

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	NAPP2200543737
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party MACK ENERGY CORP	OGRID 013837
Contact Name MATT BUCKLES	Contact Telephone 575-703-1958
Contact email <u>mattbuckles@mec.com</u>	Incident # (assigned by OCD)
Contact mailing address 11344 Lovington Highway, Artesia NM 88210	

Location of Release Source

Latitude **32.741803**

Longitude **103.298714**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name OREGON STATE #1	Site Type PRODUCTION
Date Release Discovered 1/4/22	API# (if applicable) 30-025-40882

Unit Letter	Section	Township	Range	County
M	18	18S	37E	LEA 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) 8BBLS	Volume Recovered (bbls) 0BBLS
<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

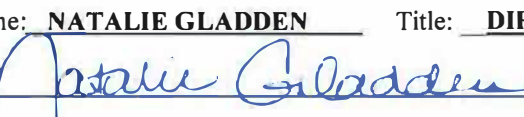
Flowline busted due to freezing weather. Fluid was released onto the pad and pasture area. Fluid soaked in therefore no recovery of fluids occurred.

Incident ID	NAPP2200543737
District RP	
Facility ID	
Application ID	

<p>Was this a major release as defined by 19.15.29.7(A) NMAC?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>If YES, for what reason(s) does the responsible party consider this a major release?</p>
<p>If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?</p> <p>EMAIL WAS SENT TO OCD ON 1/5/22 AT 11:55 A.M.</p>	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>NATALIE GLADDEN</u> Title: <u>DIRECTOR OF ENVIRONMENTAL AND REGULATORY</u>	
Signature: <u></u> Date: <u>1/5/22</u>	
email: <u>natalie@energystaffingllc.com</u> Telephone: <u>575-390-6397</u>	
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>1/5/2022</u>	

Soil Type	Porosity	Length	Width	Depth (.083 per inch)	Cubic Feet	Estimated Barrels	Soil Type
Clay	0.15	10	10	0.083	8.3	0.22	Clay
Peat	0.40	10	10	0.083	8.3	0.59	Peat
Glacial Sediments	0.13	10	10	0.083	8.3	0.19	Glacial Sediments
Sandy Clay	0.12	10	10	0.083	8.3	0.18	Sandy Clay
Silt	0.16	10	10	0.083	8.3	0.24	Silt
Loess	0.25	10	10	0.083	8.3	0.37	Loess
Fine Sand	0.16	10	10	0.083	8.3	0.24	Fine Sand
Medium Sand	0.25	100	20	0.083	166	7.40	Medium Sand
Coarse Sand	0.26	10	10	0.083	8.3	0.38	Coarse Sand
Gravelly Sand	0.26	10	10	0.083	8.3	0.38	Gravelly Sand
Fine Gravel	0.26	10	10	0.083	8.3	0.38	Fine Gravel
Medium Gravel	0.20	10	10	0.083	8.3	0.30	Medium Gravel
Coarse Gravel	0.18	10	10	0.083	8.3	0.27	Coarse Gravel
Sandstone	0.25	10	10	0.083	8.3	0.37	Sandstone
Siltstone	0.18	10	10	0.083	8.3	0.27	Siltstone
Shale	0.05	10	10	0.083	8.3	0.07	Shale
Limestone	0.13	10	10	0.083	8.3	0.19	Limestone
Basalt	0.19	10	10	0.083	8.3	0.28	Basalt
Volcanic Tuff	0.20	10	10	0.083	8.3	0.30	Volcanic Tuff
Standing Liquids	X	10	10	0.083	8.3	1.48	Standing Liquids

1	2	3	4	5	6
0.083	0.166	0.250	0.332	0.415	0.500
7	8	9	10	11	12
0.581	0.664	0.750	0.830	0.913	1.000

NOTE: This is an **estimate** tool designed for quick field estimates or whether a C-141 should be required (i.e. a release is estimated to be greater than or less than 5 barrel volumes)

Choose the one prevailing ground type for estimating spill volumes at a single location.

Note that the depth should be measured in feet and tenths of feet (1 inch = .083)

Cubic Feet = L x W x D

Estimated Barrels = ((Cubic Feet x Porosity) / 5.61)

Site Ranking score		Depth to ground water (GW)		
GW + WPA + SWB =		Less Than 50 feet	50-99 feet	Greater Than 100 feet
		20	10	0
Remediation Action Levels		Wellhead protection area (WPA)		
Total Ranking Score		Less Than 1000 feet from a water source, or;		
>19 10 – 19 0 – 9		Less Than 200 feet from private domestic water source		
Benzene (ppm)	10 10	Yes	No	
BTEX (ppm)	50 50	20	0	
TPH (ppm)	100 1000			
Contaminated soils must be remediated until the contaminants are to the parts per million listed above.		Distance to nearest surface water body (SWB)		
Other contaminants, not listed, must be remediated to WQCC, EPA, RCRA or other standards for those specific contaminants.		Less Than 200 Horizontal Feet	200-1000 Horizontal Feet	Greater Than 1000 Horizontal Feet
		20	10	0
Contaminant Dileneation by observation				
Provide brief label for each area (i.e. wellhead, SE corner, inside berm, pasture, etc.)		Length times Width = Square Feet	Highly Contaminated / Saturated Soils	Unsaturated Contaminated Soils
Area 1 _____		Approximate area:	L w sq ft	L w sq ft
Area 2 _____		Approximate area:	L w sq ft	L w sq ft
Area 3 _____		Approximate area:	L w sq ft	L w sq ft
Area 4 _____		Approximate area:	L w sq ft	L w sq ft
Estimate of Volume of impacted Soils and liquid volume				
Provide total square feet for each area, multiply by average detph and fill in cubic feet		Square Feet times Average Depth = Cubic Feet 1 inch = 0.083 feet	Highly Contaminated / Saturated Soils	Unsaturated Contaminated Soils
Area 1: _____ Sq Ft _____ Ft Avg Depth			CUBIC FEET	CUBIC FEET
Area 2: _____ Sq Ft _____ Ft Avg Depth			CUBIC FEET	CUBIC FEET
Area 3: _____ Sq Ft _____ Ft Avg Depth			CUBIC FEET	CUBIC FEET
Area 4: _____ Sq Ft _____ Ft Avg Depth			CUBIC FEET	CUBIC FEET
To calculate an estimate of liquid volume released use the following formula				
(Note: This formula does not calculate free-standing liquids and is based on unsaturated, contaminated soils. Highly saturated soils may be higher volumes.)				
However, use the sum of all soils that are visibly contaminated, whether saturated or unsaturated to obtain the low-end estimate.)				
Square Feet times Average Depth equals Cubic Feet times Porosity divided by 5.61 equals estimated volume (bbl) of spill.				
Area No.	Square Feet	X	Average Depth	= Cubic Feet X Porosity / 5.61 = Volume (bbl)
1				5.61 bbl
2				5.61 bbl
3				5.61 bbl
4				5.61 bbl
(Note: Releases greater than 5 bbl must be reported using Form C-141)				Total Estimated Volume =
Example	300		0.5 (6 inches)	150 0.2 5.61 5.35 bbl
Soil Types & Porosity Values:				
High Clay Content Soils = 0.15 Silty Soils and Fine Sand = 0.16 Sand/Sandy Soils = 0.26 Gravel = 0.26 Rocky Soils = 0.4				
Areas on a well maintained, <u>hard packed</u> caliche location should use porosity value of 0.18.				
Use only one value for the predominate soil type in each area. Local variations may apply (sinkholes, crevices, caves, steep slope...)				
You are encouraged to use the OCD publication entitled "Remediation of Leaks, Spills and Releases" as a guide during remediation operations. This guide contains a full discussion of site assessment and required remediation action levels and can be found on the OCD website at http://www.emnrd.state.nm.us/emnrd/ocd/EH-MiscGuidelines.htm				

Soil	Dry Bulk Density	Total Porosity	Effective Porosity
Clay	1.00-2.40	0.34-0.60	0.01-0.2
Peat	x	x	0.3-0.5
Glacial Sediments	1.15-2.10	x	0.05-0.2
Sandy Clay	x	x	0.03-0.2
Silt	x	0.34-0.61	0.01-0.3
Loess	0.75-1.60	x	0.15-0.35
Fine Sand	1.37-1.81	0.26-0.53	0.01-0.3
Medium Sand	1.37-1.81	x	0.15-0.3
Coarse Sand	1.37-1.81	0.31-0.46	0.2-0.35
Gravely Sand	1.37-1.81	x	0.2-0.35
Fine Gravel	1.36-2.19	0.25-0.38	0.2-0.35
Medium Gravel	1.36-2.19	x	0.15-0.25
Coarse Gravel	1.36-2.19	0.24-0.36	0.1-0.25
Sandstone	1.60-2.68	0.05-0.30	0.1-0.4
Siltstone	x	0.21-0.41	0.01-0.35
Shale	1.54-3.17	0.0-0.10	x
Limestone	1.74-2.79	0.0-0.50	0.01-0.24
Granite	2.24-2.46	x	x
Basalt	2.00-2.70	0.03-0.35	x
Volcanic Tuff	x	x	0.02-0.35

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 70679

CONDITIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 70679
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	The submitted C-141 is accepted with the following condition(s): The lateral and longitudinal information does not match the ULSTR regarding the release location. Please correct the conflicting information and report back to OCD. The latitude and longitude information on the C-141 resulted in the following ULSTR: O-17-18S-27E.	1/5/2022