

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	nAPP2200730406
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC	OGRID: 246289
Contact Name: Jim Raley	Contact Telephone: 575-689-7597
Contact email: jim.ralej@dv.com	Incident # (assigned by OCD) nAPP2200730406
Contact mailing address: 5315 Buena Vista Dr., Carlsbad NM 88220	

Location of Release Source

Latitude 32.0214143 Longitude -103.9761535
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: EAST PECOS FEDERAL 22 #009H	Site Type: Oil Production Site
Date Release Discovered: January 4 th , 2022	API# (if applicable) 30-015-43349

Unit Letter	Section	Township	Range	County
M	22	26S	29E	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)

☒ Crude Oil	Volume Released (bbls) 3	Volume Recovered (bbls) 0
☒ Produced Water	Volume Released (bbls) 3	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Dump stuck on treater, allowing for fluids to be pushed to flare. Fluids impacted pad surface and area off pad.

[Saturated Soil Volume yds³ x percent porosity x (6.41187 bbls/1 yds³)] = bbls of residual fluid in soil
[Fluid Volume yds³ x (6.41187 bbls/1 yds³)] = bbls of free-standing fluid

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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)	

Initial Response

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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>James Raley</u>	Title: <u>Environmental Specialist</u>
Signature: 	Date: <u>1/10/2022</u>
email: <u>jim.raley@dv.com</u>	Telephone: <u>575-689-7597</u>
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>1/10/2022</u>

Incident ID	nAPP2200730406
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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?	>51 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☒ Yes ☐ No

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

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

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

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

State of New Mexico
Oil Conservation Division

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Printed Name: Jim Raley Title: Environmental Professional
Signature:  Date: 7/22/2022
email: jim.raley@dvsn.com Telephone: (575) 689-7597

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2200730406
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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.

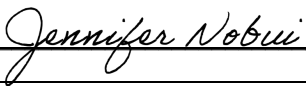
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Printed Name: Jim Raley Title: Environmental Professional
Signature:  Date: 7/22/2022
email: jim.raley@dv.com Telephone: (575) 689-7597

OCD Only

Received by: _____ Date: _____

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

Signature:  Date: 08/09/2022

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Form C-141
Revised August 24, 2018
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Incident ID	NRM1935238930
District RP	
Facility ID	
Application ID	

Release Notification QF1LS-191029-C-1410

Responsible Party

Responsible Party: WPX Energy Permian, LLC.	OGRID: 246289
Contact Name: Jim Raley	Contact Telephone: 575-689-7597
Contact email: james.ralej@wpxenergy.com	Incident # (assigned by OCD)
Contact mailing address: 5315 Buena Vista Dr., Carlsbad, NM 88220	

Location of Release Source

Latitude 32.0213394 Longitude -103.97509
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: EAST PECOS FEDERAL COM 22 #001H	Site Type: Production Facility
Date Release Discovered: 10/26/2019	API# (if applicable): 30-015-40568

Unit Letter	Section	Township	Range	County
N	22	26S	29E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 35	Volume Recovered (bbls) 25
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Failure of piping connection allowed 35 bbls to be released to pad surface, 25 bbls recovered.

State of New Mexico
Oil Conservation Division

Incident ID	NRM1935238930
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Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Phone call and email to Mike Bratcher on 10/26/2019.	

Initial Response

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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
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Printed Name: Jim Raley	Title: Environmental Specialist
Signature: 	Date: 10/29/2019
email: james.raley@wpenergy.com	Telephone: 575-689-7597
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>12/18/2019</u>

Incident ID	NRM1935238930
District RP	
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Application ID	

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>>51</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☒ Yes ☐ No

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

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

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

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

Oil Conservation Division

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Printed Name: Jim Raley Title: Environmental Professional
Signature:  Date: 7/22/2022
email: jim.raley@dm.com Telephone: 575-689-7597

OCD Only

Received by: _____ Date: _____

Incident ID	NRM1935238930
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Facility ID	
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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: Jim Raley Title: Environmental Professional
Signature:  Date: 7/22/2022
email: jim.raley@dm.com Telephone: 575-689-7597

OCD Only

Received by: _____ Date: _____

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

Signature:  Date: 08/09/2022

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Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NRM2001038937
District RP	
Facility ID	
Application ID	

Release Notification

H84PU-191115-C-1410

Responsible Party

Responsible Party: WPX Energy Permian, LLC.	OGRID: 246289
Contact Name: Lynda Laumbach	Contact Telephone: (575) 725-1647
Contact email: Lynda.Laumbach@wpxenergy.com	Incident # (assigned by OCD)
Contact mailing address: 5315 Buena Vista Drive, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.0213394 _____ Longitude -103.97509 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: EAST PECOS FEDERAL COM 22 #001H	Site Type: Production Facility
Date Release Discovered: 11/09/2019	API# (if applicable): 30-015-40568

Unit Letter	Section	Township	Range	County
N	22	26S	29E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: George Ross Ranch LLC. _____)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 120	Volume Recovered (bbls) 90
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Failure of piping connection allowing ~120 bbls of produced water to be released onto the pad surface and to the pasture West of the location. 90bbls of produced water was recovered.

Form C-141

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State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Emailed to Mike Bratcher on 11/09/2019.	

Initial Response

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Printed Name: Lynda Laumbach _____ Title: Environmental Specialist _____ Signature:  _____ Date: 11/15/2019 _____ email: Lynda.Laumbach@wpenergy.com _____ Telephone: (575) 725- 1647 _____
<u>OCD Only</u> Received by: Ramona Marcus _____ Date: 1/10/2020 _____

Incident ID	NRM2001038937
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Site Assessment/Characterization

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Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
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Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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Printed Name: Jim Raley Title: Environmental Professional
Signature:  Date: 7/22/2022
email: jim.raley@dm.com Telephone: 575-689-7597

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.*

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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: Jim Raley Title: Environmental Professional
Signature:  Date: 7/22/2022
email: jim.raley@dm.com Telephone: 575-689-7597

OCD Only

Received by: _____ Date: _____

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

Signature:  Date: 08/09/2022

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	NVV2003433576
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC.	OGRID: 246289
Contact Name: Lynda Laumbach	Contact Telephone: (575) 725-1647
Contact email: Lynda.Laumbach@wpxenergy.com	Incident # (assigned by OCD) NVV2003433576
Contact mailing address: 5315 Buena Vista Drive, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.020878 Longitude -103.974639
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: East Pecos Federal 22 #009H	Site Type: Production Facility
Date Release Discovered: 01/21/2020	API# (if applicable): 30-015-43349

Unit Letter	Section	Township	Range	County
M	22	26S	29E	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)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls): 140	Volume Recovered (bbls): 115
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

A swedge connection on the transfer pump failed, causing 140bbls to be released onto the pad and inside the tank battery lined secondary containment. A vacuum truck was immediately called and recovered 115bbl of fluids. A third-party contractor has been obtained to complete remediation activities. Soil estimates on the pad surface were

$$bbl\ estimate = \frac{saturated\ soil\ volume\ (ft^3)}{4.21(\frac{ft^3}{bbl\ equivalent})} * estimated\ soil\ porosity(\%)$$

Incident ID	NVV2003433576
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Release was greater than 25bbbls
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

☒ The source of the release has been stopped.	
☒ The impacted area has been secured to protect human health and the environment.	
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Lynda Laumbach</u>	Title: <u>Environmental Specialist</u>
Signature: <u></u>	Date: <u>01/24/2020</u>
email: <u>Lynda.Laumbach@wpenergy.com</u>	Telephone: <u>(575)725-1647</u>
<u>OCD Only</u>	
Received by: <u>Victoria Venegas</u>	Date: <u>02/03/2020</u>

Incident ID	NVV2003433576
District RP	
Facility ID	
Application ID	

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>>51</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☒ Yes ☐ No

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NVV2003433576
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: Jim Raley Title: Environmental Professional
Signature:  Date: 7/22/2022
email: jim.raley@dm.com Telephone: 575-689-7597

OCD Only

Received by: _____ Date: _____

Incident ID	NVV2003433576
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.

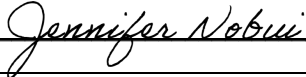
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public 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: Jim Raley Title: Environmental Professional
Signature:  Date: 7/22/2022
email: jim.raley@dvn.com Telephone: 575-689-7597

OCD Only

Received by: _____ Date: _____

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

Signature:  Date: 08/09/2022



July 21, 2022

District II
New Mexico Oil Conservation Division
811 South First Street
Artesia, New Mexico 88210

**Re: Remediation Work Plan Addendum
East Pecos Federal 22 #009H
Incident Numbers NVV2003433576, NRM1935238930, NRM2001038937 and
nAPP2200730406
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of WPX Permian Energy, LLC (WPX), has prepared this Remediation Work Plan Addendum (RWPA) to address deficiencies in the January 21, 2021 and April 4, 2022 Remediation Work Plan (RWP) identified by the New Mexico Oil Conservation Division (NMOCD) and to recommit to remedial actions for the East Pecos Federal 22 #009H (hereinafter referred to as the "Site") located in Unit M, Section 22, Township 26 South, Range 29 East, in Eddy County, New Mexico (**Figure 1 in Appendix A**).

Based on observations documented from a newly completed soil boring within ½-mile of the Site, WPX respectfully submits this RWPA, which summarizes depth to water estimation in the vicinity of the Site in order to supplement existing data for determination of sensitive receptors as they relate to the Site. WPX is recommitting to the proposed remediation and soil sampling activities to further investigate and address the releases of produced water and/or crude oil at the Site.

Site Description and Release Background

The Site is located within Eddy County, New Mexico (32.020824, -103.975286) and is associated with oil and gas exploration and production operations on private land (**Figure 1 in Appendix A**).

WPX and Ensolum submitted Work Plans to the NMOCD for the four reportable releases of produced water and/or crude oil that occurred between October 2019 and January 2022. WPX reported each release to the NMOCD on a Release Notification and Corrective Action Form (Form C-141). The releases are described in further detail in the original Work Plans. The releases were assigned Incident Numbers NVV2003433576, NRM1935238930, NRM2001038937 and nAPP2200730406.

Site Characterization

Ensolum characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC).

Based on the nearest groundwater well data found during a desktop review, the closest well with available depth to groundwater data is United States Geological Survey (USGS) well 320126103562801, measured approximately 745 feet north of the release location; however, based on a location survey of the referenced USGS well during a recent review of regional depth to water for a nearby Site, it was confirmed that the well did not exist in the location provided by USGS. Therefore, the nearest water well is USGS well 320112103574501, located approximately 0.69 mile east of the Site, with a depth to water measurement of 57.38 feet below ground surface (bgs). To further supplement the groundwater depth determination, USGS wells 320135103573301 and 320106103555301 are located within 1.0 mile of the Site and provide groundwater measurements of 80.88 feet bgs and 53.46 feet bgs, respectively.

There are multiple water wells around the Site and regionally where depth to water is found to be greater than 51 feet bgs. Additionally, the Site is located at an elevation greater than 50 feet above Red Bluff Reservoir, which likely represents the source of groundwater within the immediate area. As a result, depth to water estimate for USGS well 320112103574501 appears to be consistent with the regional data, thus a representative water well for estimating depth to water for the Site. Well records for the referenced wells are provided in **Appendix B**.

The closest continuously flowing or significant watercourse to the Site is the Pecos River, located approximately 0.71 miles (3,762 feet) southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet from a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area).

Results from the characterization desktop review are presented on page 3 of the Form C-141s, Site Assessment/Characterization. Potential site receptors are identified on **Figure 1 in Appendix A**.

Depth to Water Investigation

NMOCD denied the January 2021 and April 2022 RWP for the following reasons:

January 2021 (NVV2003433576, NRM1935238930 and NRM2001038937)

When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less.

April 2022 (nAPP2200730406)

Remediation Plan Denied. Please complete boring advancement and groundwater determination prior to Remediation Plan submittal. Please determine and present final method of remediation in plan. Please resubmit revised Remediation Plan by May 20, 2022.

NMOCD subsequently approved a 90-day extension to submit a revised RWP for nAPP2200730406 on April 26, 2022.

As a result of the denials, a soil boring was installed north of the releases and on location (32.021479, -103.975048) to assess depth to water beneath the Site (**Figure 2 in Appendix A**). WPX contracted Atkins Engineering Associates (Atkins) out of Roswell, New Mexico, to advance a soil boring TW-1 (New Mexico Office of State Engineer (NMOSE) File # C-4630) via solid stem auger to a total depth of 55 feet bgs. Atkins completed the soil boring TW-1 on June 15, 2022. During drilling activities, the lithology and observed soil conditions for evidence of a water-bearing zone were documented by Atkins. Soil boring TW-1 was drilled to 55 feet bgs and was allowed to stabilize for at least 72 hours. The NMOSE Well Record & Log for soil boring TW-1 included in **Appendix C**.

Atkins measured for the presence of groundwater in soil boring TW-1 on July 13, 2022, through the use of a water level indicator. Based on field observations and measurements, groundwater was not encountered in the soil boring to a depth of 55 feet bgs. As a result, depth to groundwater is estimated to be greater than 51 feet bgs, confirming regional groundwater estimates.

Closure Criteria

Based on the results of the Site Characterization and supplemental field activities, specifically confirming depth to water is greater than 51 feet bgs, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total Petroleum Hydrocarbon (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 10,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet in the pasture area that was impacted by the release.

Proposed Remediation Work Plan

Based on the results documented in the January 2021 and April 2022 RWP and supplemental data provided in this RWPA, the following findings and conclusions regarding the release are reiterated:

- Depth to groundwater beneath the Site is greater than 51 feet bgs as confirmed with soil boring TW-1, which was completed on June 15, 2022, by Atkins, approximately 70 feet north of the releases, with no measured groundwater present documented on July 13, 2022;

nAPP2200730406

- Based on laboratory analytical results associated with delineation soil samples PH03 and PH04 and surface soil samples SS02 and SS04, concentrations of contaminants of concern (COCs) greater than the NMOCD Closure Criteria will be excavated and sampled in accordance with the Closure Criteria and/or Reclamation Standard (**See Figure 2 in Appendix A**);

- Based on current delineation soil laboratory analytical results and extent of the release area, an estimated **50 cubic yards** of impacted soil are anticipated to be remediated and/or removed from the Site for disposal in accordance with state and federal regulations;
- Based on laboratory analytical results for delineation soil samples from PH01, PH02 and PH05 and surface samples from SS01, SS03, SS05 and SS06, no remediation efforts are required in these areas;

NVV2003433576, NRM1935238930 and NRM2001038937

- Based on laboratory analytical results associated with delineation soil samples on pad (PH01) and off pad (SP12 through SP15), COCs are greater than the applicable NMOCD Closure Criteria and/or Reclamation Standard and will require remediation. Additionally, an off-pad area to the southeast will be addressed as proposed in the original RWP (**See Figure 3 and 4 in Appendix A**);
- Based on current delineation soil laboratory analytical results and extent of the release areas, an estimated **1,550 cubic yards** of impacted soil are anticipated to be remediated and/or removed from the Site for disposal in accordance with state and federal regulations;
- Based on laboratory analytical results for delineation soil samples on pad (excluding PH01) no remediation efforts are required in these areas.

Based on the conclusions presented above, the following remediation is proposed:

- Impacted soil will be remediated pursuant to NMAC 19.15.29 to ensure extent of the impacted soil not meeting the Closure Criteria and/or Reclamation Standard requirement has been identified and addressed. Excavated soil will then be transferred to: (a) a New Mexico approved landfill facility for disposal and the excavation will be backfilled with non-waste containing soil, as defined by "Procedures for Implementation of the Spill Rule" (September 6, 2019) or (b) an on-site ex-situ treatment area. Following review of the additional soil characterization at the Site, WPX will re-evaluate the proposed remedial options and submit a revised RWP detailing the option (b) treatment and sampling plan for NMOCD review, if selected.
- Surface scraping may be conducted to remove any minor surficial staining in areas that are delineated;
- Horizontal delineation of releases will be defined through delineation samples or 5-point composite sidewall samples following the removal of residual impacts;
- Access for remediation or disturbance that occurs offsite requires landowner approval. WPX will prepare and submit documentation for proposed work areas before initiating corrective actions;
- WPX or third party operator may implement additional safety precautions above encroachment guidelines, including restrictions on hand shoveling and cribbing near utility lines. These restrictions may be implemented as health and safety precautions at the judgment and responsibility of a WPX or third-party operator safety representative; and
- Following the completion of remediation activities and receipt of soil confirmation sample results documenting impacted soil has been removed, the excavation will be backfilled with clean and/or treated soil and restored to "as close to its original state" as possible.

Proposed Sampling

Based on delineation analytical results for soil, WPX proposes the following floor and sidewall confirmation soil sampling frequency to comply with 19.15.29 NMAC:

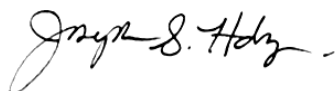
5-point composite soil samples along the excavation floor and sidewalls will be collected. WPX is requesting a variance on sample frequency for confirmation sampling from every 200 square feet to every 500 square feet. Based on the estimated excavation geometry, approximately 7,600 square feet of floor and sidewalls is expected. Within that area, WPX is requesting this variance to collect 16 confirmation samples based on the variance sample frequency of 500 square feet instead of the standard 200 square feet, which estimates a total sample quantity of 38 confirmation samples. WPX believes the variance confirmation sample frequency is equally protective of human health, the environment, and groundwater and meets the requirements set forth in 19.15.29 NMAC.

Proposed Schedule

WPX believes the scope of work described above will meet requirements set forth in 19.15.29.13 NMAC and be protective of human health, the environment, and groundwater. As such, WPX respectfully requests approval of this RWPA from NMOCD.

Based on the extent of planning and coordination at the Site, WPX anticipates initiating remediation activities following approval from the landowner. If you have any questions or comments, please contact Mr. Joseph Hernandez at (281)702-2329 or jhernandez@ensolum.com.

Sincerely,
Ensolum, LLC



Joseph S. Hernandez
Senior Geologist



Daniel R. Moir, P.G.
Senior Managing Geologist

cc: Jim Raley, Devon Energy

Appendices:

Appendix A: Figure 1 – Site Map

Figure 2 – Soil Sample Locations

Figure 3 – WPX Provided Release Areas and Soil Sample Locations

Figure 4 – WPX Provided Proposed Remediation Areas

Appendix B: Referenced Well Records

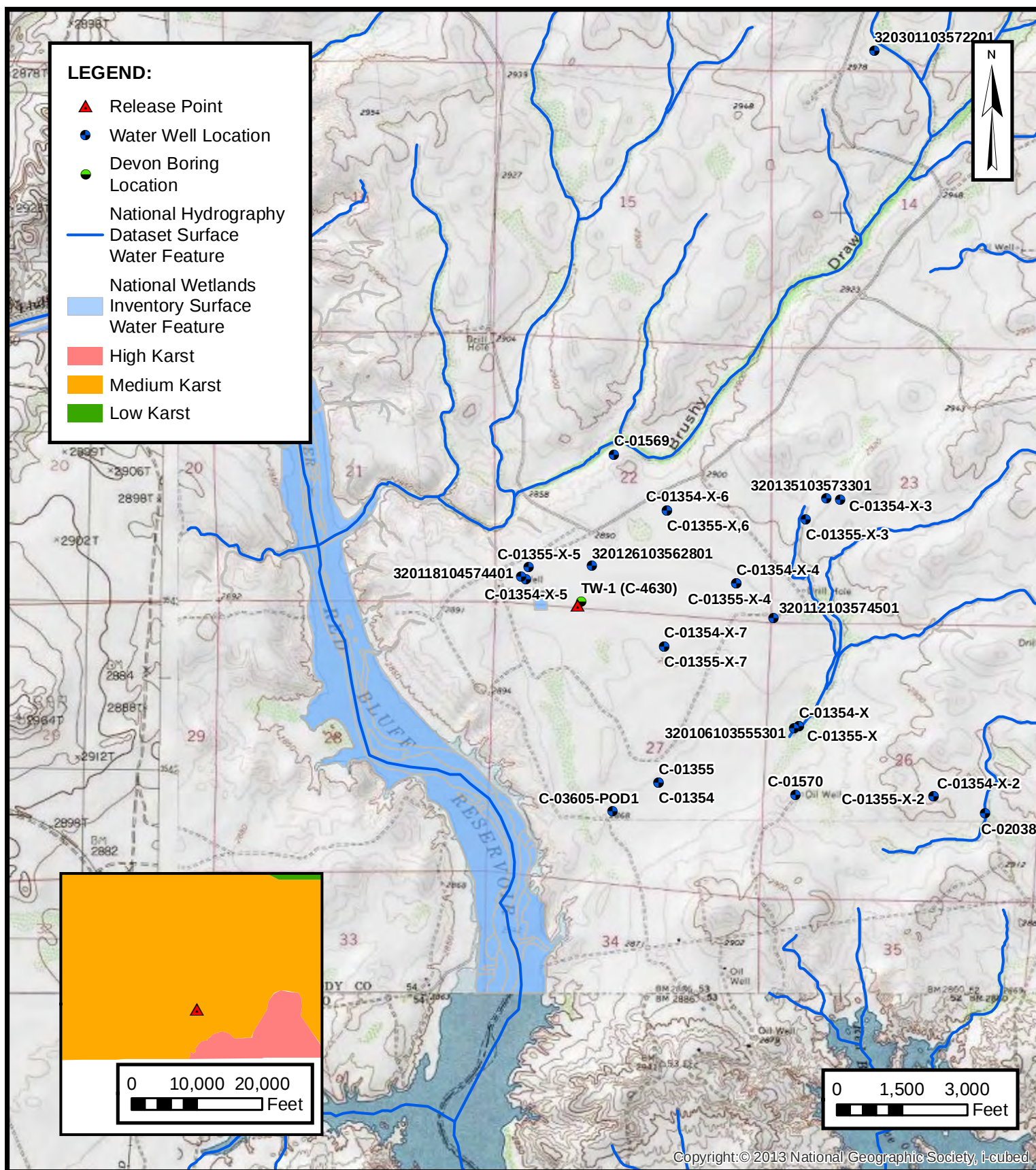
Appendix C: NMOSE Well Record and Log

Appendix D: Email Correspondence and Extension Request



APPENDIX A

Figures



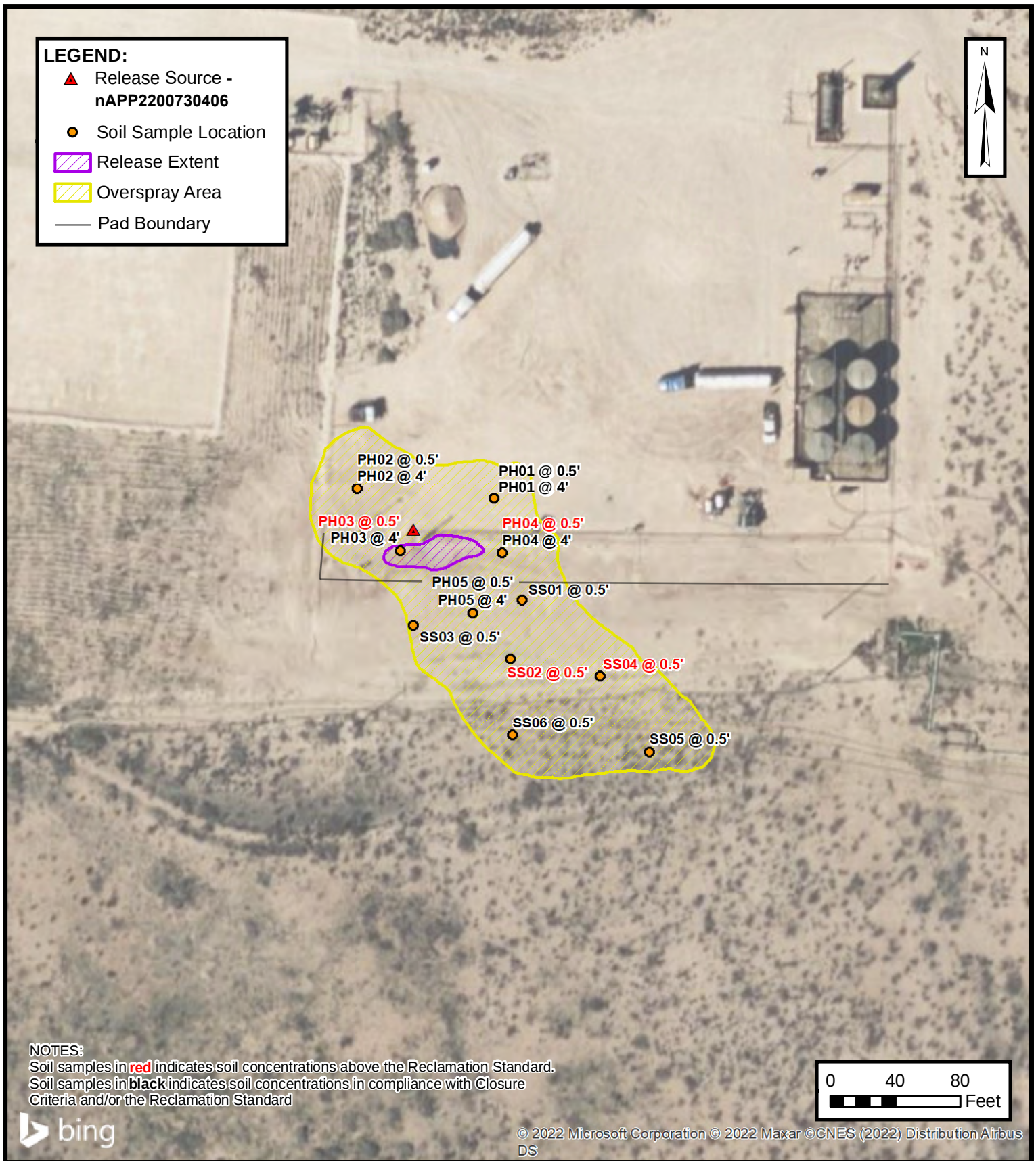
ENSOLUM
Environmental & Hydrogeologic Consultants

SITE RECEPTOR MAP

WPX ENERGY PERMIAN, LLC.
EAST PECOS FEDERAL 22 #009H
Unit M, Sec 22, T26S, R29E, Eddy County, New Mexico
32.020824° N, 103.975286° W

PROJECT NUMBER: 03A1987003

FIGURE
1



SOIL SAMPLE LOCATIONS

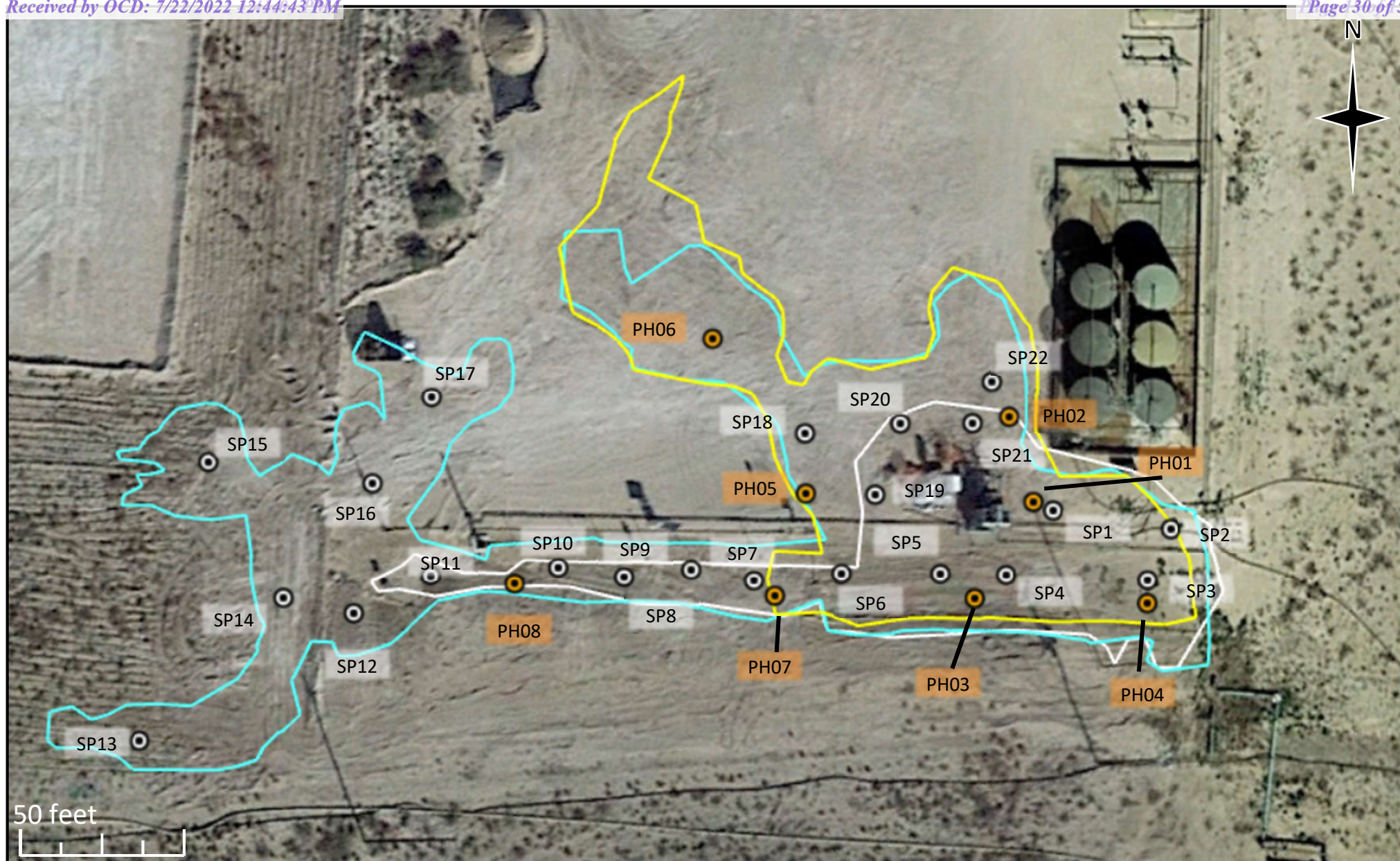
WPX ENERGY PERMIAN, LLC.
 EAST PECOS FEDERAL 22 #009H
 Unit M, Sec 22, T26S, R29E, Eddy County, New Mexico
 32.020824° N, 103.975286° W

PROJECT NUMBER: 03A1987003

FIGURE

2

ENSOLUM
 Environmental & Hydrogeologic Consultants



Legend

- NVV2003433576
- NRM1935238930
- NRM2001038937

⊙ December 2019 Sample Locations

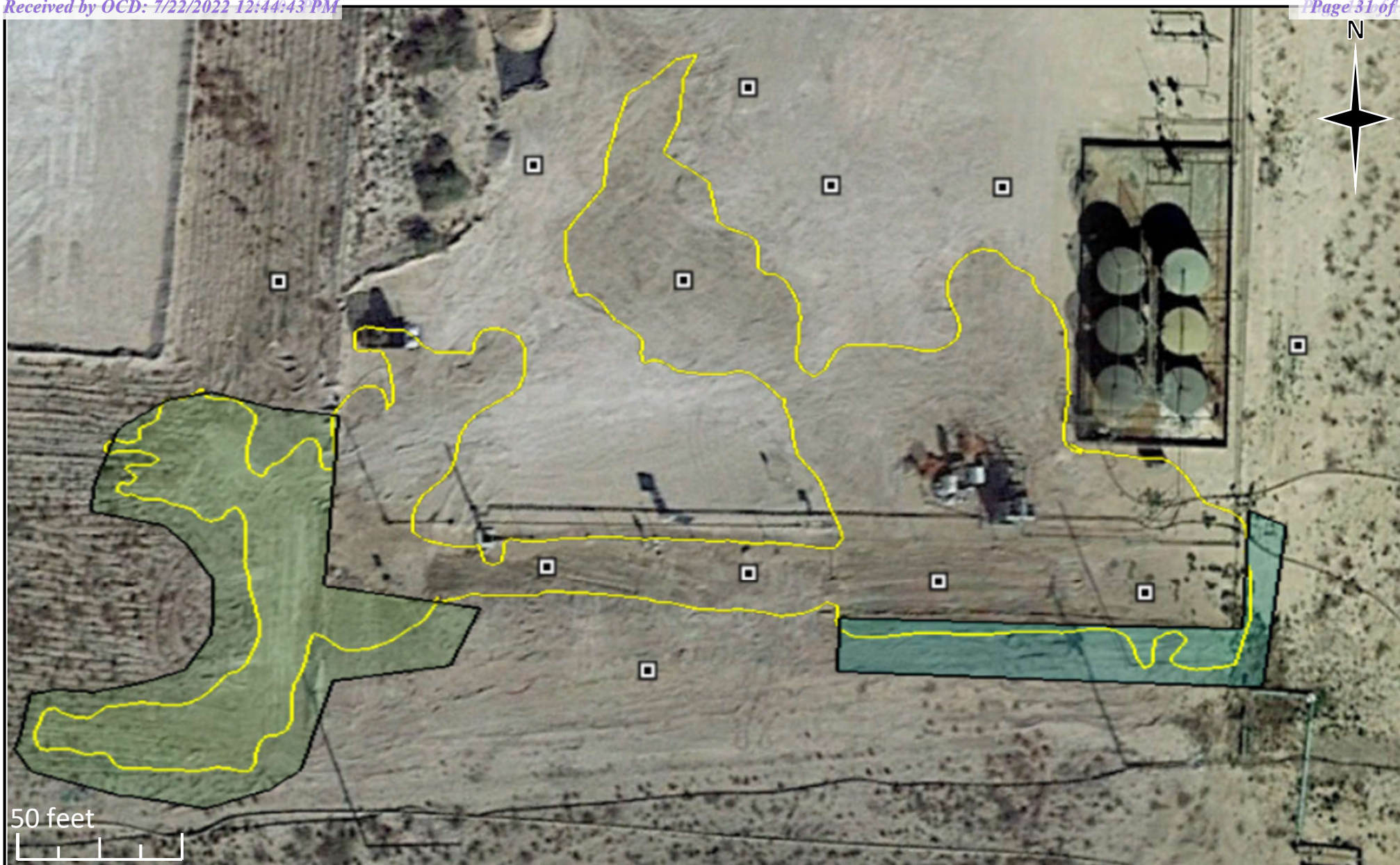
⊙ April 2020 Sample Locations

Figure 3

East Pecos Federal Com 22 #001H/009H
Permian Basin, Eddy County, NM

32.020837, -103.97459





Legend

-  Combined release(s) extent
-  Pasture Areas (non-platted)
-  Proposed delineation locations

Figure 4
East Pecos Federal Com 22 #001H/009H
Permian Basin, Eddy County, NM

32.020837, -103.97459



APPENDIX B

Referenced Well Records



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Site Information ▼

Geographic Area:

United States ▼

GO

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

USGS 320112103574501 26S.29E.22.333242

Available data for this site

SUMMARY OF ALL AVAILABLE DATA ▼

GO

Well Site

DESCRIPTION:

Latitude 32°01'12", Longitude 103°57'45" NAD27

Eddy County, New Mexico , Hydrologic Unit 13070001

Well depth: not determined.

Land surface altitude: 2,892.0 feet above NGVD29.

Well completed in "Other aquifers" (N9999OTHER) national aquifer.

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1993-01-05	1993-01-05	1
Revisions	Unavailable (site:0) (timeseries:0)		

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](#)

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)

[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?](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=320112103574501)

[agency_code=USGS&site_no=320112103574501](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=320112103574501)



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

Page Last Modified: 2022-04-01 15:22:11 EDT

0.34 0.32 vaww01



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
United States

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- [Full News](#)

Groundwater levels for the Nation

Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320112103574501

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 320112103574501 26S.29E.22.333242

Eddy County, New Mexico
Latitude 32°01'12", Longitude 103°57'45" NAD27
Land-surface elevation 2,892.0 feet above NGVD29
This well is completed in the Other aquifers (N9999OTHER) national aquifer.

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1993-01-05	21:45 UTC	m	62610		2834.62	NGVD29	1		S	
1993-01-05	21:45 UTC	m	62611		2836.14	NAVD88	1		S	
1993-01-05	21:45 UTC	m	72019	57.38			1		S	

Explanation

Section	Code	Description
Water-level date-time accuracy	m	Date is accurate to the Minute
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

Section	Code	Description
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
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 USA: Water Levels

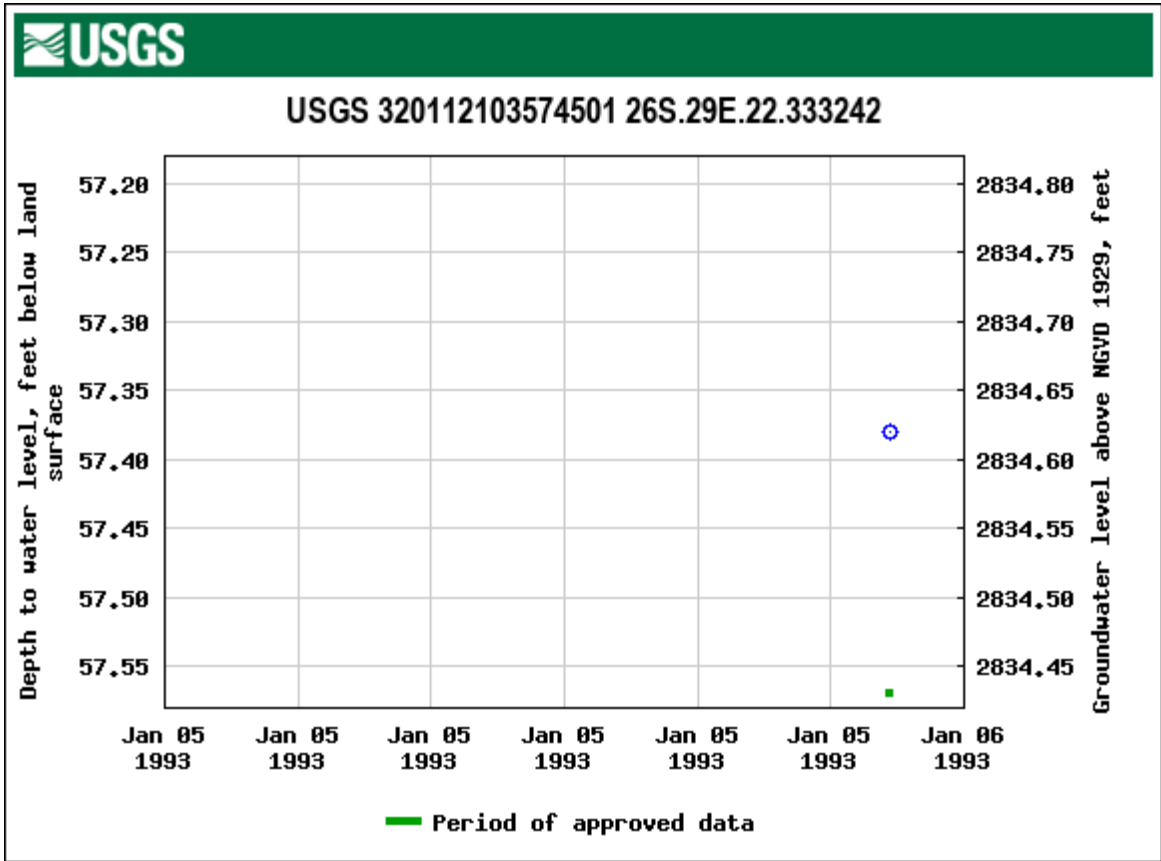
URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>

Page Contact Information: [USGS Water Data Support Team](#)

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0.28 0.24 nadww02







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Geographic Area:

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USGS 320135103573301 26S.29E.23.31220

Available data for this site

SUMMARY OF ALL AVAILABLE DATA ▼

GO

Well Site

DESCRIPTION:

Latitude 32°01'35", Longitude 103°57'33" NAD27

Eddy County, New Mexico , Hydrologic Unit 13070001

Well depth: 170.00 feet

Land surface altitude: 2,913 feet above NGVD29.

Well completed in "Other aquifers" (N9999OTHER) national aquifer.

Well completed in "Forty-Niner Member of Rustler Formation" (310FRNR) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1987-10-14	1987-10-14	1
Revisions	Unavailable (site:0) (timeseries:0)		

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

URL: [https://waterdata.usgs.gov/nwis/inventory?](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=320135103573301)

[agency_code=USGS&site_no=320135103573301](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=320135103573301)



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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320135103573301

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

USGS 320135103573301 26S.29E.23.31220

Eddy County, New Mexico
Latitude 32°01'35", Longitude 103°57'33" NAD27
Land-surface elevation 2,913 feet above NGVD29
The depth of the well is 170.00 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Forty-Niner Member of Rustler Formation (310FRNR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1987-10-14			D 62610		2832.12	NGVD29	1	S		
1987-10-14			D 62611		2833.65	NAVD88	1	S		
1987-10-14			D 72019	80.88			1	S		

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
Method of measurement	S	Steel-tape measurement.
Measuring agency		Not determined

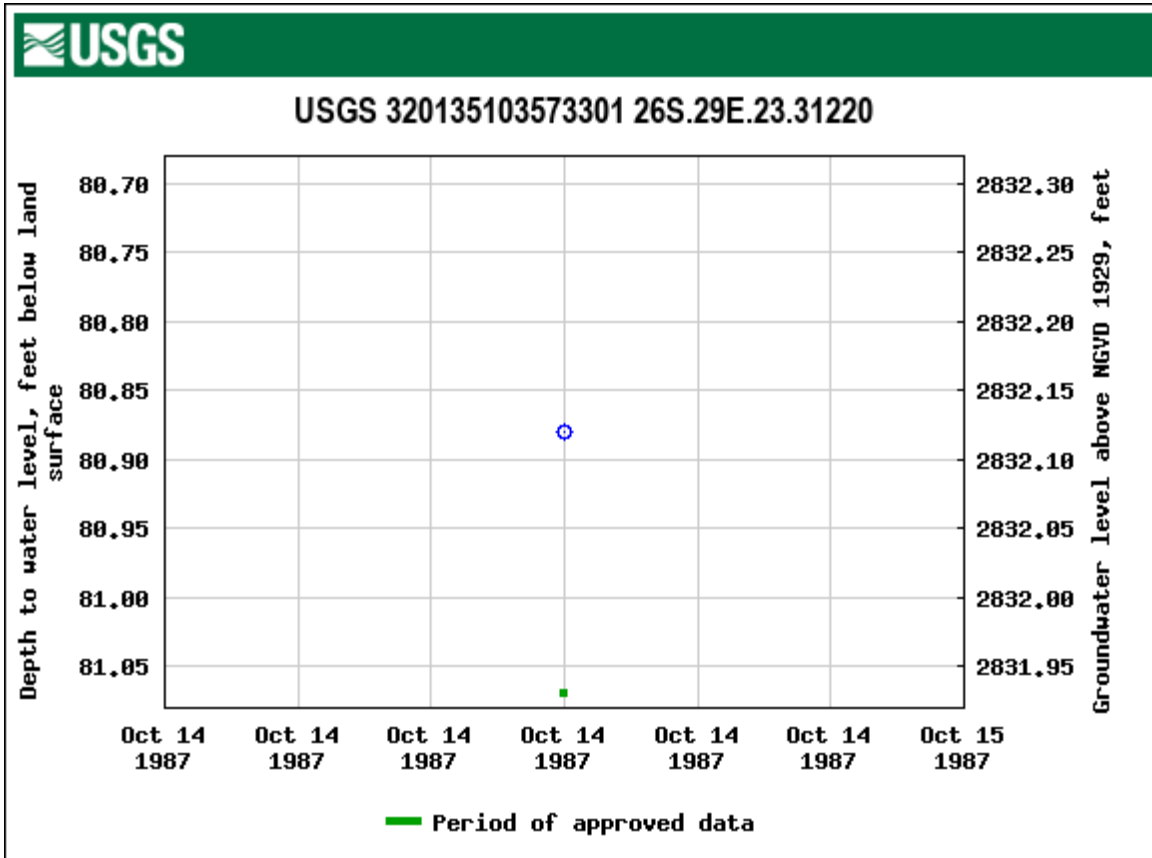
Section	Code	Description
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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



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Site Information ▼

Geographic Area:

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USGS 320106103555301 26S.29E.26.13143

Available data for this site

SUMMARY OF ALL AVAILABLE DATA ▼

GO

Well Site

DESCRIPTION:

Latitude 32°00'51.3", Longitude 103°57'42.0" NAD83

Eddy County, New Mexico , Hydrologic Unit 13070001

Well depth: 140 feet

Land surface altitude: 2,883.00 feet above NGVD29.

Well completed in "Other aquifers" (N9999OTHER) national aquifer.

Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1983-01-26	2021-02-24	7
Revisions	Unavailable (site:0) (timeseries:0)		
Additional Data Sources	Begin Date	End Date	Count
Groundwater Watch **offsite**	1983	2021	7

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

URL: [https://waterdata.usgs.gov/nwis/inventory?](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=320106103555301)

[agency_code=USGS&site_no=320106103555301](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=320106103555301)



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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320106103555301

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

USGS 320106103555301 26S.29E.26.13143

Eddy County, New Mexico
Latitude 32°00'51.3", Longitude 103°57'42.0" NAD83
Land-surface elevation 2,883.00 feet above NGVD29
The depth of the well is 140 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1983-01-26			D 62610		2828.70	NGVD29	1		Z	
1983-01-26			D 62611		2830.22	NAVD88	1		Z	
1983-01-26			D 72019	54.30			1		Z	
1987-10-14			D 62610		2847.71	NGVD29	1		Z	
1987-10-14			D 62611		2849.23	NAVD88	1		Z	
1987-10-14			D 72019	35.29			1		Z	
1992-11-04			D 62610		2838.94	NGVD29	1		S	
1992-11-04			D 62611		2840.46	NAVD88	1		S	
1992-11-04			D 72019	44.06			1		S	
1998-01-28			D 62610		2829.99	NGVD29	1		S	
1998-01-28			D 62611		2831.51	NAVD88	1		S	
1998-01-28			D 72019	53.01			1		S	
2003-01-27			D 62610		2827.07	NGVD29	1		S	USGS
2003-01-27			D 62611		2828.59	NAVD88	1		S	USGS
2003-01-27			D 72019	55.93			1		S	USGS
2013-01-09	19:00 UTC		m 62610		2825.19	NGVD29	1		S	USGS

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
2013-01-09	19:00 UTC	m	62611		2826.71	NAVD88	1	S	USGS	
2013-01-09	19:00 UTC	m	72019	57.81			1	S	USGS	
2021-02-24	21:10 UTC	m	62610		2829.54	NGVD29	1	S	USGS	
2021-02-24	21:10 UTC	m	62611		2831.06	NAVD88	1	S	USGS	
2021-02-24	21:10 UTC	m	72019	53.46			1	S	USGS	

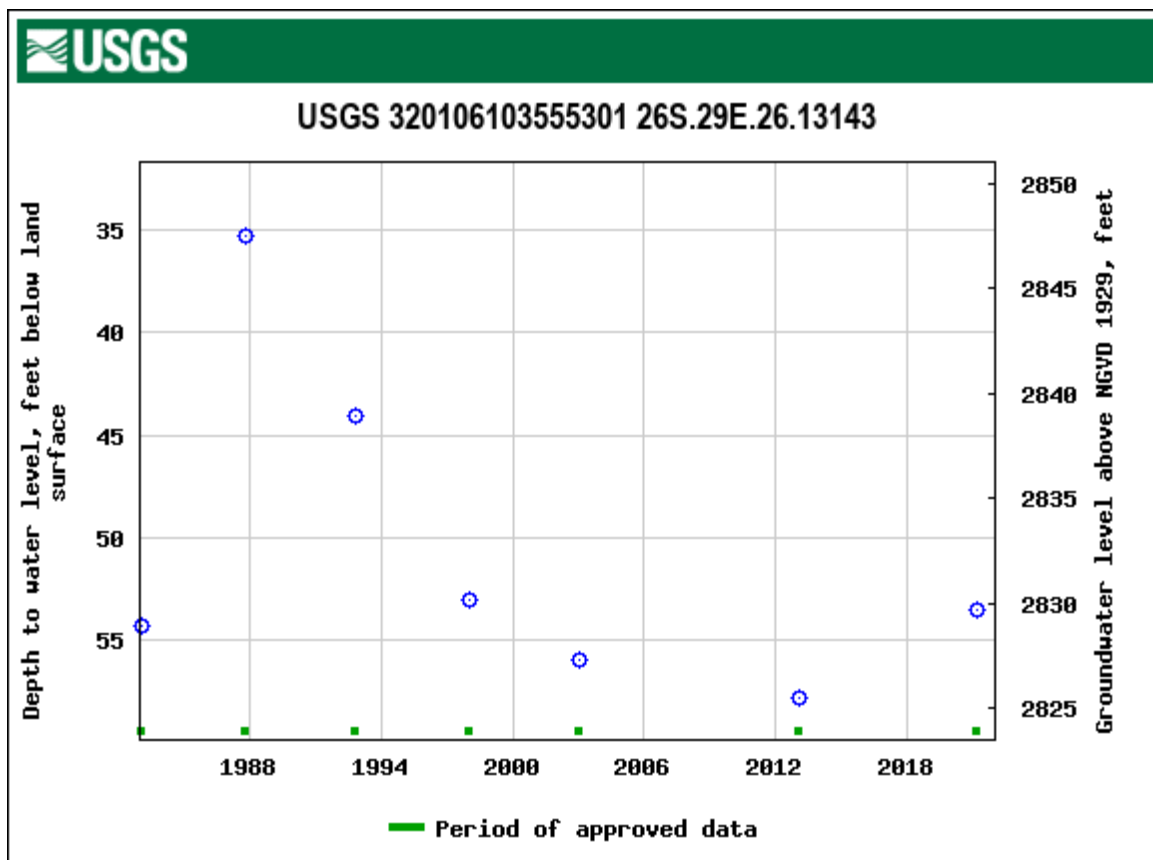
Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
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
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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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](#)

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APPENDIX C

NMOSE Well Record & Log



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD 1 (TW-1)		WELL TAG ID NO. N/A		OSE FILE NO(S). C-4630			
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL) 575-748-1838			
	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 1	SECONDS 17.32	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84		
		LONGITUDE 103	58	30.17	W			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SW SE SW Sec.22 T26S R29S NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 6/15/2022		DRILLING ENDED 6/15/2022		DEPTH OF COMPLETED WELL (FT) Temporary Well	BORE HOLE DEPTH (FT) ±55	DEPTH WATER FIRST ENCOUNTERED (FT) n/a	
	COMPLETED WELL IS: ☐ ARTESIAN ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a	DATE STATIC MEASURED 6/15/2022, 7/13/2022	
	DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☒ OTHER - SPECIFY: Hollow Stem Auger						CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐	
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	55	±6.5	Boring-HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO.

POD NO.

TRN NO.

LOCATION

WELL TAG ID NO.

PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	14	14	Sand, Fine-grained, poorly graded, unconsolidated, with Caliche, 7.5 YR 7/6, Reddish Yellow	Y ✓ N	
	14	34	20	Caliche, Broken with fine-grained sand, 7.5 YR 7/6, Reddish Yellow	Y ✓ N	
	34	39	5	Sand, Fine-grained, poorly graded, 5 YR 5/6, Reddish Yellow	Y ✓ N	
	39	49	10	Sand, Fine-grained, poorly graded, unconsolidated, with clay, 7.5 YR 7/6, Reddish Yellow	Y ✓ N	
	49	55	6	Clay, Stiff, with fine-grained sand, 5 YR 5/6, Reddish Yellow	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface.	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 Jackie D. Atkins _____ SIGNATURE OF DRILLER / PRINT SIGNEE NAME	7/15/2022 _____ DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-4630

Well owner: Devon Energy

Phone No.: 575-748-1838

Mailing address: 6488 7 Rivers Hwy

City: Artesia

State: New Mexico

Zip code: 88210

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)
- 2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Shane Eldridge, Cameron Pruitt
- 4) Date well plugging began: 7/13/2022 Date well plugging concluded: 7/13/2022
- 5) GPS Well Location: Latitude: 32 deg, 1 min, 17.32 sec
Longitude: 103 deg, 58 min, 30.17 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 51 ft below ground level (bgl),
by the following manner: water level probe
- 7) Static water level measured at initiation of plugging: n/a ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 5/23/2022
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN
cubic feet	x	7.4805	= gallons
cubic yards	x	201.97	= gallons

I, **Jackie D. Atkins**, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

7/15/2022

Date _____



APPENDIX D

Email Correspondence & Extension Request

Joseph Hernandez

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Sent: Tuesday, April 26, 2022 3:53 PM
To: Joseph Hernandez
Cc: Bratcher, Mike, EMNRD; Billings, Bradford, EMNRD; Raley, Jim; Devon-Team
Subject: RE: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 95582

[**EXTERNAL EMAIL**]

Hello Joseph,

OCD will approve a 90-day extension, but we would prefer if you could get us the revised Remediation Plan under 90 days. If you need more time, please let us know.

Note: The OCD requires a copy of all correspondence relative to remedial projects be included in all proposal and/or final closure reports. Correspondence required to be included in reports may include, but not necessarily limited to, extension requests, liner inspection notifications, sample event notifications, spill/release/fire notifications, and variance requests. This will allow for notifications and requests to become a documented part of the incident file.

Thanks,
Jennifer Nobui

From: Joseph Hernandez <jhernandez@ensolum.com>
Sent: Tuesday, April 26, 2022 2:09 PM
To: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Raley, Jim <Jim.Raley@dvn.com>; Devon-Team <Devon-Team@ensolum.com>
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 95582

All,

WPX appreciates this review and understands the importance of depth to groundwater studies for remediation. WPX is currently utilizing Atkins Engineering to drill depth to borings throughout the field, and we plan on getting to this location as soon as practical.

As such, WPX respectfully asks NMCOD for a 120-day extension associated with this work plan due to ongoing depth to groundwater determination drilling and planning. WPX's primary goal is to ensure the NMOCD interpretation of guidelines and expectations are properly planned and met.

Please let us know if you have any questions.



Joseph Hernandez

Senior Geologist

281-702-2329

Ensolum, LLC



From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Wednesday, April 20, 2022 9:14:17 AM

To: Raley, Jim <Jim.Raley@dyn.com>

Subject: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 95582

To whom it may concern (c/o James Raley for WPX Energy Permian, LLC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2200730406, for the following reasons:

- **Remediation Plan Denied. Please complete boring advancement and groundwater determination prior to Remediation Plan submittal. Please determine and present final method of remediation in plan. Please resubmit revised Remediation Plan by May 20, 2022.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 95582.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,

Jennifer Nobui

Environmental Specialist-Advanced

505-476-3441

Jennifer.Nobui@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505

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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 128123

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 128123
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. Remediation Plan Approved to excavate soils and transport excavated soils to a New Mexico approved landfill. Any alternate remedial method (ex. onsite ex-situ treatment) will require submission of a separate Remediation Plan specifying approved protocols.	8/9/2022