

**APPROVED**

**By Olivia Yu at 2:30 pm, Dec 20, 2017**

November 21, 2017

NMOCD District I  
Olivia Yu  
1625 N French Dr  
Hobbs, New Mexico 88240

RE: **Pure State Gathering Facility**  
Unit P Section 36 – T19S – R34E  
API: 30-025-20096

NMOCD approves of the proposed delineation plan for 1RP-4859. For each sample location, laboratory analyses must depict permissible levels for at least 2 depths: depth obtained and depth maintained at least 5 ft. further in depth. Permissible chloride levels are 600 mg/kg.

Dear Ms. Yu,

Tandem Energy would like to submit the following assessment and delineation proposal for **Pure State Gathering Facility**. The site is located in Unit P, Section 36, Township 19S, Range 34E in Lea County on State Land.

Summary of the release is as follows:

**TABLE 1**

<b>Well Name:</b>	<b>Pure State Gathering Facility</b>
<b>Operator:</b>	<b>Tandem Endergy Corp</b>
<b>RP Number:</b>	<b>1PR-4979</b>
<b>API Number:</b>	<b>30-025-20096</b>
<b>GPS Location of release:</b>	<b>GPS of release is attached</b>
<b>Date of Release:</b>	<b>10.19.2017</b>
<b>Date Reported to NMOCD – Hobbs:</b>	<b>10.20.2017 @ 1000hrs to Olivia Yu</b>
<b>Land Owner:</b>	<b>State of NM</b>
<b>Cause of Release:</b>	<b>Lightning Strike</b>
<b>Type of Release:</b>	<b>Oil and Water</b>
<b>Volume Released of Oil</b>	<b>318bbbls</b>
<b>Volume Recovered of Oil</b>	<b>0</b>
<b>Volume of Water Released</b>	<b>56bbbls</b>
<b>Volume of Water Recovered</b>	<b>0</b>
<b>Nearest Waterway</b>	<b>Greater than 1000'</b>
<b>Depth to Groudwater (estimated)</b>	<b>Less than 50'</b>
<b>Nearest Domestic Water Source:</b>	<b>Greater than 1000'</b>
<b>NMOCD Ranking:</b>	<b>20</b>

**Background:**

The tank battery was struck by lightning causing produced water and hydrocarbons to be released on an unlined production facility. The release affected the tank battery, location, road and pasture. The lightning strike caused the facility to catch fire and consumed all standing hydrocarbons. The facility was a total loss and there are current plans of rebuilding the facility upon completion of remedial activities.

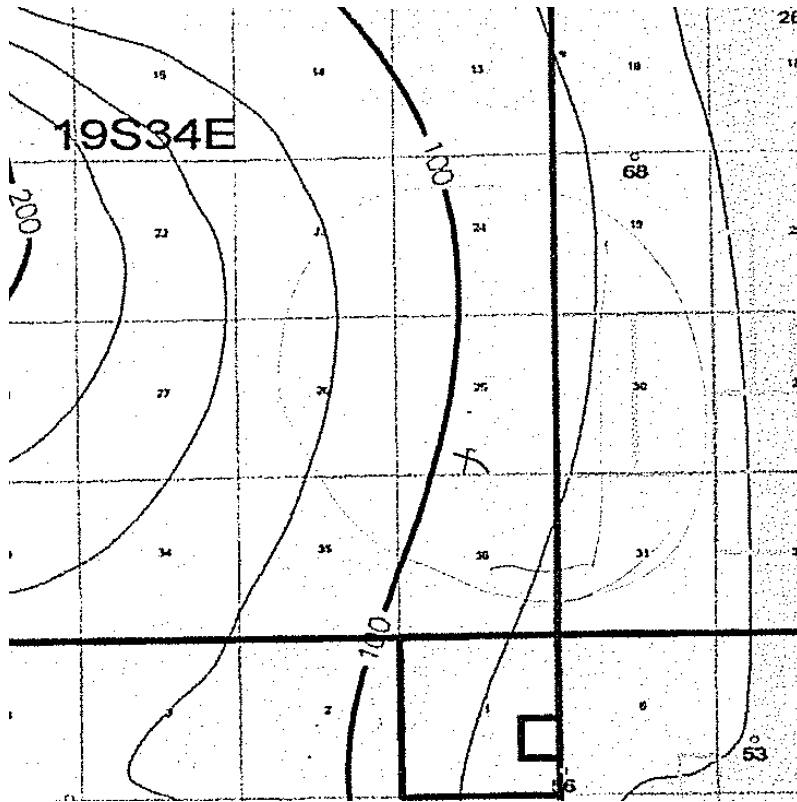
No active waterways are located within the area, nor domestic water sources. A search of the New Mexico State Engineer's Office (NMOSE) online water well database for water wells within the vicinity of the release, showed a total of four (4) wells. Locations are as follows:

**TABLE 2:**

SEC 36-T19S-R34E	1 well – Depth of well 100' (no water data)
SEC 25-T19S-R34E	1 well – Average depth to water 28'
SEC 26-T19S-R34E	NO WELLS
SEC 35-T19S-R34E	NO WELLS
SEC 1-T20S-R34E	NO WELLS
SEC 2-T20S-R34E	NO WELLS
SEC 30-T19S-R35E	NO WELLS
SEC 31-T19S-R35E	NO WELLS
SEC 6-T20S-R35E	2 WELLS – Average depth to water 64'

The Chevron Trend map shows an average water depth of 75' to 100' bgs.

**FIGURE 1:**



**Recommended Remediation Action Levels (RRALs):**

The following is the site ranking according to the NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (1993). Below in Table 3 are the remediation standards and the site ranking for this location.

**TABLE 3:**

SOIL REMEDIATION STATNDARDS	0-9	10-19	>19
<b>Benzene</b>	<b>10ppm</b>	<b>10ppm</b>	<b>10ppm</b>
<b>BTEX</b>	<b>50ppm</b>	<b>50pm</b>	<b>50ppm</b>
<b>TPH</b>	<b>5000ppm</b>	<b>1000ppm</b>	<b>100ppm</b>

Depth to Groundwater	NMOCD Ranking
<50' = 20	20
50' to 99' = 10	
>100' = 0	
Distance to Nearest Surface Water	NMOCD Ranking
<200' = 20	
200' – 1000' = 10	
>1000' = 0	0
Well Head Protection	NMOCD Ranking
<1000' (<200' domestic) = 20	
>1000' = 0	0

**Delineation Proposal:**

Based on initial site assesment, the heaviest impact is located around the remains of the facility. The area affected outside the facility was mainly burnt pasture land. The total affected area including burned grassland is approximately 43,248 sq ft. The facility area will be delineated hozinontally and vertically to determine the total depth and width of impact with depth intervals not to exceed five (5) feet. The area outside of the facility area will be sampled on a grid pattern to determine if any environmental impact exists. Once the area has been thoroughly delientaed, a corrective action plan will be submitted to the NMOCD for considertion and approval.

Tandem will incorporate the Mohr Titration Method to delineate the impacted area for chlorides. Field delineation data will be submitted with the corrective action plan. Additionally, laboratory analytical data will be submitted on all bottom hole samples for chlorides, BTEX and TPH C6-C36 (GRO, DRO, and MRO) per NMOCD COA's.

**Request:**

Tandem Energy hereby requests approval to begin delineation activies.

Sincerely,

Tony Tucker

**ATTACHMENTS:**

1. GPS MAP OF AFFECTED AREA
2. TOPOGRAPHICAL MAP
3. SURFACE AREA MAP
4. NM OSE WATER DATA
5. NMOCD C-141

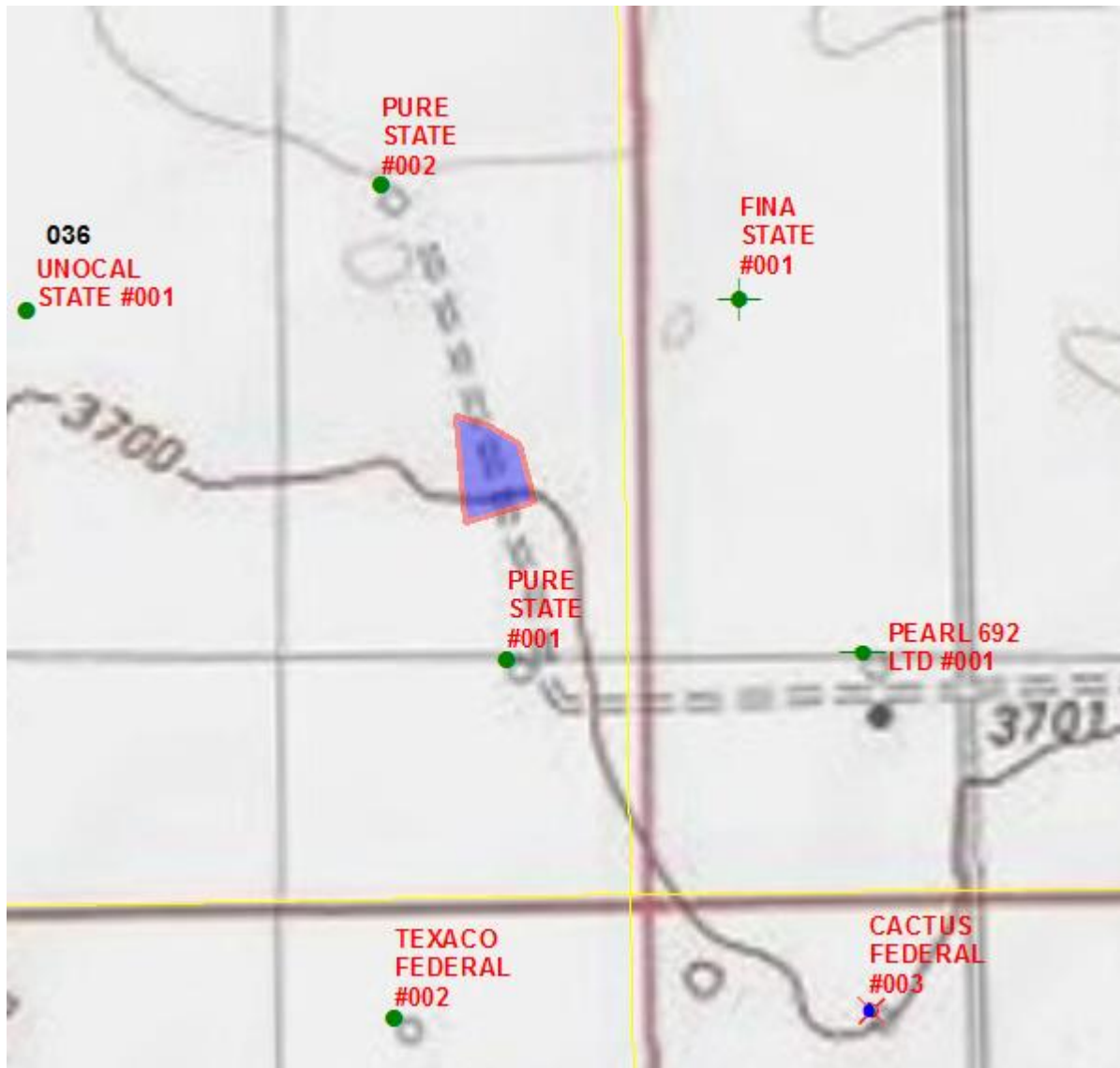
1. Affected Area:



Polygon: Pol-1  
Area: 43,248 sq ft    Perimeter: 860.9 ft

Point	Latitude	Longitude	Distance to next	Azimuth	Angle	Altitude
n. 0	32.61251385	-103.50673223	199.9 ft	---	---	n.d.
n. 1	32.61265333	-103.50610442	170.3 ft	75.2°	91.5°	n.d.
n. 2	32.61310890	-103.50623161	102.7 ft	346.8°	132.1°	n.d.
n. 3	32.61324484	-103.50652403	92.9 ft	298.9°	168.8°	n.d.
n. 4	32.61332209	-103.50681155	295.1 ft	287.7°	67.6°	n.d.
n. 5	32.61251385	-103.50673223	---	175.3°	---	n.d.

2. Topographical Map with affected area overlay:





3. Map of Area with Wells Designated:



#### 4. OSE Water Data:



### New Mexico Office of the State Engineer Water Column/Average Depth to Water

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

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

(quarters are 1-NW 2-NE 3-SW 4-SE)  
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	Sub-basin	County	Q Q Q	64	16	4	Sec	Tws	Range	X	Y	DepthWell	DepthWater	Water Column
<u>L 04157</u>		L	LE	3	3	06	20S	35E			640483	3607561*	70	64	6
<u>L 14097 POD1</u>		L	LE	1	3	06	20S	35E			638740	3718500	61	0	61

Average Depth to Water: 32 feet

Minimum Depth: 0 feet

Maximum Depth: 64 feet

Record Count: 2

PLSS Search:

Section(s): 6

Township: 20S

Range: 35E

\*UTM location was derived from PLSS - see Help

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

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WATER COLUMN/ AVERAGE DEPTH TO WATER

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### New Mexico Office of the State Engineer Water Column/Average Depth to Water

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(NAD83 UTM in meters)

(In feet)

POD Number	Code	Sub-basin	County	Q Q Q	64	16	4	Sec	Tws	Range	X	Y	DepthWell	DepthWater	Water Column
<u>CP 00683 POD1</u>		CP	LE	3	3	4	25	19S	34E		639530	3610685*	120	28	92
<u>CP 01672 POD1</u>		CP	LE	1	3	1	36	19S	34E		638736	3610009	100		

Average Depth to Water: 28 feet

Minimum Depth: 28 feet

Maximum Depth: 28 feet

Record Count: 2

PLSS Search:

Section(s): 26, 25, 35, 36

Township: 19S

Range: 34E

\*UTM location was derived from PLSS - see Help

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WATER COLUMN/ AVERAGE DEPTH TO WATER



## New Mexico Office of the State Engineer Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

**PLSS Search:**

Section(s): 30, 31      Township: 19S      Range: 35E

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

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WATER COLUMN/ AVERAGE  
DEPTH TO WATER

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## New Mexico Office of the State Engineer Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

**PLSS Search:**

Section(s): 1, 2      Township: 20S      Range: 34E

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

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WATER COLUMN/ AVERAGE  
DEPTH TO WATER



5. C-141

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

Form C-141  
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**

☒ Initial Report ☐ Final Report

Name of Company	Tandem Energy Corp	Contact	Tony Tucker
Address	1494 Blue Stem Loco Hills NM	Telephone No.	575-703-8283
Facility Name	Pure State Gathering Facility	Facility Type	Gathering Facility
Surface Owner	State of New Mexico	Mineral Owner	State of New Mexico
		API No.	30-025-20098

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	36	19S	34E	660	South	330	East	Lea

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ NAD83

**NATURE OF RELEASE**

Type of Release	Oil & Water	Volume of Release	318 BO 58 BW	Volume Recovered	0
Source of Release	Storage Tanks	Date and Hour of Occurrence	10:30 AM 10-20-2017	Date and Hour of Discovery	12:00AM 10-20-17
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required				
By Whom?	Matamor Vol Fire Dept. Tandem Rep Tony Tucker	If YES, To Whom?	Olivia Yu ES NMOCD		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
If a Watercourse was Impacted, Describe Fully.*					

Describe Cause of Problem and Remedial Action Taken.\* It appears as though either the Gun Barrel, Water Tank or Oil Tank was hit by a lightening strike the explosion that followed ignited the remainder of tanks and seperators at the facility. The fire that ensued appears to have consumed all of the hydrocarbons released from the tanks. Therefore Tandem was unable to recover any fluids.

Describe Area Affected and Cleanup Action Taken.\*  
Impacted area: Pasture Facility Location & Road. No action taken as of completion of this written notification.  
Detailed map and delineation plan to follow.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

		<b>OIL CONSERVATION DIVISION</b>	
Signature:	Approved by Environmental Specialist:		
Printed Name:			
Title:	Approval Date:	Expiration Date:	
E-mail Address:	Conditions of Approval:		Attached <input type="checkbox"/>
Date:	Phone:		

\* Attach Additional Sheets If Necessary