

From: [Mitch Killough](#)
To: [Smith, Cory, EMNRD](#)
Cc: [Enviro, OCD, EMNRD](#); [Adeloye, Abiodun A](#); [Hencmann, Devin](#); [Hyde, Stuart](#)
Subject: [EXTERNAL] Hilcorp - Mansfield #11 Project Update - NCS1913741281
Date: Wednesday, October 20, 2021 7:53:37 AM
Attachments: [2021 1015 NM3-003 C-137EZ Hilcorp Energy Company Mansfield #11N Small Landfarm registration approval.pdf](#)
[Form C-137 Mansfield #11 Small Landfarm Registration-ALL.pdf](#)

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Cory,

Hilcorp Energy Company is providing the Aztec District Office with the approved Small Landfarm Registration, to be used for remediation of soils originating from the Mansfield #11 site. Specifically, petroleum-impacted soil from the Mansfield #11 site will be landfarmed on the active Mansfield #11N well pad, located approximately 900 feet north. The small landfarm will be operated in accordance with the applicable requirements of 19.15.36.16 NMAC and the conditions of approval outlined in the attached approval document.

Please feel free to call or email with any questions or comments at this time.

Sincerely,

Mitch Killough

Environmental Specialist
Hilcorp Energy Company
1111 Travis Street
Houston, TX 77002
713-757-5247 (office)
281-851-2338 (cell)
mkillough@hilcorp.com

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State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor

Sarah Cottrell Propst
Cabinet Secretary

Todd E. Leahy, JD, PhD
Deputy Secretary

Adrienne Sandoval
Director, Oil Conservation Division



October 15, 2021

Mr. Mitch Killough
Hilcorp Energy Company
1111 Travis Street
Houston, Texas 77002

**RE: Small Registered Landfarm Approval
Hilcorp Energy Company
NM3-003 - Mansfield #11N Landfarm
NESW of Section 29, Township 30 North, Range 9 West, NMPM
San Juan County, New Mexico**

Mr. Killough:

The Oil Conservation Division (OCD) has completed its review of Hilcorp Energy Company's (Hilcorp) registration application dated September 13, 2012 to construct and operate a small registered landfarm, referred to as Mansfield #11N, for the remediation of petroleum hydrocarbon-contaminated soils (excluding drill cuttings). The OCD hereby approves Hilcorp to construct and operate the registered small landfarm. Mansfield #11N, in compliance with the applicable requirements of 19.15.36.16 NMAC and with the following understanding and conditions:

- Hilcorp has proposed an area of 1.2 acres for their landfarm facility. The 1.2 acres shall incorporate the required landfarm cell berming to prevent rainwater run-on and run-off and *a single lift of eight inches or less* (approximately 1000 cubic yards per acre per eight-inch lift), as required of 19.15.36.7.A(5) NMAC; and
- Hilcorp shall achieve the following closure performance standards within three years from the registration date or shall remove landfarmed soils that have not or cannot be remediated to a division-approved surface waste management facility:
 - benzene, as determined by EPA SW-846 method 8021 B or 8260B, shall not exceed 0.2 mg/kg (per 19.15.36.16.E(1)(a) NMAC);
 - Total BTEX, as determined by EPA SW-846 method 8021 B or 8260B, shall not exceed 50 mg/kg (per 19.15.36.16.E(1)(b) NMAC);

- TPH, as determined by EPA SW-846 method 418.1 or the sum of GRO/DRO/MRO by EPA SW-846 method 8015M, shall not exceed 100 mg/kg (per Table I of 19.15.29.12 NMAC);
- the GRO and DRO combined fraction, as determined by EPA SW-846 method 8015M, shall not exceed 500 mg/kg (per 19.15.36.16.E(1)(c) NMAC); and
- chlorides, as determined by EPA method 300.1, shall not exceed 500 mg/kg (per 19.15.36.16.E(1)(d) NMAC).

If there are any questions, please do not hesitate to contact me at (505) 469-7486 or brad.a.jones@state.nm.us.

Respectfully,

A handwritten signature in blue ink, appearing to read 'Brad A. Jones', with a stylized flourish at the end.

Brad A. Jones
Environmental Specialist

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

For State Use Only:
Registration #

Form C-137 EZ
Revised August 1, 2011

Submit 1 Copy to Santa Fe Office

REGISTRATION/ FINAL CLOSURE REPORT FOR SMALL LANDFARM

Section 7 of 19.15.36 NMAC defines a small landfarm as a centralized landfarm of two acres or less that has a total capacity of 2000 cubic yards or less in a single lift of eight inches or less, remains active for a maximum of three years from the date of its registration and that receives only petroleum hydrocarbon-contaminated soils (excluding drill cuttings) that are exempt or non-hazardous waste. The operator shall operate only one active small landfarm per governmental section at any time.

GENERAL INFORMATION

1. ☒ Small Landfarm Registration ☐ Small Landfarm Final Closure Report*
(*Must be submitted within three years from the registration date)

2. Operator: Hilcorp Energy Company

Address: 1111 Travis Street, Houston, TX 77002

Contact Person: Mitch Killough

Phone: 713-757-5247

3. Location: NE /4 SW /4 Section 29 Township 30N Range 9W

REGISTRATION

1. As operator, are you the surface estate owner of the proposed site? ☐ Yes ☒ No If no, please attach a certification statement that demonstrates a written agreement is established with the surface estate owner authorizing the use of the site for the proposed small landfarm.

2. Will the proposed small landfarm comply with the siting requirements of Subsections A and B of 19.15.36.13 NMAC?
☒ Yes ☐ No

A. Depth to ground water.

- No small landfarm shall be located where ground water is less than 50 feet below the lowest elevation at which the operator will place oil field waste.

B. No surface waste management facility shall be located:

- within 200 feet of a watercourse, lakebed, sinkhole or playa lake;
- within an existing wellhead protection area or 100-year floodplain;
- within, or within 500 feet of, a wetland;
- within the area overlying a subsurface mine;
- within 500 feet from the nearest permanent residence, school, hospital, institution or church in existence at the time of initial application; or
- within an unstable area, unless the operator demonstrates that engineering measures have been incorporated into the surface waste management facility design to ensure that the surface waste management facility's integrity will not be compromised.

3. Attach a plat and topographic map showing the small landfarm's location in relation to governmental surveys (quarter-quarter section, township and range); highways or roads giving access to the small landfarm site; watercourses; fresh water sources, including wells and springs; oil and gas wells or other production facilities; and inhabited buildings within one mile of the site's perimeter.

Based on the information provided with this submittal, registration of a small landfarm can only be granted if the operator complies with the following understandings and conditions:

- The operator shall operate only one active small landfarm per governmental section at any time. No small landfarm shall be located more than one mile from the operator's nearest oil or gas well or other production facility.
- The operator shall accept only exempt or non-hazardous wastes consisting of soils (excluding drill cuttings) generated as a result of accidental releases from production operations, that are predominantly contaminated by petroleum hydrocarbons, do not contain free liquids, would pass the paint filter test and where testing shows chloride concentrations are 500 mg/kg or below.
- The operator shall berm the landfarm to prevent rainwater run-on and run-off.
- The operator shall post a sign at the site readable from a distance of 50 feet and listing the operator's name; small landfarm registration number; location by unit letter, section, township and range; expiration date; and an emergency contact telephone number.
- The operator shall spread and disk contaminated soils in a single eight inch or less lift within 72 hours of receipt. The operator shall conduct treatment zone monitoring to ensure that the TPH concentration, as determined by EPA SW-846 method 8015M or EPA method 418.1 or other EPA method approved by the division, does not exceed 2500 mg/kg; and that the chloride

concentration, as determined by EPA method 300.1, does not exceed 500 mg/kg. The operator shall treat soils by disking at least once a month and by watering and adding bioremediation enhancing materials when needed.

- The operator shall maintain records reflecting the generator, the location of origin, the volume and type of oil field waste, the date of acceptance and the hauling company for each load of oil field waste received. The division shall post on its website each small landfarm's location, operator and registration date. In addition, the operator shall maintain records of the small landfarm's remediation activities in a form readily accessible for division inspection. The operator shall maintain all records for five years following the small landfarm's closure.

- The operator shall submit a final closure report on a form C-137 EZ, together with photographs of the closed site, to the environmental bureau in the division's Santa Fe office.

CERTIFICATION

I hereby certify that the information submitted with this registration is true, accurate and complete to the best of my knowledge and belief and agree to the understandings and conditions of this registration.

Name: Mitch Killough

Title: Environmental Specialist

Signature: 

Date: 9/13/2021

E-mail Address: mkillough@hilcorp.com

OCD REGISTRATION: ☒ Approved. Date : October 15, 2021 ☐ Denied. Date: _____

Comments: Please see the attached approval letter with conditions.

OCD Representative Signature: 

Title: Environmental Specialist

OCD Registration Number: NM3-003

FINAL CLOSURE REPORT

Were the landfarmed soils able to achieve the closure performance standards, listed below, within three years from the registration date? ☐ Yes ☐ No (Please provide laboratory analytical results)

- benzene, as determined by EPA SW-846 method 8021 B or 8260B, shall not exceed 0.2 mg/kg;
- Total BTEX, as determined by EPA SW-846 method 8021 B or 8260B, shall not exceed 50 mg/kg;
- TPH, as determined by EPA SW-846 method 418.1 or other EPA method approved by the division, shall not exceed 2500 mg/kg; the GRO and DRO combined fraction, as determined by EPA SW-846 method 8015M, shall not exceed 500 mg/kg; and
- chlorides, as determined by EPA method 300.1, shall not exceed 500 mg/kg.

If yes, were the additional closure requirements listed below satisfied? ☐ Yes ☐ No (Please provide photos)

- The operator shall re-vegetate soils remediated to the closure performance standards if left in place in accordance with Paragraph (6) of Subsection A of 19.15.36.18 NMAC.
- If the operator returns remediated soils to the original site, or with division permission, recycles them, re-vegetate the cell filled in with native soil to the standards in Paragraph (6) of Subsection A of 19.15.36.18 NMAC;
- The operator shall remove berms on the small landfarm and buildings, fences, roads and equipment; and
- The operator shall clean up the site and collect one vadose zone soil sample from three to five feet below the middle of the treatment zone, or in an area where liquids may have collected due to rainfall events; the vadose zone soil sample shall be collected and analyzed using the methods specified above for TPH, BTEX and chlorides.

If no, were the landfarmed soils that have not or cannot be remediated to the closure performance standards within three years removed to a division-approved surface waste management facility, and the cell filled in with native soil to the standards in Paragraph (6) of Subsection A of 19.15.36.18 NMAC and re-vegetated? ☐ Yes ☐ No (Please provide photos)

CERTIFICATION

I hereby certify that the information submitted with this final closure report is true, accurate and complete to the best of my knowledge and belief.

Name: _____

Title: _____

Signature: _____

Date: _____

E-mail Address: _____

OCD CLOSURE REVIEW: ☐ Closure Approved. Date : _____ ☐ Closure Denied. Date: _____

Comments: _____

OCD Representative Signature: _____

Title: _____ **OCD Registration Number:** _____

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

For State Use Only:
Registration #

Form C-137 EZ
Revised August 1, 2011

Submit 1 Copy to Santa Fe Office

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GENERAL INFORMATION

1. ☒ Small Landfarm Registration ☐ Small Landfarm Final Closure Report*
(*Must be submitted within three years from the registration date)

2. Operator: Hilcorp Energy Company

Address: 1111 Travis Street, Houston, TX 77002

Contact Person: Mitch Killough

Phone: 713-757-5247

3. Location: NE /4 SW /4 Section 29 Township 30N Range 9W

REGISTRATION

1. As operator, are you the surface estate owner of the proposed site? ☐ Yes ☒ No If no, please attach a certification statement that demonstrates a written agreement is established with the surface estate owner authorizing the use of the site for the proposed small landfarm.

2. Will the proposed small landfarm comply with the siting requirements of Subsections A and B of 19.15.36.13 NMAC?
☒ Yes ☐ No

A. Depth to ground water.

- No small landfarm shall be located where ground water is less than 50 feet below the lowest elevation at which the operator will place oil field waste.

B. No surface waste management facility shall be located:

- within 200 feet of a watercourse, lakebed, sinkhole or playa lake;
- within an existing wellhead protection area or 100-year floodplain;
- within, or within 500 feet of, a wetland;
- within the area overlying a subsurface mine;
- within 500 feet from the nearest permanent residence, school, hospital, institution or church in existence at the time of initial application; or
- within an unstable area, unless the operator demonstrates that engineering measures have been incorporated into the surface waste management facility design to ensure that the surface waste management facility's integrity will not be compromised.

3. Attach a plat and topographic map showing the small landfarm's location in relation to governmental surveys (quarter-quarter section, township and range); highways or roads giving access to the small landfarm site; watercourses; fresh water sources, including wells and springs; oil and gas wells or other production facilities; and inhabited buildings within one mile of the site's perimeter.

Based on the information provided with this submittal, registration of a small landfarm can only be granted if the operator complies with the following understandings and conditions:

- The operator shall operate only one active small landfarm per governmental section at any time. No small landfarm shall be located more than one mile from the operator's nearest oil or gas well or other production facility.
- The operator shall accept only exempt or non-hazardous wastes consisting of soils (excluding drill cuttings) generated as a result of accidental releases from production operations, that are predominantly contaminated by petroleum hydrocarbons, do not contain free liquids, would pass the paint filter test and where testing shows chloride concentrations are 500 mg/kg or below.
- The operator shall berm the landfarm to prevent rainwater run-on and run-off.
- The operator shall post a sign at the site readable from a distance of 50 feet and listing the operator's name; small landfarm registration number; location by unit letter, section, township and range; expiration date; and an emergency contact telephone number.
- The operator shall spread and disk contaminated soils in a single eight inch or less lift within 72 hours of receipt. The operator shall conduct treatment zone monitoring to ensure that the TPH concentration, as determined by EPA SW-846 method 8015M or EPA method 418.1 or other EPA method approved by the division, does not exceed 2500 mg/kg; and that the chloride

concentration, as determined by EPA method 300.1, does not exceed 500 mg/kg. The operator shall treat soils by disking at least once a month and by watering and adding bioremediation enhancing materials when needed.

- The operator shall maintain records reflecting the generator, the location of origin, the volume and type of oil field waste, the date of acceptance and the hauling company for each load of oil field waste received. The division shall post on its website each small landfarm's location, operator and registration date. In addition, the operator shall maintain records of the small landfarm's remediation activities in a form readily accessible for division inspection. The operator shall maintain all records for five years following the small landfarm's closure.


- The operator shall submit a final closure report on a form C-137 EZ, together with photographs of the closed site, to the environmental bureau in the division's Santa Fe office.

CERTIFICATION

I hereby certify that the information submitted with this registration is true, accurate and complete to the best of my knowledge and belief and agree to the understandings and conditions of this registration.

Name: Mitch Killough

Title: Environmental Specialist

Signature: 

Date: 9/13/2021

E-mail Address: mkillough@hilcorp.com

OCD REGISTRATION: ☐ Approved. Date : _____ ☐ Denied. Date: _____

Comments: _____

OCD Representative Signature: _____

Title: _____ **OCD Registration Number:** _____

FINAL CLOSURE REPORT

Were the landfarmed soils able to achieve the closure performance standards, listed below, within three years from the registration date? ☐ Yes ☐ No (Please provide laboratory analytical results)

- benzene, as determined by EPA SW-846 method 8021 B or 8260B, shall not exceed 0.2 mg/kg;
- Total BTEX, as determined by EPA SW-846 method 8021 B or 8260B, shall not exceed 50 mg/kg;
- TPH, as determined by EPA SW-846 method 418.1 or other EPA method approved by the division, shall not exceed 2500 mg/kg; the GRO and DRO combined fraction, as determined by EPA SW-846 method 8015M, shall not exceed 500 mg/kg; and
- chlorides, as determined by EPA method 300.1, shall not exceed 500 mg/kg.

If yes, were the additional closure requirements listed below satisfied? ☐ Yes ☐ No (Please provide photos)

- The operator shall re-vegetate soils remediated to the closure performance standards if left in place in accordance with Paragraph (6) of Subsection A of 19.15.36.18 NMAC.
- If the operator returns remediated soils to the original site, or with division permission, recycles them, re-vegetate the cell filled in with native soil to the standards in Paragraph (6) of Subsection A of 19.15.36.18 NMAC;
- The operator shall remove berms on the small landfarm and buildings, fences, roads and equipment; and
- The operator shall clean up the site and collect one vadose zone soil sample from three to five feet below the middle of the treatment zone, or in an area where liquids may have collected due to rainfall events; the vadose zone soil sample shall be collected and analyzed using the methods specified above for TPH, BTEX and chlorides.

If no, were the landfarmed soils that have not or cannot be remediated to the closure performance standards within three years removed to a division-approved surface waste management facility, and the cell filled in with native soil to the standards in Paragraph (6) of Subsection A of 19.15.36.18 NMAC and re-vegetated? ☐ Yes ☐ No (Please provide photos)

CERTIFICATION

I hereby certify that the information submitted with this final closure report is true, accurate and complete to the best of my knowledge and belief.

Name: _____

Title: _____

Signature: _____

Date: _____

E-mail Address: _____

OCD CLOSURE REVIEW: ☐ Closure Approved. Date : _____ ☐ Closure Denied. Date: _____

Comments: _____

OCD Representative Signature: _____

Title: _____ **OCD Registration Number:** _____

NMAC SURFACE WASTE MANAGEMENT FACILITIES SITING CRITERIA**SUMMARY INFORMATION SHEET****19.15.13 NMAC & 19.15.2 NMAC****WSP USA Inc.**848 East Second Avenue
Durango, Colorado 81301
T 970-385-1096**GENERAL INFORMATION**Operator: Hilcorp Energy Company
Site Name: Mansfield #11N
Latitude: 36.78040
Section: 29
Township: 30 N
Site Elevation: 6040.12 feetDate: 3/29/2021
Prepared By: Stuart Hyde
Longitude: -107.80726
Section Unit: K
Range: 9W**GENERAL SITING CRITERIA****Yes/No Figure Reference****Within 200 feet of a watercourse, lakebed, sinkhole or playa lake?**

Nearest watercourse is an unnamed dry wash, second-order tributary of the San Juan River approximately 738 feet southwest of the proposed facility location. No watercourses, lakebeds, sinkholes, or playa lakes are located within 200 feet of the proposed landfarm boundaries according to United States Geological Survey (USGS).

No

Figures 1 & 2

Is the location within a 100-year flood plain?

The proposed location is not within the 100-year or 500-year flood plain as indicated by the "Zone X" designation on Figure 3 and the attached FEMA Panel. As shown on the Panel, the site is specifically located in the unshaded, or no screen, "Zone X - Area of minimal flood hazard", further defined as an area "determined to be outside the 500-year flood and protected by levee from 100-year flood".

No

Figure 3

Within, or within 500 feet of a wetland?

The nearest map feature is a Riverine approximately 738 feet southwest of the site. Features identified as "riverine" by the United States Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) are not within 500 feet of the proposed facility.

No

Figure 4

Within the area overlying a subsurface mine?

Closest subsurface mine is 17.4 miles to the West. Mike Tompson with the EMNRD Mining & Minerals Division was contacted on August 13, 2020 to confirm that The New Mexico Abandoned Mine Land Program has no record of underground mines in this area. Email contact is included in this packet.

No

Figure 5

Within 500 feet from the nearest permanent residence, school, hospital, institution or church?

Closest residence is 1.3 miles to the SE. Updated field verification by Eric Carroll of LTE on September 10, 2020.

Eric Carroll

No

Figure 6

Located within an unstable area susceptible to natural or human-induced events or forces capable of impairing the division-approved facility's structural components?

Closest karst geologic environment is ~46 miles to the North. In addition, data provided by the USGS indicates that there are no known faults or seismic activity in the area of the Site (within the boundaries of the map provided in Figure 7).

No

Figure 7

Within an existing wellhead protection area?

The proposed waste management facility is not located within 200 horizontal feet of a private, domestic fresh water well or spring used by <5 households for domestic or stock watering purpose, or within 1,000 horizontal feet any other fresh water well or spring. Wells SJ04353 PODs 1 through 5 depicted on Figure 9 are classified as "monitoring wells" that have been installed to monitor groundwater conditions at the Mansfield #11N remediation site. These wells do not have associated water rights and are not intended for irrigation, domestic, livestock, or any other use.

No

Figure 8

Estimated Depth to Groundwater:

>100

Justification:

Figure 9

Distance to Closest water well with groundwater data:

866 feet, southeast

Well Name:

SJ 4353 POD 1

Wellhead Elevation:

5923 feet

Depth to groundwater:

15.12 feet

Groundwater Elevation:

5907.88 feet

Elevation difference between groundwater elevation of nearest well and proposed small landfarm location:

132.24 feet

Additional Comments: Water well SJ 4353 POD 1 has a depth to water of approximately 15 feet, but is located approximately 117 feet lower in elevation than the proposed site. Therefore the anticipated depth to groundwater at the site is greater than 100 feet. Refer to Figure 9.

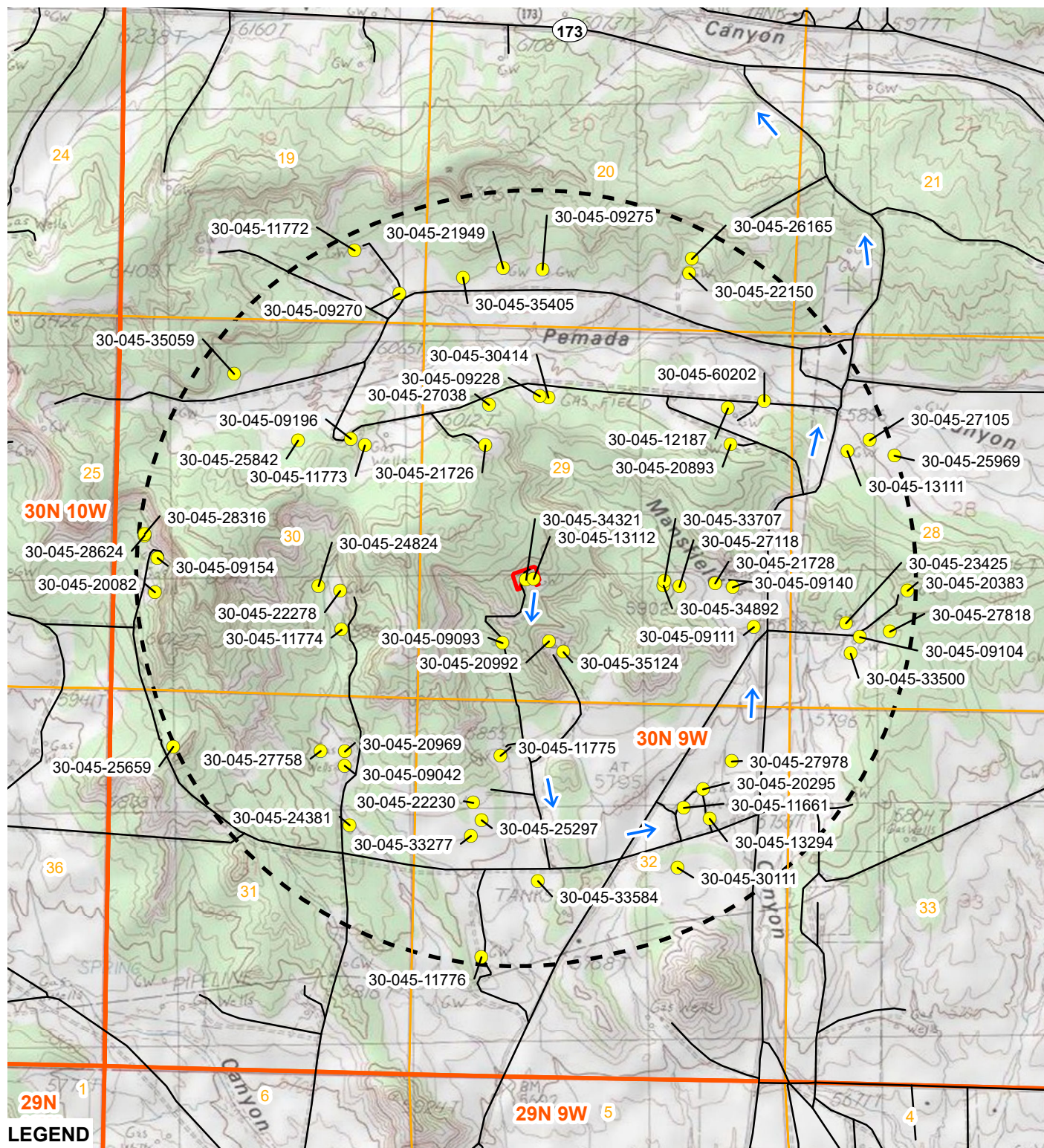


IMAGE COURTESY OF ESRI/USGS

LEGEND



OIL AND GAS WELLHEAD (API)



ROUTE TO NEAREST MAJOR ROAD

ROAD



PROPOSED SMALL LANDFARM BOUNDARY



1 MILE RADIUS

HIGHWAY 173 IS THE NEAREST MAJOR ROAD IN PROXIMITY TO THE SITE AND IS LOCATED APPROXIMATELY 3.54 MILES TO THE NORTHEAST.

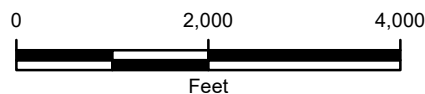


FIGURE 1
SITE MAP
MANSFIELD #11N
NESW SEC 29 T30N R9W
SAN JUAN COUNTY, NEW MEXICO
HILCORP ENERGY COMPANY



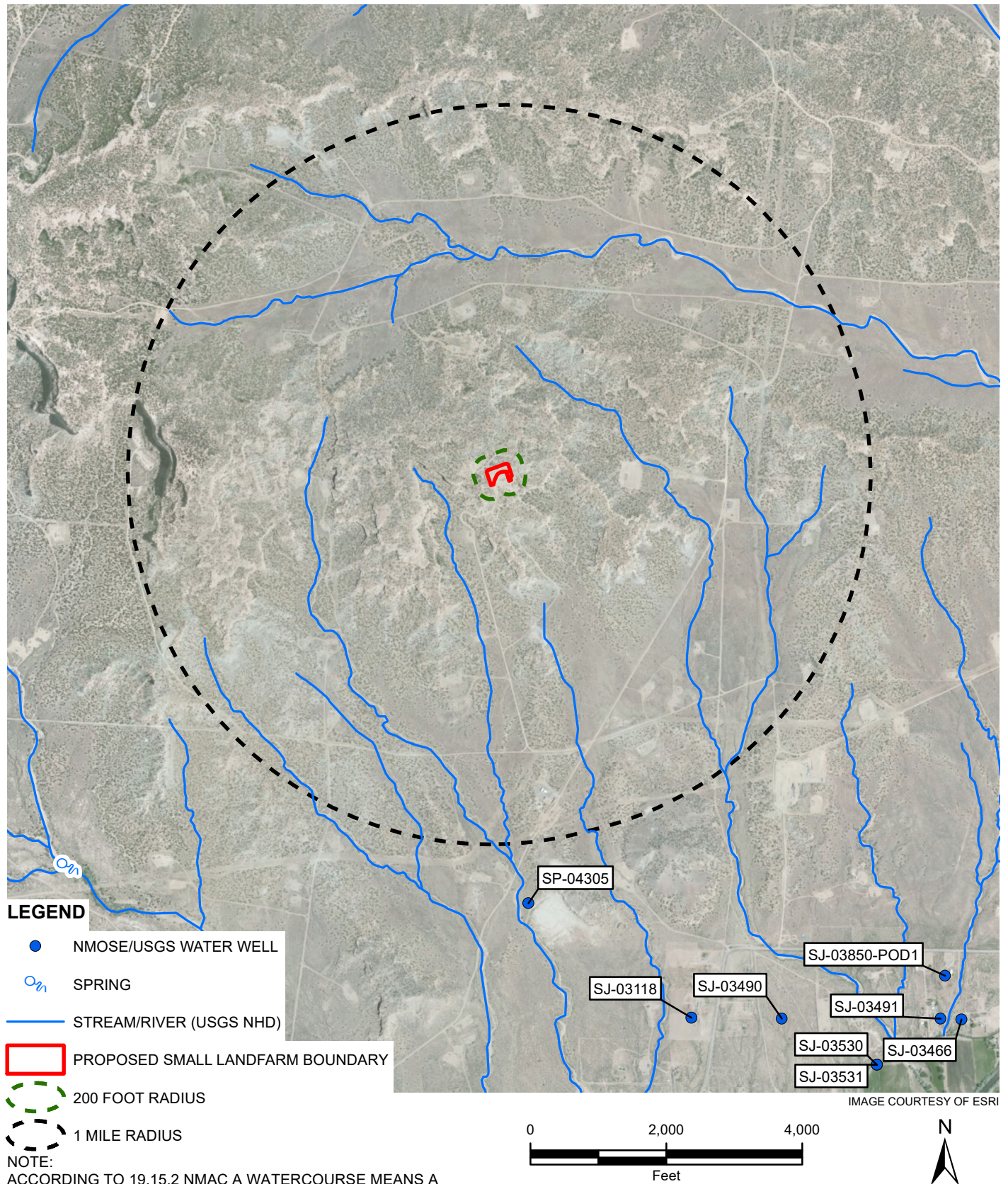
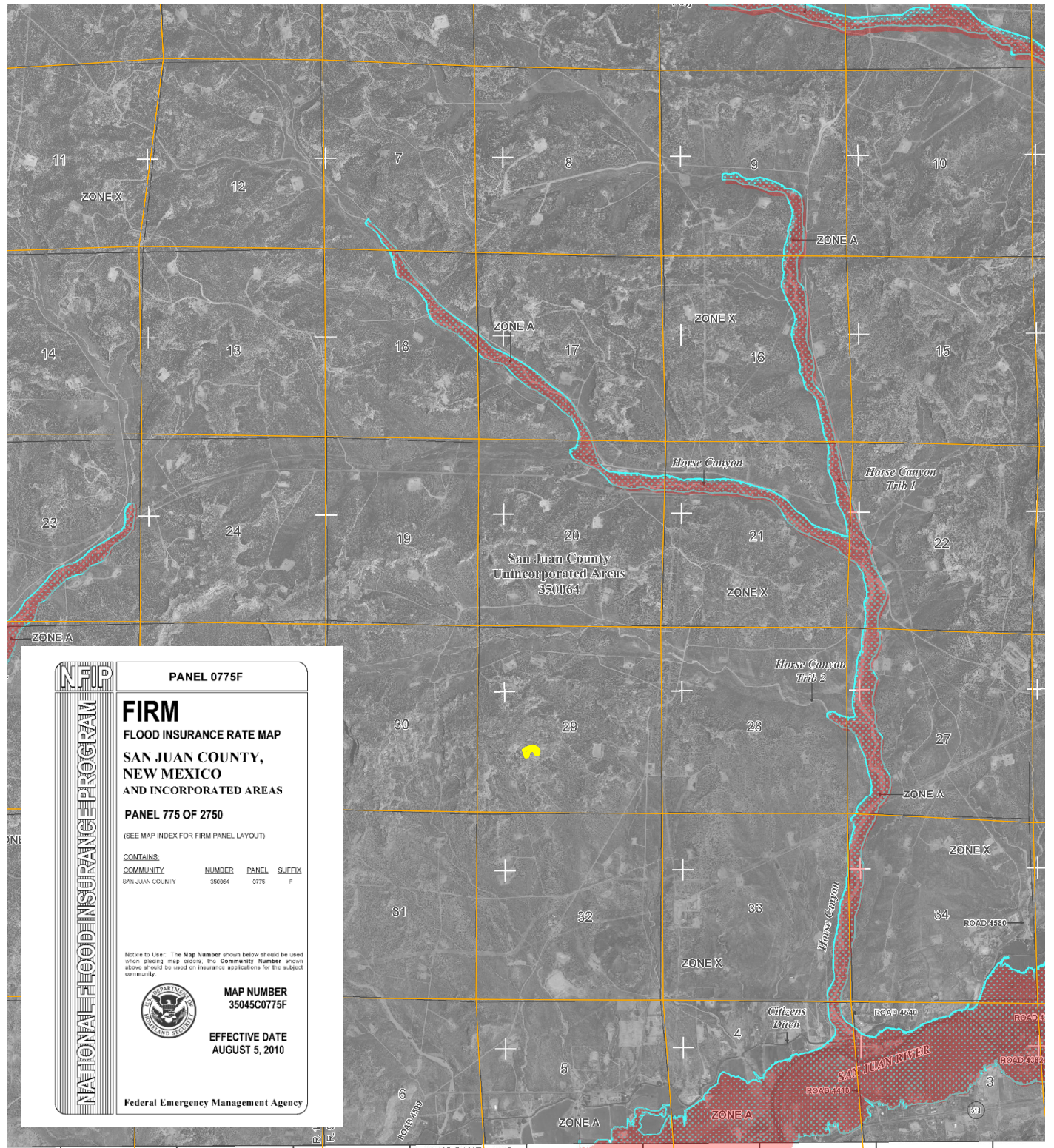


FIGURE 2
 PROXIMITY TO WATERCOURSE, LAKEBED,
 SINKHOLE, OR PLAYA LAKE
 MANSFIELD #11N
 NESW SEC 29 T30N R9W
 SAN JUAN COUNTY, NEW MEXICO
 HILCORP ENERGY COMPANY





NIP
NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0775F

FIRM

FLOOD INSURANCE RATE MAP
SAN JUAN COUNTY,
NEW MEXICO
AND INCORPORATED AREAS

PANEL 775 OF 2750

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS

COMMUNITY	NUMBER	PANEL	SUFFIX
SAN JUAN COUNTY	35064	0775	F

Notice to User: The Map Number shown below should be used when placing map orders. The Community Number shown above should be used on insurance applications for the subject community.



MAP NUMBER
35045C0775F

EFFECTIVE DATE
AUGUST 5, 2010

Federal Emergency Management Agency

LEGEND

PROPOSED SMALL LANDFARM BOUNDARY

FEMA FLOOD ZONE CLASSIFICATION

FLOODWAY

NOTE:
SITE IS WITHIN AN AREA OF MINIMAL
FLOOD HAZARD DEFINED BY THE FEDERAL
EMERGENCY MANAGEMENT AGENCY (FEMA).
SOURCE: FEMA FLOOD MAP NUMBER 35045C0775F/ZONE X

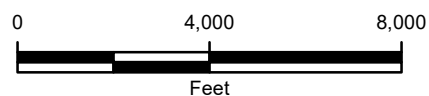
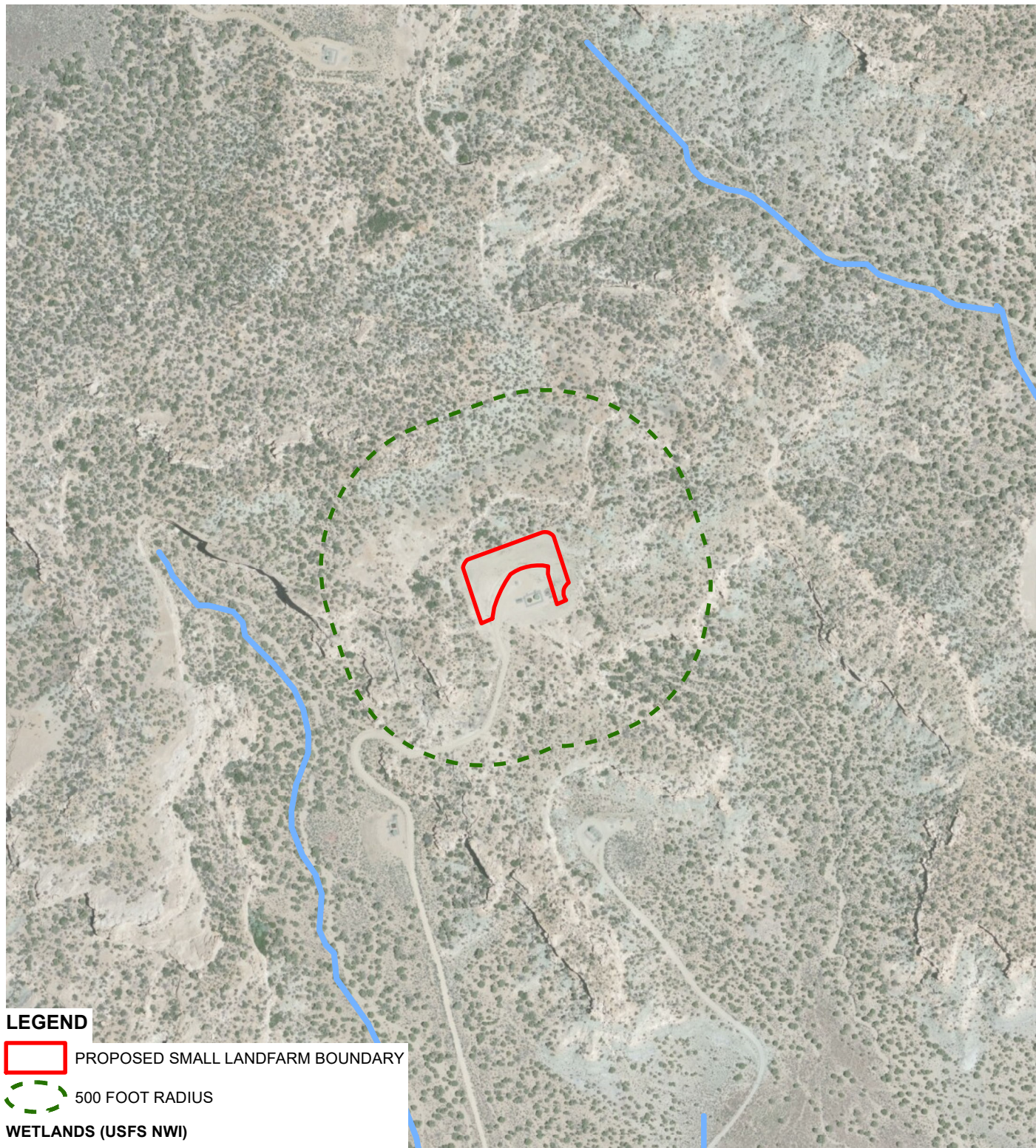


FIGURE 3
PROXIMITY TO 100 YEAR FLOODPLAIN
MANSFIELD #11N
NESW SEC 29 T30N R9W
SAN JUAN COUNTY, NEW MEXICO
HILCORP ENERGY COMPANY





LEGEND

PROPOSED SMALL LANDFARM BOUNDARY

500 FOOT RADIUS

WETLANDS (USFS NWI)

RIVERS AND STREAMS; RIVERINE (R4SBC)

IMAGE COURTESY OF ESRI

NOTE:
ACCORDING TO 19.15.2 NMAC A WETLAND MEANS ANY AREAS THAT ARE INUNDATED OR SATURATED BY SURFACE OR GROUND WATER AT A FREQUENCY AND DURATION TO SUPPORT, AND UNDER NORMAL CIRCUMSTANCES DO SUPPORT A PREVALENCE OF VEGETATION TYPICALLY ADAPTED FOR LIFE IN SATURATED SOILS IN NEW MEXICO.

NMAC: NEW MEXICO ADMINISTRATIVE CODE
NWI: NATIONAL WETLAND INVENTORY
USFS: UNITED STATES FISH AND WILDLIFE SERVICE

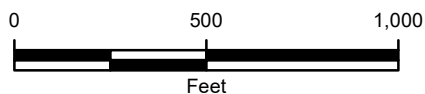


FIGURE 4
PROXIMITY TO WETLANDS
MANSFIELD #11N
NESW SEC 29 T30N R9W
SAN JUAN COUNTY, NEW MEXICO
HILCORP ENERGY COMPANY



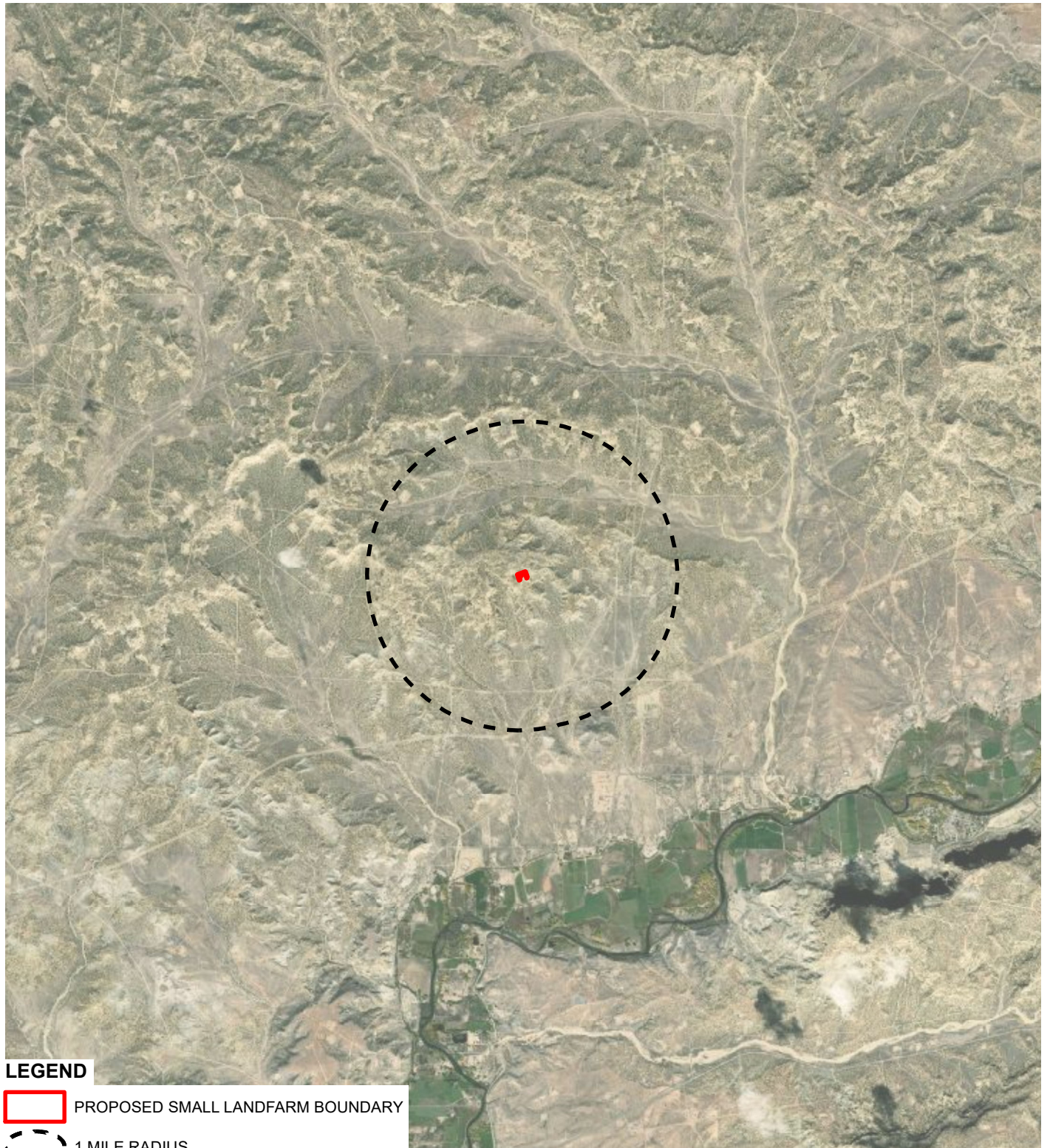


IMAGE COURTESY OF ESRI

LEGEND

- PROPOSED SMALL LANDFARM BOUNDARY
- 1 MILE RADIUS

NOTE:
THERE ARE NO SURFACE MINES OR SUBSURFACE COAL MINES WITHIN THE BOUNDARIES OF THIS MAP ACCORDING TO DATA PROVIDED BY NMEMNRD AND EIA.

MIKE THOMPSON WITH THE NMEMNRD MINING & MINERALS DIVISION WAS CONTACTED TO CONFIRM THAT THE NEW MEXICO ABANDONED MINE LAND PROGRAM HAS NO RECORD OF UNDERGROUND MINES IN THIS AREA

EIA: ENERGY INFORMATION ADMINISTRATION
NMEMNRD: NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

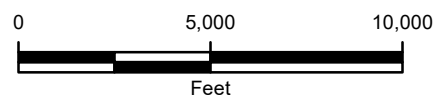
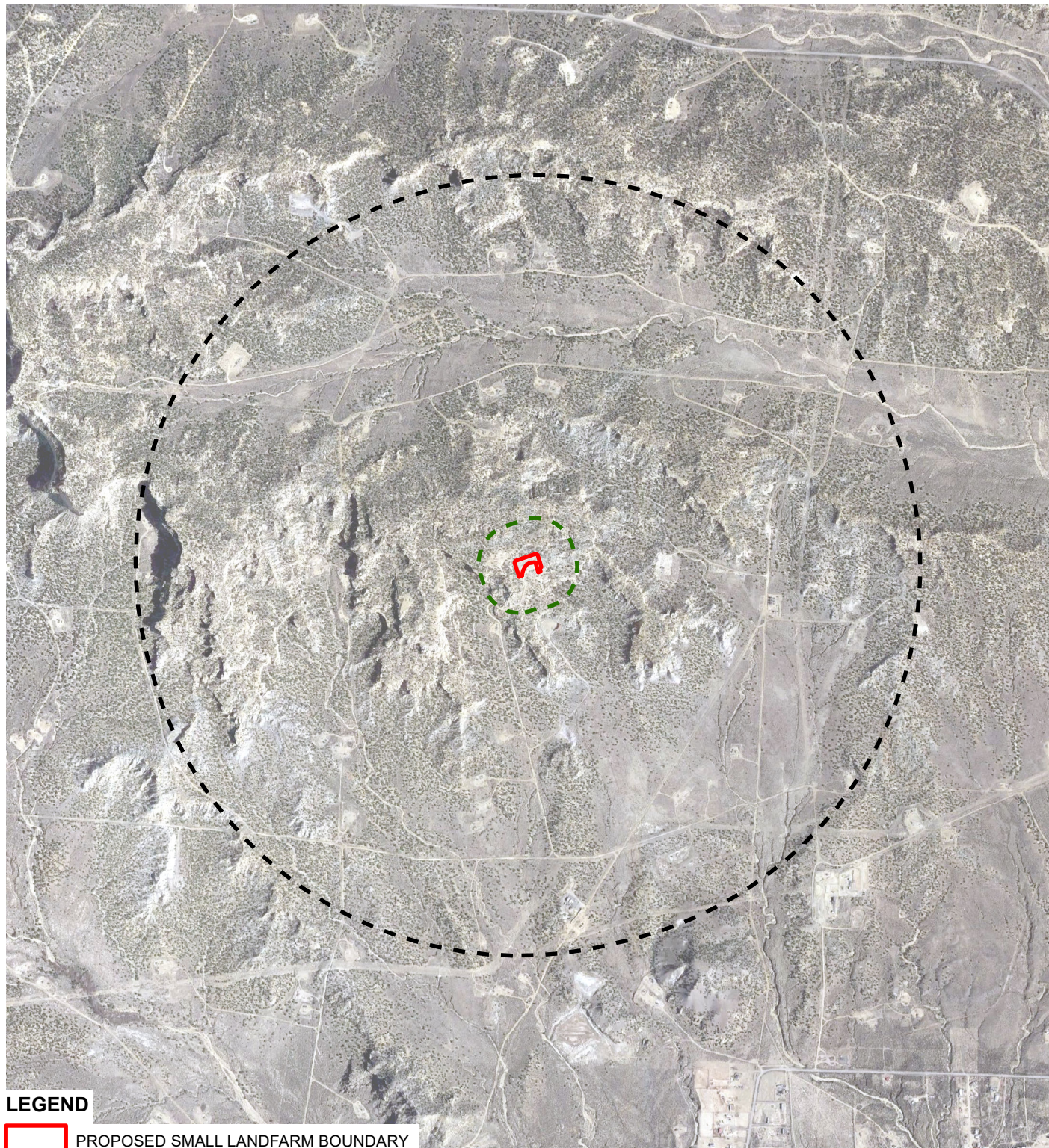



FIGURE 5
PROXIMITY TO SUBSURFACE MINE
MANSFIELD #11N
NESW SEC 29 T30N R9W
SAN JUAN COUNTY, NEW MEXICO
HILCORP ENERGY COMPANY





LEGEND

 PROPOSED SMALL LANDFARM BOUNDARY

 500 FOOT RADIUS

 1 MILE RADIUS

NOTE:

FIELD VERIFICATION PERFORMED BY
ERIC CARROLL (WSP) ON SEPTEMBER 10, 2020.

SITE IS NOT WITHIN 500 FEET OF ANY
SITES INTENDED FOR HUMAN OCCUPANCY (SIHO).
AERIAL AND SATELLITE IMAGERY
INTERPRETATION FOR SIHO LOCATIONS WERE
CONDUCTED USING GOOGLE EARTH IMAGERY
ACQUIRED IN 2020.

Eric Carroll

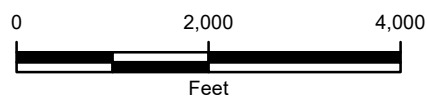


FIGURE 6
PROXIMITY TO PERMANENT RESIDENCE, SCHOOL,
HOSPITAL, INSTITUTION, OR CHURCH
MANSFIELD #11N
NESW SEC 29 T30N R9W
SAN JUAN COUNTY, NEW MEXICO
HILCORP ENERGY COMPANY

wsp

Josh Adams

From: Tompson, Mike, EMNRD <Mike.Tompson@state.nm.us>
Sent: Wednesday, August 12, 2020 10:12 AM
To: Josh Adams
Cc: Devin Hencmann
Subject: RE: Question about abandoned mines

Hi Josh,

That appears to be Section 29, Township 30 North, Range 9 West. The New Mexico Abandoned Mine Land Program has no record of abandoned mines in that Section.

Please let me know if you have any further questions.

Mike Tompson

New Mexico Energy, Minerals and Natural Resources Department
Mining and Minerals Division
Manager, Abandoned Mine Land Program
1220 South St. Francis Drive
Santa Fe NM 87505
(505) 690-8063 [cell]
www.NMMines.com
[MMD Online](#) – Searchable Mine Database

From: Josh Adams <jadams@ltenv.com>
Sent: Tuesday, August 11, 2020 3:58 PM
To: Tompson, Mike, EMNRD <Mike.Tompson@state.nm.us>
Cc: Devin Hencmann <dhenemann@ltenv.com>
Subject: [EXT] Question about abandoned mines

Mike,

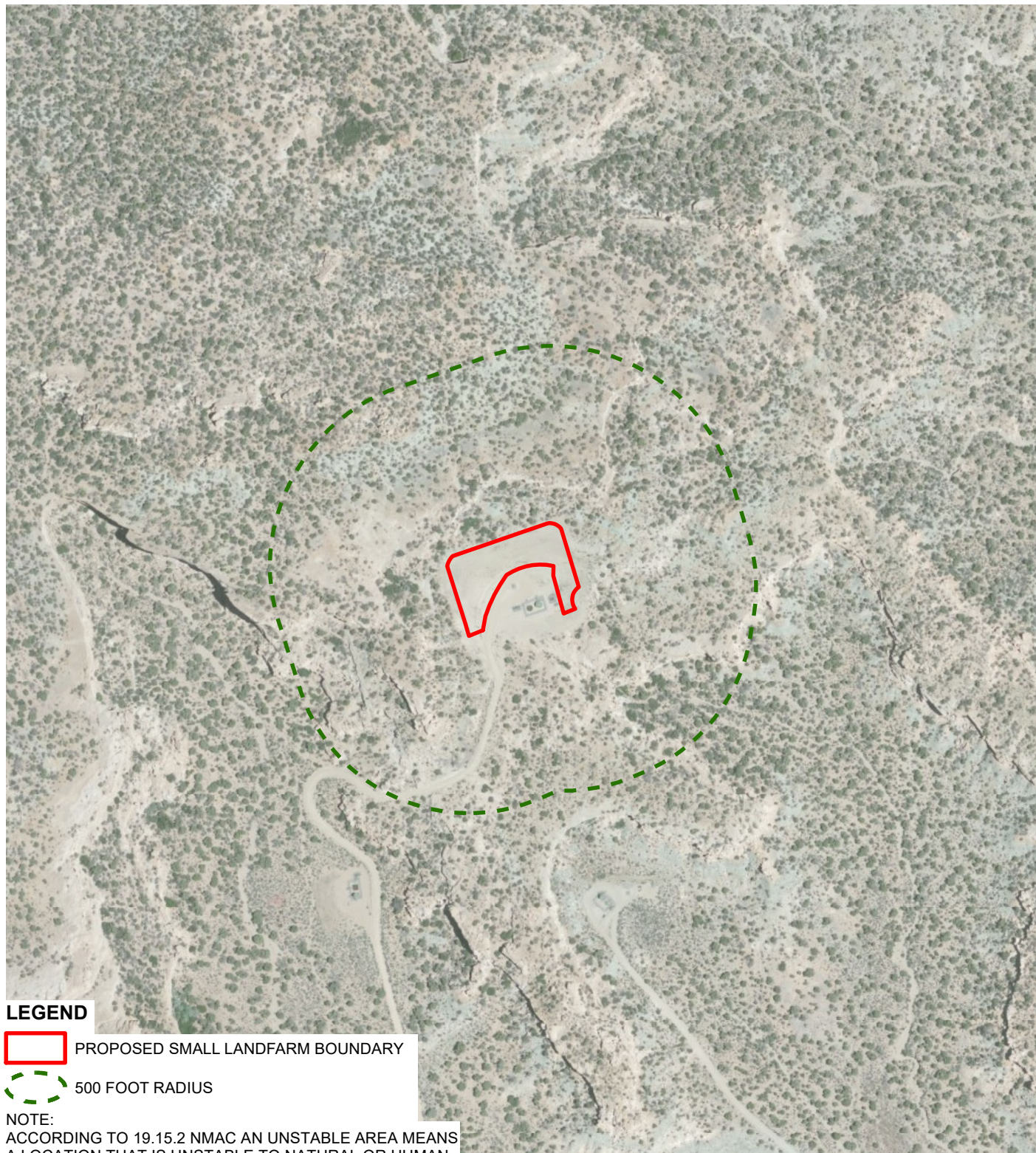
I am currently working on citing criteria for a new proposed facility for one of my clients and we have been asked to get in contact with you to confirm that there are no abandoned mines at the proposed location. I believe you have spoken to some of my colleagues about a similar task in the past. The coordinates for the facility are latitude 36.780400, longitude -107.807260 in San Juan County, NM between Aztec and Turley. Can you please respond and confirm that there are no abandoned mines at this location? Thank you, your help is much appreciated.



Joshua G. Adams, G.I.T.
Staff Geologist
970.456.5750 *cell*
970.385.1096 *direct*
848 East Second Avenue Durango, CO 81301
www.ltenv.com



Think before you print. [Click for our email disclosure.](#)



LEGEND

- PROPOSED SMALL LANDFARM BOUNDARY
- 500 FOOT RADIUS

NOTE:
 ACCORDING TO 19.15.2 NMAC AN UNSTABLE AREA MEANS
 A LOCATION THAT IS UNSTABLE TO NATURAL OR HUMAN-
 INDUCED EVENTS OR FORCES CAPABLE OF IMPAIRING
 THE DIVISION-APPROVED FACILITY'S STRUCTURAL
 COMPONENTS.

SITE RESIDES WITHIN THE USGS NACIMIENTO GEOLOGIC
 FORMATION WHICH EXHIBITS MEDIUM-GRAINED, MIXED
 CLASTIC MATERIAL AND IS NOT ASSOCIATED WITH KARST
 GEOLOGIC ENVIRONMENT. THERE ARE NO FAULTS WITHIN
 THE BOUNDARIES OF THIS MAP AND NO KNOWN SEISMIC
 ACTIVITY ACCORDING TO DATA PROVIDED BY THE USGS.

NMAC: NEW MEXICO ADMINISTRATIVE CODE
 USGS: USGS: UNITED STATES GEOLOGICAL SURVEY

IMAGE COURTESY OF ESRI

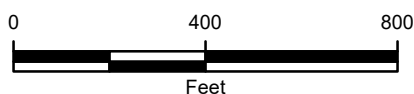
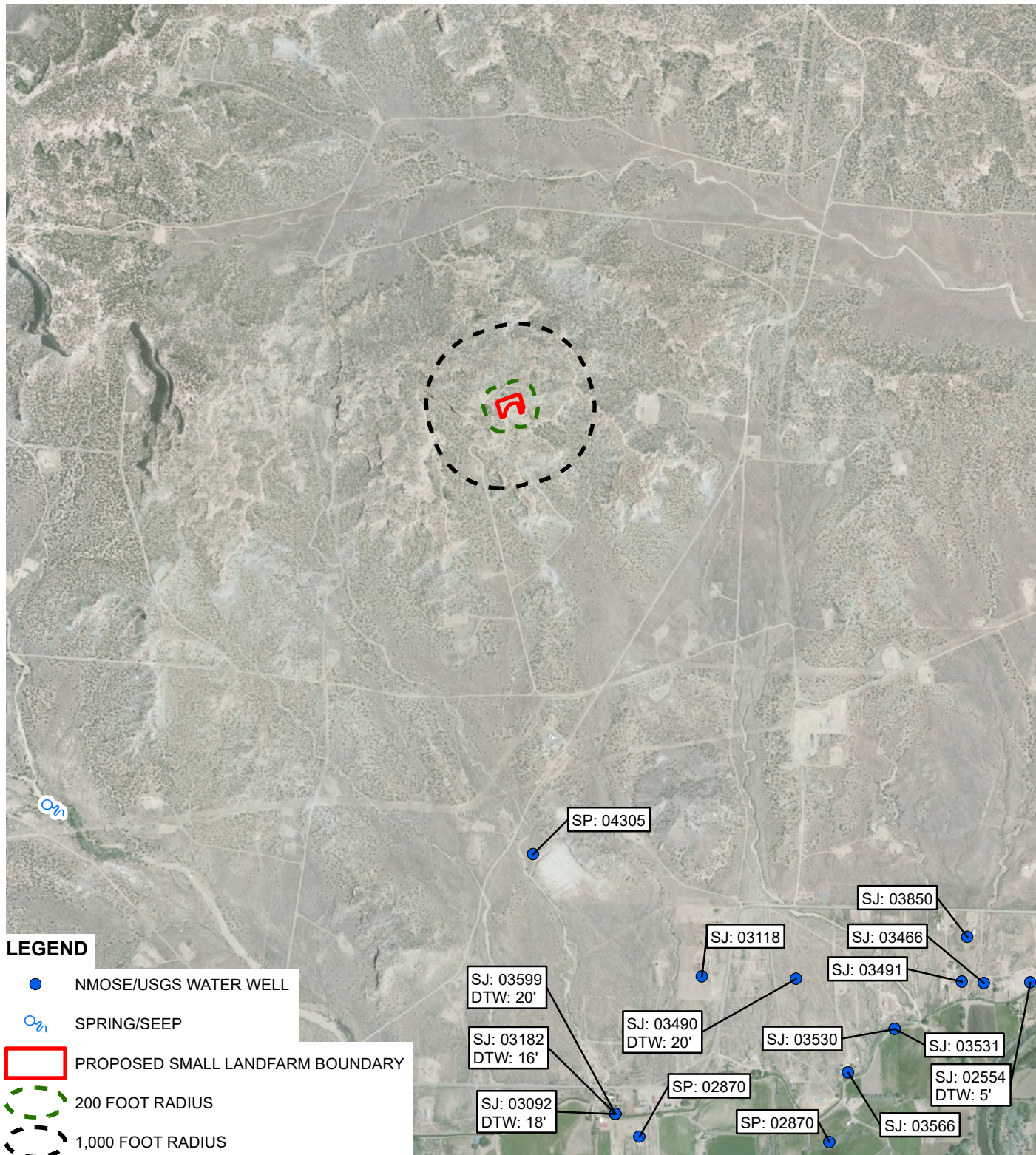


FIGURE 7
 PROXIMITY TO UNSTABLE AREA
 MANSFIELD #11N
 NESW SEC 29 T30N R9W
 SAN JUAN COUNTY, NEW MEXICO
 HILCORP ENERGY COMPANY





NOTE:
 ACCORDING TO 19.15.2 NMAC, A WELLHEAD PROTECTION AREA CONSISTS OF THE AREA WITHIN 200 HORIZONTAL FEET OF A PRIVATE, DOMESTIC FRESH WATER WELL OR SPRING USED BY <5 HOUSEHOLDS FOR DOMESTIC OR STOCK WATERING PURPOSE, OR WITHIN 1,000 HORIZONTAL FEET OF ANY OTHER FRESH WATER WELL OR SPRING. NO FRESH WATER WELLS OR SPRINGS IN THE AREA PER NWIS, USGS, AND NMOSE.
 DTW: DEPTH TO WATER
 NMOSE: NEW MEXICO OFFICE OF THE STATE ENGINEER
 NWIS: NATIONAL WATER INFORMATION SYSTEM
 ': FEET

IMAGE COURTESY OF ESRI

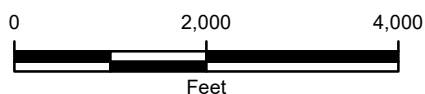
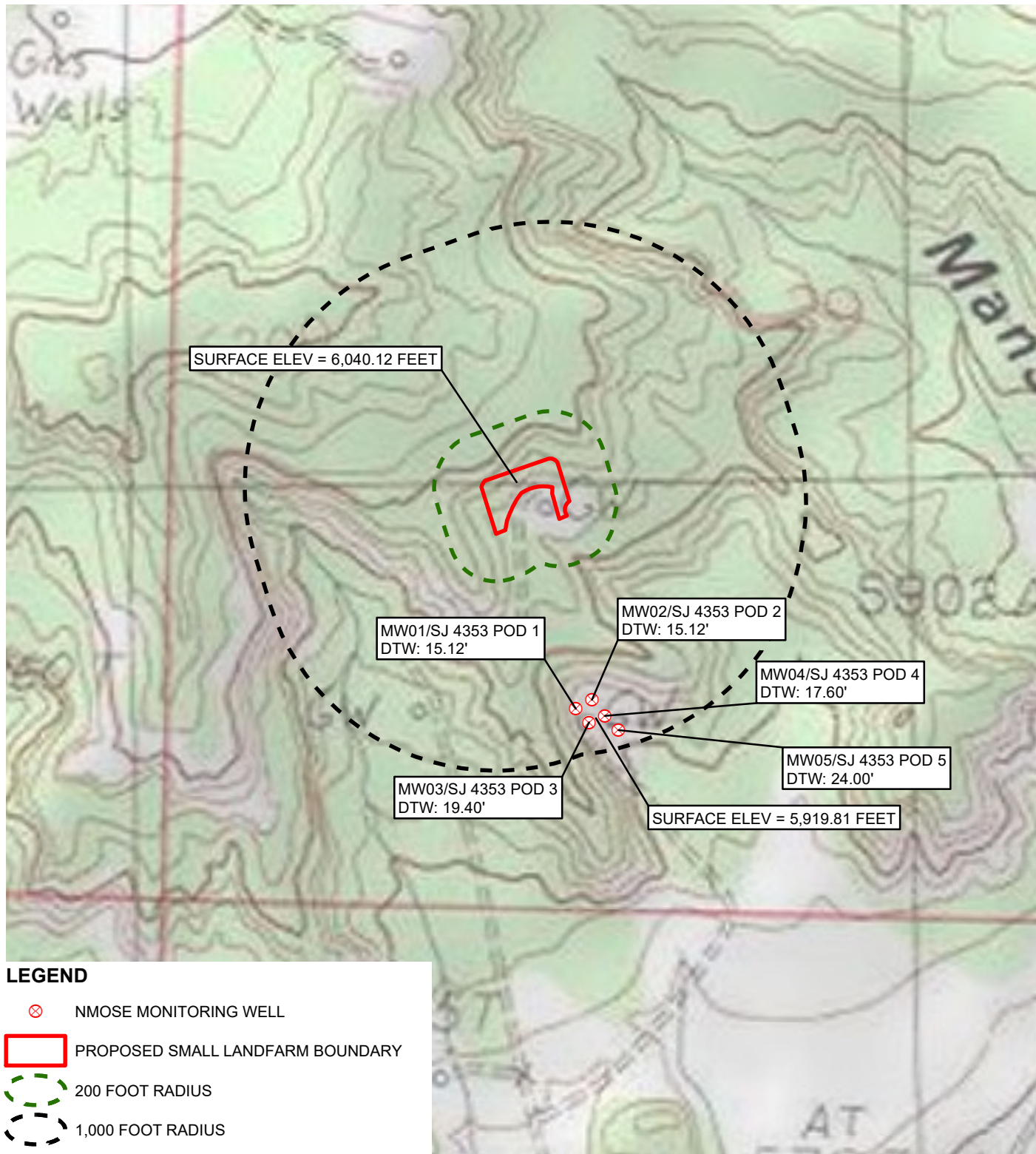


FIGURE 8
PROXIMITY TO WELLHEAD PROTECTION AREA
MANSFIELD #11N
NESW SEC 29 T30N R9W
SAN JUAN COUNTY, NEW MEXICO
HILCORP ENERGY COMPANY





LEGEND

- NMOSE MONITORING WELL
- PROPOSED SMALL LANDFARM BOUNDARY
- 200 FOOT RADIUS
- 1,000 FOOT RADIUS

NOTE:

ACCORDING TO 19.15.2 NMAC, A WELLHEAD PROTECTION AREA CONSISTS OF THE AREA WITHIN 200 HORIZONTAL FEET OF A PRIVATE, DOMESTIC FRESH WATER WELL OR SPRING USED BY <5 HOUSEHOLDS FOR DOMESTIC OR STOCK WATERING PURPOSE, OR WITHIN 1,000 HORIZONTAL FEET OF ANY OTHER FRESH WATER WELL OR SPRING. NO FRESHWATER WELLS OR SPRINGS IN THE AREA PER NWIS, USGS, AND NMOSE.

DTW: DEPTH TO WATER

NMOSE: NEW MEXICO OFFICE OF THE STATE ENGINEER

NWIS: NATIONAL WATER INFORMATION SYSTEM

': FEET

IMAGE COURTESY OF ESRI/USGS

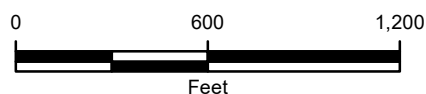
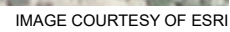


FIGURE 9
LOCAL DEPTH TO WATER
MANSFIELD #11N
NESW SEC 29 T30N R9W
SAN JUAN COUNTY, NEW MEXICO
HILCORP ENERGY COMPANY





District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

RECEIVED
BLANK AMENDED REPORT
210 FARMINGTON NM

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-34321		Pool Code 72319/71599	Pool Name BLANCO MESAVERDE / BASIN DAKOTA
Property Code 7284	Property Name MANSFIELD		Well Number 11N
GRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY, LP		Elevation 6028'

10 Surface Location

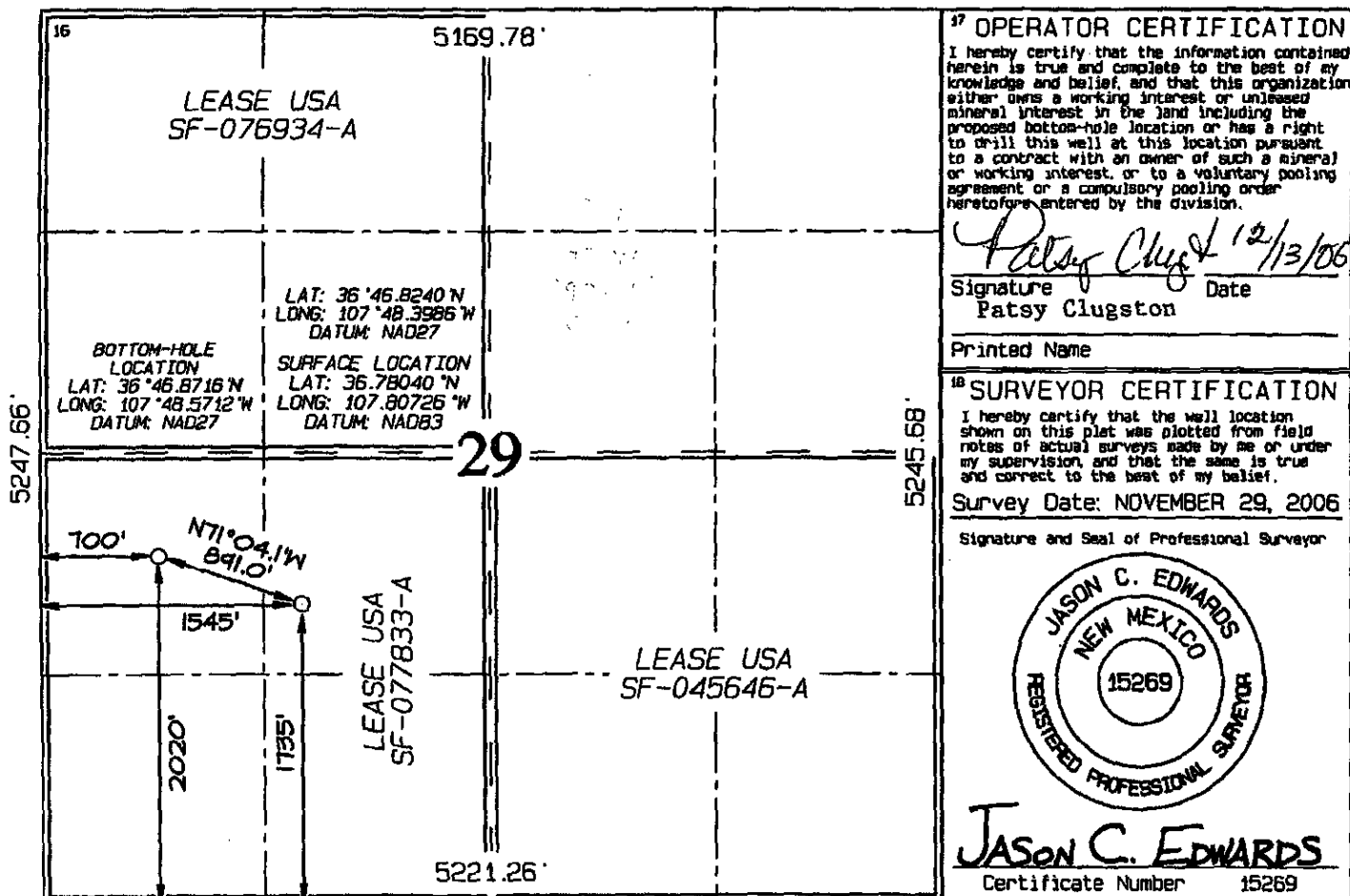
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	29	30N	9W		1735	SOUTH	1545	WEST	SAN JUAN

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	29	30N	9W		2020	SOUTH	700	WEST	SAN JUAN

Dedicated Acres 320 MV (W/2)/320 DK (S/2)	Joint or Infill	Consolidation Code	Order No.
--	-----------------	--------------------	-----------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



BURLINGTON RESOURCES OIL & GAS COMPANY MANSFIELD #11N
1735' FSL & 1545' FWL, SECTION 29, T30N, R9W, NMPM
SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6028'

LATITUDE: 36°46.8240N
 LONGITUDE: 107°48.3986W
 DATUM: NAD1927

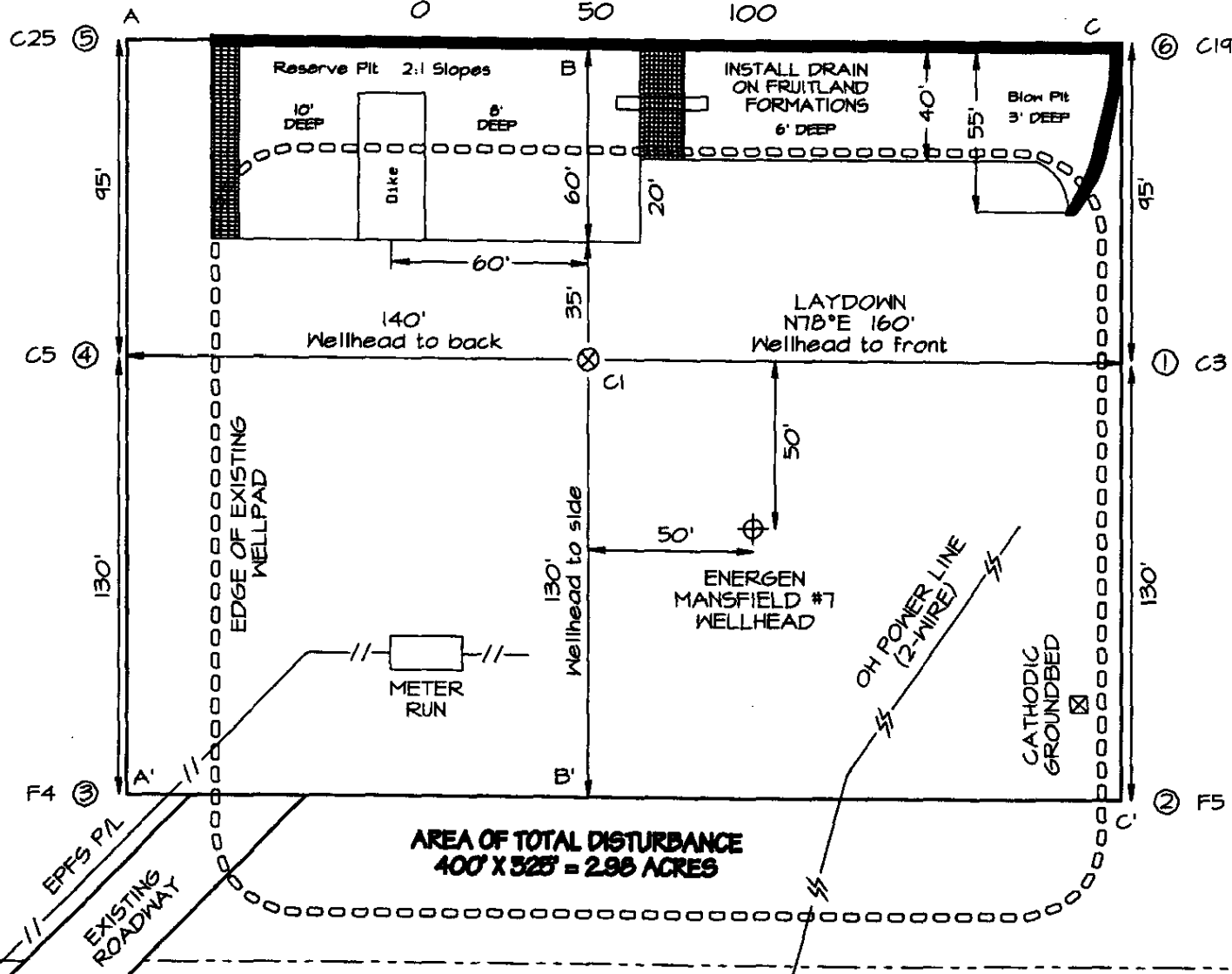
~ SURFACE OWNER ~

Bureau of Land Management

EDGE OF TOTAL DISTURBANCE (MARKED WITH STEEL T-POSTS)

EDGE OF TOTAL DISTURBANCE (MARKED WITH STEEL T-POSTS)

GRAPHIC SCALE 1"=50'



AREA OF TOTAL DISTURBANCE
400' X 328' = 2.98 ACRES

NCE SURVEYS IS NOT LIABLE FOR LOCATION OF UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CONTACT ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED UNDERGROUND UTILITIES OR PIPELINES ON WELLPAD AND/OR ACCESS ROAD AT LEAST TWO WORKING DAYS PRIOR TO CONSTRUCTION.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018


SUNDRY NOTICES AND REPORTS ON WELLS
***Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.***

SUBMIT IN TRIPLICATE - Other instructions on page 2		5. Lease Serial No.
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator		7. If Unit of CA/Agreement, Name and/or No.
3a. Address	3b. Phone No. (include area code)	8. Well Name and No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)		9. API Well No.
		10. Field and Pool or Exploratory Area
		11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)	Title	
Signature 	Date	

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

January 19, 2021

Bureau of Land Management
Farmington Field Office
6251 College Boulevard
Farmington, New Mexico 87402

**RE: Request to Amend Conditions of Approval
Hilcorp Energy Company
Mansfield #11 – NCS1913741281
San Juan County, New Mexico**

To Whom It May Concern,

Following identification of a historical release by Hilcorp Energy Company (Hilcorp) at the Mansfield #11 natural gas production well, Hilcorp excavated approximately 2,000 cubic yards of soil and requested land use permission from the Bureau of Land Management (BLM) to remediate impacted soil via biopiling at the nearby Mansfield #11N, another well pad located on BLM surface with available space for remediation. Upon approval with conditions from the BLM, Hilcorp submitted a Revised Remediation Work Plan on February 19, 2020 to the New Mexico Oil Conservation Division (NMOCD). In response, the NMOCD is requiring Hilcorp to adhere to the requirements of the NMOCD small landfarm regulations (19.15.36.16 of the New Mexico Administrative Code [NMAC]), which differ slightly from the BLM conditions of approval (COAs) for the Site's biopiling work plan. The NMOCD has additionally requested that Hilcorp obtain acknowledgement from BLM of the differences between the NMOCD requirements and BLM's COAs. To comply with NMOCD's request, WSP USA Inc. (WSP) has attached for your review a table that summarizes the differences in the regulatory requirements and any proposed changes in landfarm construction, management, and closure based on compliance with 19.15.36.16 NMAC. In all but one case, Hilcorp will default to the more stringent of the BLM COAs and the NMOCD small landfarm regulations so that both regulatory directives can be met.

WSP has attempted to summarize the most significant differences below:


- Hilcorp will meet a closure standard for benzene of 0.2 milligrams per kilogram (mg/kg) as prescribed in the 19.15.36.16 NMAC instead of 10 mg/kg approved by the BLM. Hilcorp will comply with BLM's closure criteria of 100 mg/kg for TPH. Hilcorp will add NMOCD standards for BTEX, GRO+DRO, and chloride, which were not required by the BLM.
- Landfarm construction will comply with BLM requirements, but have stricter NMOCD constraints including:
 - o The entire area will not exceed 2 acres,
 - o Lift heights will be restricted to 8 inches instead of 24 inches,
 - o No more than 2,000 cubic yards of soil will be treated.
- Due to the time it has taken to identify and comply with the NMOCD requirements, along with projected time to receive final approval to proceed from NMOCD, Hilcorp is requesting BLM change the timeline for remediation to three years from the landfarm application acceptance date instead of two years from the release date. Hilcorp will submit sundry notices to the BLM each year following the application acceptance from the NMOCD. The reports will include

laboratory analytical results soil sampling, evaluation of remediation progress, and anticipated timeline to closure.

As stated above, for NMOCD to proceed with approval of small landfarm registration, it requires BLM acknowledge differences between the BLM COAs and NMOCD small landfarm requirements and for BLM to approve of any modifications. All differences are summarized in the attached table and show the most stringent requirement will be met. Due to the extended timeline required to receive approval of a work plan from NMOCD and subsequent small landfarm registration, Hilcorp requests approval to modify the timeline in the original BLM COAs. Hilcorp respectfully requests extension of the timeline for remediation from two years from the date of the release to three years from the application acceptance date.

Upon approval of this Sundry, Hilcorp can proceed with the final steps required for NMOCD small landfarm registration and begin remediation at the site.

Sincerely,

A handwritten signature in black ink that reads "Jennifer Deal". The signature is written in a cursive, flowing style.

Jennifer Deal

Well Name: MANSFIELD

Well Location: T30N / R9W / SEC 29 /
NESW / 36.780261 / 107.807377

County or Parish/State: SAN
JUAN / NM

Well Number: 11N

Type of Well: CONVENTIONAL GAS
WELL

Allottee or Tribe Name:

Lease Number: NMSF077833A

Unit or CA Name: MANSFIELD,
MANSFIELD - W/2 MV

Unit or CA Number:
NMNM73156, NMNM74066

US Well Number: 3004534321

Well Status: Producing Gas Well

Operator: HILCORP ENERGY
COMPANY

Subsequent Report

Type of Submission: Subsequent Report

Type of Action: Surface Disturbance

Date Sundry Submitted: 02/10/2021

Time Sundry Submitted: 01:46

Date Operation Actually Began: 02/01/2021

Actual Procedure: Please see the attached Change of Plans. Attn: Ryan Joyner

SR Attachments

Actual Procedure

Sundry_Notice__Mansfield_11N_3160_005_1__20210210134541.pdf

Copy_of_Rule_36_BLM_COA_Comparison_JA_V2_20210210134541.pdf

Mansfield_11N_COA_20210210134541.pdf

BLM_letter_for_Sundry_20210210134541.pdf

EC504488_20210210134541.pdf

Well Name: MANSFIELD	Well Location: T30N / R9W / SEC 29 / NESW / 36.780261 / 107.807377	County or Parish/State: SAN JUAN / NM
Well Number: 11N	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF077833A	Unit or CA Name: MANSFIELD, MANSFIELD - W/2 MV	Unit or CA Number: NMNM73156, NMNM74066
US Well Number: 3004534321	Well Status: Producing Gas Well	Operator: HILCORP ENERGY COMPANY

Operator Certification

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: WALKER	Signed on: FEB 10, 2021 01:45 PM
Name: HILCORP ENERGY COMPANY	
Title: Operations/Regulatory Technician	
Street Address: 1111 TRAVIS STREET	
City: HOUSTON	State: TX
Phone: (713) 209-2400	
Email address: NOT ENTERED	

Field Representative

Representative Name: Jennifer Deal		
Street Address: 382 ROAD 3100		
City: FARMINGTON	State: NM	Zip: 87401
Phone: (505)324-5128		
Email address: jdeal@hilcorp.com		

BLM Point of Contact

BLM POC Name: RYAN JOYNER	BLM POC Title: Physical Scientist
BLM POC Phone: 9703851242	BLM POC Email Address: rjoyner@blm.gov
Disposition: Approved	Disposition Date: 02/11/2021
Signature: Ryan Joyner	