

HITP - _42_

**GENERAL
CORRESPONDENCE**

**YEAR(S):
2013-2014**

**ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH**

I hereby acknowledge receipt of Check No. 1707 dated 5/17/13

or cash received on _____ in the amount of \$ 100.00

from KLEINFELDER WEST, INC.

for HITP-42

Submitted by: BRAD JONES Date: 8/22/13

Submitted to ASD by: Rupe Sherman Date: 8/22/13

Received in ASD by: _____ Date: _____

Filing Fee New Facility: _____ Renewal: _____

Modification _____ Other _____

Organization Code 521.07 Applicable FY 14

To be deposited in the Water Quality Management Fund.

Full Payment _____ or Annual Increment _____

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of Check No. 689640 dated 8/12/13

or cash received on 8/22/13 in the amount of \$ 150.00

from KLEINFELDER WEST, INC.

for HITP-42

Submitted by: BRAD JONES Date: 8/22/13

Submitted to ASD by: Lupe Sherman Date: 8/22/13

Received in ASD by: _____ Date: _____

Filing Fee _____ New Facility: _____ Renewal: _____

Modification _____ Other TEMPORARY PERMISSION FEE

Organization Code 521.07 Applicable FY 14

To be deposited in the Water Quality Management Fund.

Full Payment _____ or Annual Increment _____

New Mexico Environment Department Revenue Transmittal

| Description | Fund | CES | DFA Org. | DFA ED Acct. Org. | ED Acct. | Amount |
|--|------|-----|----------|-------------------|----------|--------|
| 1 _____ CY Reimbursement Project _____ Tax | 064 | | 01 | | | 1 |
| 2 _____ Gross Receipt Tax | 064 | | 01 | 2329 900000 | 2329134 | 2 |
| 3 _____ Air Quality Title V | 092 | | 13 | 1690 900000 | 4169134 | 3 |
| 4 _____ PRP Prepayments | 248 | | 14 | 9690 900000 | 4969014 | 4 |
| 5 _____ Climax Chemical Co. | 248 | | 14 | 9690 900000 | 4969015 | 5 |
| 6 _____ Circle K Reimbursements | 248 | | 14 | 9690 900000 | 4969248 | 6 |
| 7 _____ Hazardous Waste Permits | 339 | | 27 | 1690 900000 | 4169027 | 7 |
| 8 _____ Hazardous Waste Annual Generator Fees | 339 | | 27 | 1690 900000 | 4169339 | 8 |
| 9 _____ Water Quality - Drinking Water | 340 | | 28 | 1690 900000 | 4169028 | 9 |
| 10 <input checked="" type="checkbox"/> Water Quality - Oil Conservation Division | 341 | | 29 | 2329 900000 | 2329029 | 10 |
| 11 _____ Water Quality - GW Discharge Permit | 341 | | 29 | 1690 900000 | 4169029 | 11 |
| 12 _____ Air Quality Permits | 631 | | 31 | 1690 900000 | 4169031 | 12 |
| 13 _____ Payments under Protest | 651 | | 33 | 2919 900000 | 2919033 | 13 |
| * 14 _____ Xerox Copies | 652 | | 34 | 2349 900000 | 2349001 | 14 |
| 15 _____ Ground Water Penalties | 652 | | 34 | 2349 900000 | 2349002 | 15 |
| 16 _____ Witness Fees | 652 | | 34 | 2349 900000 | 2349003 | 16 |
| 17 _____ Air Quality Penalties | 652 | | 34 | 2349 900000 | 2349004 | 17 |
| 18 _____ OSHA Penalties | 652 | | 34 | 2349 900000 | 2349005 | 18 |
| 19 _____ Prior Year Reimbursement | 652 | | 34 | 2349 900000 | 2349006 | 19 |
| 20 _____ Surface Water Quality Certification | 652 | | 34 | 2349 900000 | 2349009 | 20 |
| 21 _____ Jury Duty | 652 | | 34 | 2349 900000 | 2349012 | 21 |
| 22 _____ CY Reimbursements (i.e.: telephone) | 652 | | 34 | 2349 900000 | 2349014 | 22 |
| * 23 _____ UST Owners List | 783 | | 24 | 9690 900000 | 4969201 | 23 |
| * 24 _____ Hazardous Waste Notifiers List | 783 | | 24 | 9690 900000 | 4969202 | 24 |
| * 25 _____ UST Maps | 783 | | 24 | 9690 900000 | 4969203 | 25 |
| * 26 _____ UST Owners Update | 783 | | 24 | 9690 900000 | 4969205 | 26 |
| * 28 _____ Hazardous Waste Regulations | 783 | | 24 | 9690 900000 | 4969207 | 28 |
| * 29 _____ Radiologic Tech. Regulations | 783 | | 24 | 9690 900000 | 4969208 | 29 |
| * 30 _____ Superfund CERCLIS List | 783 | | 24 | 9690 900000 | 4969211 | 30 |
| * 31 _____ Solid Waste Permits Fees | 783 | | 24 | 9690 900000 | 4969213 | 31 |
| 32 _____ Smoking School | 783 | | 24 | 9690 900000 | 4969214 | 32 |
| * 33 _____ SWQB - NPS Publications | 783 | | 24 | 9690 900000 | 4969222 | 33 |
| * 34 _____ Radiation Licensing Regulations | 783 | | 24 | 9690 900000 | 4969228 | 34 |
| * 35 _____ Sale of Equipment | 783 | | 24 | 9690 900000 | 4969301 | 35 |
| * 36 _____ Sale of Automobile | 783 | | 24 | 9690 900000 | 4969302 | 36 |
| ** 37 _____ Lust Recoveries | 783 | | 24 | 9690 900000 | 4969614 | 37 |
| ** 38 _____ Lust Prepayments | 783 | | 24 | 9690 900000 | 4969615 | 38 |
| 39 _____ Surface Water Publication | 783 | | 24 | 9690 900000 | 4969801 | 39 |
| 40 _____ Exxon Reese Drive Ruidoso - CAF | 783 | | 24 | 9690 900000 | 4969242 | 40 |
| 41 _____ Emerg. Hazardous Waste Penalties NOV | 957 | | 32 | 1640 900000 | 4164032 | 41 |
| 42 _____ Radiologic Tech. Certification | 987 | | 05 | 1690 900000 | 4169005 | 42 |
| 44 _____ UST Permit Fees | 989 | | 20 | 1690 900000 | 4169020 | 44 |
| 45 _____ UST Tank Installers Fees | 989 | | 20 | 1690 900000 | 4169021 | 45 |
| 46 _____ Food Permit Fees | 991 | | 26 | 1690 900000 | 4169026 | 46 |
| 43 _____ Other | | | | | | 43 |

250.00

* Gross Receipt Tax Required ** Site Name & Project Code Required

TOTAL:

Contact Person: GLENN VON GONTEN Phone #: 476-3488 Date: 8/22/13

Received in ASD By: _____ Date: _____ RT #: _____ ST# _____

NEW MEXICO ENVIRONMENT DEPARTMENT - ALBUQUERQUE FIELD OFFICE DAILY CHECK RECEIPT LOG

| DATE RECEIVED | WALK IN | MAIL | NAME ON CHECK | DATE OF CHECK | CHECK/MONEY ORDER# | PROGRAM ACCOUNT CODE | AMOUNT OF CHECK | DATE DEPOSITED | DEPOSITED BY: |
|---------------|---------|------|------------------------|---------------|--------------------|----------------------|-----------------|----------------|---------------|
| 8/22/13 | | ✓ | KLEINFELDER WEST, INC. | 5/17/13 | 1707 | | \$100.00 | | |
| 8/22/13 | | ✓ | KLEINFELDER WEST, INC. | 8/12/13 | 689640 | | \$150.00 | | |
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| TOTAL | | | | | | | \$250.00 | | |

REVENUE TRANSMITTAL SHEET

| Description | Fund | Dept. | Share Acct | Sub Acct | Amount |
|-----------------------------|-------|-------|------------|----------|--------|
| Liquid Waste | 34000 | Z3200 | 496402 | | |
| Water Recreation Facilities | 40000 | Z8501 | 496402 | | |
| Food Permit Fees | 99100 | Z2600 | 496402 | | |
| OTHER | | | | | |



ENTERPRISE PRODUCTS PARTNERS L.P.
ENTERPRISE PRODUCTS HOLDINGS LLC
(General Partner)

ENTERPRISE PRODUCTS OPERATING LLC

August 21, 2013

Federal Express

Mr. Brad Jones
New Mexico Energy, Minerals, and Natural Resources Department
Oil Conservation Division
1220 St. Francis Drive
Santa Fe, NM 87505

**RE: Enterprise Products Operating LLC
Submittal of Notice of Intent to Discharge Hydrostatic Test Water
Red Hills Laterals
Lea County, New Mexico**

Dear Mr. Jones:

Enterprise Products Operating LLC (Enterprise) will be constructing the Red Hills Lateral as an expansion to their natural gas gathering system. Please find enclosed an application for authorization to discharge hydrostatic test water following hydrostatic testing of the new pipeline. The enclosed application includes the requested revisions to the draft(s) that you reviewed and submitted comments on August 8, 2013.

Thank you for your assistance with this request. If you have any questions or require additional information, please feel free to call Enterprise's environmental consultant, Ms. Barbara Everett, 505.344.7373, or myself at 713.392.2458

Sincerely,

James G. White
Sr. Environmental Scientist

cc: Runell Seale, Enterprise
Shiver Nolan, Enterprise

RECEIVED OCED
2013 AUG 22 A 11: 04



August 13, 2013
Project No.: 131457

Mr. Brad Jones
New Mexico Energy, Minerals, and Natural Resources Department
Oil Conservation Division
1220 St. Francis Drive
Santa Fe, NM 87505

**Subject: Submittal of a Notice of Intent to
 Perform a Hydrostatic Test
 Red Hills Lateral
 Lea County, New Mexico**

Dear Mr. Jones:

On behalf of Enterprise Products Operating Company LLC (Enterprise), Kleinfelder West, Inc. (Kleinfelder) is submitting this Notice of Intent (NOI) for a hydrostatic test of a new, Enterprise pipeline for your review.

Kleinfelder has included the required information for the NOI as stated in the "Guidelines for Hydrostatic Test Dewatering" dated January 11, 2007. Attached to this NOI are the following:

- Background Information;
- Notice of Intent Plan;
- Figure 1 – New Enterprise Pipeline Undergoing Hydrostatic Testing;
- Figure 2 – Aerial Map of the Collection/Retention Area;
- Appendix A - Certification of Siting Criteria;
- Appendix B – Water Feature, Water Well, and Floodplain Information;
- Appendix C – Area Mine Information; and
- Appendix D – Geology.

Checks totaling \$250 will be submitted to the New Mexico Water Quality Management Fund on behalf of Enterprise for the \$100 filing fee and a \$150 temporary permission fee.

Kleinfelder prepared this NOI in a manner consistent with the level of care and skill ordinarily exercised by other members of Kleinfelder's profession practicing in the same locality, under similar conditions and at the date the services are provided. The information provided in this document is based on our understanding of the information provided by Enterprise.

Should you have any questions, please feel free to contact Barbara Everett (Kleinfelder) at 505.344.7373 or Jimmy White (Enterprise) at 713.381.1785.

Respectfully submitted,

KLEINFELDER WEST, INC.

Reviewed by:


Jill Hernandez
Staff Engineer


Barbara Everett, PG
Program Manager

cc: James White, Enterprise Products Operating LLC, PO Box 4324 Houston, TX 77210

Background Information

- The U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) requires periodic pressurized tests on all DOT-regulated pipelines and all newly installed pipelines to verify the integrity and safety of pipeline systems. Because the pipelines are part of a natural gas gathering system, waste water generated during hydrostatic testing is classified as RCRA-exempt waste water and does not require management as a RCRA waste or disposal at a RCRA-approved facility.
- The Red Hills Lateral is located in Sections 13, 14, 15, 22, 27, 28, 32, and 33 of Township 25 South, Range 33 East of Lea County, New Mexico.
- The Red Hills Lateral is new, welded steel, 8.249-inch inner diameter pipeline, approximately 34,100 feet (6.5 miles) in length. The pipeline is part of a gathering system that transports natural gas from well sites to processing facilities.
- The pipeline is currently scheduled to be filled with test water beginning September 10, 2013. Upon completion of the hydrostatic test, approximately 95,000 gallons of post-hydrostatic test water will be transferred to lined and bermed frac tanks within a collection/retention area located at the northeast end of the Red Hills Lateral on September 11, 2013. Mesquite Services Inc. (Permit Number C133-211) will be used to transport the post-hydrostatic test water for injection and disposal at Dorstate SWD (Order #247-A, API #30-015-23728).

Item a. Name and address of the proposed discharger;

Legally Responsible Party Mr. Leonard W. Mallett, Group Sr. VP, Engineering
POC: Ms. Shiver Nolan, Sr. Compliance Administrator
P.O. Box 4324
Houston, Texas 77210
713.381.6595

Local Representative Mr. James Heap
Enterprise Products Operating LLC
1031 Andrews Highway, Suite 320
Midland, TX 79701
432.686.5404

Item b. Location of the discharge, including a street address, if available, and sufficient information to locate the facility with respect to surrounding landmarks;

The section of the pipeline to be tested is located in Lea County. Water from the hydrostatic testing will be temporarily stored in lined and bermed frac tanks pending injection and disposal at Dorstate SWD (Order #247-A, API #30-015-23728). The location of the pipeline to be hydrostatically tested is depicted on Figure 1.

The frac tanks will be placed within a lined and bermed, 50x53 foot secondary containment within a 50x60 foot collection/retention area. The collection/retention area is located within the 50-foot pipeline construction easement approximately 19.5 miles west of Jal, New Mexico (Figure 2). Directions to the collection/retention area from Jal, New Mexico are as follows:

- From the intersection of NM-18 and NM-128 (East Kansas Avenue), head west on NM-128/E. Kansas Avenue toward N. 1st Street for approximately 22 miles;
- Turn left onto Vaca Lane and continue for 4.4 miles. Take the right fork of the road approximately 385 feet south of Resource Lane (approximately 2.3 miles south of NM-128). At the fork, the road will shift from a southeast direction to a southwest direction and become County Road 2/Vaca Lane;
- Turn left onto an unnamed road and continue for 1.87 miles to a well pad located to the east of the road;
- The northeastern end of the Red Hills pipeline and the collection/retention area are located adjacent to the southern edge of the well pad.

Item c. Legal description of the discharge location;

The collection/retention area will be located at:

- NE/4 of the NW/4 of Section 13, Township 25 South, Range 33 East in Lea County, New Mexico (See Figure 1). The approximate coordinates for the collection/retention area location are: Latitude 32° 8'7.101"N; Longitude 103°31'43.085"W.

Item d. Maps (site-specific and regional) indicating the location of the pipelines to be tested;

- Figure 1 – Regional map showing topography, the pipeline section undergoing testing, and the collection/retention area.
- Figure 2 – Site-specific aerial map showing the collection/retention area and the secondary containment area (collectively referred to as the collection/retention area henceforth).

Site-specific topographic maps are provided in the appendices.

Item e. A demonstration of compliance to the following siting criteria or justification for any exceptions:

- Within 200 feet of a watercourse, lakebed, sinkhole, or playa lake;

A search of watercourses, lakebeds, sinkholes, and playa lakes in the vicinity of the collection/retention area was completed on June 6, 2013 by reviewing the topographic map and using the Petroleum Recovery Research Center database (PRRC database). No watercourses (rivers, creeks, arroyos, canyons, draws, washes, or other channels having definite banks and a bed with visible evidence of the occasional flow of water); lakebeds (perennial, intermittent, and dry lakes); sinkholes; or playa lakes were identified within 200 feet of the collection/retention area. A copy of the topographic map is included in Appendix B, Figure B-1. A map generated from the PRRC database is included in Appendix B, Figure B-2. In addition, no watercourses, lakebeds, sinkholes, or playa lakes were observed within 200 feet of the collection/retention area during the site visit (Appendix A).

ii. Within an existing wellhead protection area or 100-year floodplain;

A search for wellhead protection areas (water supply wells and springs) in the vicinity of the collection/retention area was conducted. The PRRC and New Mexico Office of the State Engineer (OSE) websites were searched on June 6, 2013. According to the PRRC database and OSE records, two water supply wells are located in the vicinity of the collection/retention area. A site visit was conducted to verify the location of the water supply wells. Water supply well C 02373 is located on the well pad approximately 260 feet to the north/northeast of the northeast corner of the collection/retention area. Water supply well C 02336 is located approximately 1,130 feet to the west/northwest of the northwest corner of the collection/retention area and is also located on a well pad (Figure 2, Figure B-2, and Appendix B). The wells are used as water supply for oil and gas production operations.

An exception is requested, based on the following justification:

- The hydrostatic test water will not be discharged to the ground. The used test water will temporarily be stored in frac tanks within secondary containment and then transported for disposal at Dorstate SWD (Order #247-A, API #30-015-23728).
- The surface area is relatively flat in the area located at and surrounding the collection/retention area. Well C 02373 is located at an elevation approximately two feet higher than the elevation of the collection/retention area. Due to the relatively flat surface topography, an accidental release would be unlikely to impact water supply well C 02373.
- A leak or accidental release of the test water would be prevented from entering the water supply aquifer through the use of secondary containment, individual valves located on each tank, drip pans, a ramp placed over the piping used to transfer the test water to the trucks, and personnel designated to inspect the piping and tanks and to oversee the testing and water transfer. In addition, a hay bale berm will be placed between the collection/retention area and the water supply well C 02373. Additional information regarding the collection/retention area is described in item h.
- In the event of an accidental release, notification will be submitted to the appropriate NMOCD District Office, in accordance with regulatory requirements.

The topographic map provided in the U.S. Fish and Wildlife Service National Wetlands Inventory (NWI) database was reviewed for springs in the vicinity of the collection/retention area on June 6, 2013. No springs were identified on the topographic map within 1,000 feet of the collection/retention area (Figure B-1, Appendix B). The PRRC database was also reviewed on June 6, 2013 for evidence of springs in the collection/retention area. No springs were identified in the PRRC database (Figure B-2, Appendix B) or during the site inspection (Appendix A).

The Federal Emergency Management Administration (FEMA) flood insurance rate map (Panel 35025C1900D) was reviewed on the FEMA website for 100-year floodplains in the vicinity of the proposed collection/retention area. According to the Federal Emergency Management Administration (FEMA) website, the area surrounding the site is located within an area designated Zone D, indicating an area where a flood analysis has not been

conducted (FEMA, fema.gov). Figure B-3 in Appendix B is a copy of the floodplain map referencing the Zone D designation.

As previously discussed, the surface area is relatively flat in the area located at and surrounding the collection/retention area. No evidence of flooding was observed during the site inspection (Appendix A). Based on the topographic map review and the site inspection, the collection retention area does not appear to be located in or near a floodplain.

iii. Within, or within 500 feet of, a wetland;

The NWI was searched for wetlands in the vicinity of the collection/retention area on June 6, 2013 (Figure B-1, Appendix B). Wetlands were not observed within 500 feet of the perimeter of the collection/retention area. In addition, no wetlands were visible within 500 feet of the collection/retention area in the April 19, 2011 aerial photograph of the area (see Figure 2) or during the site inspection (Appendix A).

iv. Within the area overlying a subsurface mine; or

According to the PRRC database, no active or inactive subsurface mines were located at or in the vicinity of the collection/retention area. Figure C-1 (Appendix C), generated from the New Mexico Mining and Minerals Division GIS database, accessed on June 9, 2013 does not depict subsurface mines within 1,000 feet of the collection/retention area. Mr. Mike Tompson with the New Mexico Abandoned Mine Lands Program was contacted on June 8, 2013 to assess the presence of abandoned subsurface mines in the vicinity of the collection/retention area. According to Mr. Tompson, there is no record of abandoned subsurface mines within Sections 13, Township 25 South, Range 33 East (see email, Appendix C).

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

No permanent residences, schools, hospitals, institutions, or churches were noted on the aerial photographs of the area, dated April 19, 2011 (see Figure 2). A visual site inspection conducted on May 31, 2013 confirmed the absence of permanent residences, schools, hospitals, institutions, and churches within 500 feet of the collection/retention area.

Item f. A brief description of the activities that produce the discharge;

Pressure testing with water, also known as hydrostatic testing, is one of the tools pipeline operators use to verify pipeline integrity. The purpose of hydrostatic testing of a pipeline is to determine the extent to which potential defects might threaten the pipeline's ability to sustain maximum allowable operation pressure. Because this permit is for new piping, previous contents of the pipe do not need to be cleared. The pipeline is filled with water and then pressurized to a pressure higher than the standard operating pressure for approximately eight hours. If leaks or breaks occur, the pipeline is repaired or the affected areas are replaced, and then re-tested.

Approximately 95,000 gallons of potable, municipal water from the City of Carlsbad will be transferred into the Red Hills Laterals from water trucks. The hydrostatic test of the Red Hills Lateral will be conducted. Upon completion of the hydrostatic testing, the water will be transferred to and temporarily stored in frac tanks within secondary containment located in the collection/retention area located at the northeast end of the Red Hills Lateral. The water will be transferred from the frac tanks to water trucks for disposal. The transfer of water will be conducted within the collection/retention area.

Item g. The method and location for collection and retention of fluids and solids;

Because the piping is new, solids are not anticipated to be produced as a result of the hydrostatic testing. Once the hydrostatic testing has been conducted on the Red Hills Lateral, the water will be transferred to and temporarily stored in two clean, ±21,000-gallon frac tanks located in lined and bermed secondary containment in the collection/retention area.

As the discharge from the pipeline fills the frac tanks, trucks will be simultaneously filled and used to transport the water to the waste disposal facility. Discharge from the pipeline to the frac tanks will be stopped, as necessary, to prevent overfilling the frac tanks until the water from the frac tanks is transferred to the haul trucks. This process will repeat until all the water is discharged from the pipeline and subsequently transferred to the haul truck. The transfer of water from the frac tanks to the trucks will be located within the collection/retention area.

Frac tanks will be interconnected but will have safety valves at each tank connection and will be located within lined and bermed secondary containment in the collection/retention area. Drip pans will be used under pumps and at hose connections. The secondary containment will be sufficient to hold 1 1/3 of the total volume of the interconnected frac tanks, or the volume of the largest tank, whichever is greater. The tanks will be contained within a single containment area. Plastic will be draped over dirt berms or hay bales surrounding the secondary containment.

Item h. A brief description of best management practices to be implemented to contain the discharge onsite and to control erosion;

Enterprise intends to transfer test water from the pipeline into frac tanks within secondary containment for temporary storage. The frac tanks will be located 25 feet apart to distribute the weight over a larger area due to the potential for karst in the area (Figures 2 and D-2). Additional information regarding the karst is provided in Item m. Personnel will be present during transfer operations to close valves in case of leaks. The hydrostatic test water will be transported for disposal upon completion of the test. Personnel will be located in the surrounding area to conduct pipeline construction and maintenance activities and can help prevent vandalism to the frac tanks. Visual inspections will be conducted while the hydrostatic test water is stored in the frac tanks to ensure the absence of leaks and damage due to vandalism.

Item i. A request for approval of an alternative treatment, use, and/or discharge location (other than the original discharge site), if necessary;

No alternate use or discharge location is proposed.

Item j. A proposed hydrostatic test wastewater sampling plan;

Potable water from the City of Carlsbad will be used for the hydrostatic testing, and as such, Enterprise will not collect, nor analyze, a pre-test sample of the water obtained from the municipality or prior to the Red Hills pipeline testing. Post-hydrostatic test water samples are not required for disposal of RCRA-exempt waste water at Dorstate SWD (Order #247-A, API #30-015-23728).

Item k. A proposed method of disposal of fluids and solids after test completion, including closure of any pits, in case the water generated from test exceeds the standards as set forth in Subsections A, B, and C of the 20.6.2.3103 NMAC (the New Mexico Water Quality Control Commission Regulations);

The fluids will be temporarily containerized as described under items g and h. Potable municipal water from the City of Carlsbad is being used to test the new piping; therefore, solids accumulation is not anticipated. Approximately 95,000 gallons of post-hydrostatic test water will be hauled off-site by Mesquite Services Inc. (Permit Number C133-211) for injection and disposal at Dorstate SWD (Order #247-A, API #30-015-23728). The hydrostatic test water will not be discharged to the surface.

Item l. A brief description of the expected quality and volume of the discharge;

The volume of the hydrostatic test water is expected to be a total of approximately 95,000 gallons. The source of water used for the hydrostatic test will be potable municipal water from the City of Carlsbad. The new piping to be tested is not anticipated to impact the quality of the water to be discharged.

Item m. Geological characteristics of the subsurface at the proposed discharge site;

The site is located in the Delaware Basin region of the Permian Basin which extends from southeastern New Mexico into west Texas. The Delaware Basin consists primarily of marine carbonates and includes the basal Leonard series, the overlying Guadalupe Series, and the uppermost Ochoan series which includes the Castile and Salado evaporates and the clastic Rustler Formation.

Soils in the area are dominated by Pyote-Maljamar-Kermit sands (USDA, 1974). These sands are Quaternary eolian deposits in undulating and rolling, well-drained to excessively drained soils. The fine surface sand overlies layers of sandy clay loam to fine sand that overlies older Quaternary alluvium deposits (Qe/Qp on Figure D-1, Appendix D). These Quaternary units are between 30 and 150 feet thick and unconformably overlie older Permian formations (USGS, 2013). Karst features were identified at and surrounding the collection/retention area based on a Petroleum Recovery Research Center database search (accessed on April 12, 2013), Figure D-2 (Appendix D).

An exception is requested to stage the frac tanks in an area with potential karst features, based on the following justification:

- The frac tanks will be staged approximately 25 feet apart to distribute the weight of the water over a larger area.
- The water will be temporarily stored in two clean, ±21,000-gallon frac tanks in the collection/retention area. As the discharge from the pipeline fills the frac tanks, trucks will

be simultaneously filled and used to transport the water to the waste disposal facility. Discharge from the pipeline to the frac tanks will be stopped, as necessary, to prevent overfilling the frac tanks until the water from the frac tanks is transferred to the haul trucks. This process will repeat until all the water is discharged from the pipeline and subsequently transferred to the haul truck. The transfer of water from the frac tanks to the trucks will be located within the collection/retention area. The frac tanks are not intended for long-term storage.

- Evidence of karst was not identified during the site inspection (Appendix A) or on the topographic map (Appendix B, Figure B-1).

Item n. The depth to and total dissolved solids concentration of the ground water most likely to be affected by the discharge; and

Total dissolved solids (TDS) concentrations in the alluvium in the region generally range from 500 to 1,100 parts per million (Nicholson, et. al, 1990).

The only source of water in the region is within the sandy/silty Dockum and Dewey Lake beds of the Permian Rustler Formation (Geolex, Inc., 2007). Based on data obtained from the OSE and Go-Tech websites, accessed on June 6, 2013, two oil and gas production water supply wells (C 02373 and C 02336) are located in Section 13 of Township 25 South and Range 33 East. Water was reported in those wells at a depth of approximately 185 feet. Total dissolved solids (TDS) were not reported for those wells in various databases checked (OSE and Go-Tech).

Based on information provided in the OSE and Go-Tech websites regarding a domestic water supply well (C 02316) located in Section 29 of Township 25 South and Range 34 East, approximately 3.4 miles to the southeast of the collection/retention area;

- Chloride concentrations range from 172 to 215 parts per million.
- Total dissolved solids (TDS) concentrations were not provided in the OSE and Go-Tech databases. Regionally, the waters of the Dockum Group beds range from 1,000 to over 3,000 milligrams per liter TDS (Geolex, 2007).

Item o. Identification of landowners at, and adjacent to, the discharge collection/retention site. Landowners within 1/3-mile of the boundary of the discharge point or temporary frac tank storage area within the Enterprise pipeline easement:

The hydrostatic test water will not be discharged to the surface; however, according to the PRRC database, the Bureau of Land Management (BLM) owns the property at the collection/retention area (located within the 50-foot construction easement) and the area located within 1/3-mile of the proposed collection/retention area. The address of the BLM is:

Carlsbad Field Office
Bureau of Land Management
620 E, Greene Street
Carlsbad, NM 88220

References

Federal Emergency Management Agency website, accessed June 6, 2013, <http://www.fema.gov/>.

Geolex, Inc., 2007, Application for New Mexico Oil Conservation Division Discharge Plan, Fortson Compressor Station (Section 25, Township 24 South, Range 30 East) on behalf of Southern Union Gas Services, Ltd.

Go-Tech, New Mexico Water database (NM WAIDS, accessed June 9, 2013, <http://octane.nmt.edu/waterquality/data/gwatersearch.aspx>.

New Mexico Mining and Minerals Division GIS Database, Mines in New Mexico, accessed June 9, 2013, <http://www.emnrd.state.nm.us/maps/MMQActiveMinesIndex.html>.

Nicholson, A., Jr. and Alfred Clebsch, Jr., United States Geological Survey, State Bureau of Mines and Mineral Resources, New Mexico Institute of Mining and Technology, Campus Station, Socorro, New Mexico, 1961, Geology and Ground-Water Conditions in Southern Lea County, New Mexico, Ground-Water Report 6, 113 pages.

Office of the State Engineer (OSE) database search, accessed April 12, 2013, <http://nmwrrs.ose.state.nm.us/nmwrrs/index.html>.

Petroleum Recovery Research Center database (PRRC) database search, accessed June 6, 2013, http://ford.nmt.edu/prrc_MF/index5.html.

United States Department of Agriculture, Soil Conservation Service and New Mexico Agricultural Experiment Station, 1974, Soil Survey, Lea County, New Mexico, January, 1974.

United States Fish and Wildlife Service National Wetlands Inventory database, accessed June 6, 2013, <http://www.fws.gov/wetlands/wetlands-mapper.html>.

United States Geological Survey, Mineral Resources On-Line Spatial Data, accessed June 6, 2013, <http://mrddata.usgs.gov/geology/state/state.php?state=NM>

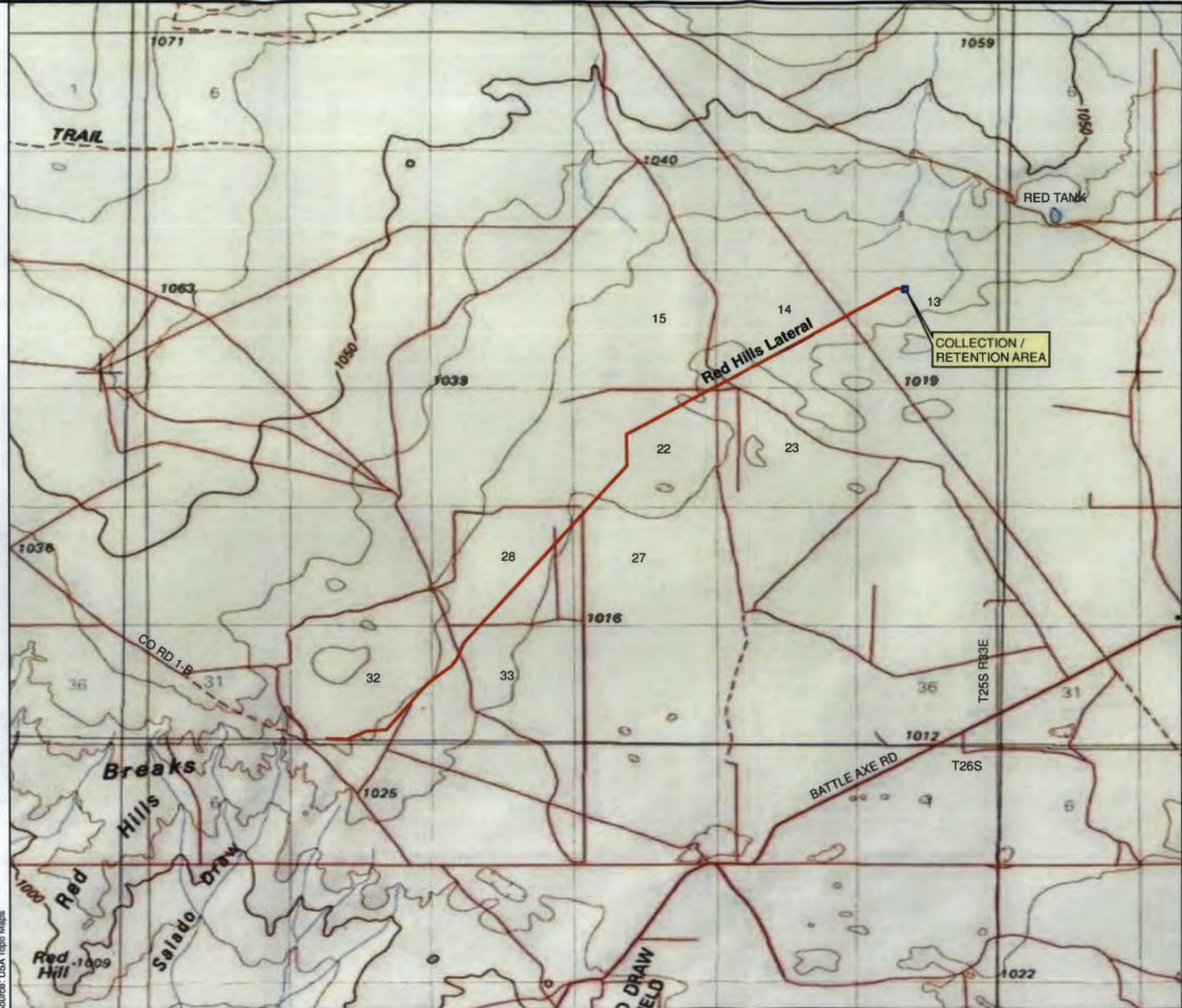
FIGURES



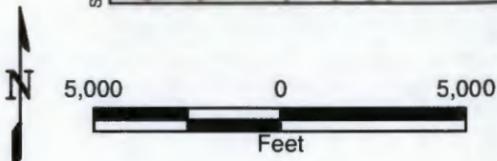
APPROXIMATE SITE LOCATION

LEGEND

- ★ APPROXIMATE SITE LOCATION
- APPROXIMATE LOCATION OF RED HILLS LATERAL NM T25S R33E



Source: USA Topo Maps



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| | | | |
|---------------------------------------|---|--|------------------------|
| PROJECT NO.: 131457 | NEW ENTERPRISE PIPELINE UNDERGOING HYDROSTATIC TESTING | | FIGURE 1 |
| DRAWN: 08/05/2013 | ENTERPRISE PRODUCTS OPERATING, LLC RED HILLS LATERAL LEA COUNTY, NEW MEXICO | | |
| DRAWN BY: PD | ORIGINATOR: B. EVERETT | | DRAWING CATEGORY: 1 |
| CHECKED BY: BE | APPROVED BY: BE | | |
| FILE NAME: 131457_SLM_RedHills.mxd | | | |

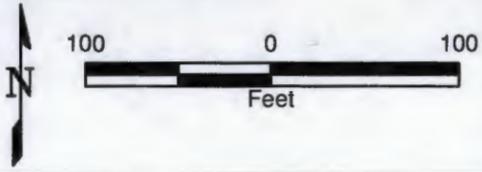


LEGEND

- APPROXIMATE ENTERPRISE EASEMENT
- WATER SUPPLY WELL
- APPROXIMATE LOCATION OF ENTERPRISE RED HILLS LATERAL
- APPROXIMATE LOCATION OF SECONDARY CONTAINMENT
- COLLECTION / RETENTION AREA
- APPROXIMATE LOCATION OF HYDROSTATIC TEST WATER FRAC TANK

Source: Esri, I-cubed, USDA, USGS, AEX, GeoEye, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community, date of photo 2011-04-19.

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| | |
|--------------|---------------|
| PROJECT NO.: | 131457 |
| DRAWN: | 08/05/2013 |
| DRAWN BY: | PD/CTH |
| CHECKED BY: | JH |
| FILE NAME: | 131457_SP.mxd |

| | |
|---|--------------|
| AERIAL MAP OF THE COLLECTION / RETENTION AREA | |
| ENTERPRISE PRODUCTS OPERATING, LLC RED HILLS LATERAL LEA COUNTY, NEW MEXICO | |
| ORIGINATOR: | J. HERNANDEZ |
| APPROVED BY: | BE |
| DRAWING CATEGORY: | 1 |

APPENDIX A
Certification of Siting Criteria

Certification of Siting Criteria

Hydrostatic Discharge Line

I, James Westerman, have performed a site visit to look for the presence of the items described below and have confirmed that evidence of these items was not observed within the specified distances from the collection/retention area, except as noted. The water storage tanks will be located in the NE 1/4 of the NW 1/4 of Section 13, Township 25 South, Range 33 East in Lea County, NM (see Figure 2).

1. Within 200 feet of a watercourse, lakebed, sinkhole or playa lake;
2. Within an existing wellhead protection area (200 feet from a private, domestic fresh water well or spring used by less than five households for domestic or stock watering purposes or 1,000 feet from any other fresh water well or spring). An oil and gas production water supply well is located approximately 260 feet to the north/northeast of the northeast corner of the collection/retention area;
3. Within a surface expression of a subsurface mining operation or karst feature.
4. Within, or within 500 feet of, a wetland; or
5. Within 500 feet from the nearest permanent residence, school, hospital, institution or church.

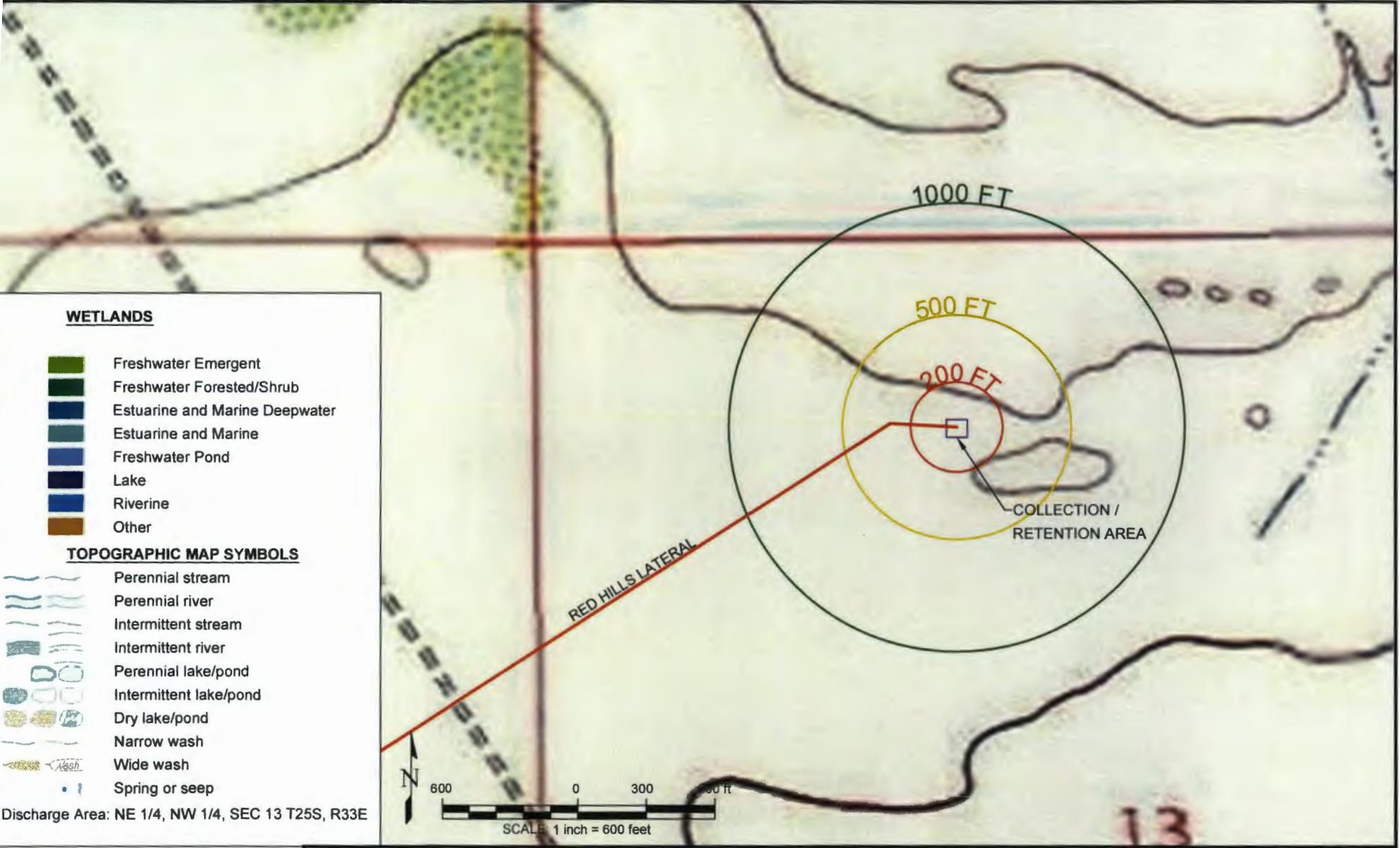
On behalf of Enterprise Products, I state that the above information is complete and true to the best of my knowledge.

James Westerman
Signature

6/11/2013
Date of Site Visit

Field Engineer
Title:

APPENDIX B
Water Feature, Water Well, and Floodplain Information



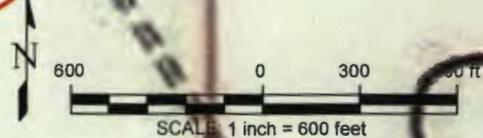
WETLANDS

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

TOPOGRAPHIC MAP SYMBOLS

- Perennial stream
- Perennial river
- Intermittent stream
- Intermittent river
- Perennial lake/pond
- Intermittent lake/pond
- Dry lake/pond
- Narrow wash
- Wide wash
- Spring or seep

Discharge Area: NE 1/4, NW 1/4, SEC 13 T25S, R33E



Source: US Fish and Wildlife Service, National Wetlands Inventory Website, accessed 6/6/2013.

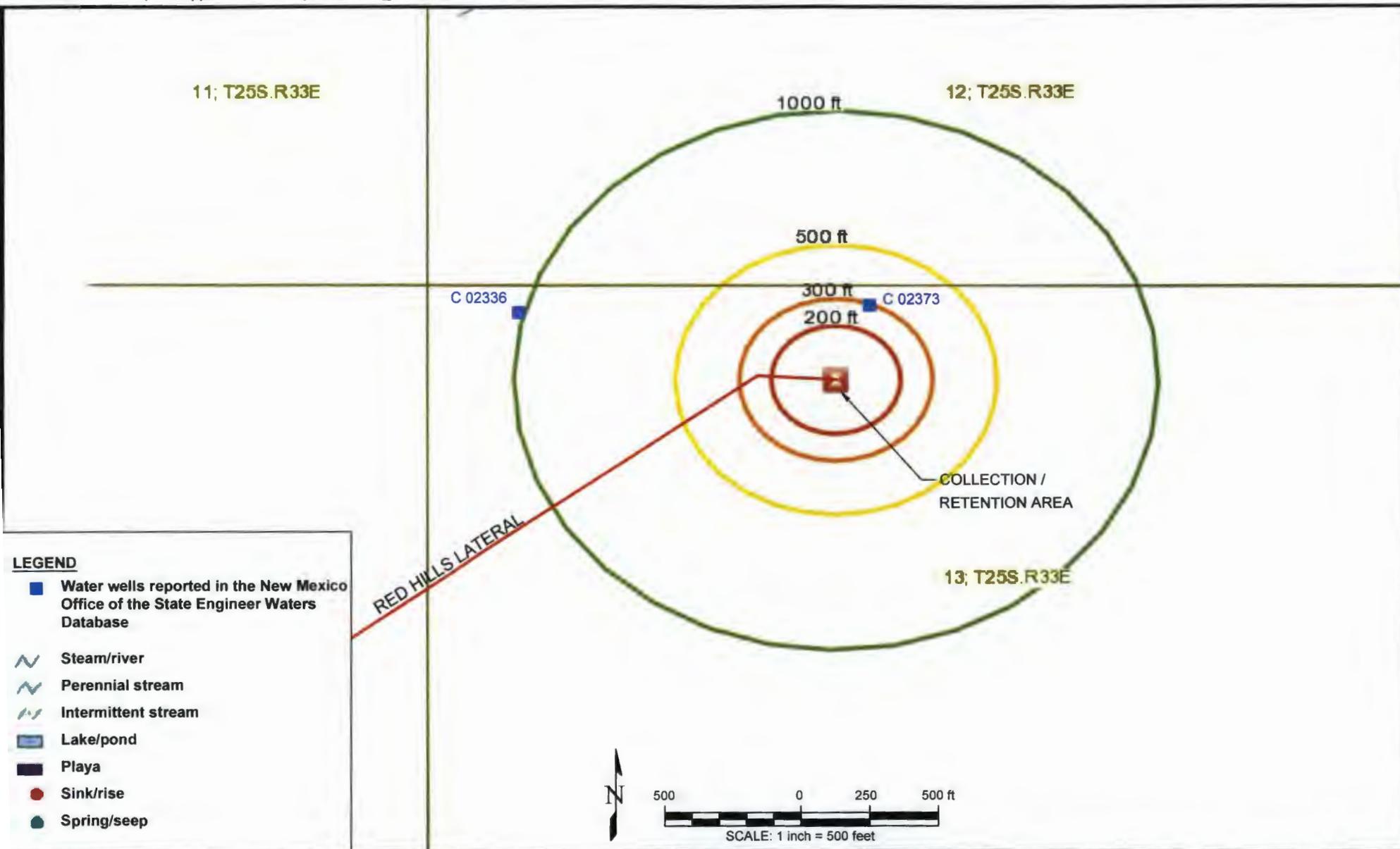
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| DRAWN: | 8/05/2013 |
| DRAWN BY: | PD/CTH |
| CHECKED BY: | JH |
| FILE NAME: | 131457_RH_D-1.dwg |

| SURFACE WATER AND WETLANDS MAP | |
|---|--------------|
| ENTERPRISE PRODUCTS OPERATING, LLC RED HILLS LATERAL LEA COUNTY, NEW MEXICO | |
| ORIGINATOR: | J. HERNANDEZ |
| APPROVED BY: | |
| DRAWING CATEGORY: | 1 |

FIGURE
B-1



- LEGEND**
- Water wells reported in the New Mexico Office of the State Engineer Waters Database
 - ~ Steam/river
 - ~ Perennial stream
 - ~ Intermittent stream
 - Lake/pond
 - Playa
 - Sink/rise
 - Spring/seep

Source: PRRC Website, accessed 6/6/2013.



| | |
|-------------|-------------------|
| PROJECT NO. | 131457 |
| DRAWN: | 8/05/2013 |
| DRAWN BY: | PD/CTH |
| CHECKED BY: | JH |
| FILE NAME: | 131457_RH_D-1.dwg |

| | |
|---|--------------|
| SURFACE WATER AND WATER WELLS MAP | |
| ENTERPRISE PRODUCTS OPERATING, LLC RED HILLS LATERAL LEA COUNTY, NEW MEXICO | |
| ORIGINATOR: | J. HERNANDEZ |
| APPROVED BY: | |
| DRAWING CATEGORY: | 1 |

FIGURE
B-2

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***35025C1725D**
12/16/2008

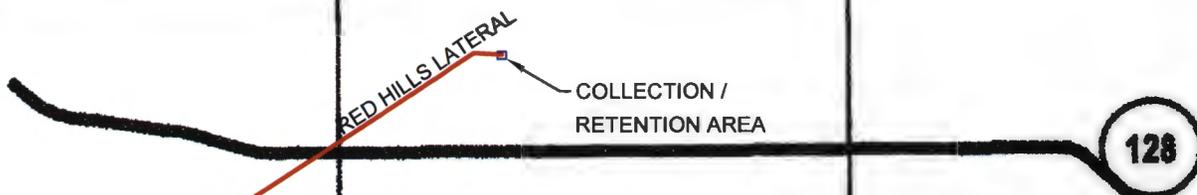
***35025C1750D**
12/16/2008

***35025C177**
12/16/2008

***35025C1875D**
12/16/2008

***35025C1900D**
12/16/2008

***35025C19**
12/16/2008



NATIONAL FLOOD INSURANCE PROGRAM

MAP INDEX

FIRM
 FLOOD INSURANCE RATE MAP
 LEA COUNTY,
 NEW MEXICO
 AND INCORPORATED AREAS

MAP INDEX
 PANELS PRINTED: 440, 445, 856,
 965, 1165, 1170, 1200, 1335, 1345, 1355,
 1365, 1670, 2102

MAP NUMBER
 35025CIND0A
 EFFECTIVE DATE
 DECEMBER 16, 2008



Federal Emergency Management Agency

ZONE D= FLOODZONES HAVE NOT BEEN DETERMINED BY FEMA

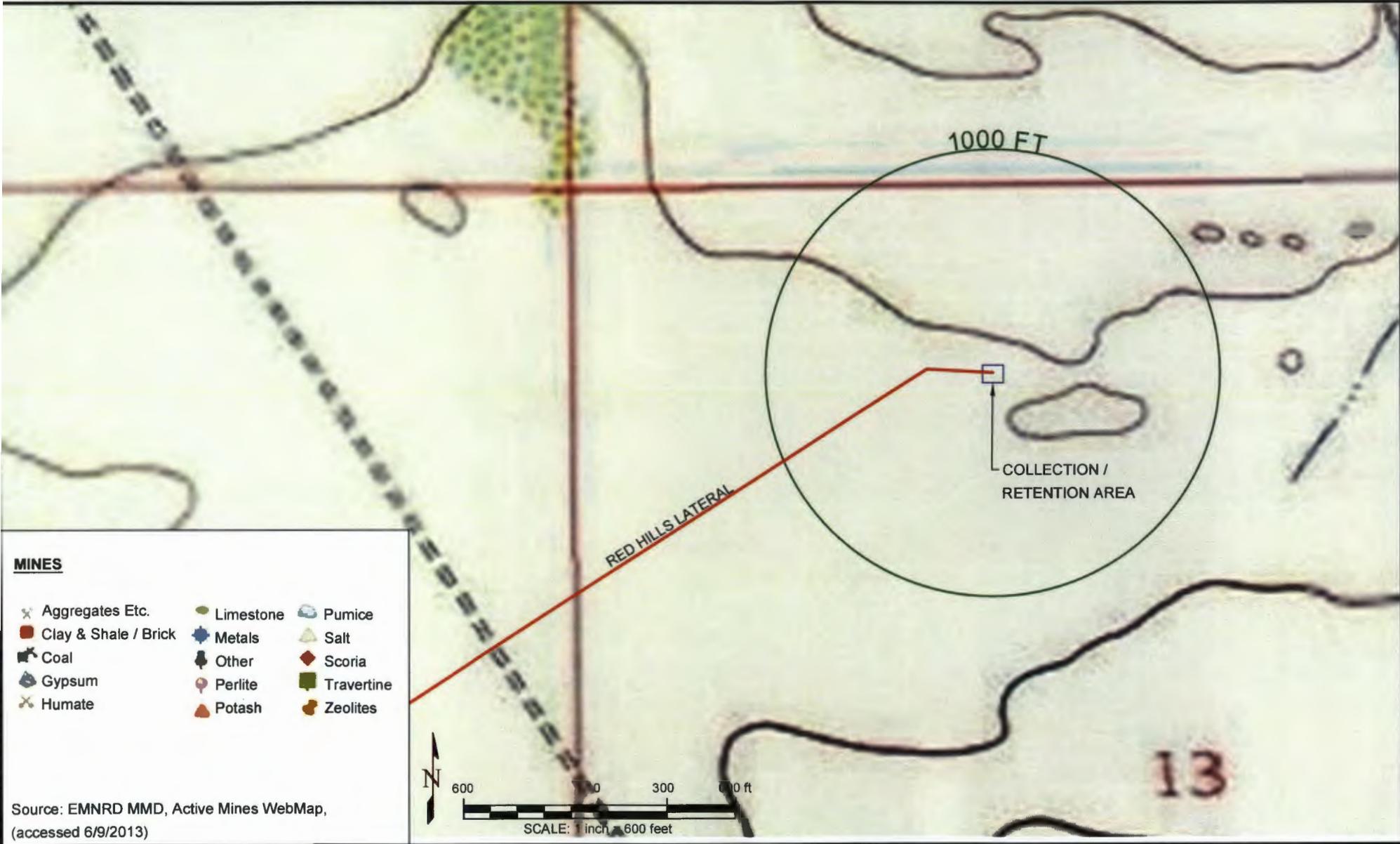
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| | | | |
|---------------------------------|---|-------------------|------------|
| PROJECT NO. 131457 | FEMA FLOOD MAP | | FIGURE |
| DRAWN: 01/29/2013 | | | |
| DRAWN BY: CTH | ENTERPRISE PRODUCTS OPERATING, LLC RED HILLS LATERAL LEA COUNTY, NEW MEXICO | | B-3 |
| CHECKED BY: JH | ORIGINATOR: J. HERNANDEZ | DRAWING CATEGORY: | |
| FILE NAME: 131457_RH_D-1.dwg | APPROVED BY: | 2 | |

APPENDIX C
Area Mine Information



Source: EMNRD MMD, Active Mines WebMap,
 (accessed 6/9/2013)

| | | | | |
|---------------------------------|------------------------|----------------------------|--|--------------------------|
| | PROJECT NO. 131457 | MINING ACTIVITY MAP | | FIGURE C-1 |
| | DRAWN: 8/05/2013 | | | |
| | DRAWN BY: PD | RED HILLS LATERAL | | |
| | CHECKED BY: ES | LEA COUNTY, NEW MEXICO | | |
| FILE NAME: 131457_RH_D-1.dwg | ORIGINATOR: B. EVERETT | DRAWING CATEGORY: 1 | | |
| | APPROVED BY: | | | |

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Jill Hernandez

From: Tompson, Mike, EMNRD <Mike.Tompson@state.nm.us>
Sent: Monday, June 10, 2013 8:10 AM
To: Jill Hernandez
Cc: Kretzmann, John, EMNRD
Subject: RE: Mines Located in Section 13, Township 25 South, Range 33 East

Jill,

The Abandoned Mine Land Program has no record of any abandoned mines located in Section 13, Township 25 South, Range 33 East in Lea County, New Mexico.

Please let me know if you have any questions.

Mike Tompson
New Mexico Abandoned Mine Land Program
(505) 476-3427

From: Jill Hernandez [<mailto:JHernandez@kleinfelder.com>]
Sent: Saturday, June 08, 2013 4:41 PM
To: Tompson, Mike, EMNRD
Subject: Mines Located in Section 13, Township 25 South, Range 33 East

Mike,
Kleinfelder has been contracted by Enterprise to prepare a hydrostatic discharge plan for an area located in Lea County, New Mexico. I am researching whether or not there are abandoned mines in the vicinity of the proposed temporary frac tank staging area. Municipal water from Carlsbad will be used to hydrostatically test the new 6.5-mile section of pipeline. After the testing, the test water will be hauled off-site to an approved injection well.

The temporary frac tank staging area will be located at:

- NE ¼ of the NW ¼, NW ¼ of the NW ¼, and the SW ¼ of the NW ¼ of Section 13, Township 25 South, Range 33 East in Lea County, New Mexico; or
- Beginning at Latitude 32° 8'7.101"N; Longitude 103°31'43.085"W and proceeding west and southwest.

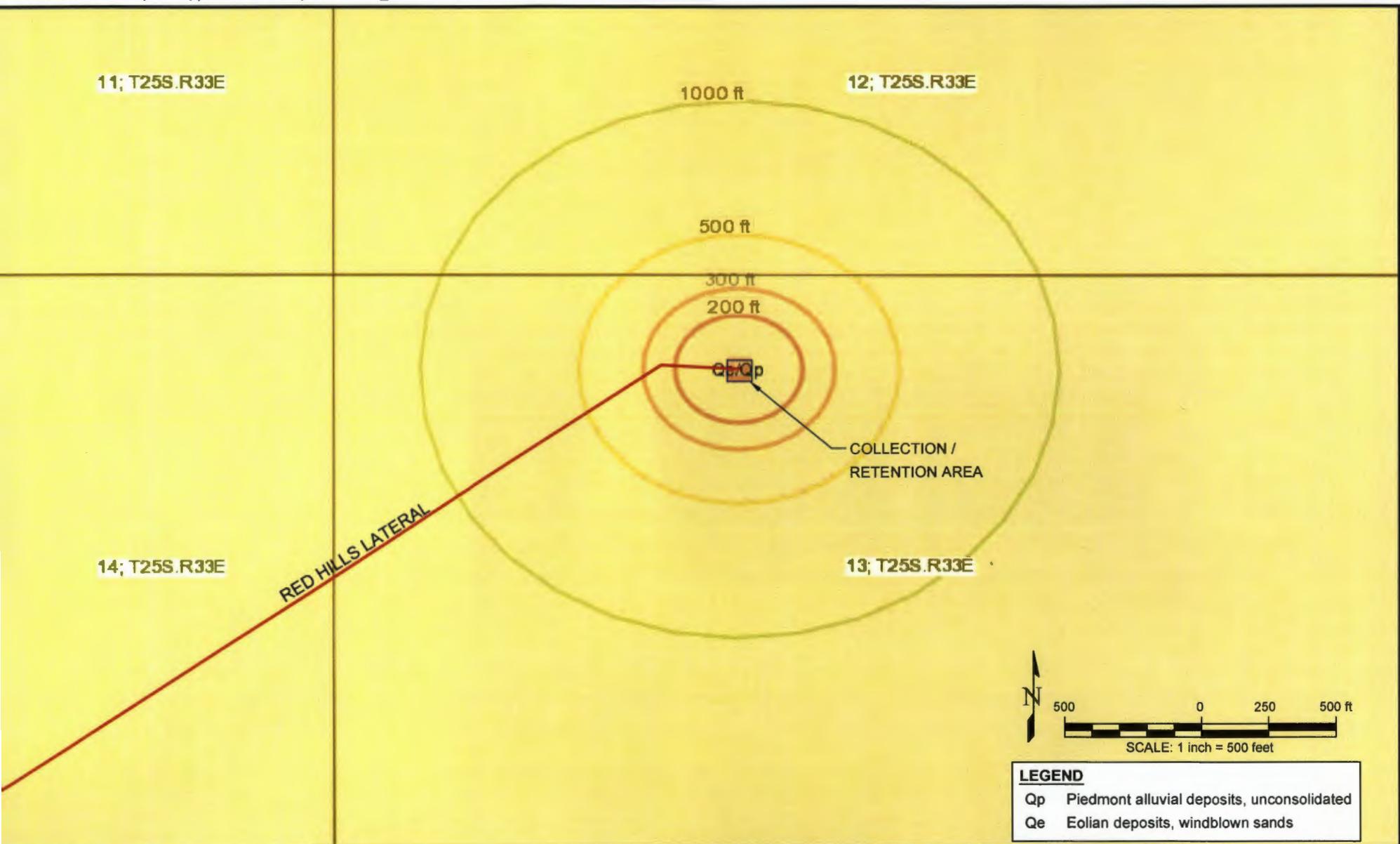
I have already checked the NMTECH pit rule portal website and no mines are shown in the discharge area. I've attached a Google Earth file showing the new pipeline section location. The proposed frac tank storage area that will temporarily store the discharge water will be located at the far northeast end of the Red Hills Lateral shown on the attached file.

Thanks,

Jill Hernandez
Staff Engineer

Kleinfelder, Inc.
849 West LeVoy Drive, Suite 200
Taylorsville, Utah 84123
o| 801.261.3336 Ext. 231
d| 801.713.2872
c| 801.690-9620
f | 801.261.3306

APPENDIX D
Geology



| LEGEND | |
|--------|--|
| Qp | Piedmont alluvial deposits, unconsolidated |
| Qe | Eolian deposits, windblown sands |

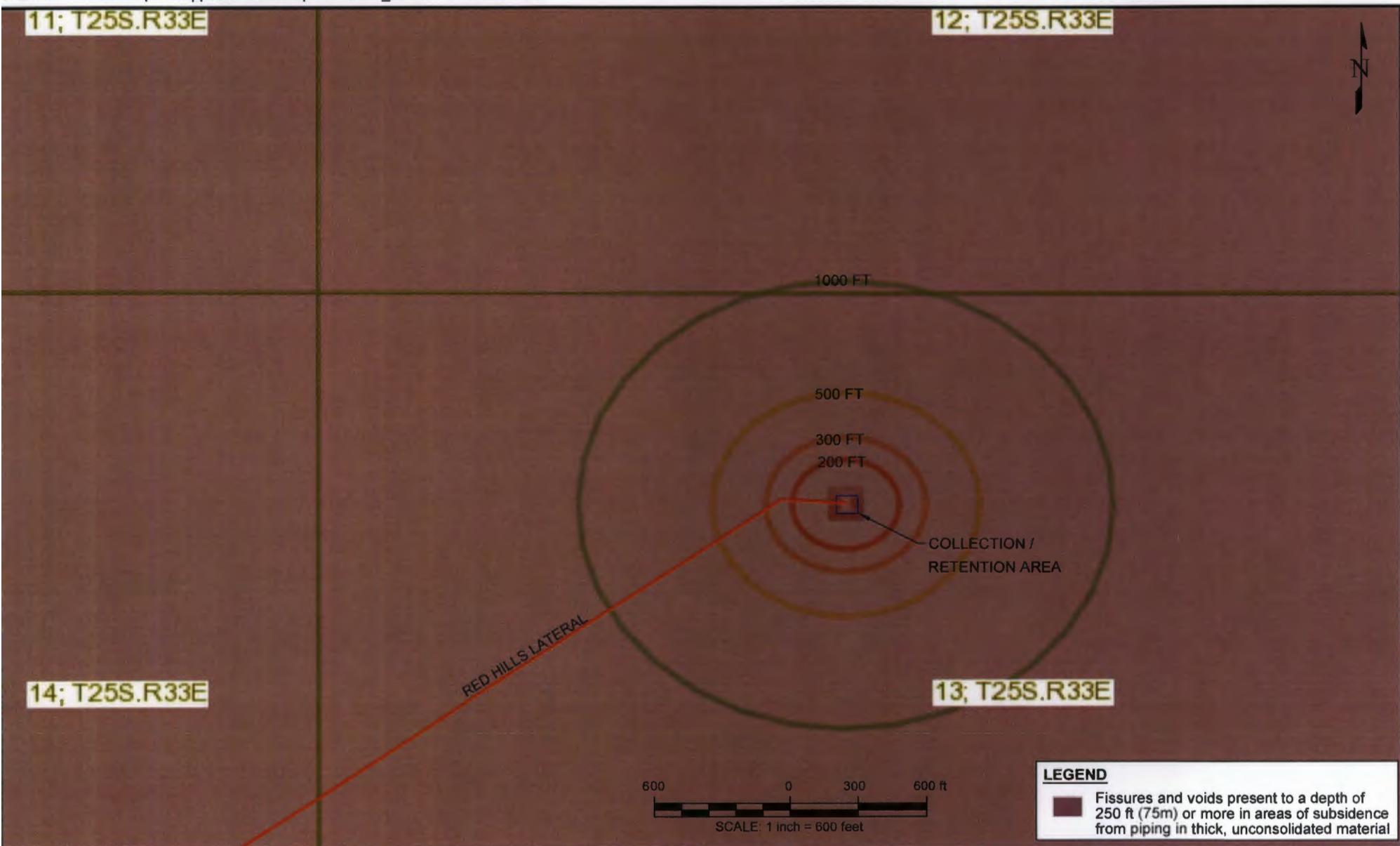
Source: PRRC Website, accessed 4/12/2013.

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| DRAWN: | 8/05/2013 |
| DRAWN BY: | PD |
| CHECKED BY: | ES |
| FILE NAME: | 131457_RH_D-1.dwg |

| GEOLOGY MAP | |
|---|------------|
| ENTERPRISE PRODUCTS OPERATING, LLC RED HILLS LATERAL LEA COUNTY, NEW MEXICO | |
| ORIGINATOR: | B. EVERETT |
| APPROVED BY: | |
| DRAWING CATEGORY: 2 | |

FIGURE
D-1



Source: PRRC Website, accessed 4/12/2013.

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| CHECKED BY: | ES |
| FILE NAME: | 131457_RH_D-1.dwg |

| | |
|---|------------|
| KARST MAP | |
| ENTERPRISE PRODUCTS OPERATING, LLC RED HILLS LATERAL LEA COUNTY, NEW MEXICO | |
| ORIGINATOR: | B. EVERETT |
| APPROVED BY: | |
| DRAWING CATEGORY: | 2 |

FIGURE
D-2