

Fields, Vanessa, EMNRD

From: Rebecca Haskell <RHaskell@concho.com>
Sent: Friday, February 22, 2019 10:52 AM
To: Griswold, Jim, EMNRD; Fields, Vanessa, EMNRD
Cc: Mann, Ryan
Subject: [EXT] RE: (Extension Request) Corazon State Unit Section 4 CTB 11-24-2018 1RP-5297

Will do, thank you sir.

Becky Haskell
Senior HSE Coordinator
COG Operating LLC
600 W Illinois Avenue | Midland, TX 79701
Direct: 432-818-2372 | Main: 432.683.7443
Cell: 432-556-5130
rhaskell@concho.com



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From: Griswold, Jim, EMNRD [mailto:Jim.Griswold@state.nm.us]
Sent: Friday, February 22, 2019 11:45 AM
To: Rebecca Haskell <RHaskell@concho.com>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>
Cc: Mann, Ryan <rmann@slo.state.nm.us>
Subject: [External] RE: (Extension Request) Corazon State Unit Section 4 CTB 11-24-2018 1RP-5297

Becky,

Please submit either a closure report or a characterization report with a remediation plan to the OCD by close of business on March 22, 2018. Thank you.

Jim Griswold
Environmental Bureau Chief
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505.476.3465
email: jim.griswold@state.nm.us

From: Rebecca Haskell <RHaskell@concho.com>
Sent: Friday, February 22, 2019 9:00 AM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; EMNRD-OCD-District1spills <EMNRD-OCD-

District1spills@state.nm.us>

Cc: Mann, Ryan <rmann@slo.state.nm.us>; Dakota Neel <DNeel2@concho.com>; Sheldon Hitchcock <SLHitchcock@concho.com>; DeAnn Grant <agrants@concho.com>; Ike Tavarez <itavarez@concho.com>; Jennifer Knowlton <jknowlton@concho.com>

Subject: [EXT] RE: (Extension Request) Corazon State Unit Section 4 CTB 11-24-2018 1RP-5297

Ms. Fields,

Per our conversation, we were waiting on analytical data to determine what course of action we wanted to take, either proceed at risk or to prepare and submit a work plan. We determined that we would like to proceed with the remediation at risk and started the scheduling process. If it was going to take a while to get a contractor out to conduct remediation we would have submitted a work plan, however we determined we could start work on Monday. We would like to get out there and get the impacted material out of the ground as soon as possible to prevent further migration.

Please let me know if you have any additional questions.

Thank You,

Becky Haskell
Senior HSE Coordinator
COG Operating LLC
600 W Illinois Avenue | Midland, TX 79701
Direct: 432-818-2372 | Main: 432.683.7443
Cell: 432-556-5130
rhaskell@concho.com



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From: Fields, Vanessa, EMNRD [<mailto:Vanessa.Fields@state.nm.us>]

Sent: Friday, February 22, 2019 9:41 AM

To: Rebecca Haskell <RHaskell@concho.com>; EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>

Cc: Mann, Ryan <rmann@slo.state.nm.us>; Dakota Neel <DNeel2@concho.com>; Sheldon Hitchcock <SLHitchcock@concho.com>; DeAnn Grant <agrants@concho.com>; Ike Tavarez <itavarez@concho.com>; Jennifer Knowlton <jknowlton@concho.com>

Subject: [External] RE: (Extension Request) Corazon State Unit Section 4 CTB 11-24-2018 1RP-5297

Good morning Becky,

Per our conversation, you provided an response of why Concho is requesting an extension. As requested, please specify your request in an email as I will add to our system and into the RP.

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division

Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: Rebecca Haskell <RHaskell@concho.com>
Sent: Friday, February 22, 2019 8:29 AM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>
Cc: Mann, Ryan <rmann@slo.state.nm.us>; Dakota Neel <DNeel2@concho.com>; Sheldon Hitchcock <SLHitchcock@concho.com>; DeAnn Grant <agrant@concho.com>; Ike Tavarez <itavarez@concho.com>; Jennifer Knowlton <jknowlton@concho.com>
Subject: [EXT] RE: (Extension Request) Corazon State Unit Section 4 CTB 11-24-2018 1RP-5297

Ms. Fields,

Based on our initial site assessment and evaluation COG has determined that we would like to conduct remediation at risk rather than preparing a work plan. We were waiting on scheduling with our contractors and now have this site scheduled to begin on Monday, February 25, 2019.

Let me know if you have any additional questions.

Thank You,

Becky Haskell
Senior HSE Coordinator
COG Operating LLC
600 W Illinois Avenue | Midland, TX 79701
Direct: 432-818-2372 | Main: 432.683.7443
Cell: 432-556-5130
rhaskell@concho.com



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From: Fields, Vanessa, EMNRD [<mailto:Vanessa.Fields@state.nm.us>]
Sent: Friday, February 22, 2019 9:06 AM
To: Rebecca Haskell <RHaskell@concho.com>; EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>
Cc: Mann, Ryan <rmann@slo.state.nm.us>; Dakota Neel <DNeel2@concho.com>; Sheldon Hitchcock <SLHitchcock@concho.com>; DeAnn Grant <agrant@concho.com>; Ike Tavarez <itavarez@concho.com>; Jennifer Knowlton <jknowlton@concho.com>
Subject: [External] RE: (Extension Request) Corazon State Unit Section 4 CTB 11-24-2018 1RP-5297

Good morning Becky,

Could you provide the circumstances that are preventing Concho from submitting a remediation plan within the 90 day time frame?

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: Rebecca Haskell <RHaskell@concho.com>
Sent: Thursday, February 21, 2019 3:58 PM
To: EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>
Cc: Mann, Ryan <rmann@slo.state.nm.us>; Dakota Neel <DNeel2@concho.com>; Sheldon Hitchcock <SLHitchcock@concho.com>; DeAnn Grant <agrants@concho.com>; Ike Tavarez <itavarez@concho.com>; Jennifer Knowlton <jknowlton@concho.com>; Rebecca Haskell <RHaskell@concho.com>
Subject: [EXT] (Extension Request) Corazon State Unit Section 4 CTB 11-24-2018 1RP-5297

To Whom It May Concern,

Under the new spill rule a work plan or closure report is due for the above release (90 days from the release date) on 2/22/19. COG has conducted an initial investigation and would like to conduct remediation at risk. COG is requesting a three month extension until May 22, 2019 in order to conduct remediation and prepare a closure report.

Please let me know if you have any questions or concerns.

Thank You,

Becky Haskell
Senior HSE Coordinator
COG Operating LLC
600 W Illinois Avenue | Midland, TX 79701
Direct: 432-818-2372 | Main: 432.683.7443
Cell: 432-556-5130
rhaskell@concho.com



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From: Hernandez, Christina, EMNRD [<mailto:Christina.Hernandez@state.nm.us>]
Sent: Saturday, December 29, 2018 3:46 PM
To: DeAnn Grant <agrant@concho.com>; Mann, Ryan <rmann@slo.state.nm.us>
Cc: Ike Tavarez <itavarez@concho.com>; Robert McNeill <RMcNeill@concho.com>; Sheldon Hitchcock <SLHitchcock@concho.com>; Dakota Neel <DNeel2@concho.com>; Rebecca Haskell <RHaskell@concho.com>
Subject: [External] RE: (C-141 Initial) Corazon State Unit Section 4 CTB 11-24-2018

**** External email. Use caution. ****

Ms. Grant:

Notes

1. Dated, geo-referenced photo documentation for verification that the initial response activities have been employed to contain the release is requested.
2. Per 19.15.29.13 NMAC, regulations of corresponding agencies supersede NMOCD's.

The 1RP for this incident is

5297	12/29/2018	A	COG	Corazon State Unit Section 4 CTB		21S-33E-4C	1
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Please remember to include this 1RP identifier to all communications. Delineate and remediate per regulation NMAC 19.15.29 available at <http://164.64.110.134/parts/title19/19.015.0029.html>. Mind the timelines for submittal of requisite information.

Please be advised that NMOCD recommends a completed site characterization/delineation report be reviewed or approved by NMOCD BEFORE any significant remediation work towards closure.

Thanks,
Christina Hernandez
EMNRD-OCD
Environmental Specialist
1625 N. French Drive
Hobbs, NM 88240
575-393-6161 x111
Christina.Hernandez@state.nm.us

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

From: DeAnn Grant <agrant@concho.com>

Sent: Wednesday, December 5, 2018 2:41 PM

To: Hernandez, Christina, EMNRD <Christina.Hernandez@state.nm.us>; Mann, Ryan <rmann@slo.state.nm.us>

Cc: Ike Tavarez <itavarez@concho.com>; Robert McNeill <RMcNeill@concho.com>; Sheldon Hitchcock <SLHitchcock@concho.com>; Dakota Neel <DNeel2@concho.com>; Rebecca Haskell <RHaskell@concho.com>; DeAnn Grant <agrant@concho.com>

Subject: [EXT] (C-141 Initial) Corazon State Unit Section 4 CTB 11-24-2018

Ms. Hernandez/Mr. Mann,

Please find the attached C-141 for your consideration. Also, attached is the calculation sheet to determine the estimated release volume. The liquid lost estimate is based on the spill dimensions, estimated depth of fluid (wet soil depth) and type of formation. The spreadsheet will calculate the volume lost in the ground and does not include the recovered amount in the calculation. The calculated volume in the ground and the volume recovered were added together and reported on the C-141. If you have any questions or concerns please do not hesitate to contact me.

Thank you,

DeAnn Grant

HSE Administrative Assistant

agrant@concho.com

COG Operating LLC

600 W Illinois Avenue | Midland, TX 79701

Direct: 432-253-4513 | Main: 432.683.7443



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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

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 dissolved chloride 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

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <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

<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.	
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: _____	Title: _____
Signature: <u>Delann Opreant</u>	Date: _____
email: _____	Telephone: _____
OCD Only Received by: _____	<div style="border: 1px solid black; padding: 5px; text-align: center;"> RECEIVED By CHernandez at 2:45 pm, Dec 29, 2018 </div>

Remediation Plan and/or Closure Report must be submitted to the OCD by COB on March 22, 2019.

Vanessa Fields Environmental Specialist

Incident ID	
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?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input 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 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 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 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 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 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 type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input 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.

<p>Characterization Report Checklist: <i>Each of the following items must be included in the report.</i></p> <ul style="list-style-type: none"><input type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.<input type="checkbox"/> Field data<input type="checkbox"/> Data table of soil contaminant concentration data<input type="checkbox"/> Depth to water determination<input type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release<input type="checkbox"/> Boring or excavation logs<input type="checkbox"/> Photographs including date and GIS information<input type="checkbox"/> Topographic/Aerial maps<input type="checkbox"/> 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	
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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
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	
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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

******* LIQUID SPILLS - VOLUME CALCULATIONS *******

Location of spill: COG Corazon Section 4 Battery

Date of Spill: 24-Nov-2018

If the leak/spill is associated with production equipment, i.e. - wellhead, stuffing box, flowline, tank battery, production vessel, transfer pump, or storage tank place an "X" here: ☒

Input Data:

If spill volumes from measurement, i.e. metering, tank volumes, etc. are known enter the volumes here: OIL: 0.0 BBL WATER: 0.0 BBL

If "known" spill volumes are given, input data for the following "Area Calculations" is optional. The above will override the calculated volumes.

Total Area Calculations							Standing Liquid Calculations						
Total Surface Area		width	length	wet soil			Standing Liquid Area		width	length	liquid depth		oil (%)
				depth	oil (%)								
Rectangle Area #1	223 ft		60 ft	X	0.05 in	60%	Rectangle Area #1	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #2	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #2	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #3	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #3	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%

okay

production system leak - DAILY PRODUCTION DATA REQUIRED

Average Daily Production: Oil 0 BBL Water 0 BBL 0 Gas (MCFD)

Total Hydrocarbon Content in gas: 0% (percentage)

Did leak occur before the separator?: ☒ YES ☒ N/A (place an "X")

H2S Content in Produced Gas: 0 PPM

H2S Content in Tank Vapors: 0 PPM

Amount of Free Liquid Recovered: 8 BBL

Percentage of Oil in Free Liquid Recovered: 0% (percentage)

Liquid holding factor *: 0.14 gal per gal

Use the following when the spill wets the grains of the soil.

* Sand = 0.08 gallon (gal.) liquid per gal. volume of soil.

* Gravelly (caliche) loam = 0.14 gal. liquid per gal. volume of soil.

* Sandy clay loam soil = 0.14 gal liquid per gal. volume of soil.

* Clay loam = 0.16 gal. liquid per gal. volume of soil.

Use the following when the liquid completely fills the pore space of the soil:

Occurs when the spill soaked soil is contained by barriers, natural (or not).

* Clay loam = 0.20 gal. liquid per gal. volume of soil.

* Gravelly (caliche) loam = 0.25 gal. liquid per gal. volume of soil.

* Sandy loam = 0.5 gal. liquid per gal. volume of soil.

Total Solid/Liquid Volume: 13,380 sq. ft.	22 cu. ft.	33 cu. ft.	Total Free Liquid Volume: sq. ft.	cu. ft.	cu. ft.
Estimated Volumes Spilled			Estimated Production Volumes Lost		
Liquid in Soil:	H2O	OIL	Estimated Production Spilled:	H2O	OIL
Free Liquid:	<u>0.6</u> BBL	<u>0.8</u> BBL		<u>0.0</u> BBL	<u>0.0</u> BBL
Totals:	<u>0.6</u> BBL	<u>0.8</u> BBL			
Total Liquid Spill Liquid:	0.6 BBL	0.8 BBL	Estimated Surface Damage		
			Surface Area:	<u>13,380</u> sq. ft.	
			Surface Area:	<u>.3072</u> acre	
Recovered Volumes			Estimated Weights, and Volumes		
Estimated oil recovered:	BBL	check - okay	Saturated Soil =	<u>6,244</u> lbs	<u>56</u> cu. ft.
Estimated water recovered:	BBL	check - okay	Total Liquid =	<u>1</u> BBL	<u>58</u> gallon
					<u>2</u> cu. yds.
					<u>486</u> lbs

Air Emission from flowline leaks:

Volume of oil spill: - BBL
Separator gas calculated: - MCF
Separator gas released: - MCF
Gas released from oil: - lb
H2S released: - lb
Total HC gas released: - lb
Total HC gas released: - MCF

Air Emission of Reporting Requirements:

New Mexico
HC gas release reportable? **NO**
H2S release reportable? **NO**
Texas
NO
NO