HITP - _41_

GENERAL CORRESPONDENCE

YEAR(S): 2013-2014

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of Check No. 687593 dated $6/3/13$
or cash received on $8/14/3$ in the amount of \$ $150,00$
from KLEINFELDER WEST, INC.
forHITP-41
Submitted by: BRAD JONES Date: 8/14/13
Submitted to ASD by: Lupe Meman Date: 8/14/13
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

ACKNOWLEDGEMENT OF RECEIPT OF CHECK/CASH

I hereby acknowledge receipt of Che	eck No. 687594	dated $\frac{b/3/13}{}$			
or cash received on 8/14/11	in the amo	unt of \$/00.00			
from KEINFELDER WEST, INC.					
for <u>HITP-41</u>	/				
Submitted by: BRAD JON	ES	Date: 8/14/13			
Submitted to ASD by:					
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 In-	crement			

Description	Fund	DF CES Or	FA DFA ED g. Acct. Org.	ED Acct.	Amount
1CY Reimbursement ProjectTax	064	01			1
2 Gross Receipt Tax	064	01	2329 900000	2329134	2
3 Air Quality Title V	092	13	1690 900000		3
4 PRP Prepayments	248	14	9690 900000		
5 Climax Chemical Co.	248	14	9690 900000		- T
6 Circle K Reimbursements	248	14	9690 900000		
7 Hazardous Waste Permits	339	27	1690 900000		
8 Hazardous Waste Annual Generator Fees	339	27	1690 900000		
9 Water Quality - Drinking Water	340	28	1690 900000		9
10 Water Quality - Oil Conservation Division	341	29	2329 900000		250,00 10
11 Water Quality - GW Discharge Permit	341	29	1690 900000		
	631	31	1690 900000		11
12Air Quality Permits			2919 900000		12
13Payments under Protest	651	33			13
* 14Xerox Copies	652	34	2349 900000		14
15 Ground Water Penalties	652	34	2349 900000		15
16Witness Fees	652	34	2349 900000		16
17Air Quality Penalities	652	34	2349 900000		17
18 OSHA Penalties	652	34	2349 900000		18
19Prior Year Reimbursement	652	34	2349 900000		19
20Surface Water Quality Certification	652	34	2349 900000	-	20
21Jury Duty	652	34	2349 900000	_	21
22CY Reimbursements (i.e.: telephone)	652	34	2349 900000	_	22
* 23UST Owners List	783	24	9690 900000	_	23
 * 24 Hazardous Waste Notifiers List 	783	24	9690 900000	_	24
* 25UST Maps	783	24	9690 900000	4969203 _	25
* 26UST 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
* 30Superfund CERCLIS List	783	24	9690 900000	4969211 _	30
* 31Solid Waste Permits Fees	783	24	9590 900000	4969213 _	31
32Smoking School	783	24	9690 900000	4969214 _	32
* 33SWQB - NPS Publications	783	24	9690 900000	4969222	33
* 34Radiation Licensing Regulations	783	24	9690 900000	4969228	34
* 35Sale of Equipment	783	24	9690 900000	4969301	35
5 36Sale of Automobile	783	24	9690 900000	4969302	35
** 37Lust Recoveries	783	24	9690 900000		
** 38Lust Prepayments	783	24			
39 Surface Water Publication	783	24			
40Exxon Reese Drive Ruidoso - CAF	783	24			
41Emerg. Hazardous Waste Penalties NOV		32	1640 900000 4		
42Radiologic Tech. Certification	987	05	1690 900000 4	_	
44 UST Permit Fees	989	20			
45 UST Tank Installers Fees	989	20	1690 900000 4		
46Food Permit Fees	991	26			
43 Other				_	43
* Gross Receipt Tax Required ** Site Name & Project Code Required TOTAL: Contact Person: GLENN Von GONTEN Phone #: 476-3488 Date: 8/14/13					
Received in ASD By:	Date:		RT#:	- ' ' ' ' ' ' '	ST#

NEW MEXICO ENVIRONMENT DEPARTMENT : ALBUQUERQUE FIELD OFFICE DAILY CHECK RECEIPT LOG PROGRAM DATE OF CHECK/MONEY ACCOUNT AMOUNT: RECEIVED IN MAIL NAME ON CHECK CHECK ORDER# CODE OF CHECK DATE DEPOSITED DEPOSITED BY: KLEINFELDER, WEST 6/3/13 687593 150.00 MEINFELDER WEST, FNC. 687594 100,00 25030,00 **TOTAL**

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					



August 8, 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 for Review

Phantom Banks, Big Sinks, and Ross Draw Laterals

Eddy 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 hydrostatic testing of three new, interconnected Enterprise pipelines 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 Temporary Frac Tank Staging Area for Hydrostatic Test Water;
- Figure 3 Topographic Map;
- 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 713.392.2458.

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 Phantom Banks, Big Sinks, and Ross Draw Laterals are located in the following sections of Eddy County, New Mexico:
 - Sections 7, 17, 18, 20, 29, and 32 of Township 25 South, Range 31 East;
 - o Sections 3, 9, 10, 11, and 12 of Township 25 South, Range 30 East; and
 - o Sections 5, 8 of Township 26 South, Range 31 East.
- The Phantom Banks and Big Sinks Laterals are new, welded steel, 12-inch inner-diameter pipelines, approximately 30,320 feet (5.8 miles) in total length.
- The Ross Draw Lateral is new, welded steel, 8.249-inch inner-diameter pipeline, approximately 20,230 feet (3.8 miles) in length.
- The pipelines are part of a gathering system that transports natural gas from well sites to processing facilities.
- The Phantom Banks and Big Sinks pipelines are currently scheduled to be filled with approximately 188,000 gallons of test water beginning August 28, 2013 (one test for both pipelines), with discharge to frac tanks located at the southeastern end of the Phantom Banks Lateral on August 29, 2013. Mesquite Services Inc. (Permit Number C133-211) will be used to transport approximately 116,000 gallons of the test water for disposal at Dorstate SWD (Order #247-A, API #30-015-23728) for injection and disposal. The remaining 72,000 gallons of post-hydrostatic test water will be stored in frac tanks pending hydrostatic testing of the Ross Draw pipeline.

Upon completion of the Ross Draw Lateral construction, the remaining post-hydrostatic test water will be transferred from the frac tanks into the Ross Draw Lateral and a hydrostatic test will be conducted. The Ross Draw Lateral hydrostatic testing is currently scheduled to be filled with test water beginning September 27, 2013. Upon completion of the Ross Draw hydrostatic testing, the test water will be discharged to frac tanks located in the collection/retention area at the southeastern end of the Phantom Banks Lateral on September 29, 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

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 sections of the pipeline to be tested are located in Eddy County. The location of the pipelines to be hydrostatically tested is shown on Figure 1. Water from the hydrostatic testing will be temporarily stored in 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 50x305-foot secondary containment located in the collection retention area. The size of collection retention area will be 50x305 feet with an additional portion located along the 30-foot Ross Draw Lateral easement, as depicted on Figure 2 to allow space for the trucks during dewatering operations. The collection/retention area will be located within the 50-foot Phantom Banks pipeline construction right-of-way and the 30-foot Ross Draw Lateral easement approximately 20 miles southeast of Loving, New Mexico. Directions to the collection/retention area from Loving, New Mexico are:

- From the intersection of W. Cedar Street and N. 4th Street, head north on N 4th Street toward W Elm Street for approximately 0.3 miles;
- Turn right onto Oak Road and continue for 1.7 miles;
- Turn left on to S Donaldson Farm Road and continue for 1.5 miles:
- Turn right onto NM-31/Potash Mines Road and continue for 4.5 miles;
- Turn right onto NM-128 E/Jal Highway and continue for 12.8 miles;
- Turn right onto Twin Wells Road and continue for 5.6 miles;
- Turn right to stay on Twin Wells Road and continue for 2.1 miles;
- Turn left to stay on Twin Wells Road and continue for 1.2 miles;
- Turn left to stay on Twin Wells Road and continue for 1.7 miles;
- Slight left to stay on Twin Wells Road and continue for 1.4 miles;
- Turn right onto Buck Jackson Road and continue for 2.4 miles;
- Turn left to stay on Buck Jackson Road at the fork in the road for 0.7 miles;
- Turn left onto unnamed road and continue 1.8 miles to the southern end of the Phantom Banks pipeline and the collection/retention area.

Item c. Legal description of the discharge location;

The collection/retention area will be located at:

SW/4 of the SW/4 of Section 17 and NW/4 of the NW/4 of Section 20, Township 25 South, Range 31 East, Eddy County, New Mexico (See Figure 1). The approximate coordinates for the proposed collection/retention area location are: Latitude 32° 7'23.30"N; Longitude 103°48'22.05"W.

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

- Figure 1 Regional map depicting topography, the pipeline section undergoing testing, and the collection/retention area.
- Figure 2 Site-specific aerial map depicting the collection/retention area.
- Figure 3 Site-specific topographic map depicting topography in the collection/retention area.

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

i. 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 May 9, 2013 by reviewing the topographic map and 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 May 9, 2013. According to the PRRC database and OSE records, the collection/retention area is not located within a wellhead protection area (Figure B-2, Appendix B). In addition, no water wells were observed during the site visit within 1,000 feet of the proposed collection/retention area.

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 May 9, 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 May 9, 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 1900) was reviewed on the FEMA website for 100-year floodplains in the vicinity of the proposed collection/retention area. According to the FEMA website, the proposed collection/retention area is not located within a 100-year floodplain. The collection/retention area and the area surrounding the site are located within an area designated Zone X (areas determined to be above the 500-year floodplain) (FEMA, fema.gov). Figure B-3 is a copy of the floodplain map and is included in Appendix B.

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

The NWI was searched for wetlands in the vicinity of the collection/retention area on May 9, 2013 (Figure B-3, 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 in the vicinity of proposed collection/retention area. Figure C-1 (Appendix C), generated from the New Mexico Mining and Minerals Division GIS database, accessed on May 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 May 20, 2013 to assess the presence of abandoned subsurface mines in the vicinity of the proposed collection/retention area. According to Mr. Tompson, there is no record of abandoned subsurface mines within Sections 17 and 20, Township 25 South, Range 31 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 hydrostatic testing is on new piping, previous contents of the pipe do not need to be cleared. The pipeline will be filled with water and 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.

The hydrostatic testing will begin with the Phantom Banks and Big Sinks Laterals (one test for both pipelines). Approximately 188,000 gallons of potable, municipal water from the City of Carlsbad will be transferred into the Phantom Banks and Big Sinks Laterals from water trucks. The hydrostatic test of the Phantom Banks and Big Sinks Laterals will be conducted. Upon completion of the Phantom Banks and Big Sinks hydrostatic testing, the post-hydrostatic test

131457.7-ALB13LT002 Copyright 2013 Kleinfelder water will be discharged to frac tanks for temporary storage at the southeast end of the Phantom Banks Lateral within the collection/retention area. Mesquite Services Inc. (Permit Number C133-211) will be used to transport approximately 116,000 gallons of the test water for disposal at Dorstate SWD (Order #247-A, API #30-015-23728) for injection and disposal. The remaining 72,000 gallons of post-hydrostatic test water will then be reused in the hydrostatic test of the Ross Draw Lateral. Water will be transferred from the frac tanks to the Ross Draw Lateral and a hydrostatic test will be conducted. Upon completion of the Ross Draw Lateral hydrostatic testing, the water will be transferred to frac tanks and temporarily stored in the collection/retention area located at the southeastern end of the Phantom Banks Lateral. The water from the Ross Draw Lateral testing will be transferred from the frac tanks to water trucks for injection and disposal at Dorstate SWD (Order #247-A, API #30-015-23728).

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 Phantom Banks and Big Sinks Laterals, the water will be transferred to and temporarily stored in nine clean, ±21,000-gallon frac tanks in the collection/retention area (Figure 2).

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 collection/retention area.

Water will then be reused to test an adjacent section of pipeline, the Ross Draw Lateral. Hoses will be used to transfer water from the frac tanks into the Ross Draw Lateral. Drip pans will be used under pumps and at hose connections. Upon completion of the Ross Draw Lateral hydrostatic testing, the water will be transferred to frac tanks and temporarily stored in the collection/retention area (Figure 2).

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 the test water into frac tanks for temporary storage. Secondary containment consisting of plastic liners will be used under the frac tanks to prevent leakage to the ground surface. Personnel will be present during test water transfer operations to close valves in case of leaks. 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 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 is being used to test the new piping; therefore, solids accumulation is not anticipated. Approximately 116,000 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) at completion of the Phantom Banks and Big Sinks test. The five frac tanks holding this water will be removed from the collection/retention area once the water has been hauled offsite. The remainder of the used test water (approximately 72,000 gallons) will be temporarily stored in four clean ±21,000-gallon frac tanks at the collection/retention area to be used in the hydrostatic testing of the connecting Ross Draw Lateral in September 2013. Post-hydrostatic test water will be hauled off-site by Mesquite Services Inc. (Permit Number C133-211) for injection disposal at Dorstate SWD (Order #247-A, API #30-015-23728) at completion of the Ross Draw test. No surface discharge is proposed.

Item I. 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 188,000 gallons. The source of water used for the hydrostatic test will be potable municipal water from the City of Carlsbad. Because the piping is new, the hydrostatic testing is not expected to degrade the water.

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 Kermit – Berino fine sands. These sands are Quaternary eolian deposits and unconsolidated alluvial deposits that cover most of the underlying older Quaternary alluvium deposits of the upland plains and piedmont areas (Qe/Qp on Figure D-1, Appendix D). These Quaternary units are between 30 and 150 feet thick and unconformably overlie older Permian formations. The Permian Rustler Formation outcrops in the area and is composed of siltstone, gypsum, sandstone, and dolomite. No known karst features were identified in the area based on a Petroleum Recovery Research Center database search (accessed on May 9, 2013), Figure D-2 (Appendix D).

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

East of the Pecos River, specific conductance measurements of the groundwater in the shallow alluvium, if present, have been reported greater than 6,000 micromhos per centimeter (Bjorklund, et.al., 1959). Based on a specific conductivity measurement of 6,000 micromhos per centimeter, total dissolved solids (TDS) concentrations would be approximately 4,020 parts per million.

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). In the local area, water from wells can be found in the Triassic redbeds at depths of approximately 300 feet. Water is fair in quality but locally impotable (Henderson and Jones, 1952).

Based on data obtained from the OSE and Go-Tech websites, accessed on May 9, 2013, one livestock well is located in Section 21 of Township 25 South and Range 31 East, approximately 1.5 miles to the southeast of the proposed temporary frac tank storage area. The depth to water was reported at 390 feet below ground surface. Total dissolved solids (TDS) for this well was not included in various databases checked (OSE, GoTech); however, the chloride content range was reported to be from 73 to 119 parts per million. 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 temporary frac tank storage area and the area located within 1/3-mile of the proposed temporary frac tank storage area. The address of the BLM is:

Carlsbad Field Office

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

References

Bjorkland, L.J. and W.S. Motts, 1959. Geology and Water Resources of the Carlsbad Area, Eddy County, New Mexico: United States Department of the Interior Geological Survey and New Mexico State Engineer; Open-File Report; 517 pgs.

Federal Emergency Management Agency website, accessed May 9, 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 May 9, 2013, http://octane.nmt.edu/waterquality/data/gwatersearch.aspx.

Henderson, G.E. and R.S. Jones, 1952, Geology and Groundwater Resources of Eddy County, New Mexico: New Mexico Bureau of Mines and Minerals; Ground-Water Report 3; 169 pgs.

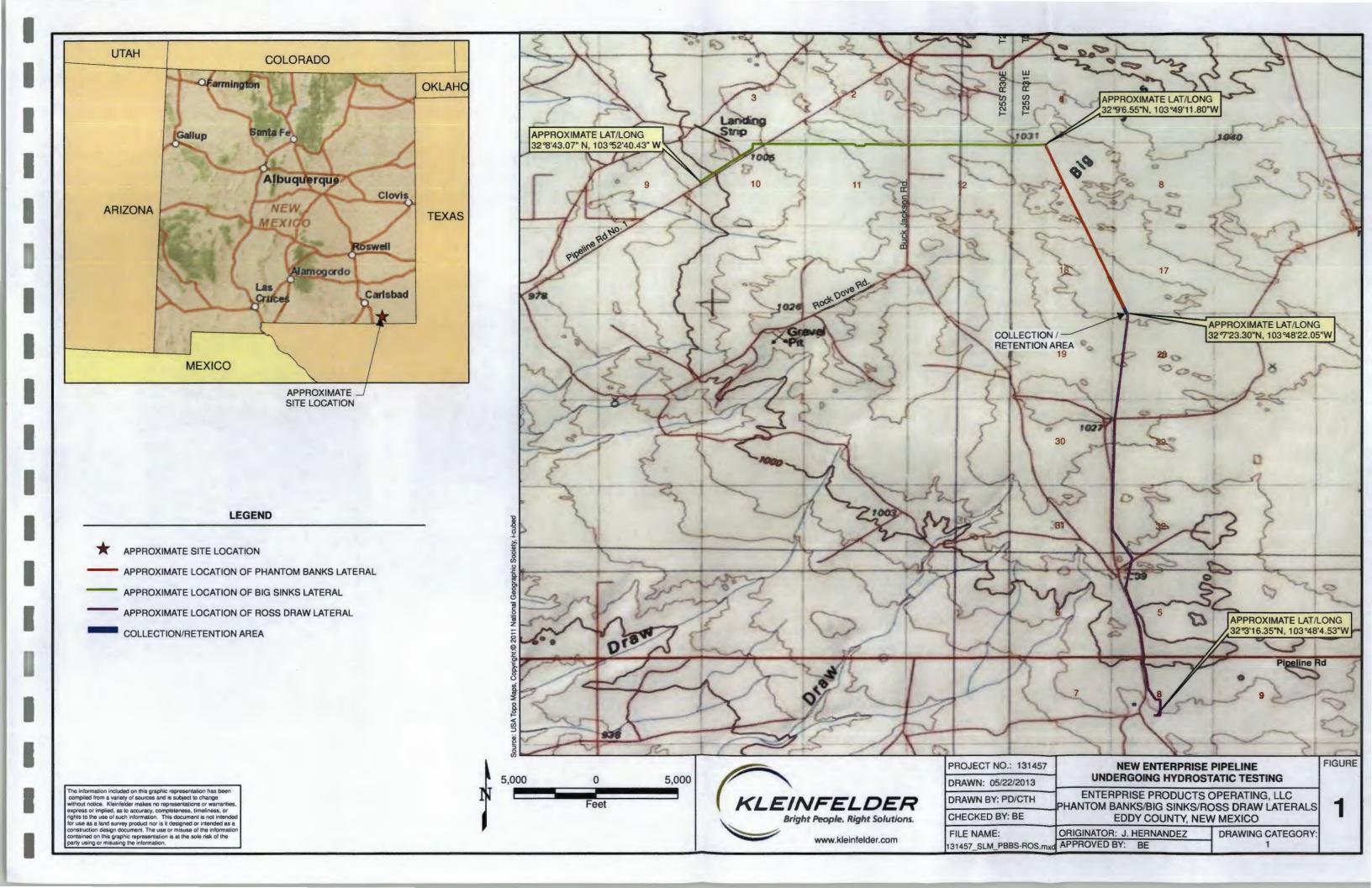
New Mexico Mining and Minerals Division GIS Database, Mines in New Mexico, accessed May 9, 2013, http://www.emnrd.state.nm.us/maps/MMQActiveMinesIndex.html.

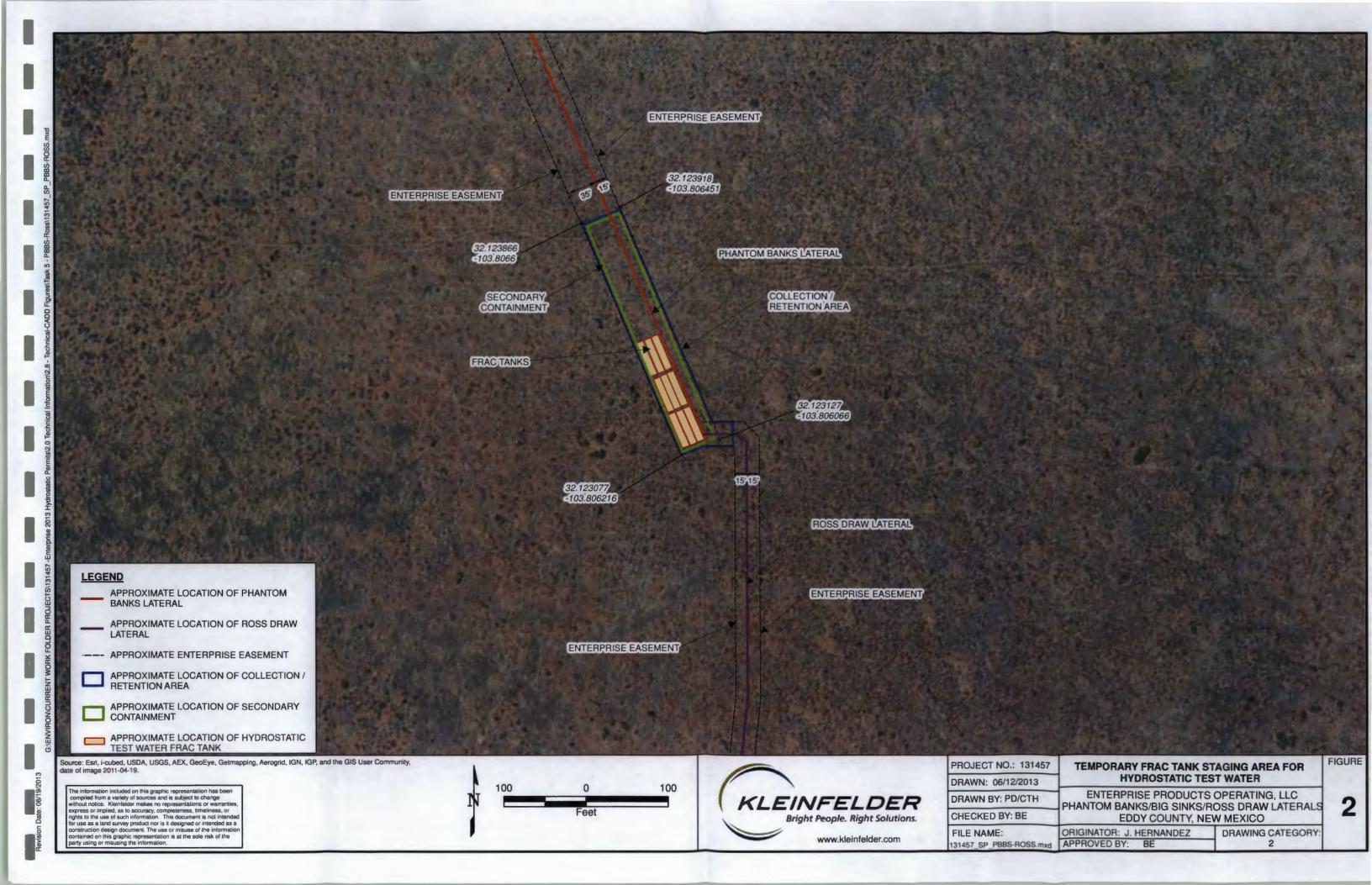
Office of the State Engineer (OSE) database search, accessed May 9, 2013, http://nmwrrs.ose.state.nm.us/nmwrrs/index.html.

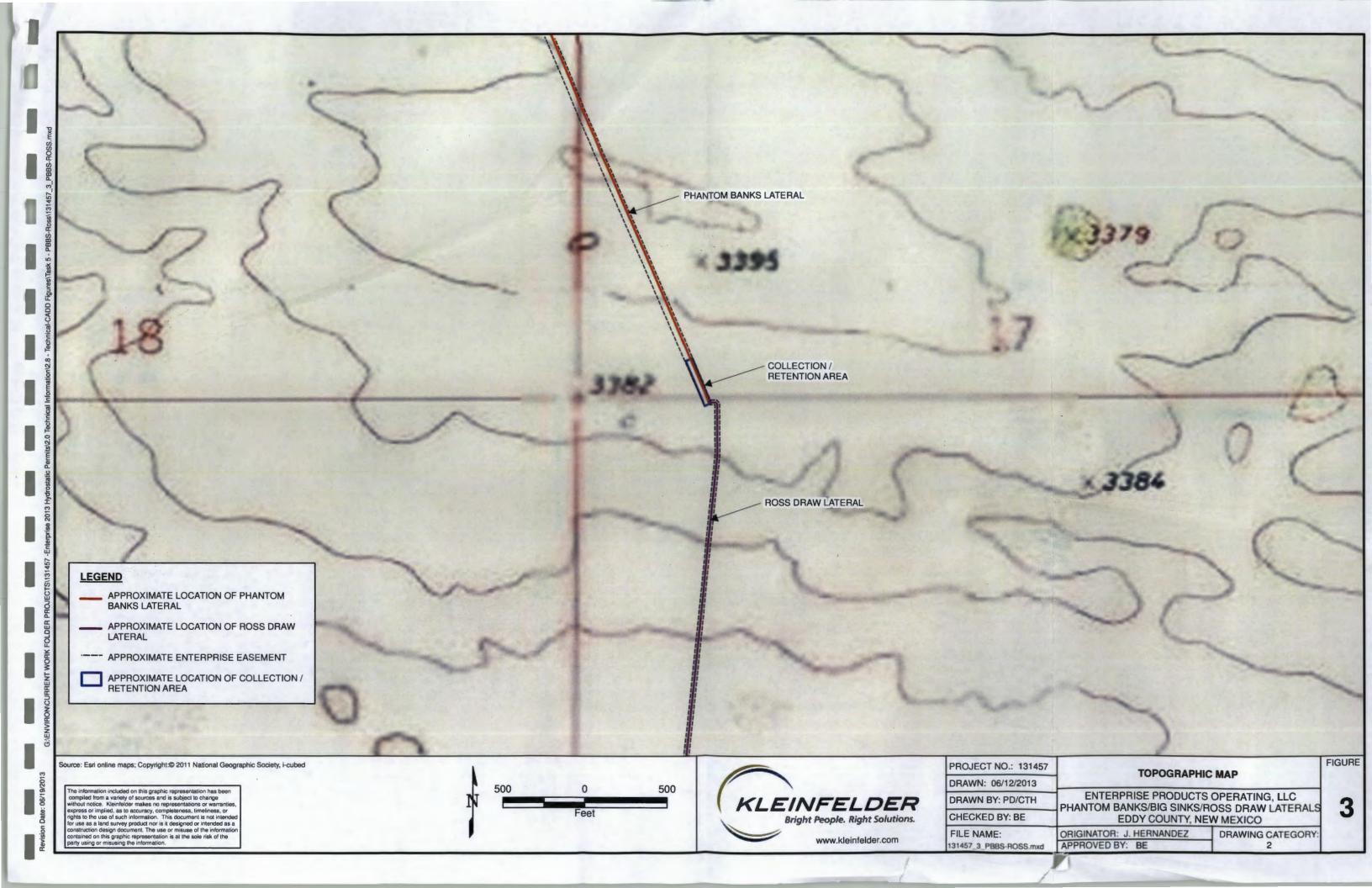
Petroleum Recovery Research Center database (PRRC) database search, accessed May 9, 2013, http://ford.nmt.edu/prrc MF/index5.html.

U.S. Fish and Wildlife Service National Wetlands Inventory database, accessed May 9, 2013, http://www.fws.gov/wetlands/wetlands-mapper.html.

FIGURES







APPENDIX A Certification of Siting Criteria

Certification of Siting Criteria

Hydrostatic Discharge Line

I, Are 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 distance from the collection/retention area. The water storage tanks will be located in the SW 1/4 of the SW 1/4 of Section 17 and in the NW 1/4 of the NW 1/4 of Section 20, Township 25 South, Range 31 East in Eddy County, NM (see Figure 2).

- 1. Within 200 feet of a watercourse, lakebed, sinkhole or playa lake;
- 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);
- Within a surface expression of a subsurface mining operation or karst feature;
- 4. Within, or within 500 feet of, a wetland; or
- 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.

ionature

1

Title:

Date of Site Visit

APPENDIX B Water Feature, Water Well, and Floodplain Information

NTRUMED IMAGES: Images: B-1.jpg Images: B-2 Surface-Water Wells PBBS.jpg Images: B-2_SurfaceWater1.jpg Images: B-3.jpg Images: D-1.jpg Images: D-2.jpg Images: GEO_LEGEND.jpg Images: mines legend.jpg Images: PPRC Map Li ATTACHED XREFS: LBUQUERQUE, NM AD FILE: G:\ENVIRON\CURRENT WORK FOLDER PROJECTS\131457 -Enterprise 2013 Hydrostatic Permits\2.0 Technical Information\2.8 - Technical-CADD LRYOUTEB-102 Aug 2013, 4:11pm, pdan to a management HANTOM BANKS! **WETLANDS** 1000 FT Freshwater Emergent Freshwater Forested/Shrub Estuarine and Marine Deepwater **Estuarine and Marine** COLLECTION / Freshwater Pond RETENTION AREA 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 一次等的 Wide wash 1000 ft

Spring or seep

Discharge Area: SW 1/4, SW 1/4, SEC 17, and NW 1/4,

NW 1/4, SEC 20, T25S, R31E

Source: US Fish and Wildlife Service, National Wetlands Inventory Website, accessed 5/9/2013.

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SCALE: 1 inch = 1000 feet

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	CHECKED BY:	BE
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	PBBS-ROSS.dwg	

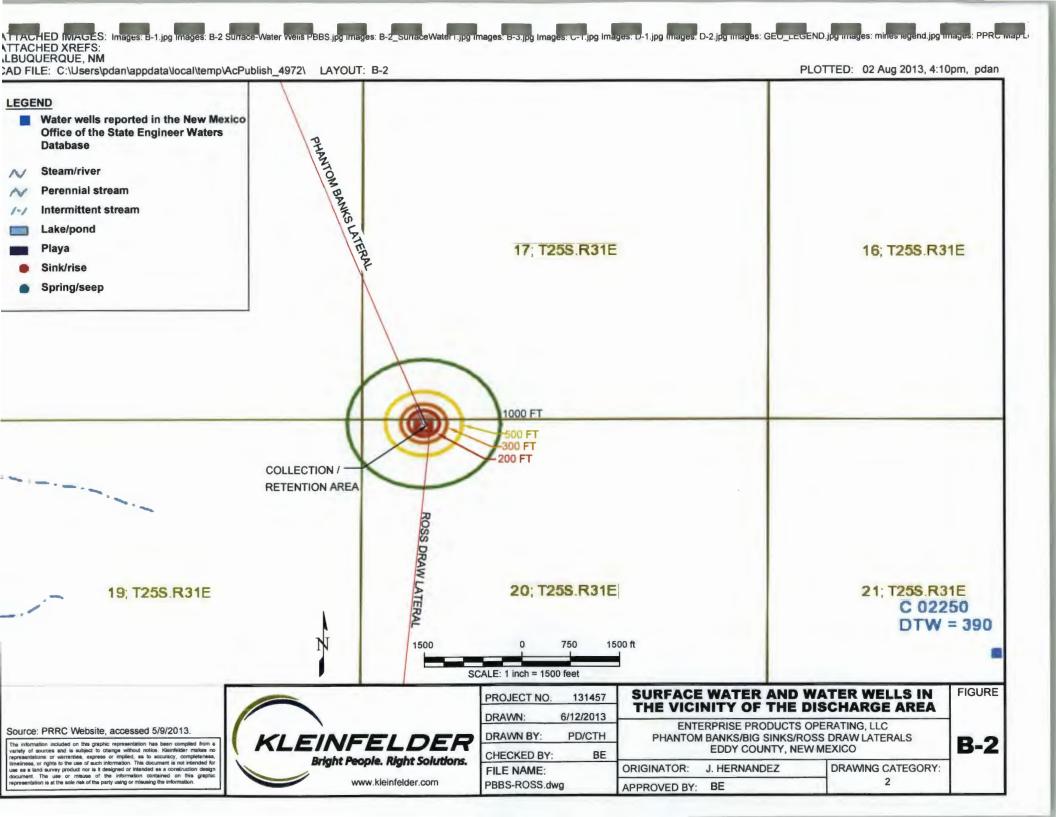
SURFACE WATER AND WETLANDS NEAR THE DISCHARGE AREA

ENTERPRISE PRODUCTS OPERATING, LLC PHANTOM BANKS/BIG SINKS/ROSS DRAW LATERALS **EDDY COUNTY, NEW MEXICO**

J. HERNANDEZ DRAWING CATEGORY: **ORIGINATOR:** APPROVED BY: BE

FIGURE

B-1



21 20

Notice to User. The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on Insurence applications for the subject MAP NUMBER

500-YEAR FLOOD LEVEL

35015C1900D **EFFECTIVE DATE JUNE 4, 2010**

Federal Emergency Management Agency

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ENTERPRISE PRODUCTS OPERATING, LLC PHANTOM BANKS/BIG SINKS/ROSS DRAW LATERALS EDDY COUNTY, NEW MEXICO

FEMA FLOOD MAP OF THE

DISCHARGE AND SURROUNDING AREA

ORIGINATOR: J. HERNANDEZ DRAWING CATEGORY: APPROVED BY: BE

FIGURE

B-3

APPENDIX C Area Mine Information

ATTACHED IMAGES: Images: B-1.jpg Images: B-2 Surface-Water Wells PBBS.jpg Images: B-2_Surface-Water Wells PBBS.jpg Images: B-2_Surface-Water Wells PBBS.jpg Images: B-2_Surface-Water Wells PBBS.jpg Images: PPRC Map Lo ATTACHED XREFS: ALBUQUERQUE, NM CAD FILE: C:\Users\pdan\appdata\local\temp\AcPublish_4972\ LAYOUT: C-1 PLOTTED: 02 Aug 2013, 4:11pm, pdan HANTOM BANKS! 1000 FT iko COLLECTION / RETENTION AREA MINES Aggregates Etc. Limestone Pumice Clay & Shale / Brick Metals ** Salt Coal Other Scoria Gypsum Perlite Travertine X Humate Potash Zeolites 1000 1000 ft Source: EMNRD MMD, Active Mines WebMap, (accessed 5/9/2013) SCALE: 1 inch = 1000 feet **FIGURE** MINING ACTIVITY NEAR THE PROJECT NO. 131457 **DISCHARGE AREA** 6/12/2013 DRAWN: ENTERPRISE PRODUCTS OPERATING, LLC DRAWN BY: PD/CTH KLEINFELDER PHANTOM BANKS/BIG SINKS/ROSS DRAW LATERALS C-1 The information included on this graphic representation has been compiled from a variety of sources and is subject to change without notice. Kleinfelder makes no **EDDY COUNTY, NEW MEXICO** CHECKED BY: BE Bright People. Right Solutions. ORIGINATOR: J. HERNANDEZ DRAWING CATEGORY: FILE NAME: use as a land survey product nor is it designed or intended as a construction design www.kleinfelder.com 2 PBBS-ROSS.dwg BE APPROVED BY:

Jill Hernandez

From:

Tompson, Mike, EMNRD < Mike.Tompson@state.nm.us>

Sent:

Wednesday, May 22, 2013 8:59 AM

To:

Jill Hernandez

Cc:

Kretzmann, John, EMNRD

Subject:

RE: Sections 17 and 20, Township 25 South, Range 31 East

Jill,

The New Mexico Abandoned Mine Land Program has no record of any abandoned mines in Section 17, Township 25 South, Range 31 East.

Please let me know if you have any questions about this analysis.

Mike Tompson

New Mexico Abandoned Mine Land Program

From: Jill Hernandez [mailto:JHernandez@kleinfelder.com]

Sent: Monday, May 20, 2013 9:57 AM

To: Tompson, Mike, EMNRD

Subject: Sections 17 and 20, Township 25 South, Range 31 East

Mike.

Kleinfelder has been contracted by Enterprise to prepare a hydrostatic discharge plan for an area located in Eddy 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 5.7-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:

- SW ¼ of the SW ¼ of Section 17, Township 25 South, Range 31 East in Eddy County, New Mexico; or
- Latitude 32° 7'23.30"N; Longitude 103°48'22.05"W.

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 southeast end of the Phantom Banks Lateral shown on the attached file.

Discharge water from a second hydrostatic test on an adjacent pipeline to the south will be discharged at a later date to the ground surface on BLM property in the same location as the proposed temporary frac tank staging area previously mentioned. Please let me know if you need any other information.

Thanks,

Jill Hernandez

Staff Engineer

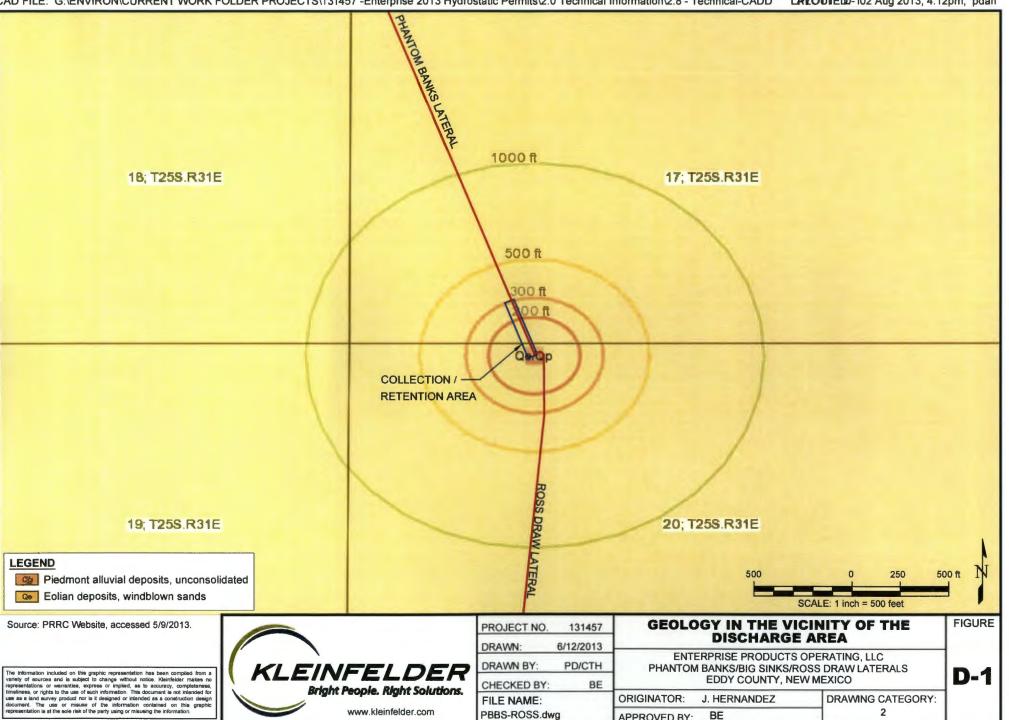
Kleinfelder, Inc.

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

ATTACHED IMAGES: Images: B-1.jpg Images: B-2 Surface-Water Wells PBBS.jpg Images: B-3 jpg Images: B-1 jpg Images: B-2 Surface-Water Wells PBBS.jpg Images: B-3 jpg I ATTACHED XREFS:

LBUQUERQUE, NM CAD FILE: G:\ENVIRON\CURRENT WORK FOLDER PROJECTS\131457 -Enterprise 2013 Hydrostatic Permits\2.0 Technical Information\2.8 - Technical-CADD LRYOUTEID-102 Aug 2013, 4:12pm, pdan



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APPROVED BY:

ATTACHED IMAGES: Images: B-1.jpg images: B-2 Sunace-Water wells PBBS.jpg images: B-2_SunaceWater r.jpg images: B-3.jpg Images. D-1.jpg Images. D-2.jpg images: GEO_LEGEND.jpg images: mines regend.jpg images: PPRC wap Li ATTACHED XREFS: LBUQUERQUE, NM CAD FILE: C:\Users\pdan\appdata\local\temp\AcPublish_4972\ LAYOUT: D-2 PLOTTED: 02 Aug 2013, 4:10pm, pdan 1000 ft 17; T25S.R31E 18; T25S.R31E 500 ft 300 ft 000 ft COLLECTION RETENTION AREA 20: T25S.R31E 19; T25S.R31E 500 ft **LEGEND** SCALE: 1 inch = 500 feet Transparent - no mapped karst No karst was indentified in the vicinity of the discharge area. **FIGURE** KARST IN THE VICINITY OF THE Source: PRRC Website, accessed 5/9/2013. PROJECT NO. 131457 **DISCHARGE AREA** 6/12/2013 DRAWN: ENTERPRISE PRODUCTS OPERATING, LLC DRAWN BY: PD/CTH PHANTOM BANKS/BIG SINKS/ROSS DRAW LATERALS KLEINFELDER **D-2** The information included on this graphic representation has been compiled from a variety of sources and is subject to change without notice. Kleinfelder makes no EDDY COUNTY, NEW MEXICO BE variety of sources and a subject to charge wintow, induce, hearing-order makes in or impresentations or wateraties, express or implied, as to accuracy, completeness, breitiness, or rights to the use of such information. This document is not intended by use as a land survey product nor is it designed or intended as construction design document. The use or misuse of the information contained on this graphic representation is at the sole retail of the party using or misusing the information. CHECKED BY: Bright People. Right Solutions. DRAWING CATEGORY: ORIGINATOR: J. HERNANDEZ FILE NAME: www.kleinfelder.com PBBS-ROSS.dwg APPROVED BY: BE