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### **APPENDIX J**

#### HYDROGEOLOGIC REPORT



# Hydrogeologic Report The Big Still Oil Treatment Facility Lea County, New Mexico



C-137 Surface Waste Management Facility Application

April 2025

Prepared for:



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## Hydrogeologic Report THE BIG STILL OIL TREATMENT FACILITY

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### The Big Still Oil Treatment Facility HYDROGEOLOGIC REPORT NM OCD C-137 Facility Application

#### **CERTIFICATION PAGE**

I, Matthew Earthman, a registered professional geologist, certify that this hydrogeologic report was prepared by me or under my direct supervision, and that the data and facts stated herein are true, correct, and complete to the best of my knowledge

Matthew A. Earthman, P.G.

Professional Geologist License: 8881905-2250 State of Utah Expiration: March 31, 2027



### The Big Still Oil Treatment Facility HYDROGEOLOGIC REPORT NM OCD C-137 Facility Application

#### 1.0 INTRODUCTION

The Moonshine Energy, LLC Big Still Oil Treatment Facility (Facility) is a proposed surface waste treatment facility which will be established and operated in accordance with New Mexico Oil Conservation Division (NM OCD) regulations as outlined and defined in 19.15.36 New Mexico Administrative Code (NMAC). The purpose of the facility will include processing tank bottoms, produced water, or other hydrocarbons from oil and gas operations to separate usable hydrocarbon material for sale and processing. No solid waste, contaminated media, or other hazardous materials will be accepted or processed at the Facility.

#### 1.1 Purpose

This Hydrogeologic Report has been prepared to provide a summary of existing geologic and hydrologic conditions in the area of the proposed facility and provide details on the local subsurface conditions which were determined via a soil boring investigation completed in November, 2024.

#### 1.2 General Information

The proposed Facility will be located near mile marker 37.3 on New Mexico Highway 128, approximately 15 miles west of the City of Jal, New Mexico. The property is located within Township 24 South, Range 34 East, Section 25, and consists of a 5.4± acre parcel leased to Moonshine Energy, LLC. The facility will utilize the entire parcel, and will consist of a fenced, cleared and leveled area with caliche surface cover allowing for access and maneuvering of large trucks and equipment. Three tank batteries will be located on the facility for processing tank bottoms, hydrocarbons, or produced water delivered to the facility. Two tank batteries, located in the west-central portions of the property, will be used for the receipt of waste and for storage of reclaimed hydrocarbons prior to sale. Each of the two batteries will consist of ten (10) 500 barrel (bbl) (21,000 gallon) capacity steel frac tanks, situated within a secondary containment area constructed of 3-foot steel walls lined with a with a 40-mil High Density Polyethylene (HDPE) liner to prevent release of any spilled material. An additional tank battery consisting of four (4) 750 bbl (31,500 gallon) fiberglass tanks situated within secondary containment (also steel walls with a 40-mil HDPE liner) will be located on the southeast portion of the Facility and be utilized to store saltwater until it is removed for disposal. A site map with the proposed facility plan is included as Figure 8.

#### 2.0 REGIONAL GEOLOGY

#### 2.1 Regional Geologic Setting

The proposed Facility is located on the eastern edge of the Delaware Basin, a structural feature and depositional basin that covers over 13,000 square miles in southeastern New Mexico and west Texas (Fichera, et al, 2024). The Delaware basin is contained within the larger Permian Basin. The Delaware basin consists of marine sediments deposited in the Permian Period which were subsequently covered by fluvial river sediments after the retreat of sea level during the Triassic Period. The area was later uplifted



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as part of the Laramide Orogeny and erosion and weathering has shaped the area into the topography currently existing today. The buried marine organisms from the Permian Period, including corals and other organic material, were subjected to heat and pressure after burial and eventually formed the oil and gas deposits which are currently being extracted from the area.

The local surface geology of the area surrounding the proposed Facility was mapped at a 1:250,000 scale by Barnes et al. in 1976, and is now summarized as part of the Geologic Atlas of Texas database. A portion of the geologic map prepared for the area, as sourced from the Geologic Atlas of Texas online GIS database, is included as Figure 2. A west-east geologic cross section of the area prepared by Fichera et al. (2024) is included as Figure 2A., and a north-south geologic cross section of the area prepared by Meyer et al. (2012) is included as Figure 2B.

#### 2.2 Regional Stratigraphy and Geologic Units

A summary of the predominant geological formations found near the project area is included below. The descriptions are organized by the age of the units (youngest to oldest) and are excerpted from Barnes et al. (1976) and Meyer et al. (2012). The thickness indicated in the unit descriptions are estimated and reflect approximate depths of each unit as determined through review of well logs completed by Barnes et al. and Meyer et al.

#### 2.2.1 Cenozoic Units

#### Quaternary Eolian Deposits

The majority of the ground surface in the proposed Facility area is covered by Quaternary windblown sands or other Eolian deposits, and consists of generally fine to medium-grained sands and silts which are red-brown to brown in color. Local intervals of caliche, which is generally lighter in color and more consolidated, are commonly present.

#### **Quaternary Tahoka Formation**

The Tahoka Formation is a lacustrine unit consisting of clay, silt, sand, and gravels. The unit is weakly consolidated, ranges in color from light gray to bluish-gray, and is distinctly to massively bedded.

#### **Tertiary Ogallala Formation**

The Tertiary Ogalla consists of unconsolidated, fluvial sand, silt, clay, and gravel capped by caliche. Sands are fine-to-medium-grained and quartz-rich, red, reddish brown, dusky red, and pink. The unit has an estimated maximum thickness of up to 100 feet in the area.

#### 2.2.2 Mesozoic Units

#### Triassic Chinle Formation

The Triassic Chinle Formation consists of greenish-red micaceous claystone and shales interbedded with thin, fine-grained sandstones. The Chinle has an estimated thickness of up to 300 feet in the project area.

#### Dockum Group

The Dockum Group and Dewey Lake Formations are Triassic to Permian-aged, and commonly uncomfortably underly much younger sediments including Quaternary eolian deposits and the Tertiary Ogallala Formation. The Dockum Group is thought to be generally Triassic in age, and consists of alternating shale, sandstone and siltstone units deposited in terrestrial environments. The Santa Rosa



Sandstone, which occurs relatively continuously through much of eastern and northeastern New Mexico is included in the Dockum Group. The Dewey Lake Formation consists of Permian-aged redbed sandstone, siltstones, and shales deposited in environments similar to the Dockum Group. The units are relatively similar and not mapped separately in the subsurface, and have a combined thickness of approximately 800 to 1,300 feet in some areas. Near the proposed Facility, significant portions of the upper Dockum group have been eroded, and the thickness is expected to be approximately 350 feet (Fichera & Attia, 2022). The Santa Rosa Sandstone, present in the lower portions of the Dockum Group, is an aquifer in southeast New Mexico and western Texas. The top of the Santa Rosa Formation is present at a depth of approximately 200 feet near the Facility (Fichera & Attia, 2022).

#### **Rustler Formation**

The Dockum Group and Dewey Lake Formations are underlain by the Rustler Formation. This unit is Triassic to Permian-aged and consists primarily of carbonaceous limestones, dolomite, and mudstone. The unit contains several gypsiferous layers, and ranges in thickness from 40 to 600 feet (Boghici & Broekhoven, 2001). The Rustler formation is considered a minor aquifer to the south in west Texas (Meyer et al., 2012). Near the facility, the top of the Rustler Formation is present at a depth of approximately 900 feet, as determined from the drilling log of a nearby water supply well.

#### 2.2.2 Paleozoic Units

#### Salado and Castile Formations

The Salado and Castile Formations are Permian-aged units underlying the Rustler formation in the Jal area. Near the Facility, the top of the Salado and Castile Formations is present at a depth of approximately 2,200 feet (Meyer et al., 2012). These units are composed of evaporite deposits with minor fine-grained clastic beds. The Salado Formation consists of thick evaporite salt beds, and is the formation housing the storage area of the Waste Isolation Pilot Plant (WIPP) near Carlsbad. The poor water quality and low hydraulic conductivities of the Salado and Castile Formations limit their use as aquifer units in the area.

The Salado Formation can have thicknesses of up to 2,000 feet and can contain saturated intervals containing highly saline brines (Chaturvedi, 1993). The Castile formation underling the Salado consists of carbonate and sulfate-rich evaporite beds interbedded with salt. The Castile formation has a maximum thickness of 1,500 feet and is subject to karstification (sink hole formation caused by dissolution) in the area. The karstic development allows for some limited water storage in the formation; however, water from the unit is typically high in sulfate and total dissolved solids (Stafford, 2013).

#### Capitan Reef Formation

The Capitan Reef Formation is present below the Salado and Castile Formations in a thin lateral band throughout southeast New Mexico and western Texas. The Capitan Reef is a limestone unit with a thickness up to 2,000 feet formed during the Permian in a shallow-sea environment. The carbonate composition of the reef allows for the development of karst structures, making it a productive aquifer in the region (Uliana, 2001). Near the Facility, the top of the Capitan Reef Formation is present at a depth of approximately 3,300 feet (Meyer et al., 2012).



#### 2.3 Regional Soils

The Proposed Facility is located atop Berino-Cacique loamy fine sands, as mapped by the National Resource Conservation Service (NRCS) Web Soil Survey (Figure 3). The Berino-Cacique association is composed of sandy wind-blown deposits derived from erosion of area sedimentary rocks, likely from the regional Dockum Group. Additional detail on soils observed within the soil boring installed on the property is included in Section 4.2.

#### 2.4 Regional Structure and Seismic Setting

As described in Section 2.1, the proposed facility is located within the far east portions of the Delaware Basin which was formed by subsidence in the region followed by uplift during the Cretaceous Laramide Orogeny, which formed the Rocky Mountains. Deeper basin sediments are relatively continuous (Fichera et al. 2024) and no significant structural deformation or major faults have been mapped within the proposed Facility area.

The proposed facility is located in a Class V seismic area, as measured utilizing the Modified Mercalli Intensity Scale (Figure 4). A class V area indicates relatively stable conditions and predicts that any seismic event (earthquake) occurring in the area in the next 50 years would have moderate strength capable of moving unsecured objects but not capable of causing structural damage. No active Quaternary-aged faults have been identified within 10 miles of the proposed facility; the nearest active fault zones are located in the Guadalupe Mountains over 100 miles to the west-southwest (Figure 4).

Portions of the Delaware Basin, primary west of the project area near Carlsbad, have potential for the formation of sinkholes and karst features as a result of limestone and calcareous units present in the region. However, as illustrated in Figure 5, the proposed Facility is in an area of low karst formation potential.

#### 3.0 REGIONAL HYDROLOGY

#### 3.1 Surface Water Hydrology

Surface water resources near the Facility are managed by the New Mexico Office of the State Engineer (NMOSE) as part of the Southern High Plains Region. Surface water is extremely limited in the region, and communities near the facility, including Eunice and Jal, rely exclusively on groundwater for their pubic water systems. No mapped perennial streams are located in the vicinity of the proposed Facility; the Pecos River located 30 miles to the west near Carlsbad represents the most significant surface water resource in the area.

#### 3.2 Groundwater Hydrology and Area Aquifers

Groundwater in the proposed Facility area is managed by the NMOSE under the Carlsbad underground water basin, which spans an area bounded by the Guadalupe Mountains to the west, Brantley Lake to the north, the City of Jal to the east, and the New Mexico State line to the south. In order to determine commonly utilized aquifer and hydrogeologic conditions in the area, SMA conducted an extensive review of published literature and obtained information on existing water well construction, location, and water quality from the New Mexico Office of the State Engineer (NMOSE) WATERS online database (NMOSE, 2024, see Attachment 4) and the United States Geological Survey (USGS) well database (USGS, 2024).



Information from nearby wells, including depth to water, total depth, and each well's target aquifer is summarized in Table 1. Attachment 4 includes well logs from relevant wells. An aerial photo showing the project site location and surrounding wells on file with the NMOSE is included as Figure 6.

#### 3.2.1 Regional Depth to Groundwater and Flow Direction

A regional framework of the Delaware Basin Aquifer System was prepared and published by Fichera et al. in the New Mexico Bureau of Geology Open File Report 623 (2024). The study indicates that groundwater near the facility is expected at an elevation of approximately 3,150 ft above mean seal level, or a depth of approximately 250 feet bgs. Groundwater flow in the area is to the southeast at a gradient of approximately 25 feet per mile. Figure 7 includes a groundwater potentiometric surface map of the region excerpted from the Fichera et al (2024) study.

#### 3.2.2 Regional Aquifers and Water Quality

#### Ogallala Aquifer

The Ogallala aquifer is the primary source of drinking water for much of eastern New Mexico and Texas in areas north of the proposed Facility. The Ogallala aquifer is contained within unconfined sediments atop Dockum Group redbeds, and generally produces good quality water at production rates upwards of 500 gallons per minute (gpm) in some areas. The Ogallala has been used extensively for irrigation throughout the Midwest for the past 50 years and groundwater elevations have declined significantly in areas of Lea County north of the proposed Facility (Tillery, 2008).

#### Dockum Group Aquifer

Sandy units (namely the Santa Rosa Sandstone) within the Dockum Group are utilized as an aquifer in much of Lea County and southeast New Mexico. Water quality within the formation is highly variable, with qualities ranging from acceptable drinking water (total dissolved solids of less than 1,000 mg/l) to highly saline brines with total dissolved solids in excess of 10,000 mg/L (Bradley and Kalaswad, 2003). Wells within Winkler County, TX south of the proposed facility report relatively good water quality from the Santa Rosa Sandstone, with total dissolved solid concentrations ranging from 200 to 1,400 mg/L (Bradley and Kalaswad, 2003), and several communities in western Texas, including Kermit and Pecos, utilize the Dockum group for municipal sources of water.

Water production and yield within the formation varies significantly, ranging from less than 5 gpm reported in wells near the Facility upwards of 400 gpm in areas in Winkler County, Texas. Areas of higher production are often associated with areas of increased fracturing (Meyers et al. 2012). Recharge to the aquifer is thought to occur through precipitation infiltrating the unit in higher portions of southeastern New Mexico, and it is estimated that the unit contains over 100 million acre-feet of water with total dissolved solid concentrations less than 5,000 mg/L (Bradley and Kalaswad, 2003). The depth to the top of the Santa Rosa Formation in the project area is estimated to be between 150-200 feet below ground surface (Fichera & Attia, 2022).

#### **Rustler Formation Aquifer**

The Rustler Formation has been widely used in western Texas for irrigation and livestock purposes. The unit can be highly productive, with well productions up to 1,000 gallons per minute being reported in areas of Reeves County, Texas in the 1960s. However, more recent production from these wells is typically lower (Boghici & Broekhoven, 2001). Recharge to the aquifer is thought to be from cross-formational



sources, as water within the formation typically has longer residence times. Water quality in the unit is typically poor and brackish, with the majority of water samples collected in southern New Mexico and Texas having total dissolved solid concentrations in excess of 3,000 mg/L (Boghici & Broekhoven, 2001). Given the high salinity, the Rustler is generally not considered a viable aquifer in the area of the Facility.

#### Capitan Reef Aquifer

The Capitan Reef Aquifer is a productive aquifer in the southeastern New Mexico and western Texas region, but has highly variable water quality. The aquifer is thought to contain significant quantities of water, with available water within Winkler, Loving, Ward, Reeves, Crane, and Pecos counties (Texas Water Management Area 3) estimated to be over 4,000 acre-feet per year (Bradley, 2011). Recharge to the Capitan Reef is thought to result from the Pecos River system and from precipitation entering exposures of the formation within the Guadalupe and Glass Mountain ranges. Water quality within the unit is highly variable; areas near recharge sources such as Carlsbad have good water quality, which can be used as a municipal source of water. However, further to the south and east, water quality within the formation is much poorer, with average total dissolved solid concentrations in excess of 3,000 mg/L (Uliana, 2001).

#### 3.2.3 Existing Water Supply Wells

Only one production well was identified within one mile of the proposed facility, registered under NMOSE File No. C-04682 (well location included on Figure 6). The production well was installed in January 2023 and is completed to a depth of 290 feet and utilizes what is assumed to the Santa Rosa Formation within the lower Dockum Group, present at a depth of 157-270 feet below ground surface. The well log indicates that in January 2023, the static water level was at a depth of 165 bgs, and the well reported a production of 3 gpm.

In addition to the supply well, 48 monitoring or exploratory wells were listed in the NMOSE database within one mile of the proposed facility. The majority of the wells are shallow, with depths less than 50 feet, and located at a facility 0.9 miles south of the proposed Facility. One monitoring well located 0.5 miles to the northwest of the proposed Facility listed under NMOSE File C-04737 was installed to a depth of 250 feet bgs in April 2023 and did not encounter any groundwater. Wells are summarized in Table 1, and a copy of relevant NMOSE well logs are included in Attachment 3.

#### 4.0 LOCAL GEOLOGY

#### 4.1 Site Setting

#### 4.1.1 Ecoregion

The proposed Facility is located within the Chihuahuan Desert Grasslands Ecoregion (Griffith et al., 2006) at an elevation of 3,420 feet above sea level. This ecoregion is characterized by fine-textured soils including silts and clays with higher water retention than rockier soils at lower elevations. Annual precipitation within these regions is higher than other Chihuahuan Desert subregions, allowing for establishment of grasslands within elevated basins, plateau tops, and north-facing slopes. Typical grasses within the ecoregion include black, blue, and sideoats grama, dropseeds, bush muhly, and tobosa, along with scatted shrubs and cacti including mesquite, creosote, prickly pear, and cholla. Many areas are now dominated by shrubs as erosion, drought, and climate change reduce the extent of grasses (Griffith et al., 2006).



#### 4.1.2 Topography

Topography in the area is relatively flat with a general slope to the east-southeast. The proposed Facility property follows the local topography, with a high elevation of approximately 3,420 ft amsl on the western boundary, sloping down to an elevation of 3,410 ft amsl on the eastern boundary.

#### 4.1.3 Climate

Data from the Western Regional Climate Center (WRCC, 2024) indicates that during the period from 1942 to 2016, the Ochoa, New Mexico Co-Op station, located two miles southwest of the Facility, received an average of 11.8 inches of precipitation per year, with the wettest months occurring from May to October. Evaporation from the region, as indicated by the National Oceanic and Atmospheric Administration Evaporation Atlas (NOAA, 1982) for surface water (shallow lakes) is approximately 80 inches per year. The average daily high temperature in the area is 78°F, and the average daily low temperature is 47°F (WRCC, 2024).

#### 4.2 Soil Boring and Groundwater Investigation

#### 4.2.1 Soil Boring and Lithological Logging

The subsurface underlying the proposed facility was investigated by installing one soil boring within the property boundary on November 20, 2024. The location of the soil boring is indicated on the site map included as Figure 8. The soil boring was advanced by hollow-stem auger drilling methods to a depth of 75 feet below ground surface, and lithology of the boring was logged utilizing cuttings at 5-foot intervals and classified utilizing the United Soil Classification System (UCSC).

The results of the soil boring investigation indicate that the facility is underlain by unconsolidated sediments from the surface to the total depth of 75 feet below ground surface. Soils consisted of a medium-grained sand from the surface to a depth of 5 feet bgs, underlain by a pale-white caliche layer from 7 to 22 feet bgs, and red brown clayey sands to a depth of 75 feet bgs. Attachment 1 includes a soil boring lithologic diagram of the boring.

#### 4.2.2 Geotechnical Analysis

Two soil samples were collected from 0-2 feet and from 10-12 feet within the boring for basic geotechnical analysis including sieve analysis, and Atterberg limits for clays. The samples were analyzed by Inberg-Miller Engineering utilizing an in-house laboratory in Albuquerque, New Mexico.

The results of the sieve analysis are included as Attachment 2. The samples both were classified as silty sands (USCS Classification: SM) and did not contain enough clay to allow for evaluation of Atterberg limits.

#### 4.2.3 Temporary Well Installation and Groundwater Investigation

After reaching target depth, the soil boring was completed as a temporary monitoring well to determine if any groundwater is present at intervals above target depth. The temporary monitoring well consisted of a 2-inch PVC casing with 10 feet of screen which was placed from 65-75 feet bgs. Attachment 3 includes the well record/log and the plugging record as filed with the New Mexico Office of the State Engineer (NMOSE).



Following installation, the temporary well was allowed to equilibrate for five days to provide time for any water to infiltrate the well. The drilling team returned to the property on November 25, 2024 and tagged the observation well for water utilizing an electronic sounder – no water was detected in the well.

Following gauging, the well casing was removed from the boring and the hole was backfilled with drill cuttings from total depth to 10 feet bgs. The upper 10 feet of the boring was plugged with hydrated bentonite pellets.

#### 4.3 Local Depth to Groundwater and Groundwater Quality

As detailed above, groundwater was not encountered above a depth of 75 feet during the facility soil boring investigation, and therefore no groundwater sample could be collected for analysis of groundwater quality immediately below the proposed Facility. However, as detailed in Section 3.2.2, a well located approximately 0.8 miles to the southeast encountered groundwater at a depth of 165 feet bgs. No groundwater quality is available from the well.



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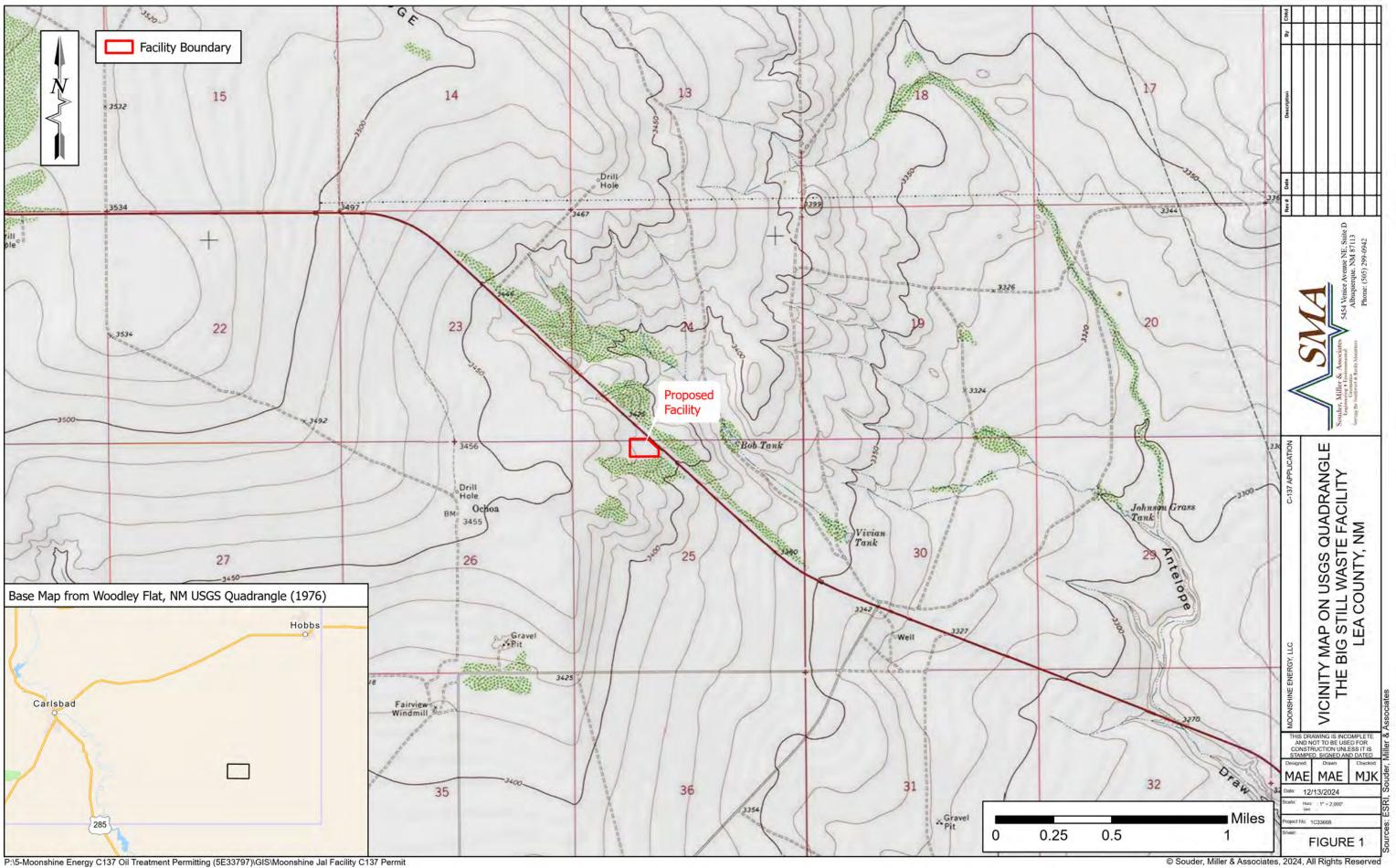


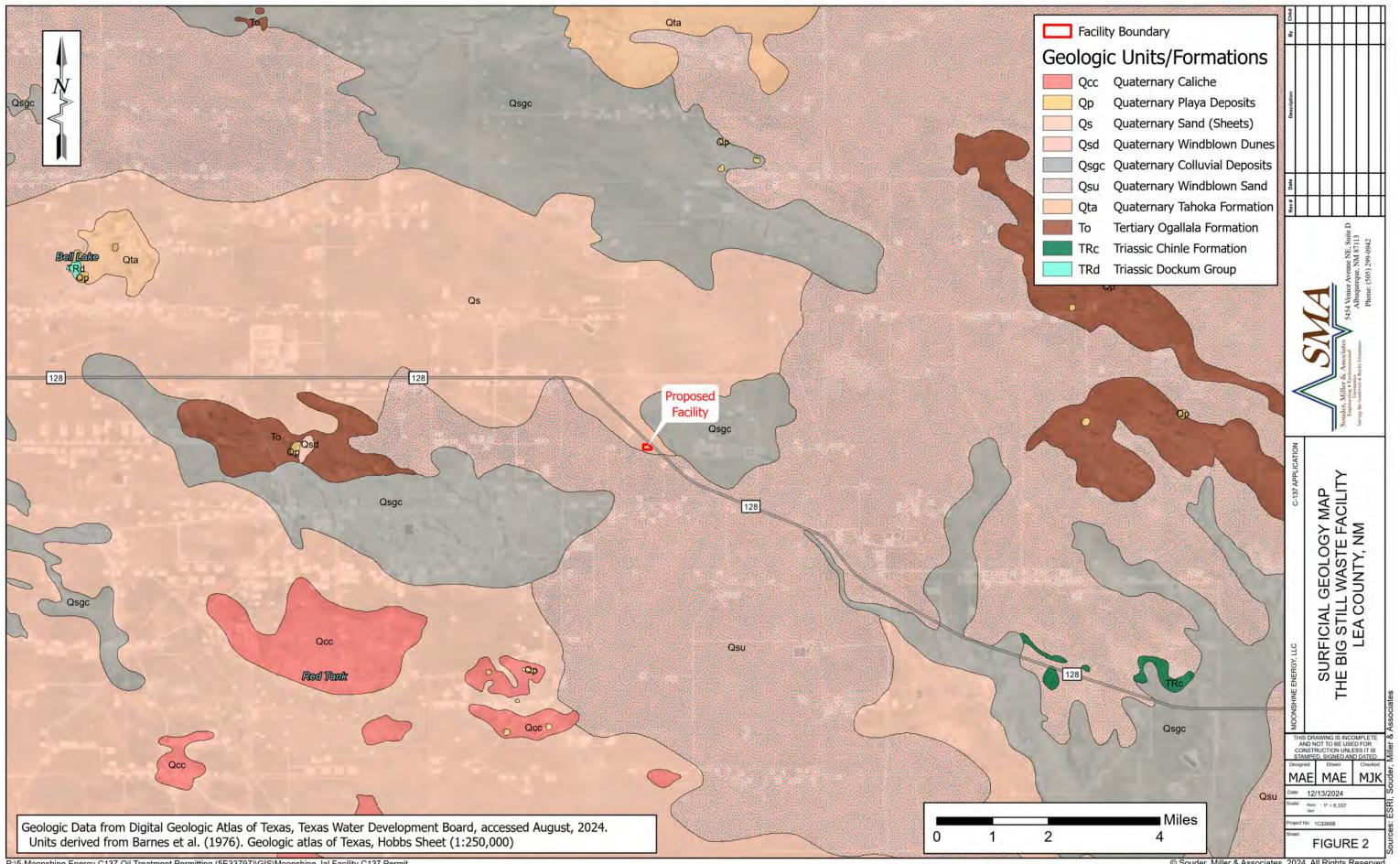
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The Big Still Hydrogeologic Report

# **FIGURES**

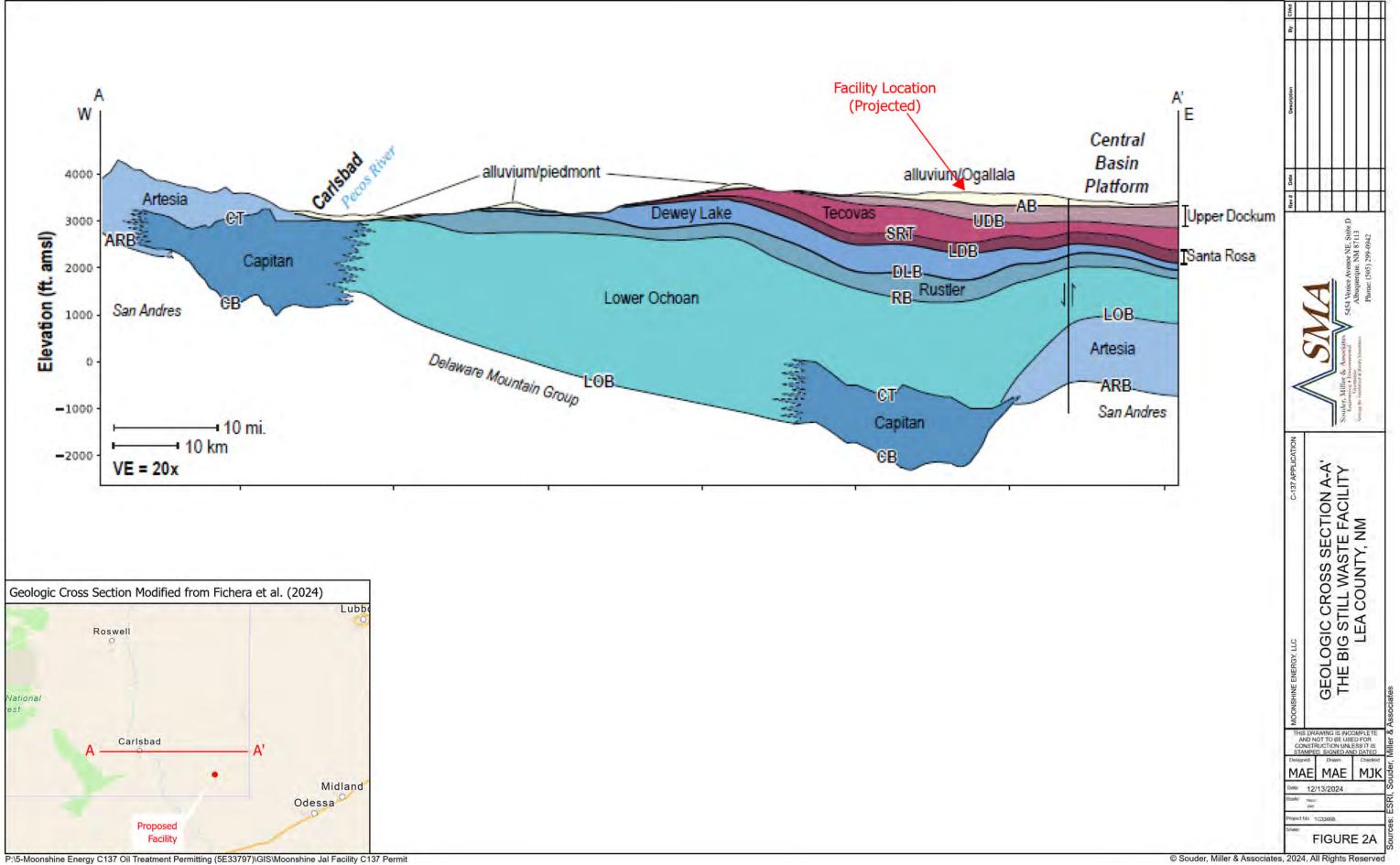


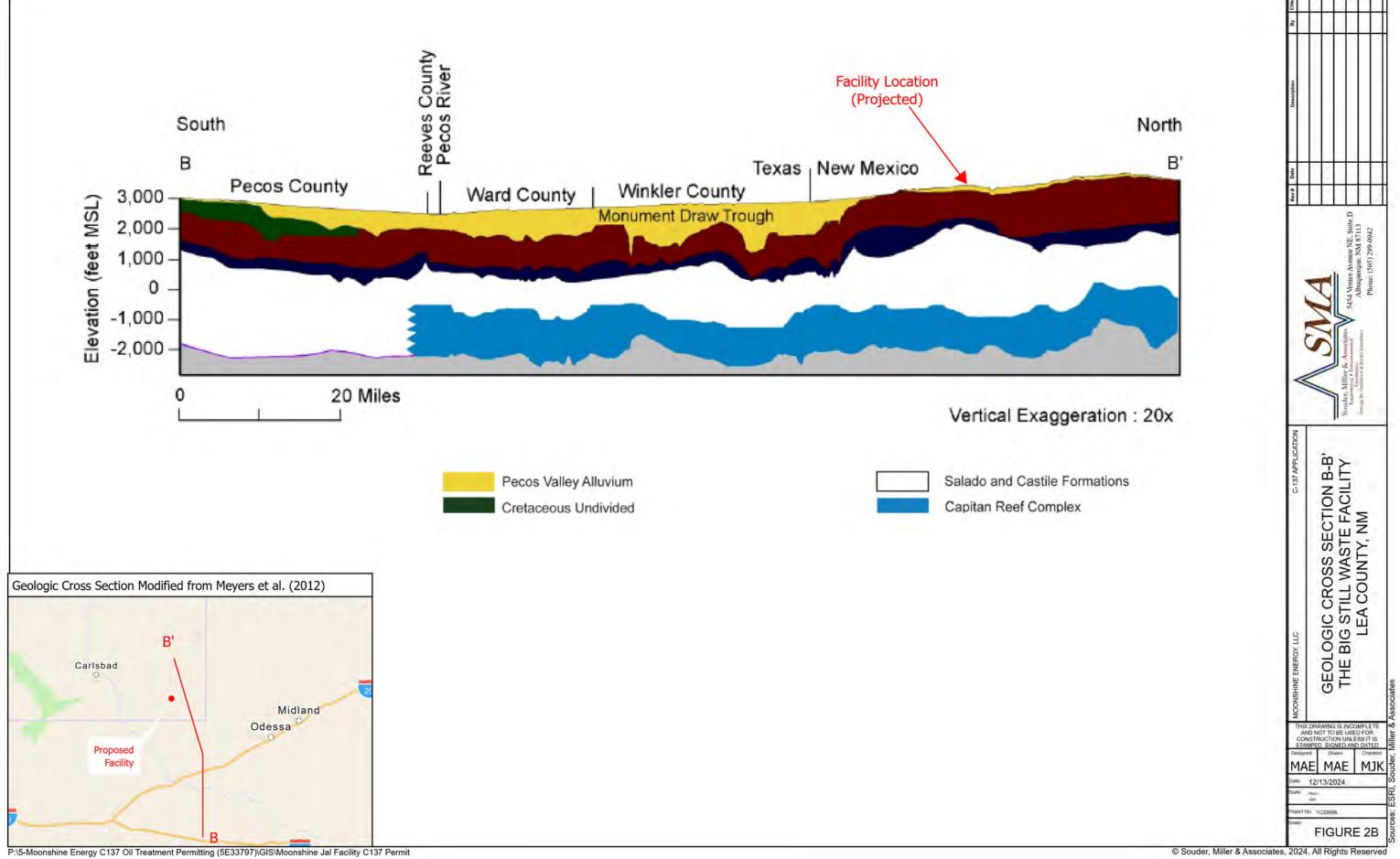


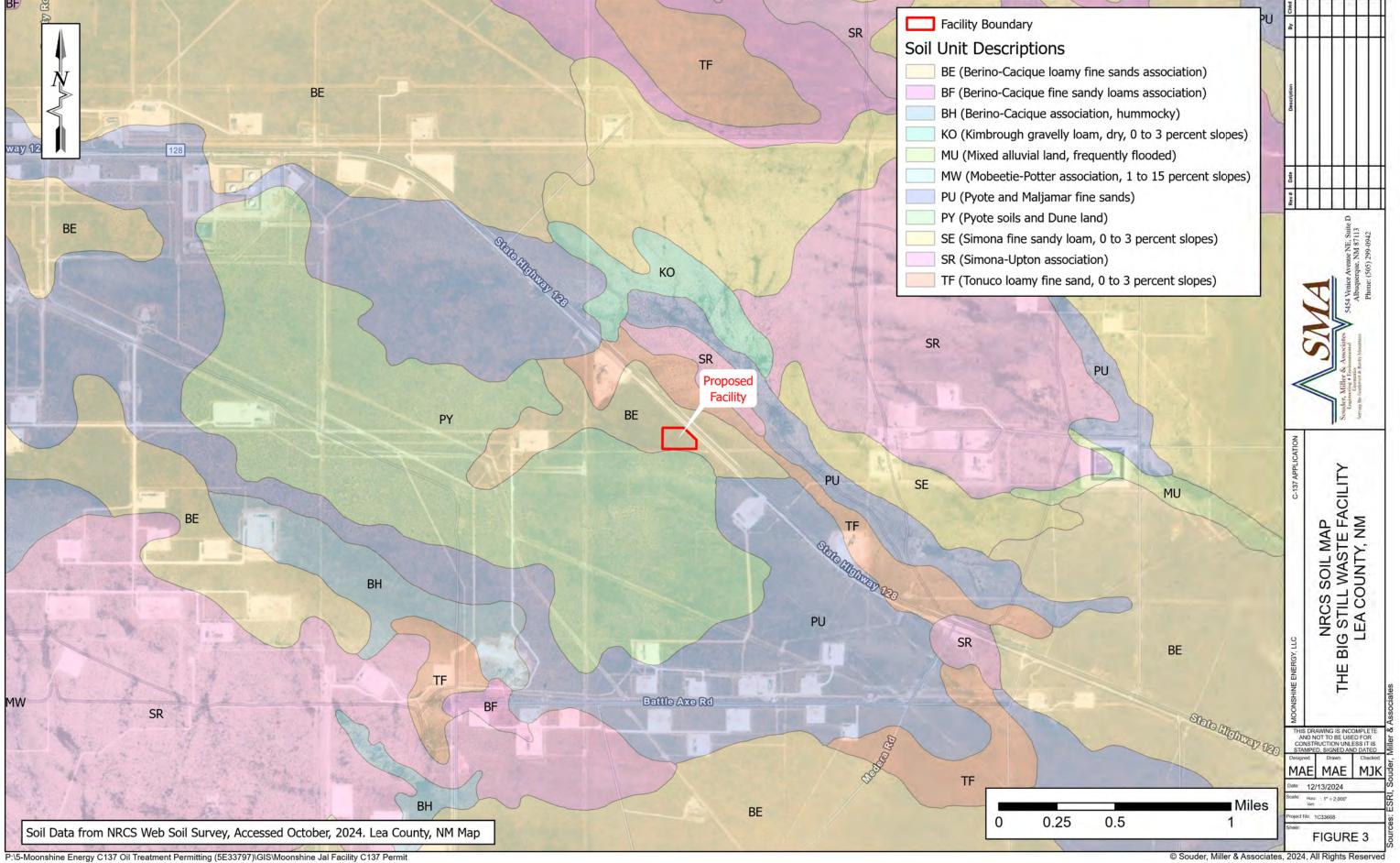


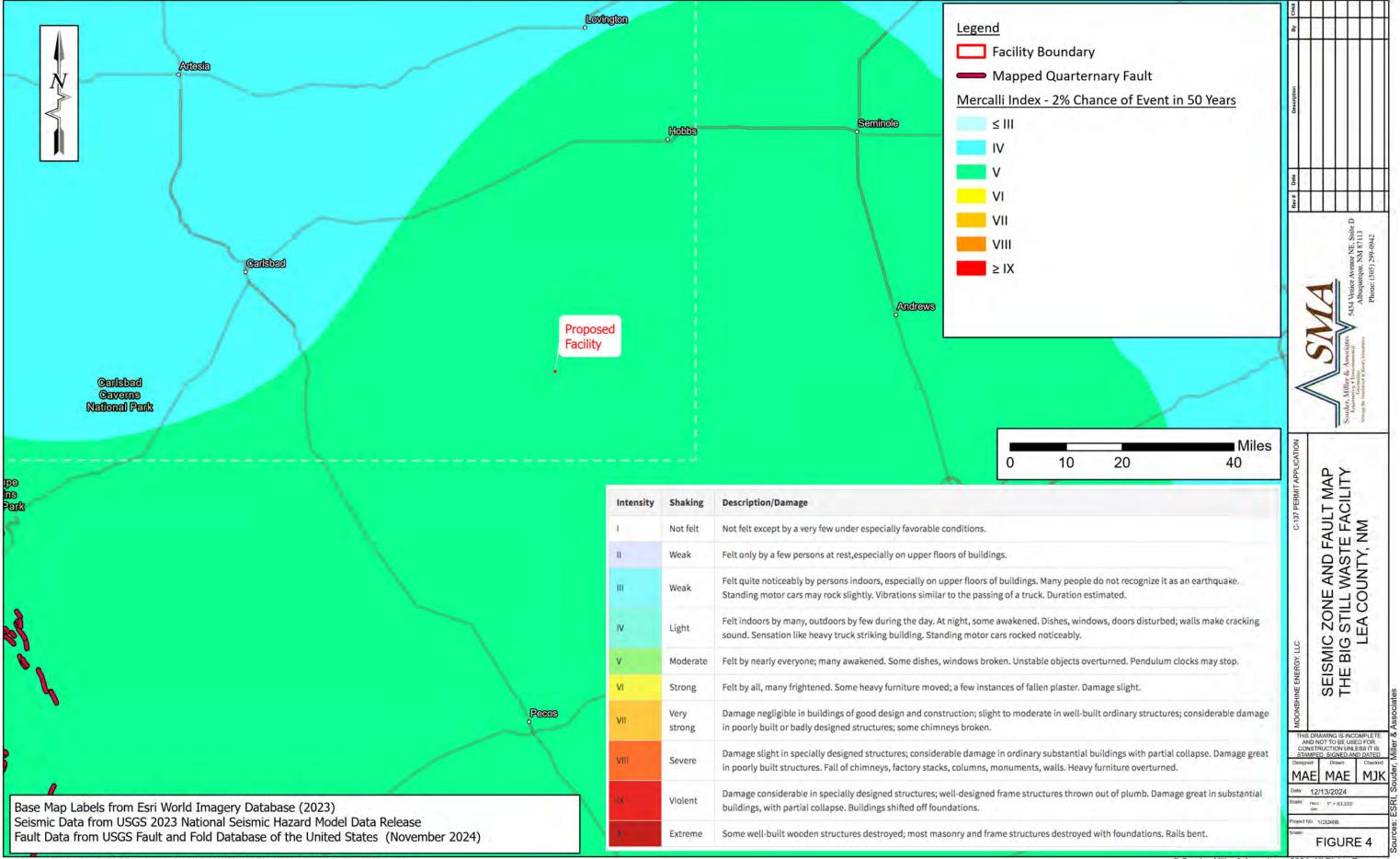
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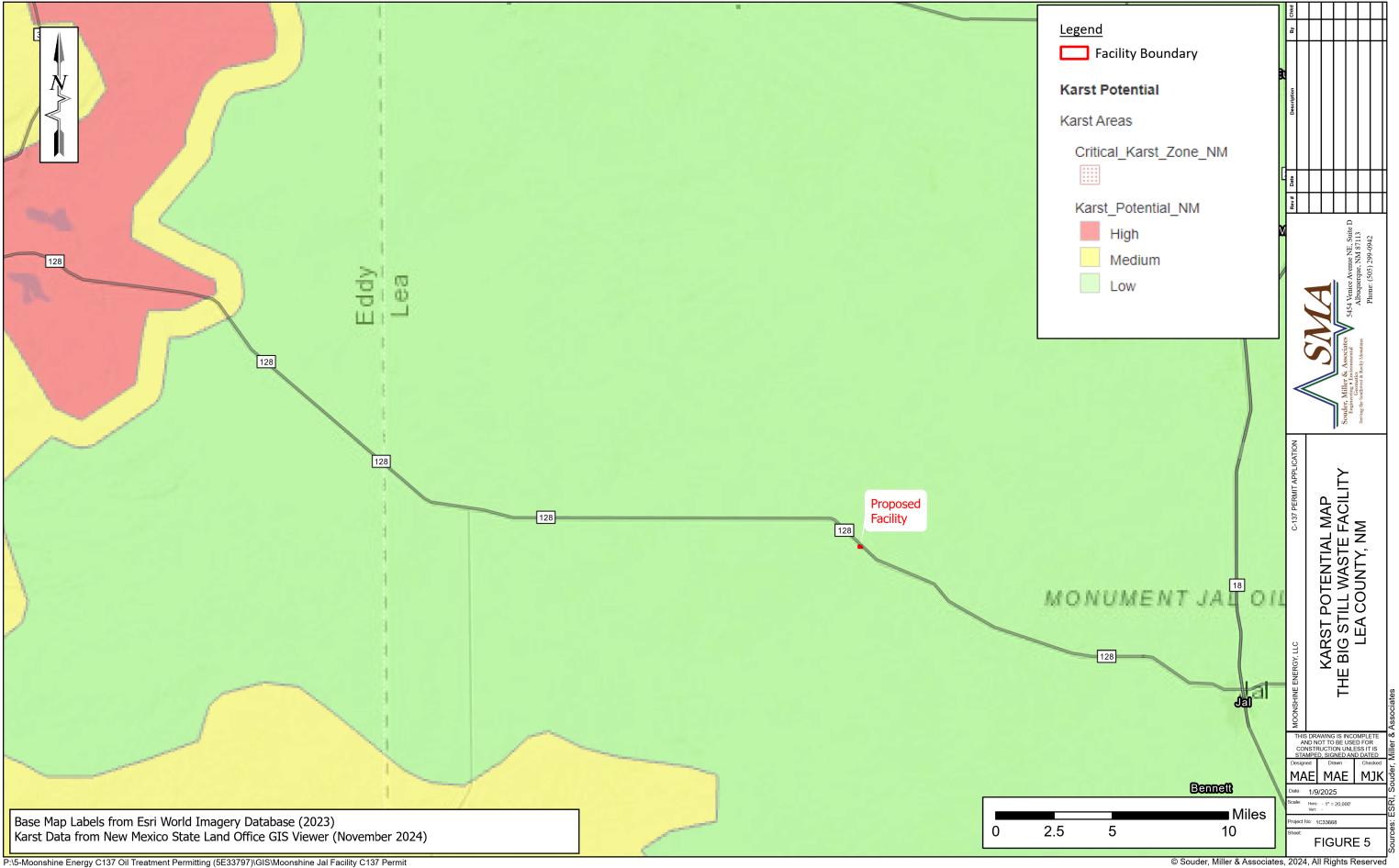




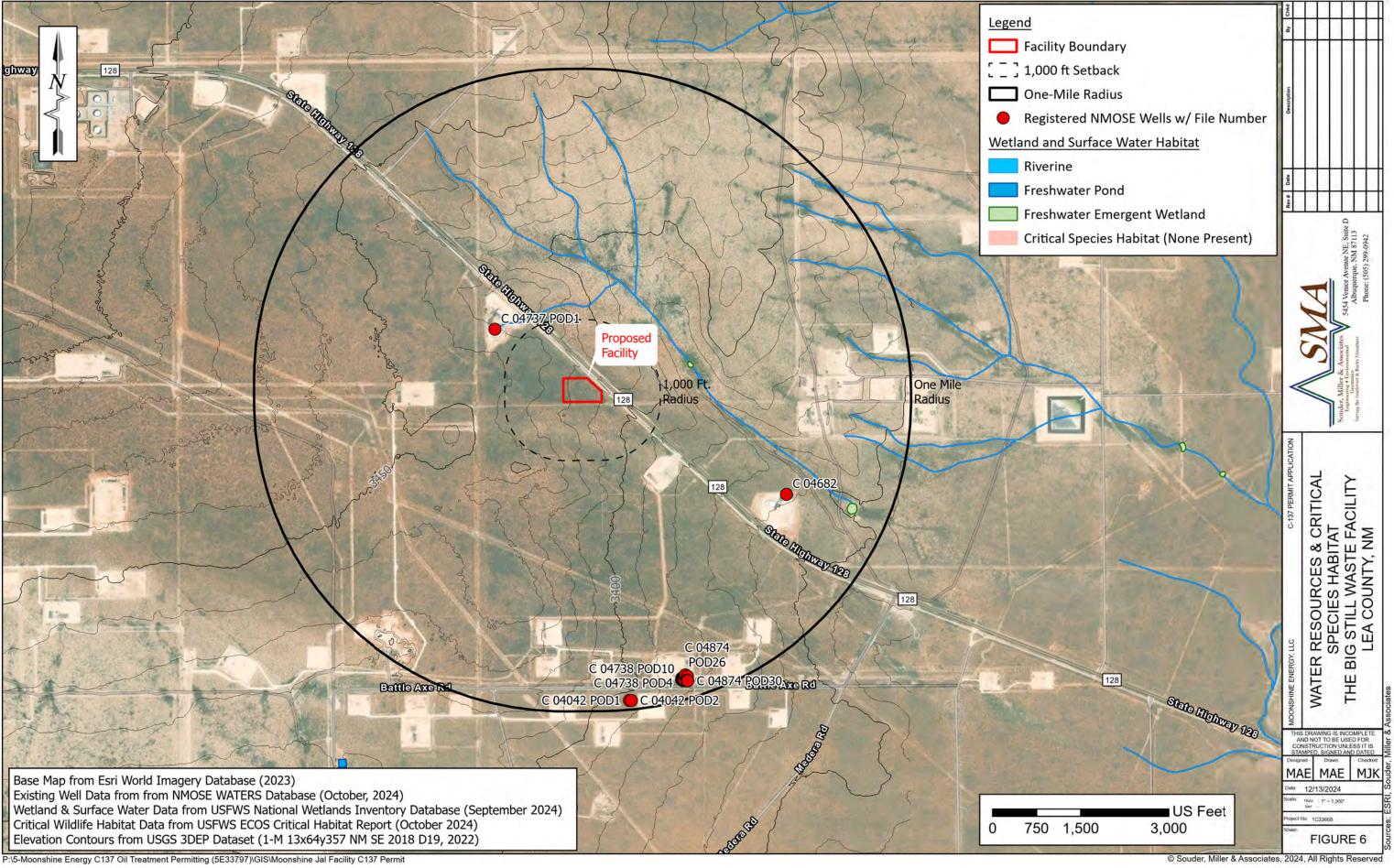


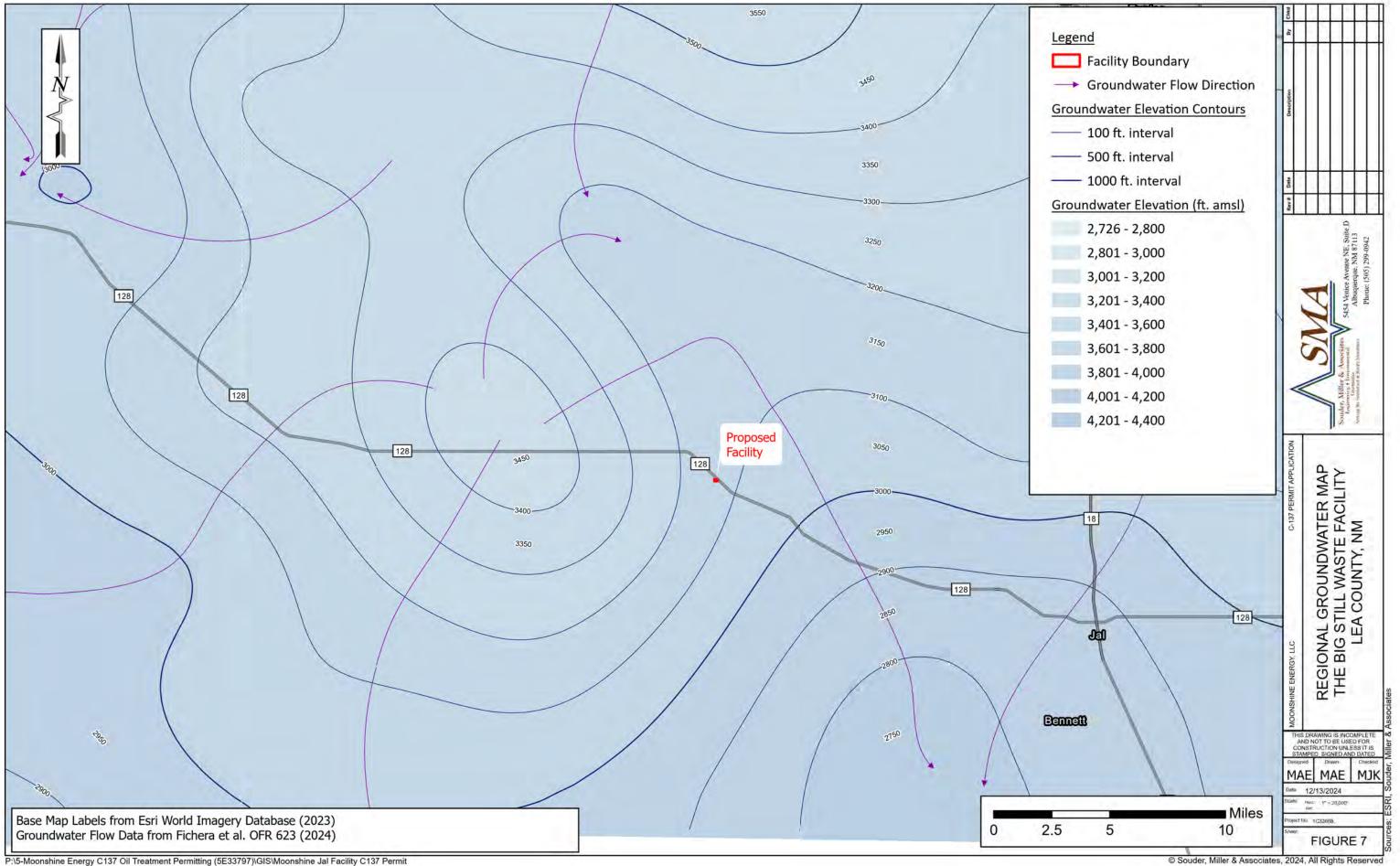
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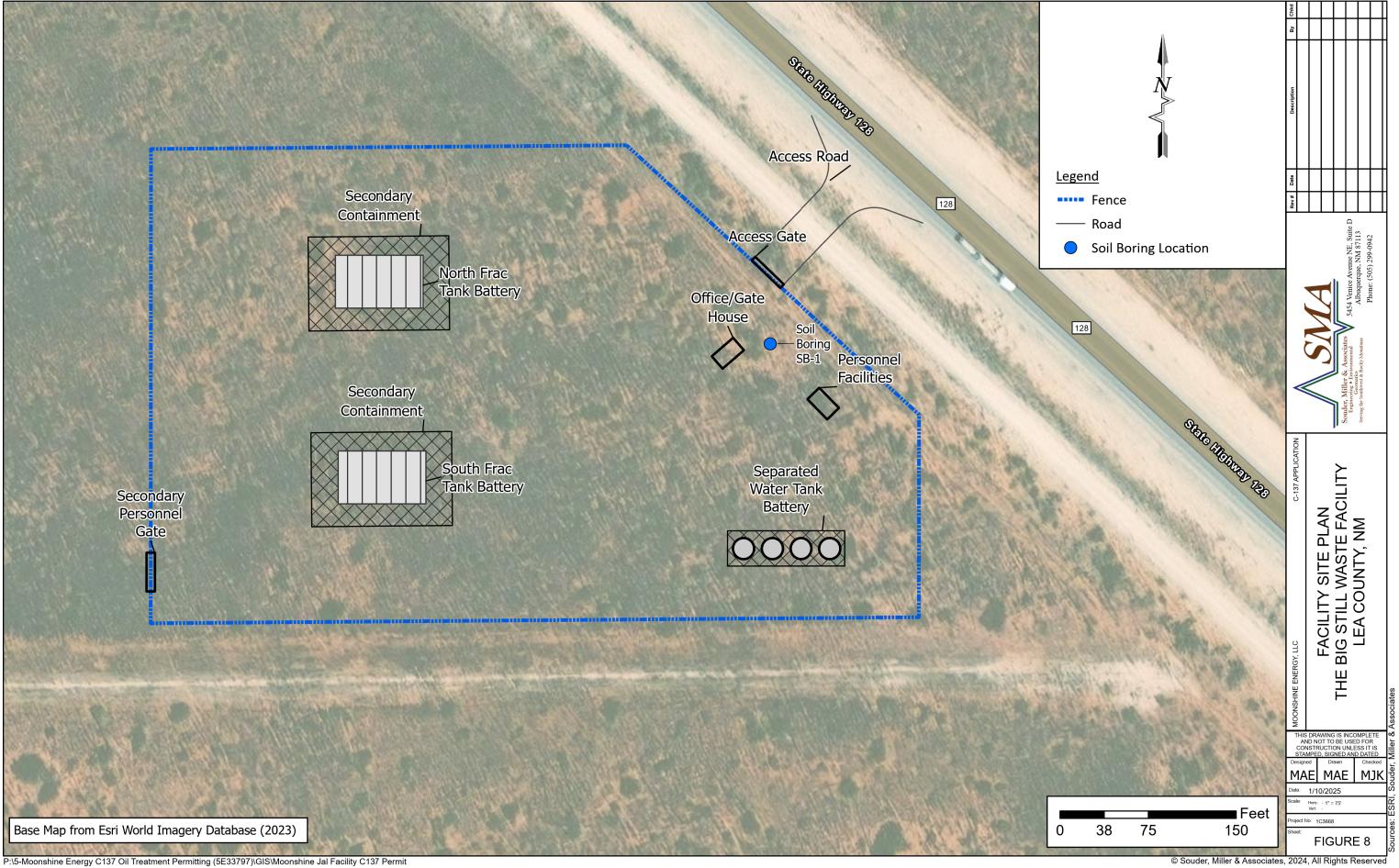


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The Big Still Hydrogeologic Report

## TABLES



Moonshine M3 Surface Waste Treatment Facility - Lea County									
					Depth of Well	Douth to Water	Estimated Droduction	Distance from	
NMOSE File Number	Facting	Northing	Date Installed	Well Use/	(ft bgs)	Depth to Water	Production	Distance from Facility (feet)	
(POD)	Easting	Northing		Purpose		(ft bgs)	(gpm)		
C 04737 POD1	647829	3563471	4/28/2023	MON	250	100	-	1829	
C 04682	649349	3562622	1/18/2023	DOL	290	180	3	3898	
C 04874 POD26	648829	3561679		POL	35			5147	
C 04874 POD25	648829	3561676		POL	35			5159	
C 04874 POD1	648827	3561672		POL	33			5169	
C 04738 POD5	648818	3561667		EXP				5172	
C 04738 POD10	648811	3561663		EXP				5179	
C 04874 POD28	648840	3561672		POL	55			5183	
C 04874 POD5	648816	3561663		POL	33			5183	
C 04874 POD4	648822	3561665		POL	33			5186	
C 04874 POD7	648814	3561661		POL	33			5188	
C 04874 POD2	648827	3561666		POL	33			5188	
C 04738 POD7	648818	3561662		EXP				5189	
C 04874 POD27	648838	3561669		POL	55			5189	
C 04738 POD1	648817	3561661		EXP				5192	
C 04874 POD3	648831	3561666		POL	33			5193	
C 04874 POD20	648835	3561666		POL	45			5195	
C 04738 POD8	648825	3561662		EXP				5196	
C 04874 POD11	648813	3561658		POL	33			5197	
C 04874 POD9	648819	3561659		POL	33			5199	
C 04874 POD8	648824	3561661		POL	33			5199	
C 04738 POD4	648810	3561655		EXP				5202	
C 04874 POD22	648817	3561657		POL	45			5204	
C 04874 POD21	648828	3561659		POL	45			5208	
C 04874 POD6	648837	3561663		POL	33			5209	
C 04874 POD13	648819	3561655		POL	33			5211	
C 04645 POD1	648814	3561653		EXP				5211	
C 04874 POD10	648831	3561659		POL	33			5212	
C 04805 POD1	648820	3561655	3/7/2024	MON	45			5212	
C 04874 POD15	648814	3561652		POL	33			5215	
C 04874 POD23	648820	3561654		POL	45			5215	
C 04805 POD4	648825	3561656	3/12/2024	MON	45			5216	
C 04738 POD2	648824	3561655		EXP				5216	
C 04874 POD24	648825	3561654		POL	33			5220	
C 04738 POD6	648832	3561656		EXP				5221	
C 04805 POD3	648820	3561652	3/13/2024	MON	50			5222	
C 04874 POD12	648837	3561658		POL	33			5223	
C 04874 POD17	648819	3561651		POL	33			5224	
C 04874 POD14	648831	3561655		POL	33			5224	
C 04738 POD3	648818	3561650		EXP				5226	
C 04805 POD2	648825	3561652	3/7/2024	MON	45			5227	
C 04874 POD18	648825	3561650		POL	33			5235	
C 04738 POD9	648826	3561650		EXP				5236	
C 04874 POD16	648835	3561653		POL	33			5237	
C 04874 POD29	648838	3561652		POL	30			5241	
C 04874 POD19	648831	3561650		POL	33			5242	
C 04874 POD30	648842	3561649		POL	30			5256	
C 04042 POD1	648539	3561545	12/20/2017	MON				5334	
C 04042 POD2	648549	3561545		MON				5339	

#### Table 1. Active NMOSE-Registered Wells within One-Mile of Proposed Facility

#### Moonshine M3 Surface Waste Treatment Facility - Lea County

Well Coordinates are UTM Zone 13N, NAD83 Datum ft bgs: feet below ground surface

#### Well Use Legend:

DOL: Domestic & Livestock POL: Pollution Control Well

SAN: Sanitary/Domestic

MON: Monitoring EXP: Exploratory Well



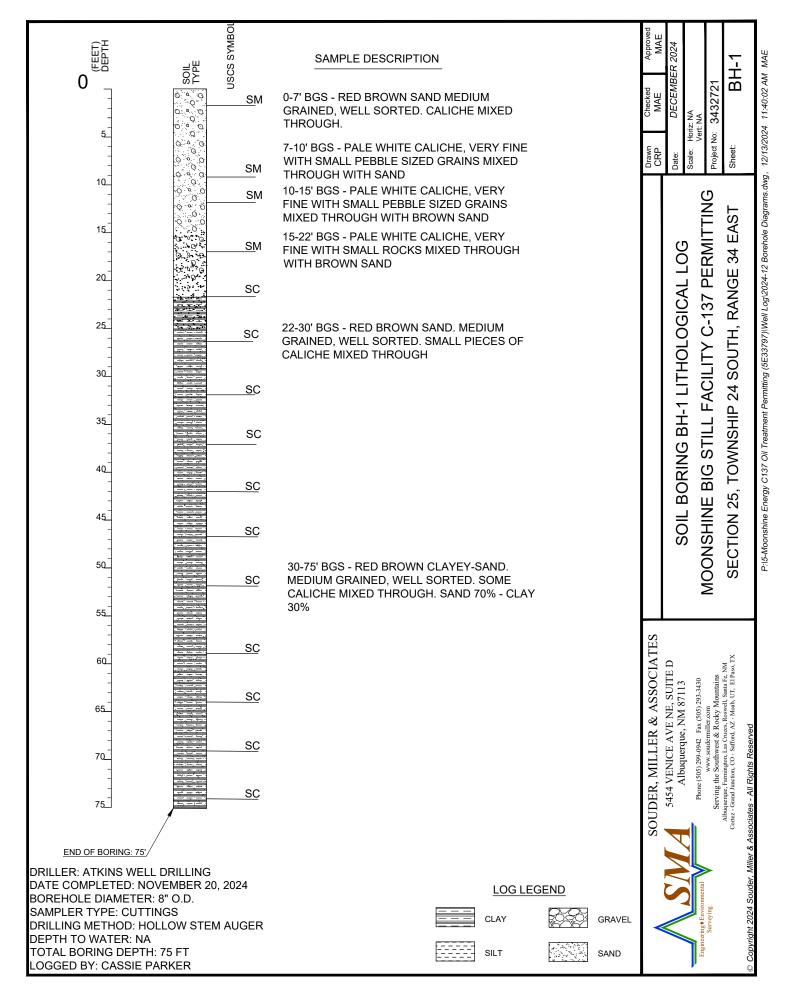
ft amsl: feet above mean sea level

gpm: gallons per minute

# **ATTACHMENT 1**

# Soil Boring Lithological Log



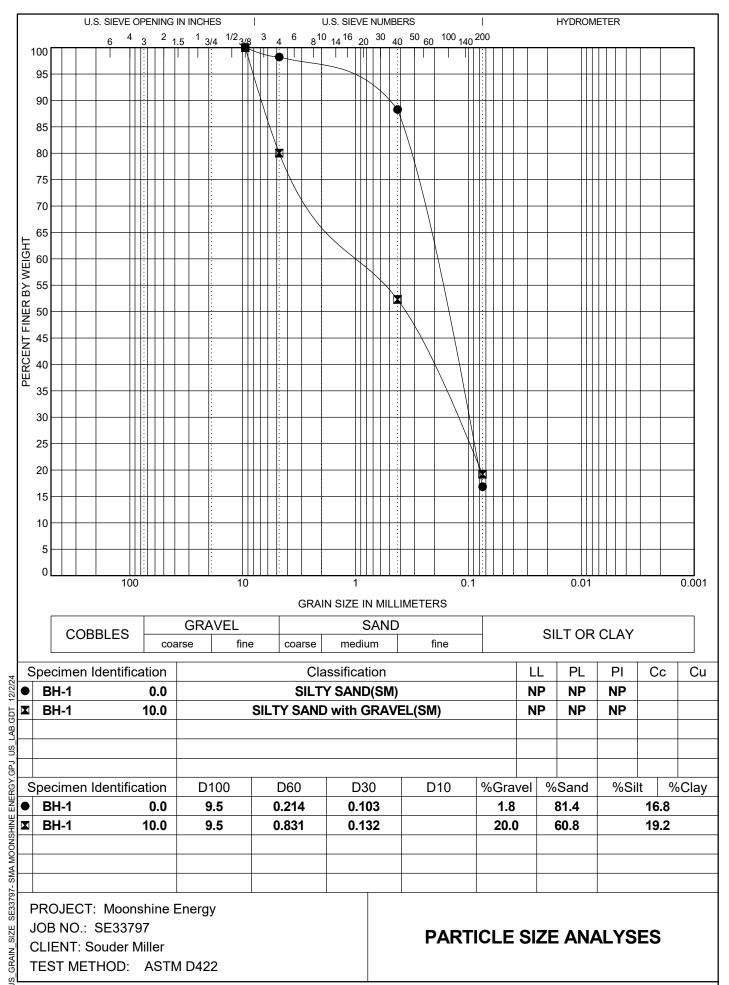


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## **ATTACHMENT 2**

# **Soil Boring Sieve Analyses**





Released to INHERG: W9/2825EN.904.95BM

# **ATTACHMENT 3**

# **On-Site Boring NMOSE Monitoring Well Permit**





2904 W 2nd St. Roswell, NM 88201 voice: 575.624.2420 fax: 575.624.2421 www.atkinseng.com

50

December 5, 2024

DII-NMOSE 1900 W 2<sup>nd</sup> Street Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4904 Pod-1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, C-4904 Pod-1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Groon Middle

Lucas Middleton

Enclosures: as noted above

OSE DII ROSHELLI NM 15 DEC '24 AH11:25



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

OSE DII ROSWELL NM 5 DEC '24 AM11:26

www.ose.state.nm.us

		_								_			
	OSE POD NO. (WELL NO.) WELL TAG ID NO.					OSE FILE NO(	S).						
GENERAL AND WELL LOCATION	POD 1 (TW-1) N/A						C-4904						
	WELL OWNER NAME(S)						PHONE (OPTIONAL)						
	Moonshine Energy												
TT	WELL OWN	ER MAILIN	G ADDRESS					CITY		STA	TE	ZIP	
VEL	3206 Ma Mar Ave							Midland TX 79705					
Â			D	EGREES	MINUTES	SECO	VDS						
A	WELL LOCATION LATI			32 11			05	* ACCURACY REQUIRED: ONE TE?					
SAL	(FROM GF	1.521	TITUDE	103	25	27	01 W		QUIRED: WGS 84				
INE		L0	NGITUDE										
GE	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE SE NE NW Sec. 25 T24S R34E, NMPM												
1.	SE NE NV	V Sec. 25	T24S R34E, NMPI	4									
	LICENSE NO		NAME OF LICENSEI	DRILLER					NAME OF WELL I	RILLIN	G COMPANY		
	124	19			Jackie D. Atkins				Atkins E	ngineer	ing Associates, I	Inc.	
	DRILLING S	TARTED	DRILLING ENDED	DEPTH OF CO	MPLETED WELL (FI	Г)	BORE HOI	E DEPTH (FT)	DEPTH WATER F.	RST EN	COUNTERED (FT	)	
	11/20/	2024	11/20/2024	Tempo	rary Well Materi	al		±75			√A		
								STATIC	WATER LEVEL		DATE STATIC	MEASURED	
z	COMPLETEI	O WELL IS:	ARTESIAN *add Centralizer info b	DRY HO	LE 🗌 SHALLO	W (UNCO	NFINED)	IN COM (FT)	PLETED WELL	N/A	11/25	/2024	
OIL	DRILLING F	LUID:	AIR	MUD	ADDITIV	ES – SPEC	CIFY:						
CASING INFORMATION	DRILLING METHOD: ROTARY HAMMER CABLE TOOL OTHER - SPECIFY: Hollow Stem Auger								PTER IS				
INF	DEPTH (feet bgl) BORE HOLE			CASING MATERIAL AND/OR		SING	CASING	CASING WALL		SLOT			
Ŋ	FROM	ТО	DIAM	GRADE (include each casing string, and		CONNECTION				HICKNESS	SIZE		
ASI			(inches)		note sections of screen) TYPE (add coupling diameter)		(inches)		(inches)	(inches)			
& C	0	75	±6.25		Soil Boring								
2. DRILLING													
ILLI												í	
DRI													
ri		-											
	DEPTH (feet bgl) BORE HOLE LIST ANNULAR SEAL MATERIAL AND GRAVI					PACK SIZE-	AMOUNT M		метно	D OF			
AL	FROM TO DIAM. (inches)		RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing			spacing below) (cubic feet)		•	PLACEMENT				
ERI				In ability Co		J/A	indicate the	spacing below)					
IAT		+											
RN													
AL													
3. ANNULAR MATERIAL													
3.A													
									7				
FOR	OSE INTER	NAL USE						WP 2	WELL RECORD	1 P T O	G Warrien 00/2	2/2022)	

3	FOR OSE INTERNAL USE	WR-20 WELL RECORD & LOG (Version 09/22/2022)				
	FILE NO.	POD NO.		TRN NO.		
	LOCATION		WELI	L TAG ID NO.		PAGE 1 OF 2
Kell	eased to Imaging: 6/9/2025 10:04:45 AM					

	DEPTH (	feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUN INCLUDE WATER-BEARING CAVITIES OR FRAC (attach supplemental sheets to fully describe	CTURE ZONES	WA BEAF (YES		ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)	
	0	3	3	Sand, Fine-grained poorly graded, unconsolidate	Y	√ N			
	3	24	21	Caliche, semi-consolidated, with sand, White		Y	✓ N		
	24	34	10	Sand, Fine-grained poorly graded, unconsolidated, F	Brownish Tan	Y	√ N		
	34	75	41	Clay, consolidated with fine-grained sand, Brow	vnish Tan	Y	√ N		
						Y	N		
Ţ						Y	N		
4. HYDROGEOLOGIC LOG OF WELL						Y	N		
OF						Y	N		
0 0 0						Y	N		
IC I						Y	N		
DOJ						Y	N		
GEO						Y	N		
ROC						Y	N		
đХН						Y	N		
4						Y	N		
						Y	N		
						Y	N		
						Y	N		
						Y	N		
						Y	N		
						Y	N		
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:								
	PUMI		IR LIFT	BAILER OTHER – SPECIFY:	1	WELL YIELD	(gpm):		
TEST; RIG SUPERVISION	WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.								
ERV	MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface.								
SUP	below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface.								
RIG	OSE DII ROSVELL NM 5 DEC '24 akt1:27								
ST;									
5. TE	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt								
ATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:								
6. SIGNATURE	Jackie D. Atkins (Dec 5, 2024 10:28 MST) 12/0						5/2024		
		SIGNATU	JRE OF DRILLE	R / PRINT SIGNEE NAME			DATE		
FOF	OSE INTERI	NAL USE			WR-20 WELL	RECORD & I	LOG (Ver	sion 09/22/2022)	
FIL	E NO.			POD NO.	TRN NO.				
LOC	CATION			WEIT	TAG ID NO			PAGE 2 OF 2	



# PLUGGING RECORD



#### NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

#### I. GENERAL / WELL OWNERSHIP:

State Er	ngineer Well Number: C-4904 POD-1		
Well ow	wher: Moonshine Energy	Phone No.: 43	2 315-0641
Mailing	address: 3206 Ma Mar Ave		
City: _	Aidland State:	ТХ	Zip code:
	LL PLUGGING INFORMATION:		
1)	Name of well drilling company that plugged well:	. Atkins ( Atkins Engineerin	g Associates Inc.)
2)	New Mexico Well Driller License No.: 1249	Expir	ration Date:04/30/25
3)	Well plugging activities were supervised by the following we Cameron Pruitt	ell driller(s)/rig supervisor(	s):
4)	Date well plugging began: Dat	e well plugging concluded	11/25/2024
5)	GPS Well Location: Latitude: <u>32</u> deg, _ Longitude: <u>103</u> deg, _	11 min, 43.05 25 min, 37.01	sec sec, WGS 84
6)	Depth of well confirmed at initiation of plugging as:75 by the following manner: water level probe	ft below ground level	(bgl),
7)	Static water level measured at initiation of plugging:n/a	ft bgl	
8)	Date well plugging plan of operations was approved by the S	State Engineer:11/06/202	4
9)	Were all plugging activities consistent with an approved plug differences between the approved plugging plan and the well		
			I ROSWELL MM 3'24 AH11:27
		1	e arennaa:a i

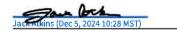
10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

Depth (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement <u>Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
-	0-10' Hydrated Bentonite	Approx. 15 gallons	15 gallons	Boring	
	10'-75' Drill Cuttings	Approx. 103gallons	103 gallons	Boring	
-					
-					
III. SIGNA	ATURE:	MULTIPLY E cubic feet x 7.4 cubic yards x 201.9	3Y AND OBTAIN 805 = gallons 7 = gallons	OSE DII R 5 DEC 12	OSWELL MM Max11:27

#### For each interval plugged, describe within the following columns:

#### **III. SIGNATURE:**

I, Jackie D. Atkins , say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.



12/5/2024

Signature of Well Driller

Date

# 2024-12-5-WR-20 Well Record and Log-packetforsign

Final Audit Report

2024-12-05

Created:	2024-12-05
Ву:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAADLsXs8cEbXtKGFIJPoYMZW7c_KesGWH9

## "2024-12-5-WR-20 Well Record and Log-packet-forsign" History

- Document created by Lucas Middleton (lucas@atkinseng.com) 2024-12-05 - 4:30:50 PM GMT
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2024-12-05 - 4:32:19 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com) 2024-12-05 - 5:24:50 PM GMT
- Document e-signed by Jack Atkins (jack@atkinseng.com) Signature Date: 2024-12-05 - 5:28:23 PM GMT - Time Source: server
- Agreement completed. 2024-12-05 - 5:28:23 PM GMT

DSE DII ROSWELL NM 5 DEC '24 AM11:27



The Big Still Hydrogeologic Report

## **ATTACHMENT 4**

## NMOSE Well Records from Existing Area Wells



DSE DIT JUN 30 2023 PM2:15



# WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

	ER NAME(S) te Services				PHONE (OPTI	UNAL)		
	ER MAILING				CITY Center		state ТХ 75935	ZII
WELL LOCATIO (FROM G	DN LAT	TITUDE		0NDS 6.12 N 6.91 W		REQUIRED: ONE TEN QUIRED: WGS 84	TH OF A SECOND	
DESCRIPTI	ON RELATIN	IG WELL LOCATION TO	street address and common land nd NM-128, travel E-SE on NM-12	MARKS – PLS				
LICENSE NO	D.	NAME OF LICENSED				NAME OF WELL DR		<u></u>
DRILLING S 4/25		DRILLING ENDED 4/28/23	DEPTH OF COMPLETED WELL (FT) 250		LE DEPTH (FT) 251	DEPTH WATER FIR	ST ENCOUNTERED (F N/A	T)
COMPLETE	D WELL IS:	ARTESIAN *add Centralizer info bel	DRY HOLE SHALLOW (UNC	ONFINED)		L WATER LEVEL PLETED WELL N	A DATE STAT	C MEAS
DRILLING F	LUID:	✓ AIR	MUD ADDITIVES – SPE	ECIFY:			t	
DRILLING N	METHOD: 🗸	ROTARY HAMM	MER CABLE TOOL OTHER - SPE	ECIFY:		CHECK INSTAL	HERE IF PITLESS AD LED	APTER
DEPTH	(feet bgl)	BORE HOLE	CASING MATERIAL AND/OR	CA	SING	CASING	CASING WALL	S
FROM	ТО	DIAM (inches)	GRADE (include each casing string, and note sections of screen)	CONN T	VECTION YPE ing diameter)	INSIDE DIAM. (inches)	THICKNESS (inches)	S (in
0	210	8	Sch 80 PVC	F	Riser	4	0.5	
210	250	8	Sch 80 PVC	S	creen	4	0.5	0
				·				
DEPTH	(feet bgl)	BORE HOLE	LIST ANNULAR SEAL MATERIAL AN RANGE BY INTER		PACK SIZE-	AMOUNT		OD OF
FROM	ТО	DIAM. (inches)	*(if using Centralizers for Artesian wells-		spacing below)	(cubic feet)	PLAC	
0	2	8	Portland Ceme		Jas	0.13		emie
2	195	8	3/8 Bentonite Pe			12.89		emie
195	251	8	8/16 Silica Sat	nd		3.74	Tre	emie

		and here are				
	DEPTH (	feet bgl)	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	10	10	SM: Sandy Silt, 20% Fine Grained Sand, 80% Silt, Dry, 7.5YR 8/3, No Odor	Y VN	201120 (8pm)
	10	15	5	SM-Sure Sine Stand Sure Stand Stand, 50% Sine 51, 75, 765 Cubit SM-SW: Fine, 15% Silt, 45% Sand, 40% pebbles, Dry, 7.5YR 8/4, No Odor	Y ✓ N	
	15	20	5	SW: Fine Grained Sand, Dry, 2.5YR 6/6, No Odor	Y ✓ N	
	20	45	25	SM: Sandy Silt, 10-20% Fine Sand, 20-80% Silt, Dry, 2.5-5YR 4-5/4, No Odor		
	45	55	10	SM: Sandy Silt, 10% Fine Grained Sand, 90% Silt, Dry, 10YR 6/2, No Odor	Y ✓ N	
į	55	60	5	SM: Sandy Silt, 10% Fine Grained Sand, 90% Silt, Dry, 5YR 4/4, No Odor	Y ✓ N	
4. HYDROGEOLOGIC LOG OF WELL	60	70	10	SM: Sandy Silt, 10% File Granica Sand, 50% Silt, Diy, 51R 4/4, No Odd SM: Sandy Siltstone, Friable, 10% File Sand, 90% Silt, Dry, 2.5YR 4/4, No Odd		
F W	70	75	5	SW: Fine Grained Sandstone, Dry, 10YR 4/1, No Odor	$\frac{1}{Y} \sqrt{N}$	
0 0					++	
CLO	75	90	15	SM: Sandy Siltstone, Friable, 15% Fine Sand, 85% Silt, Dry, 2.5YR 5/4, No Oc	· · · · · · · · · · · · · · · · · · ·	
OGIO	90	140	50	SM: Silty Sandstone, Friable, 45% Silt, 55% Fine Sand, Dry, 5YR 6/2, No Odo		
OLG	140	145	5	SW: Fine Grained Sandstone, Dry, 5YR 6/2, No Odor	Y √ N	
OGE	145	155	15	SM: Sandy Siltstone, Friable, 20% Fine Sand, 80% Silt, Dry, 2.5YR 5/6, No Oc		
DR	155	170	15	SW: Sandstone, Friable, 40% Medium Sand, 60% Fine Sand, 2.5YR 6/6 Dry	Y VN	
L H)	170	175	5	SM: Silty Sandstone, 20% Silt, 80% Fine Sand, Friable, Dry, 2.5YR 3/4, No Oc		
4	175	185	10	SW: Sandstone, Friable, 40% Medium Sand, 60% Fine Sand, Dry, 2.5YR 4/4	Y VN	
	185	200	15	SW: Sandstone, Very Fine to Fine Grained Sand, Dry, 2.5YR 4/4, No Odor	Y VN	
	200	205	5	SM: Silty Sandstone, 20% Silt, 80% Fine Sand, Dry, 2.5YR 4/4, No Odor	Y VN	
	205	220	15	SW: Silty Sandstone, Fine Grained Sand, Dry, 5YR 5/6, No Odor	Y ✓ N	
	220	230	10	SW: Sandstone, 50% Medium Sand, 50% Fine Sand, 2.5YR 4/4, No Odor	Y ✔N	
	230	251	21	SW: Sandstone, Fine Grained Sand, Dense, Damp, 5YR 4/6, No Odor	Y 🖌 N	
					Y N	
	METHOD U	SED TO ES	TIMATE YIELD		TAL ESTIMATED	
	D PUMI		R LIFT	BAILER OTHER – SPECIFY:	ELL YIELD (gpm):	
NOIS	WELL TES			ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUD ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER TI		
/ISIC	MISCELLA	NEOUS INF	ORMATION:			
ERV			orden friteren			
SUP				nerm	I JUN 30 2023 P	1011S
TEST; RIG SUPERVI					1 OUN DO 2020 M	the later and
ST;						
5. TH			ALL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRU	JCTION OTHER TH	AN LICENSEE:
	Zechariah D	Moody	100			
	THE UNDE	RSIGNED H	EREBY CERTIF	IES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF,	THE FOREGOING IS	S A TRUE AND
JRE				DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECO 0 DAYS AFTER COMPLETION OF WELL DRILLING:	RD WITH THE STA	TE ENGINEER
ATI			igitally signed by Jarod M Micha			
SIGNATURE	Jarod M Michalsk	DL	N: cn=Jarod M Michalsky, o=Ta PE, Ltd., ou, nail=jmichalsky@talonlpe.com,	Jarod M Michalsky	06/27/2023	
6. S	IVITCIIAISK	•	ate: 2023.06.27 10:05:28 -05'00'		DATE	
		SIGNAT	JRE OF DRILLE	R / PRINT SIGNEE NAME	DATE	
FOI	R OSE INTERI	NAL USE		WR-20 WELL R	ECORD & LOG (Vers	sion 09/22/2022)
FIL	e no. 🕐 -	-473	37-Pe	POD NO. / TRN NO. 7	45751	
LO	CATION V	von	- 24.	34.24.133 WELL TAGID NO.		PAGE 2 OF 2

#### **Released to Imaging: 6/9/2025 10:04:45 AM**

Received by OCD: 6/9/2025 10:03:01 AM

Mike A. Hamman, P.E. State Engineer koswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

#### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 745751 File Nbr: C 04737 Well File Nbr: C 04737 POD1

Jun. 30, 2023

WOODY DUNCAN TALON LPE 921 N BIVINS STREET AMARILLO, TX 79107

Greetings:

The above numbered permit was issued in your name on 04/14/2023.

The Well Record was received in this office on 06/30/2023, stating that it had been completed on 04/28/2023, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 04/13/2024.

If you have any questions, please feel free to contact us.

Sincerely, compion

Maret Thompson (575)622-6521







# WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

NO	OSE POD NO C04682 PO		)		WELL TAG ID NO. 211EC			OSE FILE N C-04682	NO(S	3).			
OCATI	WELL OWNE Daniel Bae	. ,						PHONE (0) 575-390-2					
AND WELL LOCATION	WELL OWNE 7225 Mock							CITY Hobbs			STATE NM	88240	ZIP
AND	WELL			GREES 32	minutes 11	SECON		* ACCURA	ACY	REQUIRED: ONE TENT	TH OF A	SECOND	
1. GENERAL	LOCATIO (FROM GP	S)	TTUDE NGITUDE	103	24	56.354		* DATUM	REC	UIRED: WGS 84			
1. GEN	DESCRIPTIC	ON RELATIN	G WELL LOCATION TO	STREET ADD	RESS AND COMMON	N LANDMA	RKS – PLS	S (SECTION,	TO	WNSHJIP, RANGE) WH	ERE AV	AILABLE	
	LICENSE NO WD1		NAME OF LICENSED	DRILLER	GARY KEY					NAME OF WELL DRI KEY'S DRILLIN			CE, INC
	DRILLING ST 12/20/		DRILLING ENDED 01/19/2023	DEPTH OF CO	DMPLETED WELL (F 290	T)		LE DEPTH (F 920	T)	DEPTH WATER FIRS	ST ENCO 18		
N	COMPLETEI	O WELL IS:	ARTESIAN *add Centralizer info be	DRY HO	LE 🔽 SHALLO	W (UNCO)	NFINED)		OM	WATER LEVEL PLETED WELL 165	FT	DATE STATIC 1-19-	
VIIO	DRILLING FI	LUID:	🖌 AIR	MUD	ADDITIV	/ES – SPEC	IFY:						
RM	DRILLING M	ETHOD:	ROTARY HAMI	MER 🗌 CAB	LE TOOL 🔲 OTH	IER – SPEC	IFY:			CHECK INSTAL	HERE I LED	F PITLESS ADA	PTER IS
INFO	DEPTH	(feet bgl)	BORE HOLE	CASING	MATERIAL AND	D/OR	CA	ASING		CASING	CAS	SING WALL	SLOT
& CASING INFORMATION	FROM	то	DIAM (inches)		GRADE each casing string, sections of screen)		Т	NECTION FYPE ling diameter	)	INSIDE DIAM. (inches)	Tł	IICKNESS (inches)	SIZE (inches)
& C	0	20	16-3/4"		12" STEEL					12"		.250	
NG	-2	160	9-7/8"		PVC SCH40			PLINE		4-1/2"		SCH40	022
DRILLING	160	290	9-7/8"		PVC SCH40		SI	PLINE		4-1/2"		SCH40	.032
2. I													
								. 1.					
	DEPTH	(feet bgl)	BORE HOLE	LIST ANN	ULAR SEAL MATE RANGE B			L PACK SIZ	E-	AMOUNT		METHO	D OF
AL	FROM	ТО	DIAM. (inches)	*(if using Co	RANGE B entralizers for Artes			e spacing bel	<u>ow</u> )	(cubic feet)		PLACE	MENT
ANNULAR MATERIAL	0	20	16-3/4"		CEMEN	T SLUR	RY			13.09		POU	UR .
TAT	0	62	9-7/8"		HYDRATED B	ENTONI	TE CHIPS	5		22.35		TREM	
RA	62	114	9-7/8"		PEA	GRAVEL				21.26		POL	
ULA	114	290	9-7/8"		8/16 SIL	LICA SAN	ND			71.98		TREN	<b>AIE</b>
INN													
3. 1										USE DIT FE	889	023 pm4:05	<u>}</u>
										"may" tang" bannan bang" at at 1 tang		a server a server a	

FILE NO. C-US2 POD / POD NO.	TRN NO.	magne	/
	TKN NO.	138379	5
LOCATION DOM + STK 24.34.25.442 WELL	TAG ID NO.	ZIIEC	PAGE 1 OF 2

	DEPTH ( FROM	feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZON (attach supplemental sheets to fully describe all units)	ES BEA	ATER ARING? S / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm
	0	5	5	RED SAND	Y	🖌 N	
	5	23	18	CALICHE	Y	🗸 N	
	23	118	95	RED SANDSTONE AND CLAY	Y	✔ N	
	118	157	39	BROWN & RED SANDSTONE	Y	✔ N	
	157	270	113	RED CLAY & SANDSTONE	🖌 Y	N	3.00
T	270	290	20	TAN SANDSTONE	Y	🗸 N	
WELL	290	324	34	RED CLAY	Y	🗸 N	
OF	324	410	86	RED CLAY WITH SANDSTONE STREAKS	Y	🗸 N	
00	410	905	495	RED & GRAY SPECKLED SANDSTONE/MUDSTONE	Y	🗸 N	
ICI	905	920	15	DOLOMITE-RUSTLER FORMATION	Y	🖌 N	
TOC					Y	N	
GEO					Y	N	
RO					Y	N	
4. HYDROGEOLOGIC LOG					Y	N	
4.					Y	N	
					Y	Ν	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
	METHOD U			OF WATER-BEARING STRATA:	TOTAL EST		3
<b>UG SUPERVISION</b>	WELL TES	STAR	T TIME, END TII	ACH A COPY OF DATA COLLECTED DURING WELL TESTING, IN ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OV HIS WELL WAS DRILLED TO 920 AND PLUGGED BACK TO AN OF OPERATIONS DATED 1-9-2023. THE WELL THEN W ELL.	PER THE TEST	ER WELI	DD. . PLUGGING
5. TEST; RIG	PRINT NAM CASEY KE		RILL RIG SUPEF	RVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CO	NSTRUCTION	OTHER TI	HAN LICENSE
SIGNATURE	CORRECT	RECORD Q	E THE ABOVE I	FIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL TO DAYS AFTER COMPLETION OF WELL DRILLING:	RECORD WIT	H THE ST	IS A TRUE AN ATE ENGINEI
6. SIG		JOGO	0	GARY KEY	2/	8/2023	
		SÍGNAT	URE OF DRILLE	R / PRINT SIGNEE NAME		DATE	
	R OSE INTER	NAL USE		WR-20 W	ELL RECORD &	& LOG (Ve	rsion 09/22/202
FOI							the second s

PAGE 1 OF 2

WELL TAG ID NO.



## WELL RECORD & LOG OFFICE OF THE STATE ENGINEER

00C DIT MAIY 20 2024 #0:00

#### OFFICE OF THE STATE ENGINEE

www.ose.state.nm.us

Z	OSE POD NO POD1 (SV)		0.)	-	WELL TAG ID NO.	ic of a photo si		OSE FILE NO( C-4805	S).			
CATIO	WELL OWNE Plains All A	ER NAME(S				-	1	PHONE (OPTI	ONAL)			
GENERAL AND WELL LOCATION	WELL OWNE PO Box 464	ER MAILIN	-		м. т.			CITY Houston		sta TX		ZIP 7002
N QN			DE	GREES	MINUTES	SECO	NDS			11. (19. (19. (19. (19. (19. (19. (19. (		
LA	WELL LOCATIO	N LA	ATITUDE	32	10	53.	.71 <sub>N</sub>	* ACCURACY	REQUIRED: ONE T	ENTH OF	A SECOND	
IERA	(FROM GP	S)	and the second	-103	25	17.	.06 W	* DATUM RE	QUIRED: WGS 84			
1. GEN	DESCRIPTIC Sec 25, T24		ING WELL LOCATION TO	STREET ADDR	ESS AND COMMON	LANDM	IARKS – PL	SS (SECTION, TO	WNSHJIP, RANGE)	WHERE A	AVAILABLE	
	LICENSE NO		NAME OF LICENSED	DRILLER					NAME OF WELL	DRILLIN	G COMPANY	
	WD-1	868		F	Robert A Meyer			1	-		LPE, Ltd.	
	DRILLING ST 03/07/2		DRILLING ENDED 03/07/2024	DEPTH OF CO	MPLETED WELL (F 45	Γ)	BORE HO	DLE DEPTH (FT) 45	DEPTH WATER H		COUNTERED (FT N/A	)
z	COMPLETED	O WELL IS:	ARTESIAN *add Centralizer info bel		E SHALLO	W (UNCO	ONFINED)		WATER LEVEL PLETED WELL	N/A	DATE STATIC	
TIO	DRILLING FI	LUID:	AIR	MUD	ADDITIV	ES – SPE	CIFY:					
DRILLING & CASING INFORMATION	DRILLING M	ETHOD:	ROTARY HAMM	1ER 🗌 CABL	LE TOOL 🔽 OTH	ER – SPE	CIFY:	Hollow Stem	Auger CHE INST	CK HERI TALLED	E IF PITLESS ADA	PTER IS
INFO	DEPTH	(feet bgl)	BORE HOLE	CASING	MATERIAL AND	Ø/OR	С	ASING	CASING	CA	ASING WALL	SLOT
ING	FROM	ТО	DIAM		GRADE each casing string,	and		NECTION TYPE	INSIDE DIAM (inches)	. 1	THICKNESS (inches)	SIZE (inches)
CAS	0	35	(inches)		sections of screen) Sch 40 PVC		(add cou	pling diameter) Riser	2"		0.25	-
IG &	35	45	6		Sch 40 PVC			Screen	2"		0.25	0.010
TLIN												
5.												
												1.1
								T DA OK OLZE			T	
	DEPTH	(feet bgl)	BORE HOLE	LIST ANNU	LAR SEAL MATE RANGE B			EL PACK SIZE-	AMOUN		METHO	
RIAL	FROM	TO	DIAM. (inches)	*(if using Cer	ntralizers for Artesi			e spacing below)	(cubic fee 5.76	t)	Tren	
VTEI	0 33	33	6		Portland 3/8" Hydra				0.35		Tren	
R M/	35	45	6			a Sand			1.74		Trer	
ANNULAR MATERIAL												
INN												
3.1												
	ENO.			SUEO	POD NO	)		WR-2 TRN	$\frac{10 \text{ WELL RECOR}}{10 \text{ NO}}$	D & LC	OG (Version 09/:	22/2022)
TILI		1000	-1-01 (	SUED		. (			12	2-1	//	

<b>Released to Imaging:</b>	6/9/2025	10:04:45 AM

24

LOCATION Y

Non

34.25.434

	DEPTH (f	èet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONE (attach supplemental sheets to fully describe all units)	s	BEAF	TER RING? / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	33	33	No Sample		Y	✓ N	
	33	35	2	<ul> <li>SC, Well-graded clayey sands with fine caliche gravel, moist and firm with slight plasticity, reddish brown in coloration, minor effective structures and stru</li></ul>	ervescence	Y	√ N	
	35	40	4.5	SC, Poorly-graded fine sands, dry, soft, no plasticity, reddish brown in coloration, minor efferv	escence	Y	✓ N	
	38	38.5	.5	VF sandstone, poor sorted/well grade, gray to light pink w/ minor presence of dark lithics,		Y	✓ N	
	40	45	5	SP, Medium-graded fine sands with fine caliche gravel, dry, little plasticity, pinkish		Y	√ N	
_						Y	N	
4. HYDROGEOLOGIC LOG OF WELL						Y	N	
N A					-	Y	N	
200						Y	N	
CE						Y	N	
50						Y	N	
EUL						Y	N	
500						Y	N	
X DK						Y	N	
4. H						Y		
							N	
						Y	N	
				· · · · · · · · · · · · · · · · · · ·		Y	N	
						Y	N	
						Y	N	
						Y	N	
						Y	N	
	METHOD US			OF WATER-BEARING STRATA: BAILER OTHER – SPECIFY:		L ESTIN L YIELD		
	WELL TEST			ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INC ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVE				
LEST; KIG SUPERVISION	MISCELLAN	I IEOUS INI	FORMATION:	0:	Con	MOI 2	0.2624	.mQ:00
EG.	PRINT NAM	E(S) OF D	RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CON				
1.0	Jesse W Tau				STRUC			
	CORRECT R	ECORD O	F THE ABOVE D	TIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BEL DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL R 0 DAYS AFTER COMPLETION OF WELL DRILLING:				
and tenne o	Robert A	Meyer	Digitally signed by Robert A Mey DN: cn=Robert A Meyer, o=Talor Ltd., ou=VP of Drilling, email=rmeyer@italonlpe.com, c=U Date: 2024.05.20 17:17:26 -05'00'	Robert A Meyer		05/03	3/2024	
		SIGNAT	URE OF DRILLE	R / PRINT SIGNEE NAME			DATE	
	R OSE INTERN	IAL USE	4	WD 20 WEI	LREC	ORD &	LOG (Ver	rsion 09/22/2022
	E NO.	480	S-PO	D SUED ROD NO. TRN NO.	7	SS	59	7
	CATION h	100	01/2	4. 25. 434 Well TAG ID NO.	L			PAGE 2 OF 2

Plains Endurance 6' Kelease 12632476 Plains All American Durol Jol NM												Page 1 of 1
14141	Se Drilling contractor: Driller: Surface elevation: Weather (A.M.)		Talon LPE Jesse Tausch 3365 - Dendy, Low 46° High Winds, Partly Cloudy, High 74°	/ 46° Cloudy	, High 7	<mark>4</mark>		Hole de Date/Tir Date/Tir Drilling GHD su	Hole designation: Date/Time started: Date/Time completed: Drilling method: GHD supervisor:		SVE01 0930 03-07-2024 1345 03-07-2024 Hollow Stem Auger Liam Giersdorf/Rebeccca Pons	ccca Pons
	Sample Description				Sam	Sample Details	s					
Order of descriptors: Soil type symbol(s) - pr secondary components	Order of descriptors: Soil type symbol(s) - primary component(s), (nature of deposit), secondary components, relative density/consistency, grain size/plasticity,				Pe Split S	Penetration Record Split Spoon Blows	u swoj					
on/structure, co	gradation/structure, colour, moisture content, supplementary descriptors.	1		(Reco	ord N-V	alues &	(Record N-Values & Recoveries)	es)				
asticity deter is too dry to r	Note: Plasticity determination requires the addition of moisture if the sample is too dry to roll (indicate if moisture was added or not).	Sample Number	Sampling Method	.9	.9	.9	z	œ	Sample Interval	PID/FID (ppm)	Chemical Analvsis	Grain Size/ Other Analysis
I-graded clay ht plasticity,	SC, Well-graded clayey sands with fine caliche gravel, moist and firm with slight plasticity, reddish brown in coloration, minor effervescence	SVE0135	Split Spoon		1				33-35'	1780	8015B/8021B	
oorly-graded	SC, Poorly-graded fine sands, dry, soft, no plasticity, reddish brown in coloration, minor effervescence	SVE0140	Auger						35-40'	3598	8015B/8021B	Cuttinas
ne sandston ous matrix, r	Very fine sandstone, poorly sorted/well graded, poss. Lithic Arkose with calcareous matrix, ranges from gray to light pink in coloration with minor presence of dark lithics, friable		Split Spoon						38-38.5			
, Medium-gra	SP, Medium-graded fine sands with fine caliche gravel, dry, little blasticity, binkish brown	SVE0145	Aliner			-			40 AF	0101	000150001	
						-			7	0174	1700/00100	cumigs
										1		
		×										
						-						
	1											
	ي پر منه منه کې سري کې د									2		
	017											
	HOI.	r			7.4	-		+				
Depth of borehole caving	Depth of borehole caving <u>20</u> Depth of first groundwater encounter Mater lavel in over borehole on commutation	encounter			Topsoil t	Topsoil thickness						
2" PVC Pipe in:	m 35'-45' in depth, packed	nd from TD to to	pp of screen, plu	igged wit	ith 2' of E	Sentonite	, grouted	for rema	aining depth t	to surface		
	र्ज स्व											
	() ()											

Form SP-14

July 2015



well Office 1900 WEST SECOND STREET ROSWELL, NM 88201

#### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 755597 File Nbr: C 04805 Well File Nbr: C 04805 POD1

May. 23, 2024

KAROLANNE HUDGENS PLAINS ALL AMERICAN PIPELINE 1106 GRIFFITH DR. MIDLAND, TX 79706

Greetings:

The above numbered permit was issued in your name on 02/28/2024.

The Well Record was received in this office on 05/23/2024, stating that it had been completed on 03/07/2024, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 02/27/2025.

If you have any questions, please feel free to contact us.

Sincerely,

C housion Man

Maret Thompson (575)622-6521



koswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

#### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 755597 File Nbr: C 04805 Well File Nbr: C 04805 POD1

May. 23, 2024

TJ HALEY TALON LPE 921 N. BIVINS ST. AMARILLO, TX 79107

Greetings:

The above numbered permit was issued in your name on 02/28/2024.

The Well Record was received in this office on 05/23/2024, stating that it had been completed on 03/07/2024, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 02/27/2025.

If you have any questions, please feel free to contact us.

Sincerely, RO

Maret Thompson (575)622-6521

OGC OT MAY 20 2024 m3:40



# WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

NO	OSE POD NO. POD2 (SV)		)	WELL TAG ID NO.		OSE FILE NO(3 C-4805	S).			
OCATI	WELL OWNE Plains All A	. ,	Pipeline			PHONE (OPTIC	ONAL)			
WELLL	WELL OWNE PO Box 464		ADDRESS			CITY Houston		STATE TX 7	ZIP 27002	
GENERAL AND WELL LOCATION	WELL LOCATIO (FROM GPS		ITUDE	32 10 53	ONDS 3.61 N 6.87 W	<ul> <li>Southware</li> </ul>	REQUIRED: ONE TEN QUIRED: WGS 84	TH OF A SECOND		
1. GEN	DESCRIPTIO Sec 25, T24		G WELL LOCATION TO	STREET ADDRESS AND COMMON LAND	MARKS – PLS	SS (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVAILABLE		
	LICENSE NO. WD-1	868	NAME OF LICENSED	DRILLER Robert A Meyer			NAME OF WELL DR T	ILLING COMPANY Falon/LPE, Ltd.		
	DRILLING ST 03/07/2	1	DRILLING ENDED 03/07/2024	DEPTH OF COMPLETED WELL (FT) 45	BORE HO	LE DEPTH (FT) 45	DEPTH WATER FIRST ENCOUNTERED (FT) N/A WATER LEVEL DATE STATIC MEASURE			
NC	COMPLETED	WELL IS:	ARTESIAN *add Centralizer info bel	DRY HOLE SHALLOW (UNC	WATER LEVEL PLETED WELL N	/ A	C MEASURED			
RMATIC	DRILLING FL	passos	AIR ROTARY HAMM	MUD ADDITIVES – SP TER CABLE TOOL I OTHER – SP	Auger CHECK INSTAL	HERE IF PITLESS AD. LED	APTER IS			
& CASING INFORMATION	DEPTH ( FROM	feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) CASING CONNECTIO (add coupling diam			CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)	
& C	0	35	6	Sch 40 PVC		Riser	2"	0.25	-	
2. DRILLING	35	45	6	Sch 40 PVC			2"	0.25	0.010	
	DEPTH (	feet bgl)	BORE HOLE	LIST ANNULAR SEAL MATERIAL A RANGE BY INTE		L PACK SIZE-	AMOUNT	METH		
IAL	FROM	TO	DIAM. (inches)	*(if using Centralizers for Artesian wells	s- indicate the	e spacing below)	(cubic feet)	PLACE		
TER	0	33	6	Portland Cemer			5.76	Tre		
ANNULAR MATERIAL	33 35	35 45	6	3/8" Hydrated Be Silica Sand			0.35		mie mie	
3. ANNUL										
FOR	OSE INTER	ALUSE				WR-20	) WELL RECORD	& LOG (Version 09/	(22/2022)	

VE02 POD NO. TRN NO. 2 88 < < PAGE 1 OF 2 34 WELL TAG ID NO.

-

Released to Imaging: 6/9/2025 10:04:45 AM

DA

FILE NO.

LOCATION NOM

FROM	ТО	THICKNESS	COLOR AND TYPE OF MATERIAL ENCOUNTE	ICLD	I WA	TER	
		(feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTU (attach supplemental sheets to fully describe all u		BEAF (YES	RING? / NO)	YIELD FOR WATER- BEARING ZONES (gpm)
0	33	33	No Sample		Y	🖌 N	
33	35	2	SC, Well-graded clayey sands w/fine caliche grav, moist/firm w/slight plast, reddish brow	vn, minor effervescence	e Y	🖌 N	
35	40	4.5	SC, Poorly-graded fine sands, dry, soft, no plasticity, reddish brown in coloration	, minor effervescence	Y Y	🖌 N	
38	38.5	.5	VF sandstone, poor sorted/well grade, gray to light pink w/ minor presence of	f dark lithics, friable	Y	✓ N	
40	45	5	SP, Medium-graded fine sands with fine caliche gravel, dry, little plastic	city, pinkish brown	Y	✓ N	
<u>`</u>	18 19.			3-	Y	N	
					Y	N	
5	1.1	1.		1	Y	N	
	5 K - 1				Y	N	
		2.		× .	Y	N	
					Y	N	
	1944	2 <sup>11</sup>			Y	N	
					Y	N	
					Y	N	
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		3			Y	N	6.1
		104.5			Y	N	
·. ·					Y	N	
					Y	N	
					Y	N	
					Y	N	i <sup>a</sup> si n
METHOD US	SED TO ES	TIMATE YIELD	OF WATER-BEARING STRATA:	ТОТ	AL ESTIN	IATED	
PUMP		IR LIFT	BAILER OTHER – SPECIFY:	WE	LL YIELD	) (gpm):	
WELL TEST							
MISCELLAN	EOUS INF	ORMATION:		09C U	II MAN 2	2024	en];4]
PRINT NAM	E(S) OF DI	RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF W	ELL CONSTRU	UCTION O	THER TH	IAN LICENSEI
lesse W Taus	sch						
CORRECT R	ECORD O	F THE ABOVE I	ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THI				
Robert A	Meyer	DN: cn=Robert A Meyer, o=Talo td., ou=VP of Drilling, mail=rmeyer@talonlpe.com, c=U	Robert A Meyer	× v	05/03	3/2024	
	SIGNAT	URE OF DRILLE	R / PRINT SIGNEE NAME			DATE	
OSE INTERN	AL USE	0	W	R-20 WELL RI	ECORD &	LOG (Ve	rsion 09/22/202
N 11	805-	PODD	SUEDZ PODNO. Z TH	RN NO. 7	SSS	597	7
	PUMP WELL TEST MISCELLAN PRINT NAM Vesse W Taus THE UNDER CORRECT R AND THE PE Robert A	PUMP A WELL TEST TEST STAR MISCELLANEOUS INF PRINT NAME(S) OF DI Jesse W Tausch THE UNDERSIGNED F CORRECT RECORD OF AND THE PERMIT HO Robert A Meyer SIGNAT	PUMP       AIR LIFT         WELL TEST       TEST RESULTS - ATTA START TIME, END TIN         MISCELLANEOUS INFORMATION:         PRINT NAME(S) OF DRILL RIG SUPER         Jesse W Tausch         THE UNDERSIGNED HEREBY CERTIF         CORRECT RECORD OF THE ABOVE D         AND THE PERMIT HOLDER WITHIN 3         Robert A Meyer         Puinture wide of Dominage         Miscelland Meyer         Distair states         OSE INTERNAL USE         NOC - 4805 - POID O	WELL TEST       TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TES         START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWD         MISCELLANEOUS INFORMATION:         PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF W         Jesse W Tausch         THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE         CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THI         AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:         Digitally signed by Robert A Mayer         Disc. Workson J The HOUSE         Robert A Meyer         Disc. Workson J The HOUSE         SIGNATURE OF DRILLER / PRINT SIGNEE NAME         OSE INTERNAL USE         NG       -4805-POLD A GUE OF A MAYER         NG       -4805-POLD A GUE OF A MAYER	PUMP       AIR LIFT       BAILER       OTHER - SPECIFY:       WE         WELL TEST       TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUD START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER TH         MISCELLANEOUS INFORMATION:       OCC 0         PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRU- fesse W Tausch       OCC 0         THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, T       CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECO AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:         Robert A Meyer       Days of the completion of WELL DRILLING:         Minimum ONE of DRILLER / PRINT SIGNEE NAME       WR-20 WELL RI         OSE INTERNAL USE       WR-20 WELL RI         NG - 4805 - POLD A GUEDAN POD NO.       PD NO.       TRN NO.	Image: Start Time, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAUDOWN OVER THE TESTING       Image: Start Time, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING       Image: Start Time, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING       Image: Start Time, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING       Image: Start Time, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING       Image: Start Time, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING       Image: Start Time, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING       Image: Start Time, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING       Image: Start Time, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING       Image: Start Time, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING       Image: Start Time, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING       Image: Start Time, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING       Image: Start Time, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING       Image: Start Time, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING       Image: Start Time, END TIME, AND A TABLE SHOWING DISCHARGE AND DRELLER, THE FORE       Image: Start Time, Start END TIME, AND THE TESTING THE ADVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OF MELL CONSTRUCTION OF MELL CONSTRUCTION OF MELL CONSTRUCTION OF MELL RECORD A MAPPER CONFIDENCE AND THE ADVIDENT ADVIDENT ADVIDENT ADVIDENT ADVIDENT ADVIDENT ADVIDENT ADVIDENT A	Image: Start Time, end time, and a table showing discharge and drawdown over the testing period         Image: Start Time, end time, and a table showing discharge and drawdown over the testing period         Image: Start Time, end time, and a table showing discharge and drawdown over the testing period         Image: Start Time, end time, and a table showing discharge and drawdown over the testing period         Image: Start Time, end time, and a table showing discharge and drawdown over the testing period         Image: Start Time, end time, and a table showing discharge and drawdown over the testing period         Image: Start Time, end time, and a table showing discharge and drawdown over the testing period         Image: Start Time, end time, and a table showing discharge and drawdown over the testing period         Image: Start Time, end time, and a table showing discharge and drawdown over the testing period         Image: Start time, end time, and a table showing discharge and drawdown over the testing period         Image: Start time, end time, and a table showing discharge and drawdown over the testing period         Image: Start time, end time, and a table showing discharge and drawdown over the testing period         Image: Start time, end time, and a table showing discharge and drawdown over the testing period         Image: Start time, end time, and a table showing discharge and drawdown over the testing period         Image: Start time, end time, and a table showing discharge and drawdown over the testing period         Image: Start time, end time, and a table showing discharge and dr

The matrix is an intermediation of distribution of distributi	Project name: Project number:	"Release		Talon LPE Jesse Tausch					Hole ( Date/	Hole designation: Date/Time started:	· ·	SVE2 1630 03-13-2024	
Sample Description:         Sample Description:         Sample Description:           reference:         Sold year of description:         Preventation:         Preventation:           reference:         Sold year of description:         Preventation:         Preventation:           reference:         Sold year operation:         Preventation:         Preventation:           reference:         Sold year operation:         Preventation:         Preventation:           reference:         Sold year operation:         Preventation:         Preventation:           ref         n         Preventation:         Preventation:         Preventation:           ref         Sold yeard         Preventation:         Preventation:         Preventation:           ref         Sold yeard         Preventation:         Preventation:         Preventation:           ref         Sold yeard         Preventation: <th>ent: :ation:</th> <th>Veather Weather</th> <th></th> <th>, Low 47° y, High 84°</th> <th></th> <th></th> <th>     </th> <th></th> <th>Date/ Drillin GHD</th> <th>Fime compluing method:</th> <th></th> <th>03-13-2024 Push Geoprobe Giersdorf/Rebeo</th> <th>cca Pons</th>	ent: :ation:	Veather Weather		, Low 47° y, High 84°					Date/ Drillin GHD	Fime compluing method:		03-13-2024 Push Geoprobe Giersdorf/Rebeo	cca Pons
and memory       For and discription componential, induce of depend, induce of merit, apple of and induce of merity of and and and induce of merit, apple of and						Samp	le Deta	ils					
Wote:       Planeticity determination requires the addition of moleture if the sample to constrain the addition of moleture if the SCRW, Well graded sands with calificity event. Income slightly molet, efferencedit       Sample Munder       Form is any addition       Planeticity formed and synthesis	Stratigraphic Intervals				(Reco	Pe F Split S rd N-Va	netratio Record poon B	lows	rieci				
I         SCSW, Well graded sands with aither graves (loces, reddish brown, sCSW, Well graded sands with aither graves (loces, reddish brown, sCSSW, Well graded sands with aither graves (loces, reddish brown, sSVS25         SVS25         Air Robry         I         I         I         I         22-35         64:3         016880018           30         30         SCSSW, Well graded sands with calche graves (loces, reddish brown, 33         SVS25         Air Robry         I         I         I         I         2-3-35         64:3         016880018           13         30         SCSW, Well graded sands with calche graves (loces, reddish brown, 31ght) wolds, differenceutin         SVS25         Air Robry         I	m At To		Sample Number	Sampling Method	.9	6" 6	.9	Z	R	Sample Interval	PID/FID (ppm)	Chemical Analvsis	Grain Size/ Other Analvsis
Image: SciSW, Well graded sands with calicle gravel, locse, reddish brown, signtly moist, efferencent       SVE235       Air Rotary       Image: SVE34       Im		SC/SW, Well graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent	SVE220	Air Rotary						20-25'	847.8	8015B/8021B	
SciSW, Well graded sands with calicle gravel. loose, reddish brown.       SVE230       Air Rotary       Sol		SC/SW, Well graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent	SVE225	Air Rotary						25-30'	573.9	8015B/8021B	
		SC/SW, Well graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent	SVE230	Air Rotary			č			30-33'	548.9	8015B/8021B	
				8		-							
					<u>(</u> 2)		, P						
					t								
								5					
		0					an Dire						
		11 A.11			-								- 4
-													
		Depth of	encounter			opsoil th	hickness						
	and	Water level in open-porenole on completion	d from TD to top	of screen, plug	ged wit	h 2' of B	entonite	s, groute	ed for re	maining dep	th to surface		
	Comments												

July 2015

Form SP-14



koswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

#### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 755597 File Nbr: C 04805 Well File Nbr: C 04805 POD2

May. 23, 2024

TJ HALEY TALON LPE 921 N. BIVINS ST. AMARILLO, TX 79107

Greetings:

The above numbered permit was issued in your name on 02/28/2024.

The Well Record was received in this office on 05/23/2024, stating that it had been completed on 03/07/2024, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 02/27/2025.

If you have any questions, please feel free to contact us.

Sincerely,

Maret Thompson (575)622-6521

Received by OCD: 6/9/2025 10:03:01 AM

Mike A. Hamman, P.E. State Engineer



well Office 1900 WEST SECOND STREET ROSWELL, NM 88201

#### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 755597 File Nbr: C 04805 Well File Nbr: C 04805 POD2

May. 23, 2024

KAROLANNE HUDGENS PLAINS ALL AMERICAN PIPELINE 1106 GRIFFITH DR. MIDLAND, TX 79706

Greetings:

The above numbered permit was issued in your name on 02/28/2024.

The Well Record was received in this office on 05/23/2024, stating that it had been completed on 03/07/2024, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 02/27/2025.

If you have any questions, please feel free to contact us.

Sincerely,

Maret Thompson (575)622-6521

OGE OTI MAY 20 2024 mG:45



# WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

NO	OSE POD NO. POD2 (SVI		)		WELL TAG ID NO	).		OSE FILE N C-4805	O(S).			
OCATI	WELL OWNE Plains All A	. ,	Pipeline	ar H d			n di se	PHONE (OF	TIONAL)			
WELL L	WELL OWNE PO Box 464		ADDRESS					CITY Houston			state TX	ZIP 77002
GENERAL AND WELL LOCATION	WELL LOCATION (FROM GPS		TTUDE	GREES 32 -103	MINUTES 10 25	SECON 53. 16.	61 <sub>N</sub>	a complete	CY REQUIRI REQUIRED: V		TH OF A SECOND	
NEI		LON	IGITUDE			-						
1. GE	DESCRIPTIO Sec 25, T24		G WELL LOCATION TO	STREET ADDR	ESS AND COMMO	N LANDM	ARKS – PLS	SS (SECTION, 7	FOWNSHJIP,	, RANGE) WH	ERE AVAILABLE	
	LICENSE NO. WD-1	868	NAME OF LICENSED		lobert A Meyer	r			NAME		ILLING COMPANY alon/LPE, Ltd.	ł
	DRILLING ST 03/07/2		DRILLING ENDED 03/07/2024	DEPTH OF COM	APLETED WELL (F 45	FT)	BORE HO	le depth (ft 45	) DEPTH	IDI ETED WELL NI/A		
N	COMPLETED	WELL IS:	ARTESIAN *add Centralizer info be	DRY HOL	E SHALLO	OW (UNCC	ONFINED)			WATER LEVEL DATE STATIC MEAS PLETED WELL N/A N/A		
TIO	DRILLING FL	UID:	AIR	MUD	ADDITI	VES – SPE	CIFY:	1				
DRMA	DRILLING MI	ETHOD:	ROTARY HAMM	1ER 🔲 CABL	and a second			n Auger	CHECK INSTAL	ADAPTER IS		
2. DRILLING & CASING INFORMATION	DEPTH ( FROM	feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) (add coupling diar			NECTION FYPE	INSIE	ASING DE DIAM. nches)	CASING WA THICKNES (inches)	DLOI	
¿ CA	0	35	6		Sch 40 PVC			Riser		2"	0.25	-
ING &	35	45	6		Sch 40 PVC		S	Screen		2"	0.25	0.010
DRILL				13	r	<u>A</u>						
2.	i.			-		-						
	DEPTH (		BORE HOLE DIAM. (inches)			BY INTER	VAL			AMOUNT cubic feet)		THOD OF ACEMENT
RIA	FROM 0	TO 33	6	*(if using Cen	tralizers for Artes	sian wells- l Cement		e spacing belo	<u>w)</u>	5.76		Tremie
ATE	33	35	6		3/8" Hydr					0.35		Tremie
S M/	35	45	6			ica Sand				1.74		Tremie
ULAI										6		
. ANNULAR MATERIAL		Ľ										
з.												
FOR	OSE INTER	AL USE	- 1 march	L				WR	-20 WELL	RECORD	& LOG (Versior	09/22/2022)

FILE NO. C-4805-POD 2	SVE02	POD NO. 2	TRN NO.	755597	7
LOCATION NOM 24.34	.25.43	4	WELL TAG ID NO.		PAGE 1 OF 2

	DEPTH (1	feet bgl)	THICKNESS	COLOR AND TYPE OF MATERIAL INCLUDE WATER-BEARING CAVITIES					TER RING?	ESTIMATED YIELD FOR WATER-
	FROM	то	(feet)	(attach supplemental sheets to fully			,		/ NO)	BEARING ZONES (gpm)
	0	33	33	No Sample				Y	✓ N	
	33	35	2	SC, Well-graded clayey sands w/fine caliche grav, moist/firm w/sligh	t plast, reddish b	prown, minor efferv	escence	Y	🖌 N	
	35	40	4.5	SC, Poorly-graded fine sands, dry, soft, no plasticity, reddish br	own in colorat	ion, minor efferve	scence	Y	✓ N	
	38	38.5	.5	VF sandstone, poor sorted/well grade, gray to light pink w/ 1	ninor presenc	e of dark lithics,	friable	Y	✓ N	
	40	45	5	SP, Medium-graded fine sands with fine caliche gravel,	dry, little pla	sticity, pinkish	brown	Y	✓ N	s ( 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
Ţ		1						Y	N	
4. HYDROGEOLOGIC LOG OF WELL								Y	Ν	
OF			2 e <sup>2</sup>					Y	N	
DO		5.8	-11 - 11 - 11 - 11 - 11 - 11 - 11 - 11					Y	N	
ICI			10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					Y	N	
LOC		1					-	Y	N	14
GEO								Y	N	
ROC								Y	N	
НУЪ			1.6					Y	N	
4							1	Y	N	
			2					Y	N	
				- 4 <sup>1</sup> - 92				Y	N	
					¥ <sup>2</sup>			Y	N	
			18 s	1.				Y	N	
					19			Y	N	
	3							Y	N	
	METHOD U	SED TO ES	STIMATE YIELD	OF WATER-BEARING STRATA:	N.			LESTIN		
	<b>PUMF</b>		IR LIFT	BAILER OTHER – SPECIFY:			WELI	L YIELL	<b>)</b> (gpm):	
NO	WELL TEST			ACH A COPY OF DATA COLLECTED DURING ME, AND A TABLE SHOWING DISCHARGE A						
TEST; RIG SUPERVISION	MISCELLAN	NEOUS INF	FORMATION:	n nga mengha tang mangkatakan kara mangkatan di sebah menanan kara mengharan pertakan sebah mengharan pertakan Sebah pertakan sebah mengharan pertakan sebah mengharan pertakan sebah mengharan pertakan sebah mengharan pertak						
PER										
INS :						171-			in wou	541 A.C.
RIC						1-1	11- 1213	1.1.1.1	and davide	Contraction of the second s
EST	PRINT NAM	IF(S) OF D	RILL RIG SUPER	RVISOR(S) THAT PROVIDED ONSITE SUPERV	VISION OF	WELL CONS	STRUC	TION O	THER TH	IAN LICENSEE:
5. T	Jesse W Tau					WEELE COIN	, mo e			
	JUSSE W 1du									
URE	CORRECT F	ECORD O	F THE ABOVE I	TES THAT, TO THE BEST OF HIS OR HER KN DESCRIBED HOLE AND THAT HE OR SHE WI DO DAYS AFTER COMPLETION OF WELL DRI	LL FILE T	E AND BELI HIS WELL R	EF, TH ECORI	IE FORI D WITH	GOING THE ST	IS A TRUE AND ATE ENGINEER
SIGNATURE	Robert A	Meyer	Digitally signed by Robert A Mey DN: cn=Robert A Meyer, o=Talo t.td., ou=VP of Drilling, miail=rmeyer@talonlpe.com, c=1 Jate: 2024.05.20 17:16:48 -05'00	JS Robert A Meyer				05/0	3/2024	
6.		G.C.	URE OF DRILLE						DATE	
FOF	OSE INTERI	VAL USE				WR-20 WFI	LREC	ORD &	LOG (Ve	rsion 09/22/2022)
	E NQ. $-4$	-805-	PODA	GUEOZ PODNO. Z		TRN NO.	7:	SSS	597	7
LO	CATION M	10	24.30	1.25.434	WELL	FAG ID NO.	-			PAGE 2 OF 2

Project name:	Plains Endurance 6" Release		Talon LPE				Т	ole des	Hole designation:	SVE2		
Project number:			Jesse Tausch					ate/Tim	Date/Time started:	1630 0	1630 03-13-2024	
Client:	erican							ate/Tim	Date/Time completed:		1715 03-13-2024	
Location:	Rural Jal, NM Weather	(A.M.): Clear (P.M.): Wind	Clear, Low 47° Windy, High 84°				00	Drilling method: GHD supervisor:	Drilling method: GHD supervisor:	Direct Liam G	Direct Push Geoprobe Liam Giersdorf/Rebeccca Pons	cca Pons
	Sample Description				Sample	Sample Details						
Stratigraphic Intervals	Order of descriptors: Soil type symbol(s) - prima secondary components, rei gradation/structure, colour.	ي ا			Pen Re Split Sp	Penetration Record Split Spoon Blows	sw					
(Depths in ft/m BGS)		Sample Number	Sampling Method	(Reco	6" 6"	(Record N-Values & Recoveries)	scoverie N	1	Sample	PID/FID	Chemical	Grain Size/ Other Analysis
		SVE220	Air Rotary				:	-	20-25'	847.8	8015B/8021B	
25' 30'	SC/SW, Well graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent	SVE225	Air Rotary						25-30'	573.9	8015B/8021B	
30' 33'	SC/SW, Well graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent	SVE230	Air Rotary						30-33'	548.9	8015B/8021B	
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			19 Y									
	0											
				-								
	1]] ñ											
	Depth of borehole caving Depth of first groundwater encounter	er encounter			Topsoil thickness	ckness						
and	om 23'-33' in depth, packed	and from TD to to	p of screen, plu	gged wit	1 2' of Be	entonite,	grouted	for rema	ining depth	to surface		
Comments								2				

July 2015

Form SP-14

#### Released to Imaging: 6/9/2025 10:04:45 AM



koswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

#### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 755597 File Nbr: C 04805 Well File Nbr: C 04805 POD2

May. 23, 2024

TJ HALEY TALON LPE 921 N. BIVINS ST. AMARILLO, TX 79107

Greetings:

The above numbered permit was issued in your name on 02/28/2024.

The Well Record was received in this office on 05/23/2024, stating that it had been completed on 03/07/2024, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 02/27/2025.

If you have any questions, please feel free to contact us.

Sincerely, Mant Thompson

Maret Thompson (575)622-6521



well Office 1900 WEST SECOND STREET ROSWELL, NM 88201

#### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 755597 File Nbr: C 04805 Well File Nbr: C 04805 POD2

May. 23, 2024

KAROLANNE HUDGENS PLAINS ALL AMERICAN PIPELINE 1106 GRIFFITH DR. MIDLAND, TX 79706

Greetings:

The above numbered permit was issued in your name on 02/28/2024.

The Well Record was received in this office on 05/23/2024, stating that it had been completed on 03/07/2024, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 02/27/2025.

If you have any questions, please feel free to contact us.

Sincerely,

Maret Thompson (575)622-6521

PAGE 1 OF 2

WELL TAG ID NO.



# WELL RECORD & LOG

OCC DIT MAY 23 2024 PKO:45

## OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

NOL	OSE POD NO POD3 (OV	V01)			WELL TAG ID NO	).		OSE FILE NO( C-4805					
OCAT	WELL OWN							PHONE (OPTI	ONAL)				
GENERAL AND WELL LOCATION	WELL OWN PO Box 46		G ADDRESS					CITY Houston			STATE TX	ZIP 77002	
AND	WELL	N		EGREES 32	MINUTES 10	SECON 53.6		* ACCURACY	REQUIRE	D: ONE TEN	TH OF A SECOND		
NERAI	(FROM GP	S)	ATITUDE DNGITUDE	-103	25	17.0		* DATUM REC					
1. GE	DESCRIPTION Sec 25, T24		NG WELL LOCATION TO	) STREET ADDR	ESS AND COMMO	N LANDMA	RKS – PLS	SS (SECTION, TO	WNSHJIP, I	RANGE) WH	ERE AVAILABLE		
	LICENSE NO WD-1		NAME OF LICENSED		Robert A Meyer	r			NAME O		ILLING COMPANY alon/LPE, Ltd.		
	DRILLING S <sup>2</sup> 03/13/		DRILLING ENDED 03/13/2024	DEPTH OF COM	MPLETED WELL (F 50	T)	BORE HO	LE DEPTH (FT) 50	DEPTH	WATER FIR	ST ENCOUNTERED N/A	(FT)	
N	COMPLETEI	O WELL IS:	ARTESIAN *add Centralizer info be		E SHALLO	DW (UNCON	FINED)		I WATER LE PLETED WI		N/A DATE STATIC MEASUR N/A		
ATIO	DRILLING FI	LUID:	AIR	MUD	ADDITIV	VES – SPECI	FY:						
ORM	DRILLING M	ETHOD:	ROTARY HAMM	MER 🗌 CABL	E TOOL 🔽 OTH	IER – SPECI	FY: H	Hollow Stem A	ollow Stem Auger CHECK HE INSTALLEI			ADAPTER IS	
DRILLING & CASING INFORMATION	DEPTH FROM	DEPTH (feet bgl) BORE HOLE FROM TO DIAM (inches)			(include each casing string, and			ASING NECTION TYPE	IECTION INSIDE DIAM. YPE (inches)		CASING WAI THICKNESS (inches)	J DLOI	
¢ CA	0	25	6	note sections of screen) (add coupl			Riser	diameter)		0.25			
FING &	25	45	6		Sch 40 PVC		S	Screen		2"	0.25	0.010	
DRIL												1	
2.										- A			
							1.5				2		
				5									
	DEPTH	(feet hal)		LIST ANNU	LAR SEAL MATE	RIAL AND	GRAVE	L PACK SIZE-		MOUNT			
AL	FROM	TO	BORE HOLE DIAM. (inches)	*(if using Cen	RANGE E tralizers for Artes	BY INTERV ian wells- ir		e spacing below)		ubic feet)		HOD OF CEMENT	
FERI	0	23	6			Cement I/			Sec. 2.	30.03	Т	remie	
MAT	23	25	6		3/8" Hydr	10 N	nite	191		2.61		remie	
ANNULAR MATERIAL	25	50	6		Sili	ca Sand				32.64	Т	remie	
NNN													
3. A	-									2			
	0.000									-		0.00.0000	
	$OSE INTER E NO. / \sim$		- 2023 (	Desoi	POD NO	D. 3		TRN N			LOG (Version ( 597	<i>J9(22/2022)</i>	

<b>Released to Imaging: 6/9/2025 10:04:45</b> AM	Released to	• Imaging:	6/9/2025	10:04:45 AM
--	-------------	------------	----------	-------------

LOCATION

on 24.34.25.434

	DEPTH (f	TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL INCLUDE WATER-BEARING CAVITIES (attach supplemental sheets to fully	OR FRACTURE ZONE	s	WA BEAR (YES	ING?	ESTIMATED YIELD FOR WATER- BEARING
ŀ	0	20	20	No Sample			Y		ZONES (gpm)
H	20	25	5	SC/SW, Well graded sands with caliche gravel, loose, reddi	sh brown slightly moist offer	vaccant	Y	✓ N	
H	25	30	5	SC/SW, Well graded sands with caliche gravel, loose, reddi			Y	✓ N	
F	30	35	5	SC/SW, Well graded sands with caliche gravel, loose, reddi	, , , , ,		Y	✓ N	- 20-
	35	40	5	SC/SW, Well graded sands with caliche gravel, loose, reddi			Y	✓ N	
	40	40	5	SC/SW, Well graded sands with caliche gravel, ver			Y	✓ N	1.2.2
4. HYDROGEOLOGIC LOG OF WELL	45	50	5	SC/SW, Well graded sands with caliche gravel, ver			Y	✓ N	
	45	50	5	SC/SW, wen graded sailds with canche gravel, ver	y loose, brown, dry, enerv	escent	Y	N	
							Y	N	
		<u><u>s</u>i</u>					Y	N	
							Y		
		11					Y	N	
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-							Y	N	
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-							Y	N	1
+							Y	N	Real Contemport
+							Y	N	
	PUMP	10		OF WATER-BEARING STRATA: BAILER OTHER – SPECIFY:			L ESTIM YIELD		
	WELL TEST	TEST	RESULTS - ATT Γ TIME, END TI	ACH A COPY OF DATA COLLECTED DURIN ME, AND A TABLE SHOWING DISCHARGE A	G WELL TESTING, INC ND DRAWDOWN OVI	CLUDING	G DISCI TESTIN	HARGE N G PERIC	METHOD, )D.
	MISCELLAN	EOUS INF	ORMATION:		0:	ic on i	MAY 2	3 2024	.¤x();4()
F	PRINT NAM	E(S) OF DE	RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERV	ISION OF WELL CON	STRUCT	TION OT	THER TH	IAN LICENSEE
	Jesse W Taus					STREET			
	CORRECT R	ECORD O	F THE ABOVE I	IES THAT, TO THE BEST OF HIS OR HER KN DESCRIBED HOLE AND THAT HE OR SHE W 0 DAYS AFTER COMPLETION OF WELL DRI	ILL FILE THIS WELL H				
0. SIGNALUKE	Robert A	Meyer	igitally signed by Robert A Mey N: cn=Robert A Meyer, o=Talor td., ou=VP of Drilling, nail=rmeyer@talonlpe.com, c=t ate: 2024.05.20 17:15:56 -05'00	Robert A Meyer			05/03	/2024	
		SIGNAT	JRE OF DRILLE	R / PRINT SIGNEE NAME				DATE	
-								1	
FOR	OSE INTERN	AL USE			WR-20 WF.	LL RECC	)RD & I	LOG (Vei	rsion 09/22/2022

Project name:     Plains Endurance 6" F       Project number:     12632476       Client:     12632476       Client:     Plains All American       Location:     Rural Jal, NM       Stratigraphic     Soil type symbol(s) - Intervals       Intervals     Soil type symbol(s) - secondary compone       Intervals     Soil type symbol(s) - soil type symbol(s)	'Release       Drilling cont         'Release       Driller:         Sample Description       Surface elev         'Reather       Surface elev         Sample Description       Weather         'Rs:       Surface elev         'Primary component(s), (nature of deposit),       Weather         'ents, relative density(consistency, grain size/plasticity,       .         etermination requires the addition of moisture if the       .         oroll (indicate til moisture was added or not).       .         ded sands with caliche gravel, loose, reddish brown,       .         slightly moist, effervescent       .         ded sands with caliche gravel, loose, reddish brown,       .         slightly moist, effervescent       .         ded sands with caliche gravel, loose, reddish brown,       .         slightly moist, effervescent       .         ded sands with caliche gravel, loose, reddish brown,       .         slightly moist, effervescent       .         ded sands with caliche gravel, loose, reddish brown,       .         slightly moist, effervescent       .         ded sands with caliche gravel, loose, reddish brown,       .         slightly moist, effervescent       .         ded sands with caliche gravel, loose, reddish brown,	Talon L Jesse J Jesse 3363' 3363' Mindy, Mindy,		Sample Details		Hole designation: Date/Time started:	Hole designation: Date/Time started: Date/Time completed:	OW1 0930 03-13-2024 1100 03-13-2024	-13-2024	
atigraphic Intervals is in ft/m BGS) At To 25' 30' 40' 45' 50'	Sample Description scriptors: mbol(s) - primary component(s), (nature of deposit), components, relative density/consistency, grain size/plasticity, ructure, colour, moisture content, supplementary descriptors. city determination requires the addition of moisture if the o dry to roll (Indicate if moisture was added or not). dell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent dell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent dell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent dell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent dell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent dell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent		1	Sample		Date/ I ime compl Drilling method: GHD supervisor:	thod: visor:	Hollow S Liam Gie	1100 03-13-2024 Hollow Stem Auger Liam Giersdorf/Rebeccca Pons	cca Pons
atigraphic Intervals Intervals At To 25' 30' 40' 45' 50'	scriptors: mbol(s) - primary component(s), (nature of deposit), components, relative density/consistency, grain size/plasticity, ructure, colour, moisture content, supplementary descriptors. city determination requires the addition of moisture if the o dry to roll (indicate if moisture was added or not). fell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent dell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent dell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent dell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent dell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent dell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent		A 8 1 -		Details					
s in ft/m BGS) At To 25' 35' 40' 45' 50'	ructure, colour, moisture content, supplementary descriptors. city determination requires the addition of moisture if the o dry to roll (indicate if moisture was added or not). dell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent dell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent dell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent dell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent dell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent dell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent			Penetration Record Solit Snoon Blows	tration ord					
At To 25' 30' 35' 40' 45' 50'	city determination requires the addition of moisture if the o dry to roll (indicate if moisture was added or not). fell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent fell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent fell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent dell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent dell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent dell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent	-	L	(Record N-Values & Recoveries)	s & Recover					
26' 26' 30' 40' 45' 56'	Vell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent Vell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent Vell graded sands with caliche gravel, loose, reddish brown, vell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent Vell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent dell graded sands with caliche gravel, very loose, brown, dry, effervesce	-	Sampling 6"	6" 6"	6" N	R Int	Sample PI Interval (J	(ppm)	Chemical Analysis	Grain Size/ Other Analysis
30' 35' 40' 45' 50'	Vell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent Vell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent Vell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent slightly moist, effervescent stands with caliche gravel, very loose, brown, dry, effervesce	- -	Air Rotary			5	20-25' 7	794.5		
35: 40' 50'	Vell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent Vell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent ed sands with caliche gravel, very loose, brown, dry, effervesce	- -	Air Rotary			5				
40' 45' 50'	Vell graded sands with caliche gravel, loose, reddish brown, slightly moist, effervescent ed sands with caliche gravel, very loose, brown, dry, effervesce	4	Air Rotary			ň	30-35'	930.3		9 g.
50'	ed sands with caliche gravel, very loose, brown, dry, effervesce	OW135 A	Air Rotary			Ř			8015B/8021B	
50'		OW140 A	Air Rotary			4			8015B/8021B	
	V. Well graded sands with caliche gravel, very loose, brown, dry, effervesce	OW145 A	Air Rotary			4	45-50' 4	422.3 8	8015B/8021B	
					-		-			
							1			
			3							
	0									
	0C (									S.
	177 A. 252 V				-					
	(A)( (									
	Depth of first groui	counter		Topsoil thickness	cness					
and Notes: 2" PVC	Water level in open borenole on completion	from TD to top of	f screen, plugged	1 with 2' of Bent	tonite, grouted	for remain	ing depth to s	surface		
Comments	41. 41. 42.42									
	0									

Form SP-14

July 2015



loo well Office 1900 WEST SECOND STREET ROSWELL, NM 88201

#### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

 Trn Nbr:
 755597

 File Nbr:
 C 04805

 Well File Nbr:
 C 04805 POD3

May. 23, 2024

KAROLANNE HUDGENS PLAINS ALL AMERICAN PIPELINE 1106 GRIFFITH DR. MIDLAND, TX 79706

Greetings:

The above numbered permit was issued in your name on 02/28/2024.

The Well Record was received in this office on 05/23/2024, stating that it had been completed on 03/13/2024, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 02/27/2025.

If you have any questions, please feel free to contact us.

Sincerely,

Maret Thompson (575)622-6521



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

#### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 755597 File Nbr: C 04805 Well File Nbr: C 04805 POD3

May. 23, 2024

TJ HALEY TALON LPE 921 N. BIVINS ST. AMARILLO, TX 79107

Greetings:

The above numbered permit was issued in your name on 02/28/2024.

The Well Record was received in this office on 05/23/2024, stating that it had been completed on 03/13/2024, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

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If you have any questions, please feel free to contact us.

Sincerely,

Maret Thompson (575)622-6521

000 DTI MAY 20 2024 == 0:47



## WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

NO	ose pod no. POD4 (OW		D.)		WELL TAG ID NO			OSE FILE NO(S C-4805	S).				
OCATI	WELL OWNE Plains All A							PHONE (OPTIC	ONAL)				
1. GENERAL AND WELL LOCATION	WELL OWNE PO Box 464		3 ADDRESS					CITY Houston	a de la compañía de la		STAT TX		ZIP 7002
AL AND	WELL LOCATION	LIX	D TITUDE	egrees 32	minutes 10	secon 53.7	2 <sub>N</sub>	* ACCURACY			TH OF .	A SECOND	
NER	(FROM GPS	5) LOI	NGITUDE	-103	25	16.8	9 W	* DATUM REQ	QUIRED: WGS	84			
1. GE	DESCRIPTIO Sec 25, T24		NG WELL LOCATION TO	O STREET ADDR	ESS AND COMMON	I LANDMA	RKS – PLS	SS (SECTION, TO	WNSHJIP, RAN	IGE) WH	ERE A	VAILABLE	
	LICENSE NO.		NAME OF LICENSEI					/	NAME OF W				
	WD-1				Robert A Meyer			10				PE, Ltd.	
	DRILLING ST 03/12/2		DRILLING ENDED 03/12/2024	DEPTH OF CO	MPLETED WELL (F 45	Г)	BORE HO	LE DEPTH (FT) 45	DEPTH WA	TER FIRS		OUNTERED (FT) /A	
N	COMPLETED	WELL IS:	ARTESIAN *add Centralizer info b		e 🗌 Shallo	W (UNCO)	NFINED)		WATER LEVE		/A	DATE STATIC N/	5
VTIO	DRILLING FLUID:     AIR     MUD     ADDITIVES - SPECIFY:       DRILLING METHOD:     ROTARY     HAMMER     CABLE TOOL     OTHER - SPECIFY:												
RM	DRILLING M	THOD:	ROTARY HAM	MER 🗌 CABL	LE TOOL 🔽 OTH	ER – SPEC	IFY: H	Hollow Stem A	Auger	CHECK INSTAL	HERE LED	IF PITLESS ADA	PTER IS
NFO	DEPTH (	feet bgl)	BORE HOLE	CASING	MATERIAL ANI	D/OR	C	ASING	CASIN	G	CA	SING WALL	SLOT
2. DRILLING & CASING INFORMATION	FROM	ТО	DIAM (inches)		GRADE each casing string, sections of screen)		CON	NECTION TYPE ling diameter)	INSIDE D (inches	IAM.		HICKNESS (inches)	SIZE (inches)
& C/	0	25	6		Sch 40 PVC			Riser	2"			0.25	-
SUIC	25	45	6		Sch 40 PVC		S	creen	2"			0.25	0.010
RILI					×								
2. D													
				1									
				1.10							, 		
				LICT AND D	LAD CEAL MATER		CDAVE	DACK SIZE			 		
	DEPTH (	feet bgl)	BORE HOLE	LISTANNU	LAR SEAL MATE RANGE B			L FAUK SIZE-		OUNT		METHO PLACEN	
IAI	FROM	TO	DIAM. (inches)	*(if using Cer	ntralizers for Artesi			e spacing below)	`	c feet)			
TEI	0	23	6			Cement I				.03		Trem	
MA	23	25	6		3/8" Hydra	a Sand	onite			61 .12		Trem	
LAR	25	45	0							.12		Tien	
ANNULAR MATERIAL													
3. A]													
											-	21	
FOR	OSE INTERN	IAL USE					1	WR-20	0 WELL RE	CORD	& LOC	G (Version 09/2	2/2022)

FOR OSE INTERNAL USE			WR-20 WELL RECORD & LOG (V	$/ \operatorname{ersion} (09/22/2022)$
FILE NO. C-4805-20124	POD NO.	4	TRN NO. 755597	7
LOCATION from 2cf.	34.25.434	l l	WELL TAG ID NO.	PAGE 1 OF 2

	DEPTH (fo	eet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL E INCLUDE WATER-BEARING CAVITIES C (attach supplemental sheets to fully d	OR FRACTURE ZONES	5		TER RING? / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (com)
		20	20	N. 6			V		ZONES (gpm)
	0	20	20	No Sample			Y	✓ N	
	20	25	5	SC, Well graded clayey sands with caliche gravel, very loc			Y	✓ N	
	25	30	5	SC, medium graded clayey sands with caliche gravel, very l			Y	✓ N	
	30	35	5	SC, poorly graded clayey sands, very loose, dark r			Y	✓ N	
	35	40	5	SP, poorly graded sands, very loose, reddis		oist	Y	✓ N	
TT	40	45	5	SP, poorly graded sands, very loo	se, brown, dry		Y	✓ N	
WE							Y	N	
OF							Y	N	
LOC		1					Y	N	
4. HYDROGEOLOGIC LOG OF WELL							Y	Ν	
TO					1. 27.1		Y	N	
GEO							Y	N	
ROC						1	Y	N	
<b>UXE</b>				8			Y	N	
4.1	1		3				Y	N	
							Y	N	
							Y	N	
							Y	N	
	9						Y	N	
					1		Y	N	
							Y	N	
	METHODUG			OF WATER-BEARING STRATA:		TOTA	L ESTIN		
				BAILER OTHER – SPECIFY:				(gpm):	
NOI	WELL TEST			ACH A COPY OF DATA COLLECTED DURING ME, AND A TABLE SHOWING DISCHARGE AN					
TEST; RIG SUPERVISIO	MISCELLAN	EOUS INI	FORMATION:						
; RIG S					00	C OII	inen 2	19 2024	PHQ:47
LEST	PRINT NAM	E(S) OF D	RILL RIG SUPEI	RVISOR(S) THAT PROVIDED ONSITE SUPERVI	SION OF WELL CONS	STRUC	TION O	THER TH	IAN LICENSEE:
5.7	Jesse W Taus	sch							
rure	CORRECT R	ECORD O	F THE ABOVE I	FIES THAT, TO THE BEST OF HIS OR HER KNO DESCRIBED HOLE AND THAT HE OR SHE WIL 30 DAYS AFTER COMPLETION OF WELL DRIL	L FILE THIS WELL R	EF, TH ECORI	E FORE O WITH	GOING I THE STA	IS A TRUE AND ATE ENGINEER
6. SIGNATURE	Robert A	Meyer	Digitally signed by Robert A Mey DN: cn=Robert A Meyer, o=Talo Ltd., ou=VP of Drilling, email=rmeyer@talonlpe.com, c= Date: 2024.05.20 17:14:49 -05'00	NDLPE. US Robert A Meyer			05/03	3/2024	24.
		SIGNAT	URE OF DRILLE	ER / PRINT SIGNEE NAME				DATE	
FO	R OSE INTERN	AL USE	(		WR-20 WEI	L REC	ORD &	LOG (Ve	rsion 09/22/2022)
-	E NO. C-4	805-	444	OLDO2 POD NO. 4	TRN NO.	75	555	97	/
LO	CATION A	100	24.3	4.25424	WELL TAG ID NO.	-		-	PAGE 2 OF 2

Project name:	Plains Endurance 6" Release Drilling contractor:		Talon LPE Jesse Tausch			I C	Hole designation:	gnation:	0W2	OW2 0930 03-12-2024	
Client:	American						Date/Time	Date/Time completed:		1430 03-12-2024	
Location:	Weather	(A.M.): Clear (P.M.): Wind	Clear, Low 44° Windy, High 83°			00	Drilling method: GHD supervisor:	ethod: rvisor:		Hollow Stem Auger Liam Giersdorf/Rebeccca Pons	cca Pons
		· 1									
	Sample Description			s	Sample Details	ails					
Stratigraphic	Order of descriptors: Soil type symbol(s) - primary component(s), (nature of deposit),			ć	Penetration Record	u i					
Intervals (Depths in ft/m BGS)				Sp (Record	spirt spoon blows (Record N-Values & Recoveries)	slows Recoverie	(Se				
From At To	Note: Plasticity determination requires the addition of moisture if the sample is too dry to roll (indicate if moisture was added or not).	Sample Number	Sampling Method	6" 6	6" 6	N .9	S T	Sample I Interval	PID/FID (ppm)	Chemical Analvsis	Grain Size/ Other Analvsis
20' 25'	SC, Well graded clayey sands with caliche gravel, very loose, reddish brown, slightly moist		Air Rotary		2.5			20-25'	951		
25' 30'	SC, medium graded clayey sands with caliche gravel, very loose, pinkish brown, slightly most	OW225	Air Rotary					25-30'	1051	8015B/8021B	
30' 35'	SC, poorly graded clayey sands, very loose, dark reddish brown, slightly moist	OW230	Air Rotary					30-35'	935	8015B/8021B	
	SP, poorly graded sands, very loose, reddish brown, slightly moist		Air Rotary					35-40'	569		
	SP. poorly graded sands, very loose, brown, dry	OW240	Air Rotary					40-45'	321	8015B/8021B	
							-				
							-				
								4			
						e p					
	{					1					
	1.7										
	DII		ŝ,							17	-22
					- 			12			
	Depth of first grou	encounter		Top	Topsoil thickness	ss SS			1		
Notes and	Water level in open borehole on completion	d from TD to to	p of screen, plui	gged with 2	' of Bentoni	te, grouted	for remai	ning depth to	surface		
Comments											

Released to Imaging: 6/9/2025 10:04:45 AM

July 2015

Form SP-14

Maj	Major Divisions	ions	Group Symbol	Typical Description
Highl) (see	Highly Organic Soils (see note below)	c Soils elow)	PT	Peat and other highly organic soils
- noitaent e		-	GW	Well graded gravel, gravel-sand mixtures, ≤ 5% fines
		"Clean" Gravels	GP	Poorly graded gravels and gravel-sand mixtures, ≤ 5% fines
əvəis 005 .c	ger than no ger than no	"Dirtv" Gravels	GM	Silty gravels, gravel-sand-silt mixtures, ≥ 15% fines
			CC	Clayey gravels, gravel-sand-clay mixtures, ≥ 15% fines
by weight lar	size size	"Clean" Sands	SW	Well graded sands, gravelly sands, ≲ 5% fines
			SP	Poorly graded sands, or gravelly sands, ≤ 5% fines
	nent han		SM	Silty sands, sand-silt mixtures, ≥ 15% fines
a share 2		UILIY Sanas	SC	Clayey sands, sand-clay mixtures, ≥ 15% fines
	s below	Sitts below "A" line on plasticity	ML	Inorganic silts and very fine sand, rock flour, silty sands of slight plasticity
	ırt; negliç	chart; negligible organic content	ΗW	Inorganic silts, micaceous or diatomaceous, fine sandy or silty soils
ou sassec	/s above	Clays above "A" line on plasticity	CL	Inorganic clays of low to medium plasticity, gravelly, sandy, or silty clays, lean clays
	art; negliç	chart; negligible organic content	СН	Inorganic clays of high plasticity, fat clays
O O	rganic si	Organic silts & organic clays	OL	Organic silts and organic silty clays of low plasticity
	ow "A" lii	below "A" line on plasticity chart	НО	Organic clays of high plasticity

d)	
-	
0	
~	

Use dual symbols for coarse-grained soils if soil is estimated to contain 5% to 15% fines (equals "with").

		Coarse Gravel Fine Gravel		Coarse Sand	Medium Sand	Fine Sand			
Cobbles	Gravel		Sand				Silt	Clay	
±		-clay				velly		es, ≥	

No. 40 (0.42 mm) to No. 200 (0.074 mm) No. 10 (2.0 mm) to No. 40 (0.42 mm)

No. 200 (0.074 mm) to 0.002 mm

Less than 0.002 mm

No. 4 (4.76 mm) to No. 10 (2.0 mm) No. 4 (4.76 mm) to No. 200 (0.074 mm)

3/4 in. to No. 4 (4.76 mm)

# Component Percentage Descriptors (estimate to nearest 5%)

## Major Component Greater than 15% Less than 5% 5% to 15% Frace (e.g., trace silt, trace clay) Adjective (e.g., silty, clayey) With (e.g., with silt, with clay) Noun(s) (e.g., sand, gravel) **Coarse Grained Soils** Fine Grained Soils

Adjective (e.g., sandy, gravelly) Noun(s) (e.g., silt, clay) Frace (e.g., trace sand) With (e.g., with sand) Few (e.g., few sand)

## Less than 5% 15% to 30% 5% to 15%

Major Component Greater than 30%

Moisture

## Dry Moist Wet

Lenses/Seams

Laminated Fissured Stratified

Blocky

Soil Structure Terms

0SE DII MAH 20 2024 mQ:40

Homogeneous

Blows Per Foot

Consistency

Blows Per Foot

**Relative Density** 

Non-Cohesive (Granular) Soil

(N-Value)

Very Soft

Less than 5

Very Loose Compact Loose Dense

Soft

Cohesive (Clayey) Soil

(N-Value)

Greater than 30

Very Stiff

Greater than 50

Very Dense

10 to 29

5 to 9 30 to 50 Hard

Greater than 3 inches (76 mm)

3 in. to No. 4 (4.76 mm)

3 in. to 3/4 in.

Grain Size Classification (based on standard sieve sizes)

5 to 8 0 to 2 3 to 4

Firm

July 2015



vell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

#### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 755597 File Nbr: C 04805 Well File Nbr: C 04805 POD4

May. 23, 2024

KAROLANNE HUDGENS PLAINS ALL AMERICAN PIPELINE 1106 GRIFFITH DR. MIDLAND, TX 79706

Greetings:

The above numbered permit was issued in your name on 02/28/2024.

The Well Record was received in this office on 05/23/2024, stating that it had been completed on 03/12/2024, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 02/27/2025.

If you have any questions, please feel free to contact us.

Sincerely,

Maret Thompson (575)622-6521



ROSWEll Office 1900 WEST SECOND STREET ROSWELL, NM 88201

#### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 755597 File Nbr: C 04805 Well File Nbr: C 04805 POD4

May. 23, 2024

TJ HALEY TALON LPE 921 N. BIVINS ST. AMARILLO, TX 79107

Greetings:

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Sincerely, 0

Maret Thompson (575)622-6521



## WELL RECORD & LOG OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

NO	OSE POD NO SB-1	). (WELL NO	).)		WELL TAG ID NO.			OSE FILE NO(	-40	+2	
OCATI	WELL OWN Concho Re		)		1			PHONE (OPTI	ONAL)		
MELL L	WELL OWN		G ADDRESS , 600 W. Illinios Ave	e.				CITY Midland		STATE TX 79701	ZIP
GENERAL AND WELL LOCATION	WELL LOCATIO		TITUDE	GREES 32	MINUTES 3	SECON 50.2	26 N		REQUIRED: ONE TENT	TH OF A SECOND	
NER	(FROM GF	LO	NGITUDE	103	58	27.					
1. GE	DESCRIPTIO JR's Horz I		ng well location to #006H	STREET ADD	RESS AND COMMON	LANDM	ARKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVAILABLE	
	LICENSE NO WD-1		NAME OF LICENSED	DRILLER	John W. White				NAME OF WELL DRI White D	ILLING COMPANY rilling Company, In	IC.
	DRILLING S 12/20/		DRILLING ENDED 12/20/2017	DEPTH OF CO	OMPLETED WELL (FT	)		le depth (ft) 10.0		ST ENCOUNTERED (F Dry	
NC	COMPLETE	D WELL IS:	ARTESIAN	🖌 DRY HO	LE 🗌 SHALLOV	W (UNCO	NFINED)		STATIC WATER LEV	EL IN COMPLETED V	VELL (FT)
ATIC	DRILLING F	LUID:	✓ AIR	MUD	ADDITIVE	ES – SPEC	CIFY:				
DRM	DRILLING M	METHOD:	✓ ROTARY	HAMME	R CABLE TO	DOL	OTHE	R – SPECIFY:			
& CASING INFORMATION	DEPTH FROM	(feet bgl) TO	BORE HOLE DIAM (inches)	(include	MATERIAL AND GRADE each casing string, a sections of screen)		CON	ASING NECTION TYPE ling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
										and register	
2. DRILLING								1		00	
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2. D										404(35)55 # 1	2
										tu -	66
			2						4		96
L L		(feet bgl)	BORE HOLE DIAM. (inches)		IST ANNULAR SE AVEL PACK SIZE-				AMOUNT (cubic feet)	METH	OD OF T
ANNULAR MATERIAL	FROM 0	TO 10.0	6.0		e 2 Portland Cemt. v				1.96	100	w/Tremmie
IATE		10.0		- 5P			1				
ARN										Protocology	× m
NUL											<u><u> </u></u>
3. ANI										<u> </u>	28
ŝ										w	111
FOR	OSE INTER	RNAL USE	3	1				WR-2	0 WELL RECORD	& LOG (Version 06	5/30/17)
	e no.		1042	2	POD NO	1		TRN	-	7007	
LOC	CATION	Ч.	1-0	dL	5-34	IE-	.36	WELL TAG I	d no.	PAC	E 1 OF 2

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	DEDTU (	Cast hal				5	ESTIMATED
	DEPTH (f	TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONE (attach supplemental sheets to fully describe all units)	s	WATER BEARING? (YES / NO)	YIELD FOR WATER- BEARING ZONES (gpm)
	0.0	1.0	1.0	Caliche w/brown sand		Y 🖌 N	
harry.	1.0	7.0	6.0	Caliche w/limestone		Y 🖌 N	
-21	7.0	10.0	3.0	Brown/red silty sandy shale		Y 🖌 N	
						Y N	
						Y N	
Ţ						Y N	
4. HYDROGEOLOGIC LOG OF WELL						Y N	
OF						Y N	
FOG						Y N	
GIC						Y N	
TO						Y N	
GEC						Y N	
DRO						Y N	
HY						Y N	
4						Y N	
det el						Y N	
						Y N	
						Y N	
×						Y N	
						Y N	
2						Y N	
	METHOD U			OF WATER-BEARING STRATA: BAILER OTHER – SPECIFY:		L ESTIMATED	0.00
N	WELL TES			ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INC ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVI			
5. TEST; RIG SUPERVISION	MISCELLA	VEOUS INF	ORMATION:				
ERV	MISCELLA	NEOUS INF	ORMATION.				
SUP							
RIG							
ST;	DDDITNAN			MICOD (S) THAT BROWNED ONGTE SUBERVICION OF WELL CON	CTDU	TION OTHER TH	IAN LICENSEE.
5. TH			KILL KIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CON	SIRUC	TION OTHER TH	IAN LICENSEE:
A ID	William B. A	Atkins					
IRE	CORRECT F	RECORD O	F THE ABOVE D	IES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELI ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL R 0 DAYS AFTER COMPLETION OF WELL DRILLING:			
SIGNATURE				DATE IN TER COM ELTION OF WELL DRIELING.			
Dig(		N	-	Tales While		Iliplic	/
6.9		HT.				DATE	
	/_	SIGNAT	UKE OF DKILLE	R / PRINT SIGNEE NAME		DATE	
	R OSE INTERI	NAL USE			LL REO	CORD & LOG (Ver	rsion 06/30/2017)
	E NO.	40	4d	POD NO. TRN NO.	0 (	) $S(0)$	$\mathcal{F}$
LOO	CATION	4-1	·6	34534E - 34 Well TAG ID NO.	_		PAGE 2 OF 2

#### **Released to Imaging: 6/9/2025 10:04:45 AM**

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AT SEAL	STATESTATESTATEST	NEW MC		ECORD & LO HE STATE ENGINEEI am.us					2016 JAN 1 8 AM 11	STATE SALA OF MEXIC
ATION	OSE POD NO SB-2 WELL OWNE			WELL TAG ID NO.	1	OSE FILE NO(	7-4	04	20	6 1 1
ELL LOC	Concho Re WELL OWNE One Conch	ER MAILIN	g address , 600 W. Illinios Ave			CITY Midland		STATE TX	79701	ZIP
GENERAL AND WELL LOCATION	WELL LOCATIO (FROM GP	S) LO	TITUDE	32         3         5           103         58         2	0.26 N 7.47 W	* DATUM REC	REQUIRED: ONE T QUIRED: WGS 84			
1. GF	DESCRIPTIC JR's Horz I			STREET ADDRESS AND COMMON LANI	DMARKS – PLS	SS (SECTION, TO		5	2018	Rog
	LICENSE NO WD-1 DRILLING S	.456	NAME OF LICENSED I	DRILLER John W. White DEPTH OF COMPLETED WELL (FT)	BORE HO	LE DEPTH (FT)	NAME OF WELL Whit DEPTH WATER I	e Drilling Co	ompany, Inc.	
N	12/20/	2017	12/20/2017	Image: Depth of completed well (F1)       Image: Depth of completed well (F1) </td <td></td> <td>25.0</td> <td>STATIC WATER I</td> <td>Dry</td> <td></td> <td></td>		25.0	STATIC WATER I	Dry		
RMATIO	DRILLING FI		<ul><li>✓ AIR</li><li>✓ ROTARY</li></ul>	MUD     ADDITIVES - ST       HAMMER     CABLE TOOL		ER – SPECIFY:	1		ŵ	
CASING INFORMATION	DEPTH FROM	(feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CON	ASING NECTION IYPE ling diameter)	CASING INSIDE DIAM (inches)	I. THI	NG WALL CKNESS inches)	SLOT SIZE (inches)
2. DRILLING &							-			
2.						d			1	
CRIAL	DEPTH FROM 0	(feet bgl) TO 25.0	BORE HOLE DIAM. (inches) 6.0	LIST ANNULAR SEAL M GRAVEL PACK SIZE-RAN Type 2 Portland Cemt. w/5%	GE BY INTI	ERVAL	AMOUN (cubic fee 4.90	et)	METHO PLACEN Pump Mix w	<b>MENT</b>
3. ANNULAR MATERIAL					quiva				p AMA W	
FILI	R OSE INTER E NO.	RNAL USI		POD NO. 245-34E-	36	WR-2 TRN WELL TAG I	- qui	20 & LOG ( 50 C	7	60/17) 0 1 OF 2

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	DEPTH (i	feet bgl) TO	THICKNESS (feet)	INCLUDE WATE	D TYPE OF MATERIAL E R-BEARING CAVITIES O plemental sheets to fully do	R FRACTURE ZONE	S	WAT BEARI (YES /	NG?	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
,	0.0	7.0	7.0		Brown sand w/caliche gra	vel		Y	√ N	
	7.0	13.0	6.0		Brown/red silty sandy sha	ale		Y	√ N	
	13.0	25.0	12.0	Molded brov	wn, yellowish brown and red	l silty sandy shale		Y	√ N	
								Y	N	
i (°a)								Y	N	
ц								Y	N	
4. HYDROGEOLOGIC LOG OF WELL								Y	N	
OF V								Y	N	
00					n I			Y	N	
ICL								Y	N	
DOG			•			17). v		Y	N	
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	METHOD U	SED TO E	STIMATE YIELD	OF WATER-BEARIN	G STRATA:			AL ESTIM		
	PUM	P A	AIR LIFT	BAILER	THER – SPECIFY:		WEI	LL YIELD	(gpm):	0.00
NOI	WELL TES	T TEST	RESULTS - ATT TTIME, END TI	ACH A COPY OF DAT ME, AND A TABLE SP	A COLLECTED DURING HOWING DISCHARGE AN	WELL TESTING, IN ID DRAWDOWN OV	CLUDI 'ER TH	NG DISCH E TESTIN	IARGE I G PERIC	METHOD, DD.
ISIA	MISCELLA	NEOUS IN	FORMATION: C	hlorides present in soi	1			1		
5. TEST; RIG SUPERVIS			0.							
G SU										
RIG										
LEST	PRINT NAM	IE(S) OF D	RILL RIG SUPER	RVISOR(S) THAT PRO	VIDED ONSITE SUPERVI	SION OF WELL COM	NSTRU	CTION OT	THER TH	IAN LICENSEE:
5.7	William B.	Atkins								
	THE UNDE	RSIGNED	HEREBY CERTI	FIES THAT, TO THE B	EST OF HIS OR HER KNC	WLEDGE AND BEL	JEF, TH	IE FOREG	OING IS	S A TRUE AND
RE	CORRECT	RECORD C	OF THE ABOVE I	DESCRIBED HOLE AN	ID THAT HE OR SHE WIL PLETION OF WELL DRIL	L FILE THIS WELL	RECOR	D WITH I	THE STA	TE ENGINEER
ATU	AND THE I			20 DATS ATTERCOM	I LETION OF WELE DIGE	LING.				
SIGNATURE		$\langle \rangle$		Jaho	1 No SP		1.1	21.12		
6.5		SIGN			white		11	010	DATE	
		SIGNA	I UKE OF DRILLI	ER / PRINT SIGNEE					DATE	
FO	R OSE INTER	NAL USE			1	WR-20 WI	ELL RE	CORD & I	LOG (Ve	rsion 06/30/2017)
	e no.	-4	042	Oltr	POD NO.	TRN NO.	60	50	) O	<del>†</del>
LO	CATION 🕻	$4 \cdot 1 \cdot$	2	×45-3	1F-36	WELL TAG ID NO	).			PAGE 2 OF 2

#### **APPENDIX K**

#### **APPLICABLE CORRESPONDENCE & FIELD VISIT DOCUMENTATION**



From:	Rodriguez, Stephanie, EMNRD
То:	Matthew Earthman
Cc:	Tompson, Mike, EMNRD
Subject:	[EXTERNAL]RE: Proposed Oil & Gas Treatment Facility - Siting Information
Date:	Wednesday, November 6, 2024 10:45:38 AM
Attachments:	image001.png
	image002.png
	image003.png
	image004.png

Good morning, Matthew,

The New Mexico Mine Registration Program knows of no aggregate operations in Sections 24 and 25, Township 24 South, Range 34 East.

Thank you, Stephanie J. Rodriguez Mining and Minerals Division Manager, Mine Registration and Reporting Program <u>stephanie.rodriguez@emnrd.nm.gov</u> (505) 660-4777 <u>https://www.emnrd.nm.gov/mmd/</u> <u>MMD Online</u> – searchable database

From: Tompson, Mike, EMNRD <Mike.Tompson@emnrd.nm.gov>
Sent: Wednesday, November 6, 2024 10:22 AM
To: Matthew Earthman <matthew.earthman@soudermiller.com>
Cc: Rodriguez, Stephanie, EMNRD <stephanie.rodriguez@emnrd.nm.gov>
Subject: RE: Proposed Oil & Gas Treatment Facility - Siting Information

Hi Matt,

The New Mexico Abandoned Mine Land Program knows of no abandoned mine features in Sections 24 and 25, Township 24 South, Range 34 East.

I am copying Stephanie Rodriguez of the Mine Registration Program within our Division in case she is aware of something that I am not.

Feel free to ask for more clarification or questions.

#### Mike Tompson

Manager - New Mexico Abandoned Mine Land Program Energy, Minerals and Natural Resources Department Mining and Minerals Division 1220 South St. Francis Drive, Santa Fe, NM 87505 Cell: (505) 690-8063 <u>Mike.Tompson@emnrd.nm.gov</u>

From: Matthew Earthman <<u>matthew.earthman@soudermiller.com</u>>
Sent: Wednesday, November 6, 2024 9:55 AM
To: Tompson, Mike, EMNRD <<u>Mike.Tompson@emnrd.nm.gov</u>>

Subject: [EXTERNAL] Proposed Oil & Gas Treatment Facility - Siting Information

You don't often get email from matthew.earthman@soudermiller.com. Learn why this is important

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning Mr. Tompson,

I am working on an NM OCD Surface Waste Management Facility Permit (C-137) for a proposed ~5 acre Oil Treating facility to be located approximately 15 miles northwest of Jal along NM-128. I have attached a google .kmz as well as a vicinity map showing the property outline. Would you be able to provide input on if there could be any potential abandoned or inactive mine sites underlying the facility boundary?

Thank you very much for your help, Matt



Corporate Registrations: AZ Engineering/Geology/Surveying Firm (14070), FL Engineering Firm (34203), ID Engineering/Surveying Firm (C-3564), ND Engineering Firm (28545PE), NV Engineering/Surveying Firm (39303), OK Engineering Firm (8498), SD Surveying Firm (C-7436), TX Engineering Firm (8877), TX Geology Firm (50254), TX Surveying Firm (10162200), WA Engineering Firm (24003108), WY Engineering/Surveying Firm (S-1704)

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Site Reconnaissance         Project Name:       Job:         Client Name:       Date:         Project Address:       Date:         Latitude (N):       Longitude (W):         Adjoining Properties
Client Name:       Date:       U 10 124         Project Address:
Project Address:
Latitude (N):     Longitude (W):       Adjoining Properties     Longitude (W):
Adjoining Properties
North: Undeveloped
South: Undeveloped
Fast Delayar Garay Services Markey SWDI
East: Delavere Guergy Services Mostau SWD1 West: Saferry Weste, North Reach, Striker 4 Surry facility
Interviews (use additional interview pages)
□ Owner: □ Manager: □ Occupant: □ Other:
<b><u>Operations on Property</u></b> ( $X$ Undeveloped, $\Box$ Vacant; $P=\underline{P}rimary$ use, $S=\underline{S}econdary$ use, $R=\underline{P}revious$ use)
Agriculture (farm/ranch) Paper mill Tannery Printing / printing supplies
Petroleum storage     Dump or landfill     Metal finishing / fabricating Metal plating
Electronics fabrication/repair
Chemical manufacturing, distribution or storage Wood preservative / treatment facilities
Desticide insecticide manufacturing/bulk storage Dulk transport tank (vehicular or rail car) repair
Other/Notes:
General Observations (check all that apply)
□ Unusual / noxious odors □ Dust / smoke □ Discolored / unusual smelling water
Railroad tracks or spurs   Trails / dead end roads   Excessive noise from operations
Topography Surface features: A believe a see & Slerich
Surface features: Nadive gress + Shrub
Surface water (arroyo, creek, stream, pond, stock tank, irrigation, etc.): X none
Drainage (directions, disposition/outlet): Indeterminant Slope document to
us shears
Backfill / soil storage, mounding or piles / pits (drainage or dumping): 🔟 none
Regional Geology Local soils:  not observable
Local hydrology: Anot observed/observable
2021.08.30 Site Reconnaissance

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

CONDITIONS

Operator:	OGRID:
Moonshine Energy, LLC	332360
5006 PORTICO WAY	Action Number:
Midland, TX 79707	472054
	Action Type:
	[C-137] Non-Fee SWMF Submittal (SWMF NON-FEE SUBMITTAL)

#### CONDITIONS

Create By	d Condition	Condition Date
lbarr	None	6/9/2025

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