

CO2%	93.60%
HC%	6.41%
Flare Volume	101 mscfd
HC Volume	6.46905 mscfd
CO2 Volume	94.53095 mscfd



## **Executive Summary**

The flaring event was caused by the sudden, unavoidable breakdown of equipment or process that was beyond the owner/operator's control and did not stem from activity that could have been foreseen or avoided, and could not have been avoided by good design, operation, and maintenance practices. The flaring event was caused by the 4500 compressor going down on motor starter feedback.

## Scaled Site Map



Received by OCD: 2/14/2025 10:30:58 AM

**North Hobbs WTB**

OCD Facility ID: fAPP2126544726

32.7188541, -103.1995391

Google Earth

Released to Imaging: 2/18/2025 2:14:48 PM

Image © 2024 Airbus

800 ft





## Soil Characteristics

## Lea County, New Mexico

### KO—Kimbrough gravelly loam, dry, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 2tw43

*Elevation:* 2,500 to 4,800 feet

*Mean annual precipitation:* 14 to 16 inches

*Mean annual air temperature:* 57 to 63 degrees F

*Frost-free period:* 180 to 220 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Kimbrough, dry, and similar soils:* 80 percent

*Minor components:* 20 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Kimbrough, Dry

##### Setting

*Landform:* Playa rims, plains

*Down-slope shape:* Convex, linear

*Across-slope shape:* Concave, linear

*Parent material:* Loamy eolian deposits derived from sedimentary rock

##### Typical profile

*A - 0 to 3 inches:* gravelly loam

*Bw - 3 to 10 inches:* loam

*Bkkm1 - 10 to 16 inches:* cemented material

*Bkkm2 - 16 to 80 inches:* cemented material

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* 4 to 18 inches to petrocalcic

*Drainage class:* Well drained

*Runoff class:* Very high

*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.01 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 95 percent

*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 1.0

*Available water supply, 0 to 60 inches:* Very low (about 1.4 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7s



Map Unit Description: Kimbrough gravelly loam, dry, 0 to 3 percent slopes---Lea County, New Mexico

NH WIB.1

*Hydrologic Soil Group:* D  
*Ecological site:* R077DY049TX - Very Shallow 12-17" PZ  
*Hydric soil rating:* No

### Minor Components

#### Eunice

*Percent of map unit:* 10 percent  
*Landform:* Plains  
*Down-slope shape:* Linear  
*Across-slope shape:* Convex  
*Ecological site:* R077DY049TX - Very Shallow 12-17" PZ  
*Hydric soil rating:* No

#### Spraberry

*Percent of map unit:* 6 percent  
*Landform:* Playa rims, plains  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Linear  
*Ecological site:* R077DY049TX - Very Shallow 12-17" PZ  
*Hydric soil rating:* No

#### Kenhill

*Percent of map unit:* 4 percent  
*Landform:* Plains  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Ecological site:* R077DY038TX - Clay Loam 12-17" PZ  
*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Lea County, New Mexico  
Survey Area Data: Version 21, Sep 3, 2024

Map Unit Description: Kimbrough-Lea complex, dry, 0 to 3 percent slopes---Lea County, New Mexico

NH WIB.2

## Lea County, New Mexico

### KU—Kimbrough-Lea complex, dry, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 2tw46

*Elevation:* 2,500 to 4,800 feet

*Mean annual precipitation:* 14 to 16 inches

*Mean annual air temperature:* 57 to 63 degrees F

*Frost-free period:* 180 to 220 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Kimbrough and similar soils:* 45 percent

*Lea and similar soils:* 25 percent

*Minor components:* 30 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Kimbrough

##### Setting

*Landform:* Playa rims, plains

*Down-slope shape:* Convex, linear

*Across-slope shape:* Concave, linear

*Parent material:* Loamy eolian deposits derived from sedimentary rock

##### Typical profile

*A - 0 to 3 inches:* gravelly loam

*Bw - 3 to 10 inches:* loam

*Bkkm1 - 10 to 16 inches:* cemented material

*Bkkm2 - 16 to 80 inches:* cemented material

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* 4 to 18 inches to petrocalcic

*Drainage class:* Well drained

*Runoff class:* Very high

*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.01 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 95 percent

*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 1.0

*Available water supply, 0 to 60 inches:* Very low (about 1.4 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified



Map Unit Description: Kimbrough-Lea complex, dry, 0 to 3 percent slopes---Lea County, New Mexico

NH WIB.2

*Land capability classification (nonirrigated): 7s*  
*Hydrologic Soil Group: D*  
*Ecological site: R077DY049TX - Very Shallow 12-17" PZ*  
*Hydric soil rating: No*

## Description of Lea

### Setting

*Landform: Plains*  
*Down-slope shape: Convex*  
*Across-slope shape: Linear*  
*Parent material: Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age over indurated caliche of pliocene age*

### Typical profile

*A - 0 to 10 inches: loam*  
*Bk - 10 to 18 inches: loam*  
*Bkk - 18 to 26 inches: gravelly fine sandy loam*  
*BkkM - 26 to 80 inches: cemented material*

### Properties and qualities

*Slope: 0 to 3 percent*  
*Depth to restrictive feature: 22 to 30 inches to petrocalcic*  
*Drainage class: Well drained*  
*Runoff class: High*  
*Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)*  
*Depth to water table: More than 80 inches*  
*Frequency of flooding: None*  
*Frequency of ponding: None*  
*Calcium carbonate, maximum content: 90 percent*  
*Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)*  
*Sodium adsorption ratio, maximum: 3.0*  
*Available water supply, 0 to 60 inches: Very low (about 2.9 inches)*

### Interpretive groups

*Land capability classification (irrigated): None specified*  
*Land capability classification (nonirrigated): 7s*  
*Hydrologic Soil Group: D*  
*Ecological site: R077DY047TX - Sandy Loam 12-17" PZ*  
*Hydric soil rating: No*

## Minor Components

### Douro

*Percent of map unit: 12 percent*  
*Landform: Plains*  
*Down-slope shape: Linear*  
*Across-slope shape: Linear*  
*Ecological site: R077DY047TX - Sandy Loam 12-17" PZ*  
*Other vegetative classification: Unnamed (G077DH000TX)*  
*Hydric soil rating: No*

Map Unit Description: Kimbrough-Lea complex, dry, 0 to 3 percent slopes---Lea County, New Mexico

NH WIB.2

**Kenhill**

*Percent of map unit:* 12 percent

*Landform:* Plains

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Ecological site:* R077DY038TX - Clay Loam 12-17" PZ

*Hydric soil rating:* No

**Spraberry**

*Percent of map unit:* 6 percent

*Landform:* Playa rims, plains

*Down-slope shape:* Convex, linear

*Across-slope shape:* Linear

*Ecological site:* R077DY049TX - Very Shallow 12-17" PZ

*Other vegetative classification:* Unnamed (G077DH000TX)

*Hydric soil rating:* No

## Data Source Information

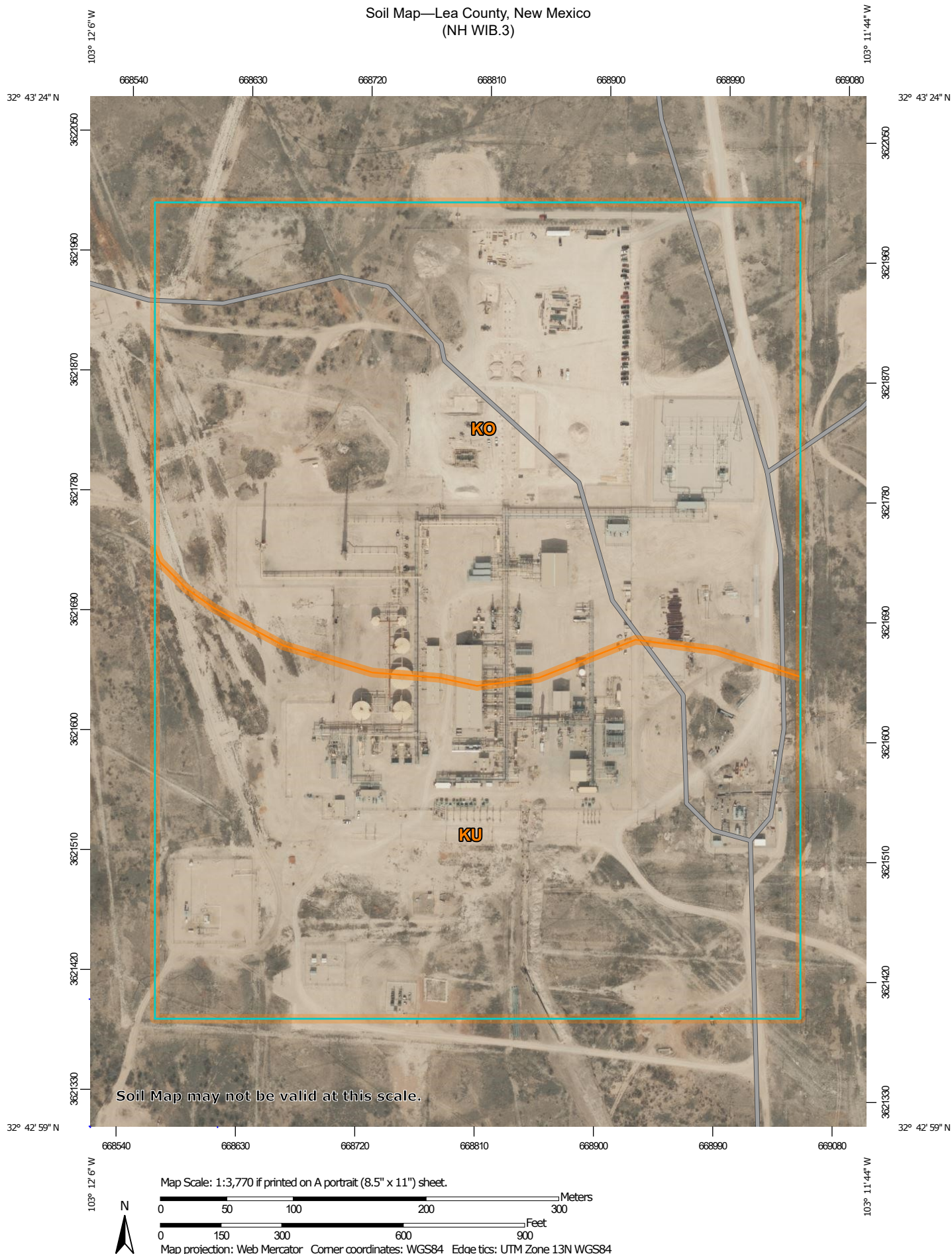
Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 21, Sep 3, 2024





Soil Map—Lea County, New Mexico  
(NH WIB.3)



Natural Resources  
Conservation Service

Web Soil Survey  
National Cooperative Soil Survey

12/9/2024  
Page 1 of 3

Soil Map—Lea County, New Mexico  
(NH WIB.3)

## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

### Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

### Water Features



Streams and Canals

### Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

### Background



Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 21, Sep 3, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



Natural Resources  
Conservation Service

Web Soil Survey  
National Cooperative Soil Survey

12/9/2024  
Page 2 of 3



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KO	Kimbrough gravelly loam, dry, 0 to 3 percent slopes	40.8	55.2%
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	33.2	44.8%
Totals for Area of Interest		74.0	100.0%

# Water Course Map

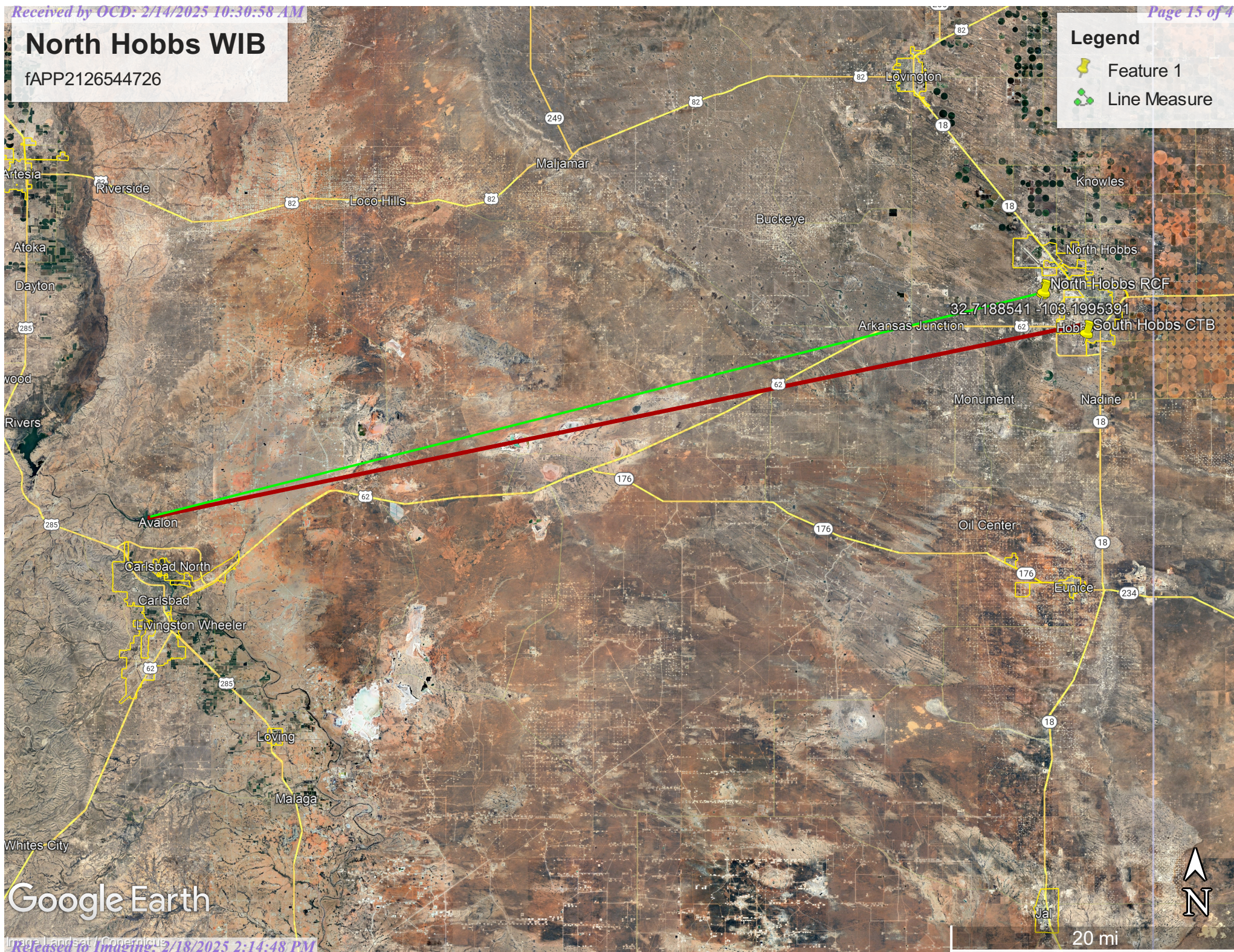


# North Hobbs WIB

fAPP2126544726

## Legend

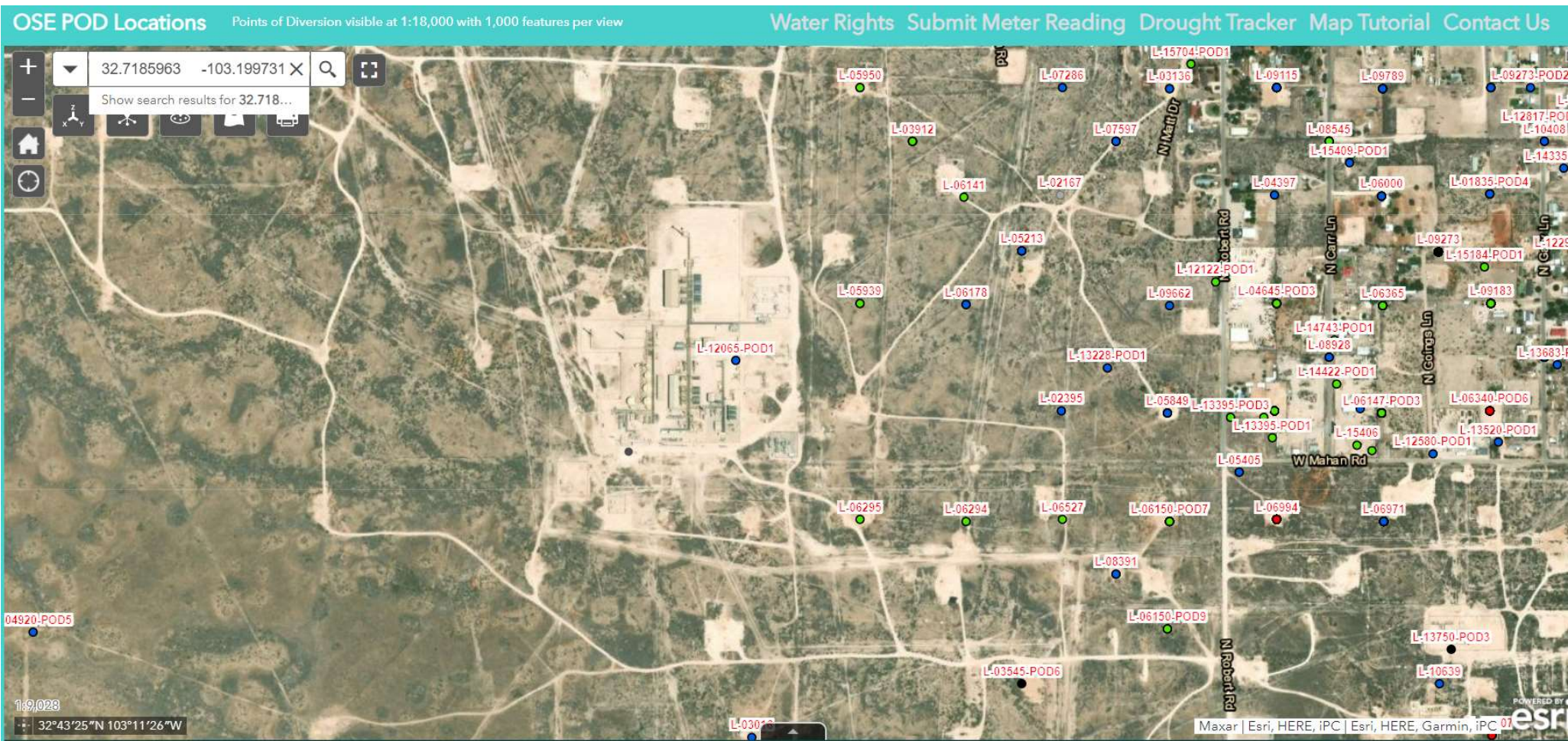
- Feature 1
- Line Measure



Google Earth



## Depth to Groundwater







## 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 smallest to largest)

(In feet)






























POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Well Depth	Depth Water	Water Column
<a href="#">L 00422 POD3</a>		L	LE	NE	NE	SE	25	18S	38E	678592.0	3621566.0 *		150	101	49
<a href="#">L 01810 POD1</a>		L	LE		SW	NE	25	18S	38E	678083.0	3621862.0 *		102	75	27
<a href="#">L 02309</a>		L	LE				25	18S	38E	677897.0	3621645.0 *		100	70	30
<a href="#">L 02345</a>		L	LE		SW	SE	25	18S	38E	678098.0	3621057.0 *		124	64	60
<a href="#">L 02431</a>		L	LE		SW	NE	25	18S	38E	678083.0	3621862.0 *		110	55	55
<a href="#">L 02886</a>		L	LE	SE	SW	SE	25	18S	38E	678197.0	3620956.0 *		100	62	38
<a href="#">L 02950</a>		L	LE		NE	SE	25	18S	38E	678493.0	3621467.0 *		122	78	44
<a href="#">L 03439</a>		L	LE	NE	SE	SE	25	18S	38E	678599.0	3621163.0 *		130	56	74
<a href="#">L 03662</a>		L	LE	SE	NW	SE	25	18S	38E	678190.0	3621359.0 *		118	60	58
<a href="#">L 03899</a>		L	LE	NE	SW	NE	25	18S	38E	678182.0	3621961.0 *		130	75	55
<a href="#">L 04299</a>		L	LE	NW	SE	SE	25	18S	38E	678399.0	3621163.0 *		140	100	40
<a href="#">L 04299</a>	R	L	LE	NW	SE	SE	25	18S	38E	678399.0	3621163.0 *		140	100	40
<a href="#">L 04299 POD3</a>		L	LE	NE	SW	SE	25	18S	38E	678197.0	3621156.0 *		135	70	65
<a href="#">L 04759</a>		L	LE	NE	SE	SE	25	18S	38E	678599.0	3621163.0 *		122	50	72
<a href="#">L 06438</a>		L	LE	SE	SE	SE	25	18S	38E	678599.0	3620963.0 *		115	85	30
<a href="#">L 06744</a>		L	LE	SW	SE	SE	25	18S	38E	678399.0	3620963.0 *		115	72	43
<a href="#">L 06829</a>		L	LE	SE	SE	NW	25	18S	38E	677780.0	3621754.0 *		124	96	28
<a href="#">L 07120</a>		L	LE		NW	SW	25	18S	38E	677286.0	3621445.0 *		150	74	76
<a href="#">L 07488</a>	R	L	LE			NE	25	18S	38E	678284.0	3622063.0 *		130		
<a href="#">L 07488 POD2</a>		L	LE			NE	25	18S	38E	678284.0	3622063.0 *		156	104	52
<a href="#">L 07504</a>		L	LE	NE	SW	SE	25	18S	38E	678197.0	3621156.0 *		125	85	40
<a href="#">L 07599</a>		L	LE		SE	SE	25	18S	38E	678500.0	3621064.0 *		130	80	50
<a href="#">L 07726</a>		L	LE	SW	NE	SE	25	18S	38E	678392.0	3621366.0 *		130	82	48
<a href="#">L 07850</a>		L	LE	NW	SW	SE	25	18S	38E	677997.0	3621156.0 *		150	80	70
<a href="#">L 07853</a>		L	LE	NE	SW	NE	25	18S	38E	678182.0	3621961.0 *		185	95	90
<a href="#">L 07876</a>		L	LE		SE	SE	25	18S	38E	678500.0	3621064.0 *		160	80	80

(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 smallest  
to largest)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Well Depth	Depth Water	Water Column
<a href="#">L 07938</a>	R	L	LE	NW	SW	SE	25	18S	38E	677997.0	3621156.0 *		135	85	50
<a href="#">L 07938 POD2</a>		L	LE	NW	SW	SE	25	18S	38E	678113.6	3621301.7		210		
<a href="#">L 08145</a>	R	L	LE	NE	NW	NE	25	18S	38E	678175.0	3622364.0 *		150	82	68
<a href="#">L 08145 POD2</a>		L	LE		NW	NE	25	18S	38E	678076.0	3622265.0 *		240	120	120
<a href="#">L 08262</a>		L	LE		SW	SE	25	18S	38E	678098.0	3621057.0 *		130	98	32
<a href="#">L 08285</a>		L	LE		NW	SE	25	18S	38E	678091.0	3621460.0 *		150	90	60
<a href="#">L 08413</a>		L	LE		NW	SW	25	18S	38E	677286.0	3621445.0 *		130	78	52
<a href="#">L 08443</a>		L	LE		SW	NE	25	18S	38E	678083.0	3621862.0 *		130	84	46
<a href="#">L 08496</a>		L	LE		SW	SE	25	18S	38E	678098.0	3621057.0 *		150	72	78
<a href="#">L 08685</a>		L	LE	SW	NW	SE	25	18S	38E	677990.0	3621359.0 *		135	70	65
<a href="#">L 08686</a>		L	LE	SW	NW	SE	25	18S	38E	677990.0	3621359.0 *		130	100	30
<a href="#">L 08710</a>		L	LE		NW	SE	25	18S	38E	678091.0	3621460.0 *		130	68	62
<a href="#">L 08757</a>		L	LE			SW	25	18S	38E	677495.0	3621243.0 *		130	82	48
<a href="#">L 08777</a>		L	LE		NW	SE	25	18S	38E	678091.0	3621460.0 *		130	96	34
<a href="#">L 08779</a>		L	LE		NW	SE	25	18S	38E	678091.0	3621460.0 *		130	82	48
<a href="#">L 08805</a>		L	LE	SW	NW	SE	25	18S	38E	677990.0	3621359.0 *		150	97	53
<a href="#">L 08807</a>		L	LE	SE	NW	SE	25	18S	38E	678190.0	3621359.0 *		130	95	35
<a href="#">L 08826</a>		L	LE	SW	NW	SE	25	18S	38E	677990.0	3621359.0 *		150	97	53
<a href="#">L 08843</a>		L	LE		NW	SE	25	18S	38E	678091.0	3621460.0 *		130	82	48
<a href="#">L 08863</a>		L	LE		SW	NE	25	18S	38E	678083.0	3621862.0 *		150	92	58
<a href="#">L 08891</a>		L	LE		NW	SE	25	18S	38E	678091.0	3621460.0 *		135	60	75
<a href="#">L 08900</a>		L	LE		NW	SE	25	18S	38E	678091.0	3621460.0 *		140	82	58
<a href="#">L 08917</a>		L	LE	NW	SW	SE	25	18S	38E	677997.0	3621156.0 *		150	82	68
<a href="#">L 08939</a>		L	LE	SE	NW	SE	25	18S	38E	678190.0	3621359.0 *		130	95	35
<a href="#">L 08953</a>		L	LE		NW	SE	25	18S	38E	678091.0	3621460.0 *		150	80	70
<a href="#">L 08970</a>		L	LE		NW	NE	25	18S	38E	678076.0	3622265.0 *		160	108	52
<a href="#">L 09695</a>		L	LE		SE	SE	25	18S	38E	678500.0	3621064.0 *		150	94	56
<a href="#">L 09731</a>		L	LE		NW	SE	25	18S	38E	678091.0	3621460.0 *		160	97	63
<a href="#">L 09903</a>		L	LE	SE	NW	SE	25	18S	38E	678190.0	3621359.0 *		157	135	22



(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 smallest  
to largest)

(in feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Well Map	Depth	Water	Column
<a href="#">L 09927</a>		L	LE		SW	NE	25	18S	38E	678083.0	3621862.0 *	150	92	58	
<a href="#">L 10168</a>		L	LE	SE	SE	SE	25	18S	38E	678599.0	3620963.0 *	190	100	90	
<a href="#">L 10219</a>	R	L	LE	SE	NW	SE	25	18S	38E	678190.0	3621359.0 *	173	70	103	
<a href="#">L 10219 POD2</a>		L	LE	SE	NW	SE	25	18S	38E	678232.6	3621319.2	267	160	107	
<a href="#">L 10239</a>		L	LE	SW	NW	SE	25	18S	38E	677990.0	3621359.0 *	168	79	89	
<a href="#">L 10240</a>	R	L	LE	SW	NW	SE	25	18S	38E	677990.0	3621359.0 *	120	90	30	
<a href="#">L 10240 POD2</a>		L	LE	SW	NW	SE	25	18S	38E	678121.5	3621301.8	215			
<a href="#">L 10253</a>	R	L	LE	SE	NE	SE	25	18S	38E	678592.0	3621366.0 *	180	99	81	
<a href="#">L 10253 POD2</a>		L	LE	SE	NE	SE	25	18S	38E	678513.7	3621358.2	243	135	108	
<a href="#">L 10257</a>	R	L	LE	SE	SW	SE	25	18S	38E	678260.1	3620937.1	162	90	72	
<a href="#">L 10257 POD2</a>		L	LE	SE	SW	SE	25	18S	38E	678260.1	3620937.1	282	165	117	
<a href="#">L 10260</a>		L	LE	SE	NE	SE	25	18S	38E	678592.0	3621366.0 *	160	90	70	
<a href="#">L 10261</a>	R	L	LE	SE	NW	SE	25	18S	38E	678190.0	3621359.0 *	160	90	70	
<a href="#">L 10262</a>		L	LE	SW	NW	SE	25	18S	38E	677990.0	3621359.0 *	160	90	70	
<a href="#">L 10263</a>		L	LE	SE	SW	SE	25	18S	38E	678197.0	3620956.0 *	155	65	90	
<a href="#">L 10264 POD2</a>		L	LE		SE	SE	25	18S	38E	678500.0	3621064.0 *	170	118	52	
<a href="#">L 10268</a>		L	LE	NE	SE	SE	25	18S	38E	678599.0	3621163.0 *	160	90	70	
<a href="#">L 10269</a>	R	L	LE	NE	SE	SE	25	18S	38E	678599.0	3621163.0 *	160	90	70	
<a href="#">L 10274</a>		L	LE	SW	NW	SE	25	18S	38E	677990.0	3621359.0 *	160	90	70	
<a href="#">L 10275</a>	R	L	LE	SE	NW	SE	25	18S	38E	678190.0	3621359.0	160	90	70	
<a href="#">L 10275 POD2</a>		L	LE	SE	NW	SE	25	18S	38E	678274.3	3621374.2	265	160	105	
<a href="#">L 10292</a>		L	LE	SW	NW	SE	25	18S	38E	677990.0	3621359.0 *	160	90	70	
<a href="#">L 10366</a>		L	LE		NE	SW	25	18S	38E	677689.0	3621452.0 *	168	70	98	
<a href="#">L 10422</a>		L	LE			SE	25	18S	38E	678299.0	3621258.0 *	215	90	125	
<a href="#">L 10429</a>		L	LE		NW	SE	25	18S	38E	678091.0	3621460.0 *	146	89	57	
<a href="#">L 10600</a>		L	LE			SE	25	18S	38E	678299.0	3621258.0 *	158	75	83	
<a href="#">L 10682</a>	R	L	LE			SE	25	18S	38E	678299.0	3621258.0 *	160			
<a href="#">L 10682 POD2</a>		L	LE	NE	SW	SE	25	18S	38E	678260.8	3621242.1	245	162	83	
<a href="#">L 10683</a>	R	L	LE			SE	25	18S	38E	678299.0	3621258.0 *	170	105	65	

(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 smallest  
to largest)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Well Depth	Depth Water	Water Column
<a href="#">L 10836</a>		L	LE		SW	SE	25	18S	38E	678098.0	3621057.0 *		202	98	104
<a href="#">L 10857</a>		L	LE	SW	NE	SE	25	18S	38E	678336.5	3621367.3		285	170	115
<a href="#">L 10863</a>		L	LE			SE	25	18S	38E	678299.0	3621258.0 *		200	110	90
<a href="#">L 10944</a>		L	LE		SW	SE	25	18S	38E	678098.0	3621057.0 *		176		
<a href="#">L 10950</a>		L	LE		SW	NE	25	18S	38E	678083.0	3621862.0 *		200	114	86
<a href="#">L 11083</a>		L	LE		SW	SE	25	18S	38E	678098.0	3621057.0 *		200	87	113
<a href="#">L 11275</a>		L	LE		NW	NE	25	18S	38E	678076.0	3622265.0 *		240	120	120
<a href="#">L 11304</a>		L	LE		NW	SE	25	18S	38E	678091.0	3621460.0 *		200		
<a href="#">L 11318</a>		L	LE	SE	SE	SE	25	18S	38E	678599.0	3620963.0 *		145	102	43
<a href="#">L 11324</a>		L	LE	NW	SE	SE	25	18S	38E	678399.0	3621163.0 *		160	110	50
<a href="#">L 11654</a>		L	LE	NE	SE	SE	25	18S	38E	678599.0	3621163.0 *		215		
<a href="#">L 11846</a>		L	LE	SE	NW	SE	25	18S	38E	678190.0	3621359.0 *		175	122	53
<a href="#">L 11923 POD1</a>		L	LE	NE	NW	NW	25	18S	38E	677371.0	3622349.0 *		231		
<a href="#">L 12025 POD1</a>		L	LE	SE	NW	SE	25	18S	38E	678198.2	3621377.2		273		
<a href="#">L 12035 POD1</a>		L	LE	SE	SE	SW	25	18S	38E	677840.8	3620961.6		214		
<a href="#">L 12037 POD1</a>		L	LE	SW	NW	SE	25	18S	38E	677919.5	3621378.3		235		
<a href="#">L 12067 POD1</a>		L	LE	SW	NW	SE	25	18S	38E	678074.4	3621310.2		235		
<a href="#">L 12172 POD1</a>		L	LE	SW	NE	SE	25	18S	38E	678311.5	3621308.3		235		
<a href="#">L 12195 POD1</a>		L	LE	NE	NW	SE	25	18S	38E	678136.2	3621644.1		235		
<a href="#">L 12444 POD1</a>		L	LE	NE	NW	SE	25	18S	38E	678149.2	3621641.3		280	200	80
<a href="#">L 12590 POD1</a>		L	LE	NW	NE	SW	25	18S	38E	677531.8	3621651.8		215		
<a href="#">L 12723 POD1</a>		L	LE	SW	NW	SE	25	18S	38E	678080.4	3621415.1		235		
<a href="#">L 12860 POD1</a>		L	LE	SE	NE	SE	25	18S	38E	678563.9	3621376.0		208		
<a href="#">L 12863 POD1</a>		L	LE	NE	SE	NW	25	18S	38E	677714.8	3621904.6		250		
<a href="#">L 13134 POD1</a>		L	LE	NW	NE	NE	25	18S	38E	678373.8	3622477.2		275		
<a href="#">L 13241 POD1</a>		L	LE	NW	NW	SE	25	18S	38E	677964.5	3621628.7		240		
<a href="#">L 13368 POD1</a>		L	LE	NW	NW	SE	25	18S	38E	678034.9	3621626.9		235	163	72
<a href="#">L 13388 POD1</a>		L	LE	SW	NW	NE	25	18S	38E	678013.0	3622267.3		270		
<a href="#">L 13444 POD1</a>		L	LE	SW	NW	SE	25	18S	38E	678067.9	3621381.0		275	142	133
















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C=the file is  
closed)

(quarters are smallest  
to largest)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Well Map	Depth	Water	Water Column
<a href="#">L 13454 POD1</a>		L	LE	SE	SW	NE	25	18S	38E	678136.4	3621700.8		264	171	93
<a href="#">L 13461 POD1</a>		L	LE	SW	NW	SE	25	18S	38E	678031.7	3621371.1		235		
<a href="#">L 13498 POD1</a>		L	LE	SE	NW	SE	25	18S	38E	678114.0	3621280.1		301	150	151
<a href="#">L 13579 POD1</a>		L	LE	SE	SE	SE	25	18S	38E	678582.3	3621020.5		236	140	96
<a href="#">L 13603 POD1</a>		L	LE	SW	SW	SE	25	18S	38E	677926.9	3620965.6		282		
<a href="#">L 13743 POD1</a>		L	LE	SW	NE	SE	25	18S	38E	678478.1	3621311.3		272	140	132
<a href="#">L 13812 POD1</a>		L	LE	NW	NW	SE	25	18S	38E	678013.2	3621531.0		264	127	137
<a href="#">L 13924 POD1</a>		L	LE	NE	SE	SE	25	18S	38E	678582.5	3621153.0		292	184	108
<a href="#">L 14065 POD1</a>		L	LE	NE	SW	SE	25	18S	38E	678139.5	3621064.0		241	100	141
<a href="#">L 14921 POD1</a>		L	LE	SW	NW	SE	25	18S	38E	678070.0	3621428.8		235	120	115
<a href="#">L 14965 POD1</a>		L	LE	NE	NW	SE	25	18S	38E	678164.7	3621474.5		300	155	145
<a href="#">L 14966 POD1</a>		L	LE	SW	NW	SE	25	18S	38E	677992.1	3621309.1		300		
<a href="#">L 15642 POD1</a>		L	LE	NW	NW	SE	25	18S	38E	678043.4	3621442.2		213	132	81

Average Depth to Water: 99 feet

Minimum Depth: 50 feet

**Record Count:** 126

**Basin/County Search:**

**County:** LE

**PLSS Search:**

**Range:** 38E

**Township:** 18S

**Section:** 25

\* 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.





**PANTECHS LABORATORIES, INC.**

*Leaders in Petroleum Analytical Services*  
*www.pantechs.com*

# Analytical Report

2/10/2023

<b>Customer:</b>	Occidental Permian Ltd.	<b>Order:</b>	503-4218
<b>Location:</b>	North Hobbs Unit	<b>Received:</b>	2/9/2023
<b>Description:</b>	Samples from Central Tank, North, and West Batteries for Hydrocarbon Analyses	<b>Primary Contact:</b>	Chris Poe

**REPORT DISTRIBUTION:**

Chris Poe , Richard Sanders

All data reported in this Analytical Report is in compliance with the test method(s) performed as of the date noted above. The validity and integrity of this report will remain intact as long as it is accompanied by this page and reproduced in full. Any datafile (e.g. txt, csv, etc.) produced which is associated with the results in this report shall be considered for convenience only and does not supersede this report as the official test results. We reserve the right to return to you any unused samples received if we consider so necessary (e.g. samples identified as hazardous waste).

We appreciate you choosing Pantechs Laboratories. If you have any questions concerning this report, please feel free to contact us at any time.

**Pantechs Laboratories, Inc.****Order: 503-4218 Order Date: 2/9/2023****Order Description: North Hobbs Unit, Samples from Central Tank, North, and West Batteries for Hydrocarbon Analyses****Sample List**

Fluid	Operator	Location	Site	Sample Point	Date	Time
Gas	Occidental Permian Ltd.	North Hobbs Unit	Central Tank Battery	Gas Leg of Production Separator	2/9/2023	3:41 PM
Gas	Occidental Permian Ltd.	North Hobbs Unit	North Injection Battery	Gas Leg of Production Separator	2/9/2023	3:31 PM
Gas	Occidental Permian Ltd.	North Hobbs Unit	West Injection Battery	Gas Leg of Production Separator	2/9/2023	4:04 PM
Gas	Occidental Permian Ltd.	South Hobbs Unit	Central Tank Battery	Gas Leg of Production Separator	2/9/2023	3:11 PM

**No Sample List**

Operator	Location	Site	Sample Point	Comment
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Pantechs Laboratories, Inc. - Order: 503-4218 - Order Date: 2/9/2023

Order Description: North Hobbs Unit, Samples from Central Tank, North, and West Batteries for Hydrocarbon Analyses

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	Pressure	26 psig
Location	North Hobbs Unit	Sample Temp	N/A
Site	Central Tank Battery	Atm Temp	45 F
Site Type	Battery	Collection Date	02/09/2023
Sample Point	Gas Leg of Production Separator	Collection Time	3:41 PM
Spot/Comp	Spot	Collection By	Cody Carson
Meter ID		Pressure Base	14.650 psi
Purchaser		Temperature Base	60 F
Fluid	Gas	Container(s)	PL2344

## GPA 2261 Gas Fractional Analysis with Water Vapor

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.056	0.033	0.006
CARBON DIOXIDE	CO2	80.489	74.605	13.780
HYDROGEN SULFIDE	H2S	1.281	0.919	0.173
WATER VAPOR	H2O	0.555	0.211	0.032
METHANE	C1	0.484	0.164	0.082
ETHANE	C2	0.391	0.248	0.105
PROPANE	C3	2.653	2.464	0.734
I-BUTANE	iC4	1.657	2.028	0.545
N-BUTANE	nC4	4.715	5.772	1.493
I-PENTANE	iC5	2.289	3.478	0.842
N-PENTANE	nC5	1.769	2.688	0.644
HEXANES PLUS	C6+	3.661	7.390	1.579
TOTALS:		100.000	100.000	20.015

Value of "0.000" in fractional interpreted as below detectable limit.

If Onsite H2S testing is performed, its resulting value is used in fractional table

## GPA 2172/ASTM D3588 CALCULATED PROPERTIES

WATER CONTENT	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	652.96	1.652	0.990	47.381	508.07
MEASURED WATER	653.42	1.656	0.990	47.481	

## Water Vapor

GPM	PPMM	LBS/MMSCF	SAMPLE SATURATED
0.032	5,550.000	264.286	No

## Onsite Testing by Stain Tube

METHOD	TYPE	MEAS VALUE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	1.20 vol%	1.2810	813.46	12,934.0

Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.





Pantechs Laboratories, Inc. Order: 503-4218 - Order Date: 2/9/2023

**Order Description: North Hobbs Unit, Samples from Central Tank, North, and West Batteries for Hydrocarbon Analyses**

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	Pressure	34 psig
Location	North Hobbs Unit	Sample Temp	N/A
Site	North Injection Battery	Atm Temp	45 F
Site Type	Battery	Collection Date	02/09/2023
Sample Point	Gas Leg of Production Separator	Collection Time	3:31 PM
Spot/Comp	Spot	Collection By	Cody Carson
Meter ID		Pressure Base	14.650 psi
Purchaser		Temperature Base	60 F
Fluid	Gas	Container(s)	PL1003

**GPA 2261 Gas Fractional Analysis with Water Vapor**

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.065	0.041	0.007
CARBON DIOXIDE	CO2	94.461	92.516	16.121
HYDROGEN SULFIDE	H2S	0.214	0.162	0.029
WATER VAPOR	H2O	0.540	0.216	0.031
METHANE	C1	0.083	0.030	0.014
ETHANE	C2	0.132	0.088	0.035
PROPANE	C3	0.839	0.823	0.231
I-BUTANE	iC4	0.397	0.514	0.130
N-BUTANE	nC4	1.096	1.418	0.346
I-PENTANE	iC5	0.452	0.726	0.166
N-PENTANE	nC5	0.388	0.623	0.141
HEXANES PLUS	C6+	1.333	2.843	0.573
TOTALS:		100.000	100.000	17.824

Value of "0.000" in fractional interpreted as below detectable limit.

If Onsite H2S testing is performed, its resulting value is used in fractional table

**GPA 2172/ASTM D3588 CALCULATED PROPERTIES**

WATER CONTENT	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	178.36	1.558	0.993	44.838	142.89
MEASURED WATER	178.67	1.562	0.993	44.935	

**Water Vapor**

GPM	PPMM	LBS/MMSCF	SAMPLE SATURATED
0.031	5,400.000	257.143	No

**Onsite Testing by Stain Tube**

METHOD	TYPE	MEAS VALUE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	0.20 vol%	0.2135	135.58	2,155.7

Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.

Pantechs Laboratories, Inc. Order: 503-4218 - Order Date: 2/9/2023

**Order Description: North Hobbs Unit, Samples from Central Tank, North, and West Batteries for Hydrocarbon Analyses**

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	Pressure	28 psig
Location	North Hobbs Unit	Sample Temp	N/A
Site	West Injection Battery	Atm Temp	40 F
Site Type	Battery	Collection Date	02/09/2023
Sample Point	Gas Leg of Production Separator	Collection Time	4:04 PM
Spot/Comp	Spot	Collection By	Cody Carson
Meter ID		Pressure Base	14.650 psi
Purchaser		Temperature Base	60 F
Fluid	Gas	Container(s)	PL0245

**GPA 2261 Gas Fractional Analysis with Water Vapor**

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.048	0.030	0.005
CARBON DIOXIDE	CO2	93.595	92.306	15.972
HYDROGEN SULFIDE	H2S	1.480	1.130	0.200
WATER VAPOR	H2O	0.511	0.206	0.029
METHANE	C1	0.487	0.175	0.083
ETHANE	C2	0.185	0.125	0.050
PROPANE	C3	0.623	0.616	0.172
I-BUTANE	iC4	0.219	0.285	0.072
N-BUTANE	nC4	0.645	0.840	0.204
I-PENTANE	iC5	0.435	0.703	0.159
N-PENTANE	nC5	0.417	0.674	0.151
HEXANES PLUS	C6+	1.355	2.910	0.582
TOTALS:		100.000	100.000	17.679

Value of "0.000" in fractional interpreted as below detectable limit.

If Onsite H2S testing is performed, its resulting value is used in fractional table

**GPA 2172/ASTM D3588 CALCULATED PROPERTIES**

WATER CONTENT	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	167.09	1.547	0.993	44.533	134.32
MEASURED WATER	167.38	1.551	0.993	44.625	

**Water Vapor**

GPM	PPMM	LBS/MMSCF	SAMPLE SATURATED
0.029	5,110.000	243.333	No

**Onsite Testing by Stain Tube**

METHOD	TYPE	MEAS VALUE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	1.40 vol%	1.4797	939.64	14,940.3

Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.



Pantechs Laboratories, Inc. Order: 503-4218 - Order Date: 2/9/2023

**Order Description: North Hobbs Unit, Samples from Central Tank, North, and West Batteries for Hydrocarbon Analyses**

SAMPLE ID		COLLECTION DATA	
Operator	Occidental Permian Ltd.	Pressure	27 psig
Location	South Hobbs Unit	Sample Temp	N/A
Site	Central Tank Battery	Atm Temp	50 F
Site Type	Battery	Collection Date	02/09/2023
Sample Point	Gas Leg of Production Separator	Collection Time	3:11 PM
Spot/Comp	Spot	Collection By	Cody Carson
Meter ID		Pressure Base	14.650 psi
Purchaser		Temperature Base	60 F
Fluid	Gas	Container(s)	PL2332

**GPA 2261 Gas Fractional Analysis with Water Vapor**

COMPOUND	FORMULA	MOL%	WT%	GPM
NITROGEN	N2	0.056	0.033	0.006
CARBON DIOXIDE	CO2	80.302	74.480	13.748
HYDROGEN SULFIDE	H2S	1.509	1.084	0.204
WATER VAPOR	H2O	0.553	0.210	0.032
METHANE	C1	0.483	0.163	0.082
ETHANE	C2	0.390	0.247	0.105
PROPANE	C3	2.647	2.460	0.733
I-BUTANE	iC4	1.653	2.025	0.543
N-BUTANE	nC4	4.705	5.763	1.490
I-PENTANE	iC5	2.284	3.473	0.840
N-PENTANE	nC5	1.765	2.684	0.642
HEXANES PLUS	C6+	3.653	7.378	1.575
TOTALS:		100.000	100.000	20.000

Value of "0.000" in fractional interpreted as below detectable limit.

If Onsite H2S testing is performed, its resulting value is used in fractional table

**GPA 2172/ASTM D3588 CALCULATED PROPERTIES**

WATER CONTENT	BTU/CF	Specific Gr.	Z Factor	Mol Weight	Wobbe IDX
DRY	653.00	1.651	0.990	47.351	508.26
MEASURED WATER	653.46	1.655	0.990	47.450	

**Water Vapor**

GPM	PPMM	LBS/MMSCF	SAMPLE SATURATED
0.032	5,530.000	263.333	No

**Onsite Testing by Stain Tube**

METHOD	TYPE	MEAS VALUE	MOL%	GRAINS/100	PPMV
GPA2377	H2S	1.40 vol%	1.5093	958.43	15,239.0

Mol%, Grains/100, PPMV are pressure and temperature corrected to base conditions.

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Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 431421

**QUESTIONS**

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 431421
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2504351127
Incident Name	NAPP2504351127 NORTH HOBBS WIB @ 0
Incident Type	Flare
Incident Status	Re-vegetation Report Received
Incident Facility	[fAPP2126544726] NORTH HOBBS UNIT WIB

**Location of Release Source**

Please answer all the questions in this group.

Site Name	North Hobbs WIB
Date Release Discovered	01/24/2025
Surface Owner	Private

**Incident Details**

Please answer all the questions in this group.

Incident Type	Flare
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

**Nature and Volume of Release**

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Equipment Failure   Producing Well   Natural Gas Flared   Released: 6 MCF   Recovered: 0 MCF   Lost: 6 MCF.
Other Released Details	Cause: Equipment Failure   Producing Well   Carbon Dioxide   Released: 95 MCF   Recovered: 0 MCF   Lost: 95 MCF.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.



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

QUESTIONS, Page 2

Action 431421

**QUESTIONS (continued)**

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 431421
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>Yes, according to supplied volumes this appears to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>No</b>
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

**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	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

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.

I hereby agree and sign off to the above statement	Name: Shaina Rojas Title: Specialist Environmental Email: Shaina_rojas@oxy.com Date: 02/12/2025
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QUESTIONS, Page 3

Action 431421

**QUESTIONS (continued)**

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 431421
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

**QUESTIONS**

<b>Site Characterization</b>	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1000 (ft.) and ½ (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Zero feet, overlying, or within area
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1000 (ft.) and ½ (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	0
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	01/24/2025
On what date will (or did) the final sampling or liner inspection occur	01/24/2025
On what date will (or was) the remediation complete(d)	01/24/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 431421

**QUESTIONS (continued)**

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 431421
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	No
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Yes
Other Non-listed Remedial Process. Please specify	This is a CO2 gas release only and no spills occurred.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Shaina Rojas Title: Specialist Environmental Email: Shaina_rojas@oxy.com Date: 02/14/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	



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QUESTIONS, Page 5

Action 431421

QUESTIONS (continued)

Operator:  OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID:  157984
	Action Number:  431421
	Action Type:  [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 431421

**QUESTIONS (continued)**

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 431421
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	431411
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/24/2025
What was the (estimated) number of samples that were to be gathered	0
What was the sampling surface area in square feet	0

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	This was a CO2 gas release only and no liquids spilled to the ground.
<i>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 (in .pdf format) 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.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Shaina Rojas Title: Specialist Environmental Email: Shaina_rojas@oxy.com Date: 02/14/2025

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QUESTIONS, Page 7

Action 431421

**QUESTIONS (continued)**

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 431421
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

**QUESTIONS**

<b>Reclamation Report</b>	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	0
What was the total volume of replacement material (in cubic yards) for this site	0
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseedling commence(d)	01/24/2025
Summarize any additional reclamation activities not included by answers (above)	This is a CO2 gas release and routed to a emergency flare , no liquids spilled to the ground . No reclamation is required
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseedling plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Shaina Rojas Title: Specialist Environmental Email: Shaina_rojas@oxy.com Date: 02/14/2025



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QUESTIONS, Page 8

Action 431421

**QUESTIONS (continued)**

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 431421
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

**QUESTIONS**

<b>Revegetation Report</b>	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	Yes
What was the total revegetation surface area (in square feet) for this site	0
<i>Per Paragraph (2) of Subsection D of 19.15.29.13 NMAC the responsible party must reseed disturbed area in the first favorable growing season following closure of the site.</i>	
On what date did the reseeded commence	01/24/2025
On what date was the vegetative cover inspected	01/24/2025
What was the life form ratio compared to pre-disturbance levels	9999
What was the total percent plant cover compared to pre-disturbance levels	9999
Summarize any additional revegetation activities not included by answers (above)	This is a CO2 gas release and routed to a emergency flare ,No liquids spilled to the ground . No revegetation is required
<i>The responsible party must attach information demonstrating they have complied with all applicable re-vegetation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any life form ratio and percent plant cover sampling diagrams or other relevant field notes, photographs of re-vegetated areas, and a narrative of the re-vegetation activities. Refer to 19.15.29.13 NMAC.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Shaina Rojas Title: Specialist Environmental Email: Shaina_rojas@oxy.com Date: 02/14/2025
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 431421

CONDITIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 431421
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	CO2 Release, Closure Approved	2/18/2025