

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	nAPP2314456374
District RP	
Facility ID	30-045-05223
Application ID	219898

## Release Notification

### Responsible Party

Responsible Party	Maralex Resources Inc	OGRID	13998
Contact Name	Trish Harrison	Contact Telephone	970-563-4000
Contact email	Trishharrison@eis-llc.com	Incident # (assigned by OCD)	
Contact mailing address	PO Box 338, Ignacio CO 81137		

### Location of Release Source

Latitude 36.3701973 Longitude -107.9847107  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Patty #1	Site Type	Wellsite
Date Release Discovered	5/21/2023	API# (if applicable)	30-045-05223

Unit Letter	Section	Township	Range	County
I	27	25N	11W	San Juan

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 checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 10 bbls	Volume Recovered (bbls) 1 bbl
<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 Separator Failure

Incident ID	NAPP2314456374
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 checked="" 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 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>Trish Harrison</u>	Title: <u>Permitting</u>
Signature: <u>Patricia Harrison</u>	Date: <u>5.23.2023</u>
email: <u>Trishharrison@eis-llc.com</u>	Telephone: <u>970-563-4000</u>
<b><u>OCD Only</u></b>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>06/06/2023</u>

# MARALEX RESOURCES, INC Spill Remediation Plan

For the

Patty #1

June 2023

## Prepared for

Maralex Resources, Inc  
Ignacio, CO 81137  
Phone: 970-563-4000

## Developed by



479 Wolverine Drive  
Bayfield, Colorado 81122  
Phone: (970) 884-4080

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## 1 Project Description

Operator	Maralex Resources, Inc
API Number	30-045- 05223
Federal Lease Number	NMNM0365252A
Well Location Name	Patty #1
Legal Location	36.370342° -107.984830°
	T25N R11W Sec272 NESW
Spill/Release Area	~2,5750 square feet
Total Initial Remediation Area	5,700 Sq Feet
Incident ID	nAPP2314456374

This plan has been prepared by EIS Environmental & Permitting Solutions, LLC. (EIS Environmental) for Maralex Resources Inc. to meet the requirements and guidelines of the New Mexico Oil Conservation Division (NMOCD) NMAC 19.15.29. This plan describes the spill, the extent of the spill, cleanup that has occurred thus far, and proposed soil sampling plan.

In addition to the drafting of this plan, NMOCD and the BLM will be informed when remediation has been completed, is reported to be successful, or when the site is ready for final inspection.

## 2 Background

The release was discovered on May 21, 2023, and was the result of a broken site glass in the separator. The release made its way down gradient from the site along the access road for approximately 150 feet. A backhoe, skidsteer and hand crews were utilized to clean up the soil in the area that had staining and odor within the flow path. Approximately 32 cubic yards of soil were removed. The Patty#1 well is located in T25N R11W Sec272 NESW in San Juan County in New Mexico.

## 3 Notifications:

The initial spill notification C-141 was submitted to NMOCD on May 23, 2023, and assigned incident number nAPP2314456374.



The BLM was notified officially on May 24, 2023, via the FFO-UE form.



Maralex Resources, Inc reported that approximately ten (10) barrels (bbls) of oil were released and that one (1) barrel was recovered.

### 3.1 Justification for volume reported spilled:

As per MRI CEO Mickey O'Hare: Pumper checked the location on Friday afternoon and there was no leak, no issues. He discovered the leak on Sunday afternoon. The well makes at most eight (8) bbls per day. Therefore, if the leak occurred immediately after the pumper left location on Friday afternoon, the most that could have spilled is 16 bbls. Based on Mickey's estimates and measurements, he estimated the spill to be ten (10) bbls. One barrel was recovered.



#### 4 Spill Area

Estimation of spill area is approximately 2600 sq feet.



Patty#1 Oil Spill.kml



Patty#1 Oil Spill.kmz



## 5 Initial Site Photos of Spill



Oil running off the pad down the access road (SW)



Oil on pad (facing NW)



Oil on pad (facing NW)



Oil on pad (Facing W)



## 6 Initial Remediation

Estimated area of remediation was 5,600 square feet with 32 yards of soil removed. Impacted soil was removed from location and disposed of at Envirotech (Attachment I).



Patty#1 Oil Spill Remediation Area.kml



Patty#1 Oil Spill Remediation Area.kmz

### Attachment I – Soil Disposal Documentation



enviro-05262023144  
221.pdf



## 7 Site Photos after initial remediation



Access road (facing N)



End of access road (facing W)



At south end of pad facing north



At south end of pad facing north





At south east end of pad facing north west



At south east end of pad facing north west



At south east end of pad facing north west



At the entrance to the pad facing down the access road



## 8 Soil Sample Plan

Maralex Resources, Inc, proposes a sampling methodology of collecting five (5) samples within the release flow path and three background samples upgradient of the impacted area utilizing NMAC Table I Closure Criteria for Soils Impacted by a Release. All samples will be hand augured to a depth of one (1) foot or to a restrictive layer. All samples will be transported via ice and analyzed utilizing EPA 300 approved series. Additionally, the BLM representative present during soil sampling requested two additional samples be taken in areas of concern that staining or contamination may still be present. Each background control sample and spill sample location are listed below.

SP1 – 36.370181°N / -107.984994°W

SP2 – 36.370247°N / -107.984921°W

SP3 – 36.370311°N / -107.984801°W

SP4 – 36.369920°N / -107.985045°W

SP5 – 36.370365°N / -107.984696°W

SP6 – 36.370097°N / -107.985001°W

SP7 – 36.370277°N / -107.984898°W

Control 1 – 36.370106°N / -107.984231°W

Control 2 – 36.370630°N / -107.984350°W

Control 3 – 36.369796°N / -107.984822°W





## 9 Remediation and Closure

As mentioned above, initial cleanup and remediation occurred immediately after the release. Based on sampling results from this proposed plan, if levels of contaminants exceed Table 1 (ground water greater the 100-feet), Maralex Resources Inc will submit a remediation plan to further remediate and reclaim the impacted area. If the samples come back clean and levels of contaminants are below the Table 1 (ground water greater the 100-feet), MRI will pursue the closure of the incident with NMOCD via a C-141 based on the remediation and reclamation that has already occurred. The BLM will be consulted for any required reclamation of the area to meet their reclamation standards.

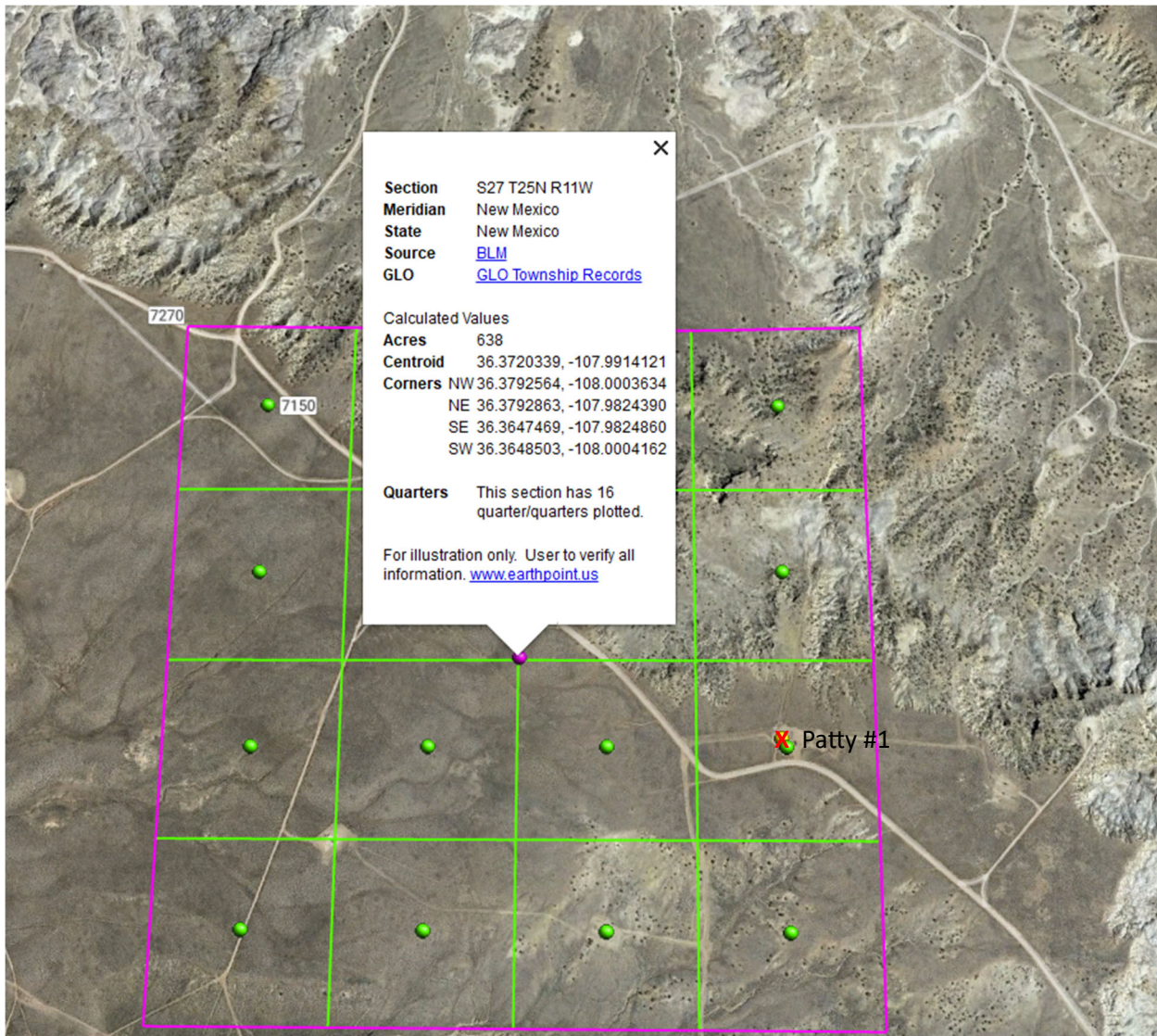
Attachment II – Table I Closure Criteria for Soils Impacted by a Release

<b>Table I</b> <b>Closure Criteria for Soils Impacted by a Release</b>			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
<= 50 feet	Chloride***	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
>100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

## 10 Maps









IMG\_3581.JPG

1 of 1

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

**Form C-138**  
 Revised August 1, 2011

\*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
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 811 S. First St., Artesia, NM 88210  
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 1220 S. St. Francis Dr., Santa Fe, NM 87505

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. **Generator Name and Address:**  
 Maralex Resources, Inc.

**Billing code for Invoice:**

2. **Originating Site:**  
 Patty #1

3. **Location of Material (Street Address, City, State or ULSTR):**  
 36.3701973 / -107.9847107

4. **Source and Description of Waste:**  
 Oily dirt.

Estimated Volume 28 yd<sup>3</sup> / bbls Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ yd<sup>3</sup> / bbls

**5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

Mollie O'Hare representative or authorized agent for Maralex Resources, Inc. do hereby  
 PRINT & SIGN NAME COMPANY NAME  
 certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988  
 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. Operator Use Only: Waste Acceptance Frequency ☐ Monthly ☐ Weekly ☒ Per Load

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous: (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

**GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS**

Mollie O'Hare representative for Maralex Resources, Inc. authorize Envirotech to  
 Generator Signature  
 complete the required testing/sign the Generator Waste Testing Certification.

\_\_\_\_\_ representative for \_\_\_\_\_ do hereby certify that  
 representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples  
 have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results  
 of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of  
 19.15.36 NMAC.

6. **Transporter:**  
Mollie or Katie O'Hare

**OCD Permitted Surface Waste Management Facility**

Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility Permit # NM-01-0011

Address of Facility: #43 Road 7175, South of Bloomfield NM

Method of Treatment and/or Disposal:

☐ Evaporation ☒ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

**Waste Acceptance Status:**

☒ APPROVED ☐ DENIED (Must Be Managed At Different Facility)

PRINT NAME: \_\_\_\_\_ TELEPHONE: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_ TELEPHONE NO.: \_\_\_\_\_

Surface Waste Management Facility Authorized Agent

19%

# Bill of Lading

GENERATOR 00000000

TRANSPORTER mmr16x

DATE 05/24/23 JOB #

DATE 05/24/23 JOB #

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. Landarm employee signature is certification of the above material being received and placed accordingly.

Phone

**Yellow - Customer**      **Pink - LE Copy**

Pink - LF Copy

DATE 11/5/23 JOB # 210B

DATE 05/25/20 JOB #

[illegible]

Phone

**Pink - 1 E Copy**



**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 220546

CONDITIONS

Operator: MARALEX RESOURCES INC P.O. Box 338 Ignacio, CO 81137	OGRID: 13998
	Action Number: 220546
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	6/6/2023