 3578915*  |
|                                |            |  |        |                               |     |                       |         |                  |  |
| Driller License: 969           |            | Driller Company:   |        | MAGBY, EDGAR W. & BRAD        |     |                       |         |                  |  |
| Driller Name: MAGBY, EDGAR     |            |  |        |                               |     |                       |         |                  |  |
| Drill Start Date: 01/30/1987   |            | Drill Finish Date:   |        | 02/05/1987                    |     | Plug Date:            |         |                  |  |
| Log File Date: 02/13/1987      |            | PCW Rcv Date:  |        |                               |     |                       |         | Source:          | Shallow  |
| Pump Type:                     |            | Pipe Discharge Size:   |        |                               |     |                       |         | Estimated Yield: | 20 GPM   |
| Casing Size: 5.00              |            | Depth Well:  |        | 156 feet                      |     | Depth Water:          |         | 126 feet         |  |
|                                |            |  |        |                               |     |                       |         |                  |  |
| Water Bearing Stratifications: |            | Top  | Bottom | Description                   |     |                       |         |                  |  |
|                                |            | 153  | 163    | Sandstone/Gravel/Conglomerate |     |                       |         |                  |  |
|                                |            |  |        |                               |     |                       |         |                  |  |
| Casing Perforations:           |            | Top  | Bottom |                               |     |                       |         |                  |  |
|                                |            | 126  | 156    |                               |     |                       |         |                  |  |

\*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



## New Mexico Office of the State Engineer Point of Diversion Summary

|                 |                   |                                    |          |          |                       |
|-----------------|-------------------|------------------------------------|----------|----------|-----------------------|
|                 |                   | (quarters are 1=NW 2=NE 3=SW 4=SE) |          |          | (NAD83 UTM in meters) |
| <b>Well Tag</b> | <b>POD Number</b> | <b>Q64 Q16 Q4 Sec Tws Rng</b>      | <b>X</b> | <b>Y</b> |                       |
| C               | 00343 CLW242784   | 3 3 2 32 22S 27E                   | 574227   | 3579437* |                       |

**Driller License:** 161      **Driller Company:** B & F DRILLING COMPANY

**Driller Name:** W.D. BRINNINSTOOL

**Drill Start Date:** 12/11/1954      **Drill Finish Date:** 12/18/1954      **Plug Date:**

**Log File Date:** 07/08/1955      **PCW Rev Date:** 06/08/1955      **Source:** Shallow

**Pump Type:** TURBIN      **Pipe Discharge Size:**      **Estimated Yield:** 600 GPM

**Casing Size:** 18.00      **Depth Well:** 193 feet      **Depth Water:** 143 feet

| Water Bearing Stratifications: | Top | Bottom | Description                   |
|--------------------------------|-----|--------|-------------------------------|
|                                | 153 | 170    | Sandstone/Gravel/Conglomerate |

\*UTM location was derived from PLSS - see Help


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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer  
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|                                |            |  |     |    |                  |        |                               |                  |  |
|--------------------------------|------------|--|-----|----|------------------|--------|-------------------------------|------------------|--|
|                                |            | (quarters are 1=NW 2=NE 3=SW 4=SE)<br>(quarters are smallest to largest) |     |    |                  |        | (NAD83 UTM in meters)         |                  |  |
| Well Tag                       | POD Number | Q64  | Q16 | Q4 | Sec              | Tws    | Rng                           | X                | Y  |
|                                | C 01833    |  |     |    | 3                | 32     | 22S 27E                       | 573728           | 3578915*  |
|                                |            |  |     |    |                  |        |                               |                  |  |
| Driller License: 592           |            | Driller Company:   |     |    | TOMBLIN DRILLING |        |                               |                  |  |
| Driller Name: JIM TOMBLIN      |            |  |     |    |                  |        |                               |                  |  |
| Drill Start Date: 12/26/1978   |            | Drill Finish Date:   |     |    | 01/09/1979       |        |                               | Plug Date:       |  |
| Log File Date: 01/22/1979      |            | PCW Rcv Date:  |     |    |                  |        |                               | Source:          | Shallow  |
| Pump Type:                     |            | Pipe Discharge Size:   |     |    |                  |        |                               | Estimated Yield: | 12 GPM   |
| Casing Size: 6.00              |            | Depth Well:  |     |    | 180 feet         |        |                               | Depth Water:     | 155 feet   |
|                                |            |  |     |    |                  |        |                               |                  |  |
| Water Bearing Stratifications: |            |  |     |    | Top              | Bottom | Description                   |                  |  |
|                                |            |  |     |    | 155              | 178    | Sandstone/Gravel/Conglomerate |                  |  |
|                                |            |  |     |    |                  |        |                               |                  |  |
| Casing Perforations:           |            |  |     |    | Top              | Bottom |                               |                  |  |
|                                |            |  |     |    | 155              | 180    |                               |                  |  |

\*UTM location was derived from PLSS - see Help

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

4/3/22 10:48 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

| POD Number                        | POD Sub-Code | basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X      | Y        | Distance | Depth Well | Depth Water | Water Column |
|-----------------------------------|--------------|-------|--------|------|------|-----|-----|-----|-----|--------|----------|----------|------------|-------------|--------------|
| <a href="#">C 04332 POD1</a>      | C            | ED    |        | 2    | 3    | 4   | 32  | 22S | 27E | 574436 | 3578805  | 239      | 98         | 87          | 11           |
| <a href="#">C 03504 POD1</a>      | C            | ED    |        | 2    | 3    | 4   | 32  | 22S | 27E | 574508 | 3578789  | 265      | 105        | 90          | 15           |
| <a href="#">C 00343</a>           | CUB          | ED    |        | 4    | 3    | 2   | 32  | 22S | 27E | 574427 | 3579437* | 392      | 200        |             |              |
| <a href="#">C 00204</a>           | CUB          | ED    |        | 3    | 3    | 2   | 32  | 22S | 27E | 574227 | 3579437* | 444      | 170        |             |              |
| <a href="#">C 00204 CLW194896</a> | O            | CUB   | ED     | 3    | 3    | 2   | 32  | 22S | 27E | 574227 | 3579437* | 444      | 170        |             |              |
| <a href="#">C 00343 CLW242784</a> | O            | CUB   | ED     | 3    | 3    | 2   | 32  | 22S | 27E | 574227 | 3579437* | 444      | 193        | 143         | 50           |
| <a href="#">C 00619</a>           | C            | ED    |        | 3    | 3    | 2   | 32  | 22S | 27E | 574227 | 3579437* | 444      | 250        |             |              |
| <a href="#">C 03821 POD1</a>      | C            | ED    |        | 2    | 2    | 3   | 32  | 22S | 27E | 573988 | 3579146  | 459      | 200        | 120         | 80           |
| <a href="#">C 02970</a>           | C            | ED    |        | 3    | 4    | 4   | 32  | 22S | 27E | 574635 | 3578630* | 460      | 138        | 71          | 67           |
| <a href="#">C 02262</a>           | C            | ED    |        |      | 4    | 2   | 32  | 22S | 27E | 574732 | 3579544* | 579      | 128        | 60          | 68           |
| <a href="#">C 04447 POD1</a>      | C            | ED    |        | 2    | 1    | 2   | 05  | 23S | 27E | 574500 | 3578460  | 588      | 200        |             |              |
| <a href="#">C 03066</a>           | C            | ED    |        | 1    | 1    | 3   | 33  | 22S | 27E | 575037 | 3579243* | 632      | 240        |             |              |
| <a href="#">C 02696</a>           | C            | ED    |        | 1    | 3    | 3   | 33  | 22S | 27E | 575038 | 3578836* | 636      | 124        | 71          | 53           |
| <a href="#">C 01749</a>           | C            | ED    |        |      |      | 3   | 32  | 22S | 27E | 573728 | 3578915* | 720      | 156        | 126         | 30           |
| <a href="#">C 01833</a>           | C            | ED    |        |      |      | 3   | 32  | 22S | 27E | 573728 | 3578915* | 720      | 180        | 155         | 25           |

Average Depth to Water: **102 feet**

Minimum Depth: **60 feet**

Maximum Depth: **155 feet**

Record Count: 15

UTMNAD83 Radius Search (in meters):

Easting (X): 574436.31

Northing (Y): 3579045

Radius: 800

\*UTM location was derived from PLSS - see Help

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4/1/22 9:05 AM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER



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USGS Water Resources

Data Category:Groundwater

Geographic Area:New Mexico

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Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 322100104122801

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

USGS 322100104122801 22S.27E.32.233444

Eddy County, New Mexico  
Latitude 32°21'00", Longitude 104°12'28" NAD27  
Land-surface elevation 3,156 feet above NAVD88  
The depth of the well is 220 feet below land surface.  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

| Date       | Time | ?<br>Water-level<br>date-time<br>accuracy | ?<br>Parameter<br>code | Water<br>level,<br>feet<br>below<br>land<br>surface | Water<br>level,<br>feet<br>above<br>specific<br>vertical<br>datum | Referenced<br>vertical<br>datum | ?<br>Status | ?<br>Method of<br>measurement | ?<br>Measuring<br>agency | ?<br>Source of<br>measurement | ?<br>Water-level<br>approval<br>status |
|------------|------|---|------------------------|---|---|---------------------------------|-------------|-------------------------------|--------------------------|-------------------------------|--|
|            |      |   |                        |   |   |                                 |             |                               |                          |                               |  |
| 1947-10-02 |      |   | D62610                 |   | 3070.03   | NGVD29                          | 1           | Z                             |                          |                               | A                                      |
| 1947-10-02 |      |   | D62611                 |   | 3071.62   | NAVD88                          | 1           | Z                             |                          |                               | A                                      |
| 1947-10-02 |      |   | D72019                 | 84.38   |   |                                 | 1           | Z                             |                          |                               | A                                      |
| 1948-01-14 |      |   | D62610                 |   | 3067.72   | NGVD29                          | 1           | Z                             |                          |                               | A                                      |
| 1948-01-14 |      |   | D62611                 |   | 3069.31   | NAVD88                          | 1           | Z                             |                          |                               | A                                      |
| 1948-01-14 |      |   | D72019                 | 86.69   |   |                                 | 1           | Z                             |                          |                               | A                                      |
| 1949-01-29 |      |   | D62610                 |   | 3060.86   | NGVD29                          | 1           | Z                             |                          |                               | A                                      |
| 1949-01-29 |      |   | D62611                 |   | 3062.45   | NAVD88                          | 1           | Z                             |                          |                               | A                                      |
| 1949-01-29 |      |   | D72019                 | 93.55   |   |                                 | 1           | Z                             |                          |                               | A                                      |
| 1950-01-18 |      |   | D62610                 |   | 3058.45   | NGVD29                          | P           | Z                             |                          |                               | A                                      |
| 1950-01-18 |      |   | D62611                 |   | 3060.04   | NAVD88                          | P           | Z                             |                          |                               | A                                      |
| 1950-01-18 |      |   | D72019                 | 95.96   |   |                                 | P           | Z                             |                          |                               | A                                      |
| 1951-01-16 |      |   | D62610                 |   | 3061.77   | NGVD29                          | 1           | Z                             |                          |                               | A                                      |
| 1951-01-16 |      |   | D62611                 |   | 3063.36   | NAVD88                          | 1           | Z                             |                          |                               | A                                      |
| 1951-01-16 |      |   | D72019                 | 92.64   |   |                                 | 1           | Z                             |                          |                               | A                                      |
| 1952-01-15 |      |   | D62610                 |   | 3038.61   | NGVD29                          | 1           | Z                             |                          |                               | A                                      |
| 1952-01-15 |      |   | D62611                 |   | 3040.20   | NAVD88                          | 1           | Z                             |                          |                               | A                                      |
| 1952-01-15 |      |   | D72019                 | 115.80  |   |                                 | 1           | Z                             |                          |                               | A                                      |
| 1953-02-28 |      |   | D62610                 |   | 3016.69   | NGVD29                          | P           | Z                             |                          |                               | A                                      |
| 1953-02-28 |      |   | D62611                 |   | 3018.28   | NAVD88                          | P           | Z                             |                          |                               | A                                      |
| 1953-02-28 |      |   | D72019                 | 137.72  |   |                                 | P           | Z                             |                          |                               | A                                      |
| 1954-01-13 |      |   | D62610                 |   | 3017.36   | NGVD29                          | 1           | Z                             |                          |                               | A                                      |
| 1954-01-13 |      |   | D62611                 |   | 3018.95   | NAVD88                          | 1           | Z                             |                          |                               | A                                      |
| 1954-01-13 |      |   | D72019                 | 137.05  |   |                                 | 1           | Z                             |                          |                               | A                                      |
| 1955-01-14 |      |   | D62610                 |   | 3015.00   | NGVD29                          | 1           | Z                             |                          |                               | A                                      |

| Date       | Time | ?<br>Water-level<br>date-time<br>accuracy | ?<br>Parameter<br>code | Water<br>level,<br>feet<br>below<br>land<br>surface | Water<br>level,<br>feet<br>above<br>specific<br>vertical<br>datum | Referenced<br>vertical<br>datum | ?<br>Status | ?<br>Method of<br>measurement | ?<br>Measuring<br>agency | ?<br>Source of<br>measurement | ?<br>Water-level<br>approval<br>status |
|------------|------|---|------------------------|---|---|---------------------------------|-------------|-------------------------------|--------------------------|-------------------------------|--|
|            |      |   |                        |   |   |                                 |             |                               |                          |                               |  |
| 1955-01-14 |      |   | D 62611                |   | 3016.59   | NAVD88                          | 1           | Z                             |                          |                               | A                                      |
| 1955-01-14 |      |   | D 72019                | 139.41  |   |                                 | 1           | Z                             |                          |                               | A                                      |
| 1956-01-06 |      |   | D 62610                |   | 3012.26   | NGVD29                          | 1           | Z                             |                          |                               | A                                      |
| 1956-01-06 |      |   | D 62611                |   | 3013.85   | NAVD88                          | 1           | Z                             |                          |                               | A                                      |
| 1956-01-06 |      |   | D 72019                | 142.15  |   |                                 | 1           | Z                             |                          |                               | A                                      |
| 1957-01-06 |      |   | D 62610                |   | 3020.97   | NGVD29                          | 1           | Z                             |                          |                               | A                                      |
| 1957-01-06 |      |   | D 62611                |   | 3022.56   | NAVD88                          | 1           | Z                             |                          |                               | A                                      |
| 1957-01-06 |      |   | D 72019                | 133.44  |   |                                 | 1           | Z                             |                          |                               | A                                      |

## Explanation

| Section                        | Code   | Description  |
|--------------------------------|--------|--|
| Water-level date-time accuracy | D      | Date is accurate to the Day                                  |
| Parameter code                 | 62610  | Groundwater level above NGVD 1929, feet                      |
| Parameter code                 | 62611  | Groundwater level above NAVD 1988, feet                      |
| Parameter code                 | 72019  | Depth to water level, feet below land surface                |
| Referenced vertical datum      | NAVD88 | North American Vertical Datum of 1988                        |
| Referenced vertical datum      | NGVD29 | National Geodetic Vertical Datum of 1929                     |
| Status                         | 1      | Static   |
| Status                         | P      | Pumping  |
| Method of measurement          | Z      | Other.   |
| Measuring agency               |        | Not determined   |
| Source of measurement          |        | Not determined   |
| Water-level approval status    | A      | Approved for publication -- Processing and review completed. |

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**Title: Groundwater for New Mexico: Water Levels**
**URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>**

 Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2022-04-03 14:33:10 EDT

0.29 0.25 nadww01





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Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 322102104122501

Minimum number of levels = 1  
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USGS 322102104122501 22S.27E.32.234323

Eddy County, New Mexico  
Latitude 32°21'02", Longitude 104°12'25" NAD27  
Land-surface elevation 3,152 feet above NAVD88  
The depth of the well is 193 feet below land surface.  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

|                                    |
|------------------------------------|
| <a href="#">Table of data</a>      |
| <a href="#">Tab-separated data</a> |
| <a href="#">Graph of data</a>      |
| <a href="#">Reselect period</a>    |

| Date       | Time | ?<br>Water-level date-time accuracy | ?<br>Parameter code | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ?<br>Status | ?<br>Method of measurement | ?<br>Measuring agency | ?<br>Source of measurement | ?<br>Water-level approval status |
|------------|------|-------------------------------------|---------------------|--------------------------------------|---|---------------------------|-------------|----------------------------|-----------------------|----------------------------|----------------------------------|
| 1955-06-06 |      |                                     | D                   | 62610                                | 2987.24   | NGVD29                    | 1           | Z                          |                       |                            | A                                |
| 1955-06-06 |      |                                     | D                   | 62611                                | 2988.83   | NAVD88                    | 1           | Z                          |                       |                            | A                                |
| 1955-06-06 |      |                                     | D                   | 72019                                | 163.17  |                           | 1           | Z                          |                       |                            | A                                |

Explanation

| Section                                     | Code   | Description  |
|---|--------|--|
| Water-level date-time accuracy              | D      | Date is accurate to the Day  |
| Parameter code                              | 62610  | Groundwater level above NGVD 1929, feet                                      |
| <a href="#">Parameter code</a>              | 62611  | <a href="#">Groundwater level above NAVD 1988, feet</a>                      |
| Parameter code                              | 72019  | Depth to water level, feet below land surface                                |
| <a href="#">Referenced vertical datum</a>   | NAVD88 | <a href="#">North American Vertical Datum of 1988</a>                        |
| Referenced vertical datum                   | NGVD29 | National Geodetic Vertical Datum of 1929                                     |
| Status                                      | 1      | Static   |
| Method of measurement                       | Z      | Other.   |
| <a href="#">Measuring agency</a>            |        | <a href="#">Not determined</a>   |
| Source of measurement                       |        | Not determined   |
| <a href="#">Water-level approval status</a> | A      | <a href="#">Approved for publication -- Processing and review completed.</a> |

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**Title: Groundwater for New Mexico: Water Levels**

**URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>**



Page Contact Information: [New Mexico Water Data Maintainer](#)

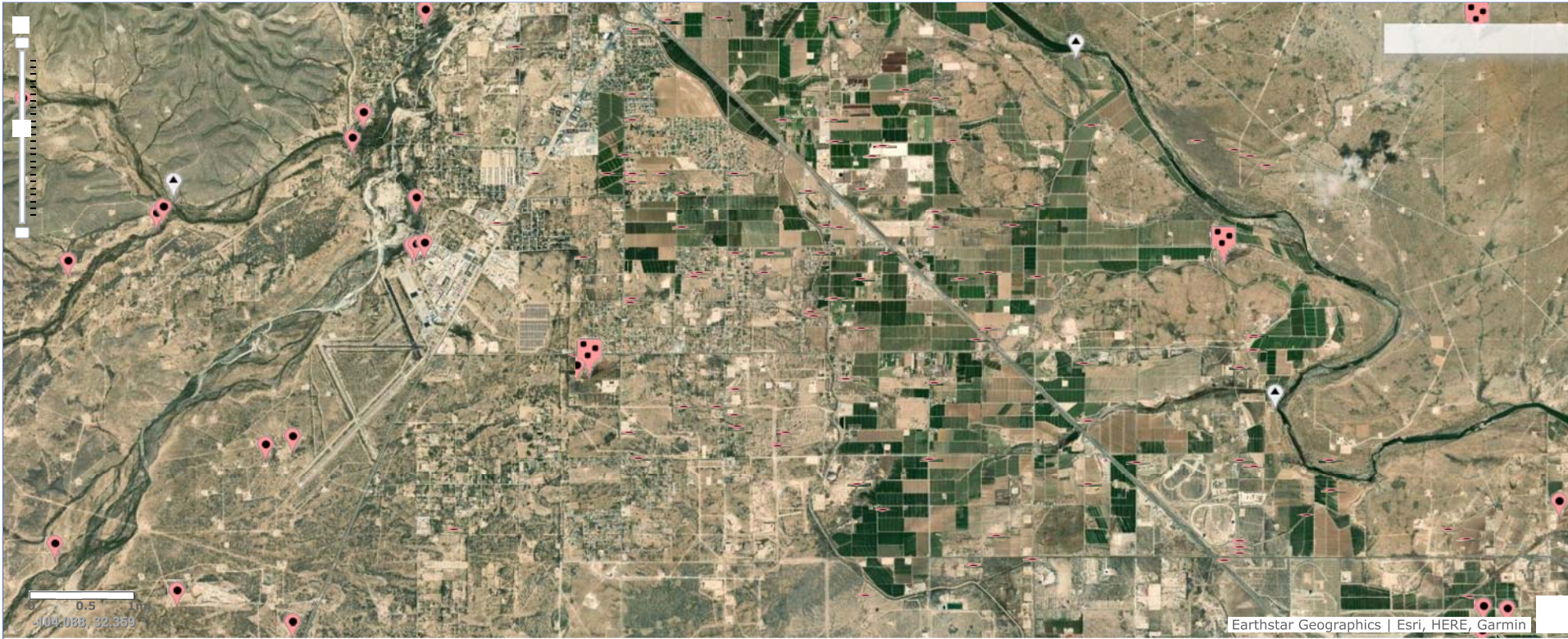
Page Last Modified: 2022-04-03 14:38:16 EDT

0.34 0.31 nadww01



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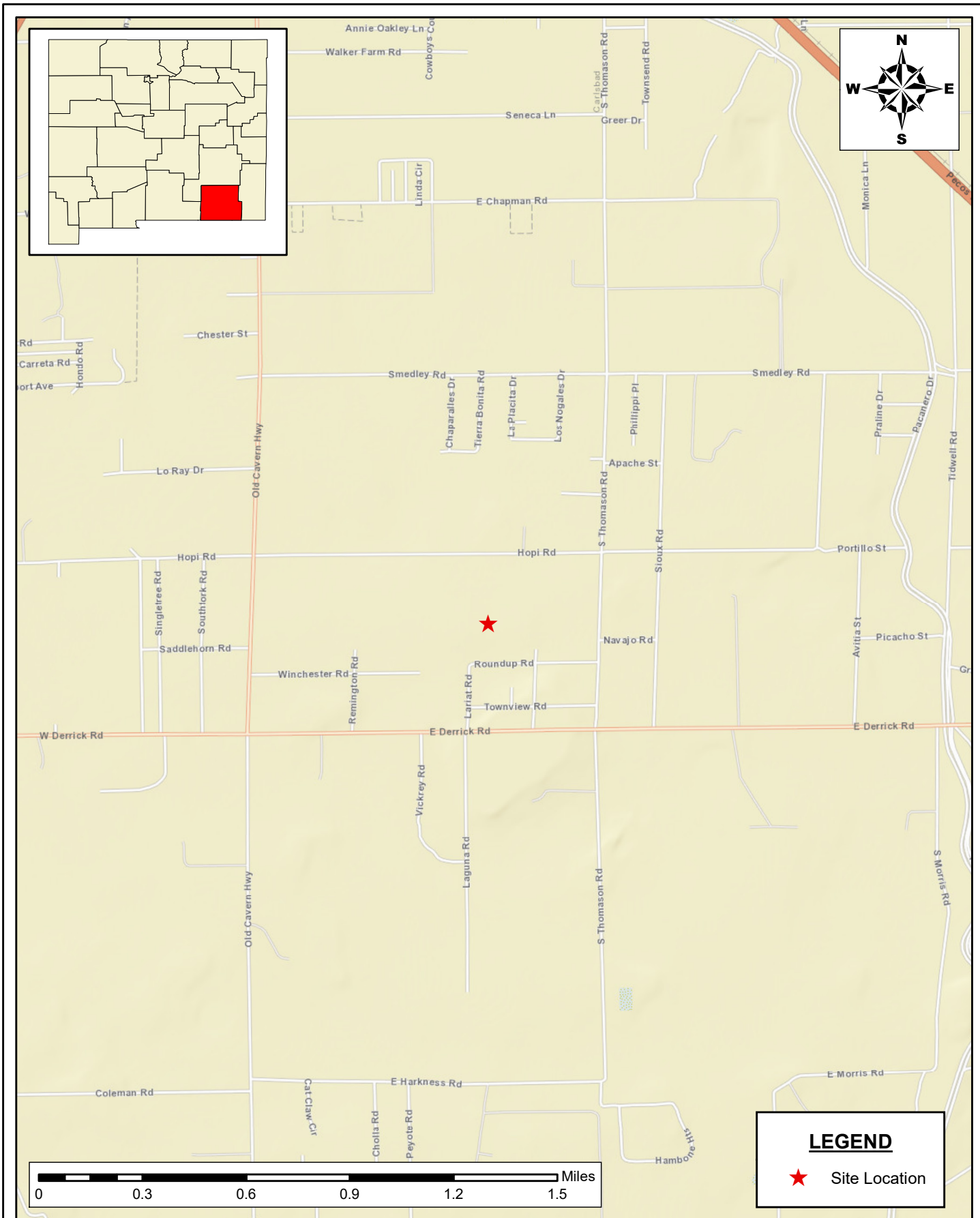


Site Information

## **FIGURES**

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Document Path: P:\2022 PROJECTS\DEVON\RSO\225510 - Cascade Fee #1\7- Figures\GIS\Figure\_1\_SL.mxd



**SITE LOCATION MAP**  
**CLOSURE REPORT**  
 CASCADE FEE #1  
 DEVON ENERGY PRODUCTION COMPANY  
 EDDY COUNTY, NEW MEXICO

SCALE: As Shown

Date: 4/18/2022

PROJECT #: 225510



**New Tech Global Environmental, LLC**  
 911 Regional Park Drive  
 Houston, Texas 77060  
 T - 281.872.9300  
 F - 281.872.4521  
 Web: www.ntgenvironmental.com

**NOTES:**

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

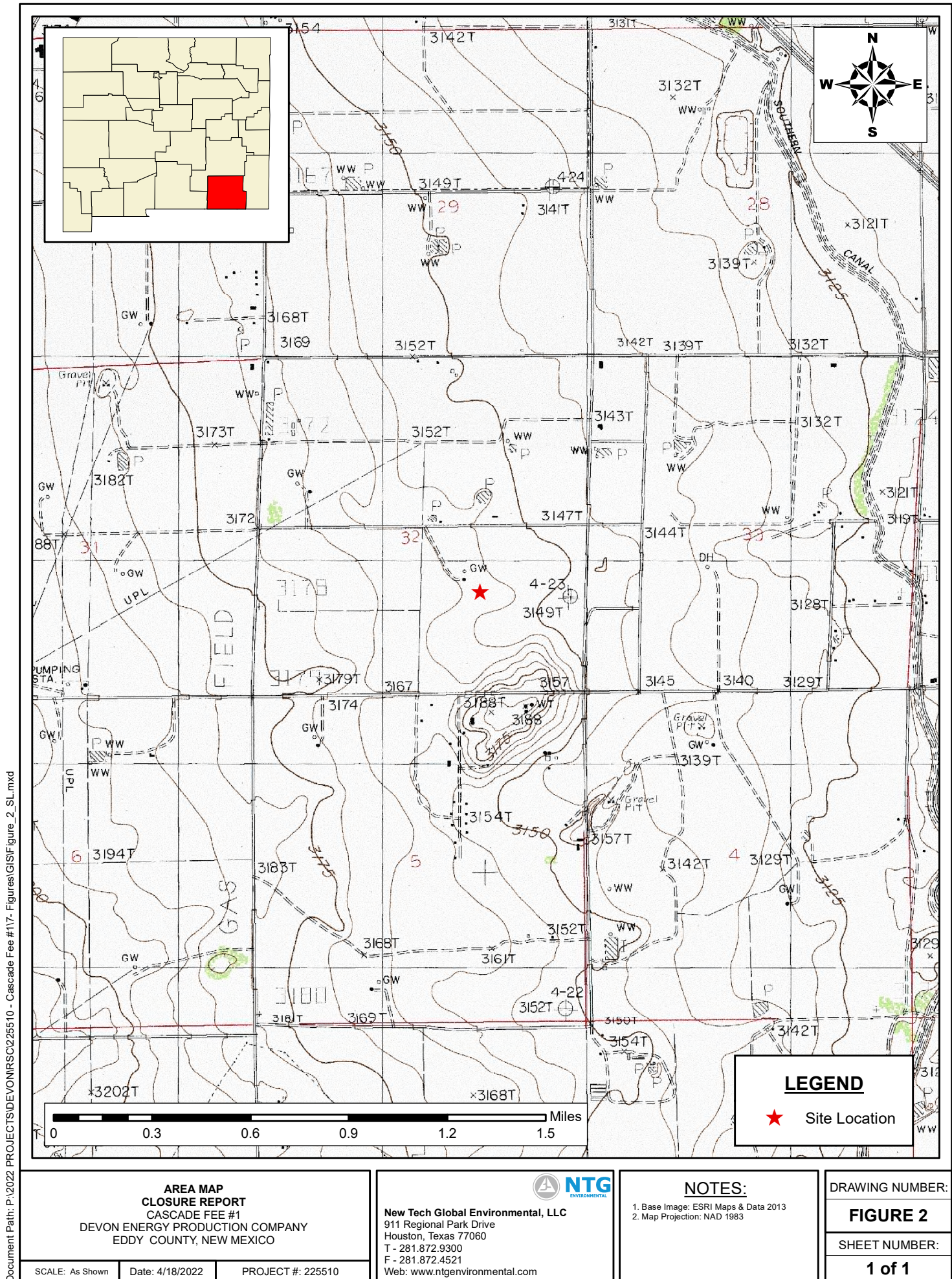
DRAWING NUMBER:

**FIGURE 1**

SHEET NUMBER:

**1 of 1**







Document Path: P:\2022 PROJECTS\DEVON\SC\225510 - Cascade Fee #1\7- Figures\GIS\Figure\_3\_Spill Area.mxd



**RELEASE AREA MAP  
CLOSURE REPORT**  
CASCADE FEE #1  
DEVON ENERGY PRODUCTION COMPANY  
EDDY COUNTY, NEW MEXICO

SCALE: As Shown    Date: 4/20/2022    PROJECT #: 225510



**New Tech Global Environmental, LLC**  
911 Regional Park Drive  
Houston, Texas 77060  
T - 281.872.9300  
F - 281.872.4521  
Web: www.ntgenviroinmental.com

**NOTES:**

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

DRAWING NUMBER:

**FIGURE 3**

SHEET NUMBER:

**1 of 1**

## **PHOTOGRAPHIC LOG**

---



# PHOTOGRAPHIC LOG

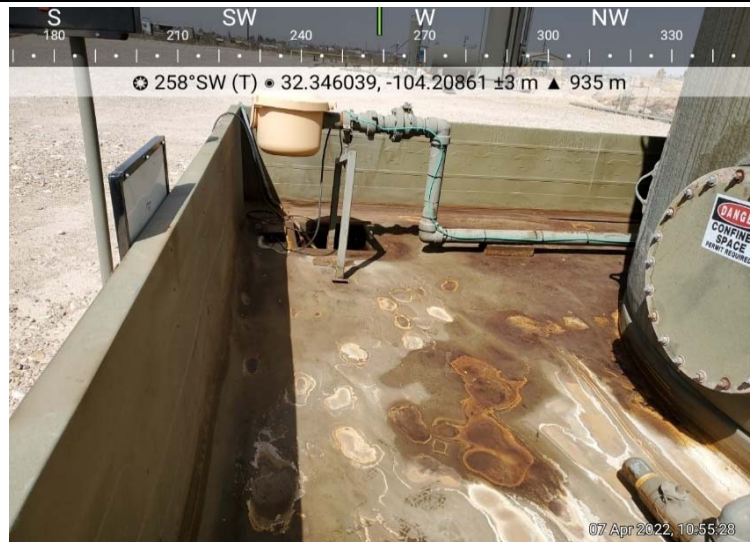
## Devon Energy Production Company

### Photograph No. 1

**Facility:** Cascade Fee #1

**County:** Eddy County, New Mexico

**Description:**  
View west-southwest of lined containment



### Photograph No. 2

**Facility:** Cascade Fee #1

**County:** Eddy County, New Mexico

**Description:**  
View east of lined containment

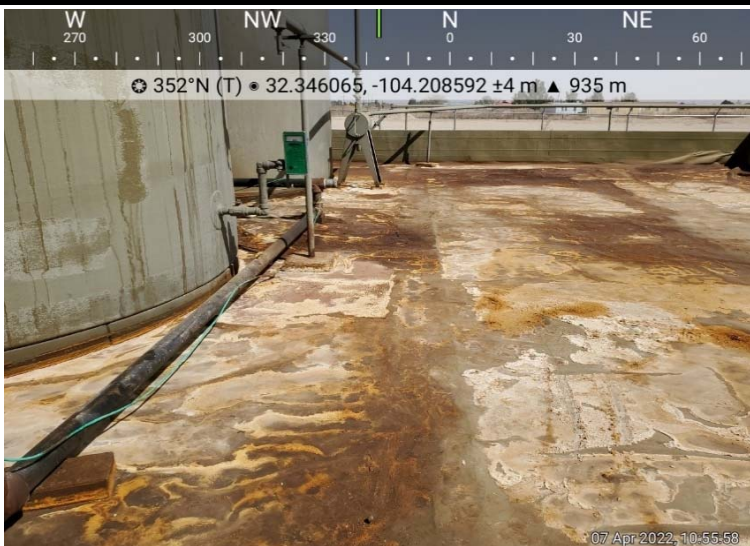


### Photograph No. 3

**Facility:** Cascade Fee #1

**County:** Eddy County, New Mexico

**Description:**  
View north-northwest of lined containment



## PHOTOGRAPHIC LOG

### Devon Energy Production Company

**Photograph No. 4**

**Facility:** Cascade Fee #1

**County:** Eddy County, New Mexico

**Description:**

View west-southwest of lined containment

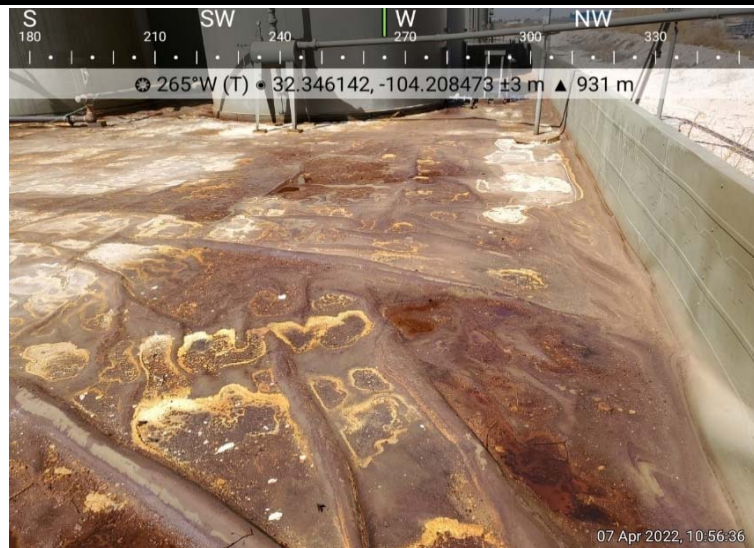
**Photograph No. 5**

**Facility:** Cascade Fee #1

**County:** Eddy County, New Mexico

**Description:**

View west-southwest of lined containment

**Photograph No. 6**

**Facility:** Cascade Fee #1

**County:** Eddy County, New Mexico

**Description:**

View west-southwest of lined containment





# PHOTOGRAPHIC LOG

## Devon Energy Production Company

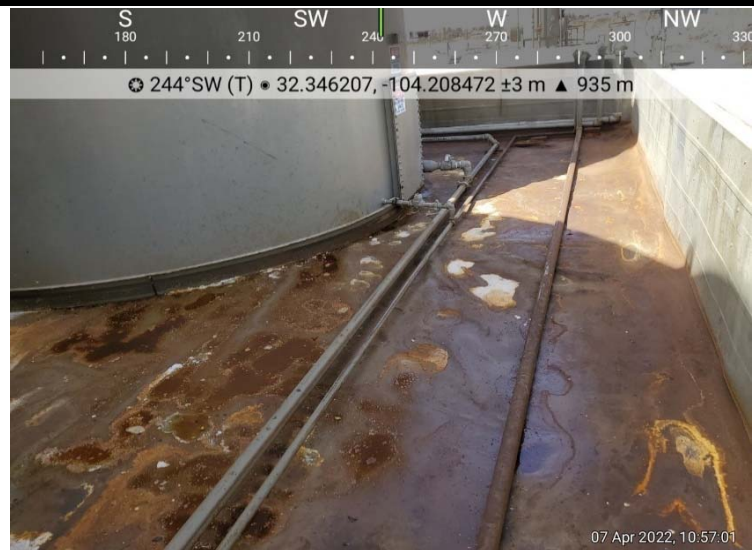
**Photograph No. 7**

**Facility:** Cascade Fee #1

**County:** Eddy County, New Mexico

**Description:**

View west-southwest of lined containment

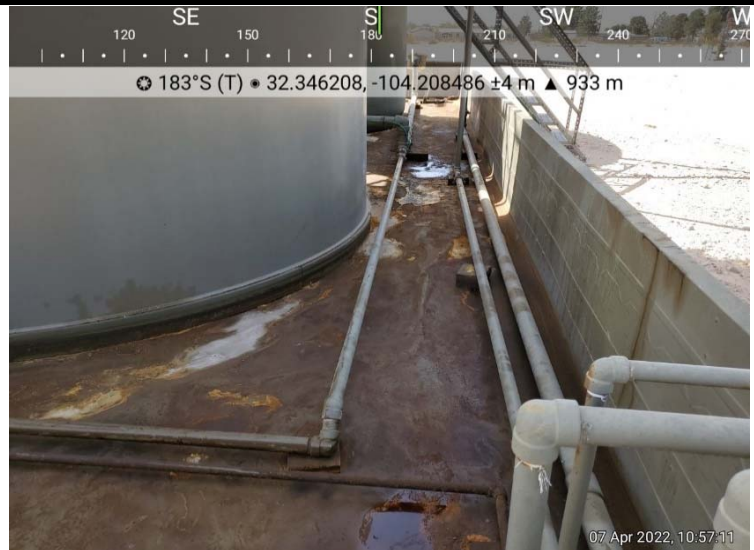
**Photograph No. 8**

**Facility:** Cascade Fee #1

**County:** Eddy County, New Mexico

**Description:**

View south of lined containment

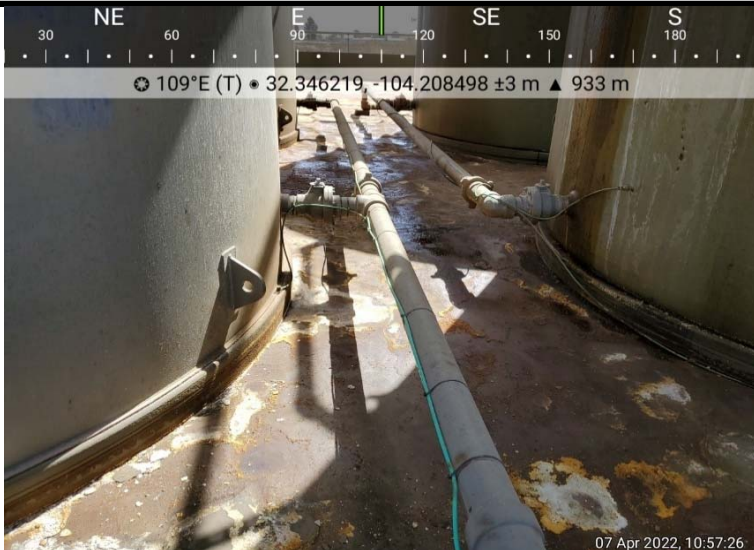
**Photograph No. 9**

**Facility:** Cascade Fee #1

**County:** Eddy County, New Mexico

**Description:**

View east-southeast of lined containment



## PHOTOGRAPHIC LOG

### Devon Energy Production Company

**Photograph No. 10**

**Facility:** Cascade Fee #1

**County:** Eddy County, New Mexico

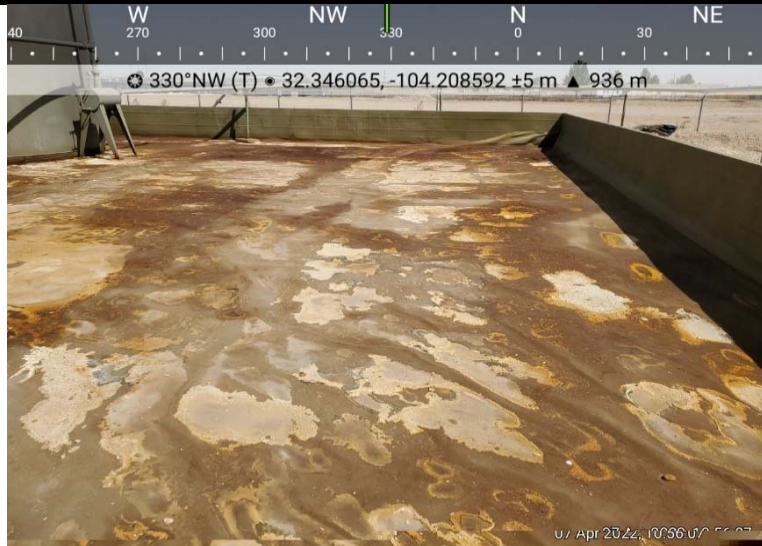
**Description:**  
View north of lined containment

**Photograph No. 11**

**Facility:** Cascade Fee #1

**County:** Eddy County, New Mexico

**Description:**  
View north-northwest of lined containment

**Photograph No. 12**

**Facility:** Cascade Fee #1

**County:** Eddy County, New Mexico

**Description:**  
View west-southwest of lined containment



## **NMOCD 48-HOUR ADVANCE NOTIFICATION**

## Ethan Sessums

---

**From:** Ethan Sessums  
**Sent:** Friday, April 1, 2022 9:15 AM  
**To:** ocd.enviro@state.nm.us  
**Subject:** LINER INSPECTION NOTIFICATION

Good afternoon,

We will be conducting a liner inspection at the below-referenced site on 4/7/2022 around 9 a.m. Mountain time on behalf of Devon. If there are any questions or concerns, please feel free to reach out.

Site:  
Devon – CASCADE FEE #001  
Incident Location: J-32-22S-27E 1650 FSL 1650 FEL  
Lat/Long: 32.3458366,-104.2089691 NAD83  
Eddy County, New Mexico

Ethan Sessums  
Environmental Scientist  
NTG Environmental New Mexico  
402 E Wood Ave, Carlsbad, NM 88220  
M: 254-266-5456 W: 432-701-2159  
Email: [esessums@ntglobal.com](mailto:esessums@ntglobal.com)  
<http://www.ntgenvironmental.com/>



**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 106146

**CONDITIONS**

|   |   |
|---|---|
| Operator:<br>DEVON ENERGY PRODUCTION COMPANY, LP<br>333 West Sheridan Ave.<br>Oklahoma City, OK 73102 | OGRID:<br>6137  |
|   | Action Number:<br>106146                                  |
|   | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition  | Condition Date |
|------------|--|----------------|
| rhamlet    | We have received your closure report and final C-141 for Incident #NAPP2208453065 CASCADE FEE #001, thank you. This closure is approved. | 6/16/2022      |