HIP - __119-1__

GENERAL CORRESPONDENCE

YEAR(S): 2013 to Present

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of Check No. 687592 dated 6/03/13

or cash received on 6/20/13 in the amount of $ 100.00

from Kleinfelder West

for HTP-119-1

Submitted by: Brad Tomz Date: 6/20/13

Submitted to ASD by: Rachel Hum Date: 6/21/13

Received in ASD by: _____ Date: _____

Filing Fee X New Facility: _____ Renewal: _____

Modification _____ Other _____

Organization Code 521.07 Applicable FY FY13

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. 687591 dated 6/03/13

or cash received on 6/20/13 in the amount of $ 200.00

from Kleinfelder West

for HIP-119-1

Submitted by: Brad Jones Date: 6/20/13

Submitted to ASD by: Michael Herrera Date: 6/24/13

Received in ASD by: _____ Date: _____

Filing Fee _____ New Facility: _____ Renewal: _____

Modification _____ Other X Modification fee

Organization Code 521.07 Applicable FY FY13

To be deposited in the Water Quality Management Fund.

Full Payment _____ or Annual Increment _____

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

John Bemis
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey
Division Director
Oil Conservation Division

June 20, 2013

Ms. Shiver Nolan
Enterprise Products Operating LLC
P.O. Box 4324
Houston, Texas 77210

Re: Hydrostatic Test Discharge Permit Modification of HIP-119
Permit: HIP-119-1
Enterprise Products Operating, LLC
BOPCO 4-Mile Lateral and Cotton Draw Lateral Pipelines
Locations: NE/4 of the NE/4, Section 25, Township 24 South, Range 30 East, NMPM, Eddy County, New Mexico

Dear Ms. Nolan:

The New Mexico Oil Conservation Division (OCD) has received Enterprise Products Operating LLC's (Enterprise) revised notice of intent to modify permit HIP-119, dated June 19, 2013, for authorization to discharge approximately 210,000 gallons of wastewater generated from a hydrostatic test of two new 12-inch natural gas gathering system transmission pipelines (34,459 feet of the Cotton Draw Lateral and 21,120 feet of BOPCO 4-Mile Lateral), located approximately 17 miles southeast of Loving, New Mexico. The proposed discharge/collection /retention location is within Enterprise's pipeline easement right-of-way located in the NE/4 of the NE/4, Section 25, Township 24 South, Range 30 East, NMPM, Eddy County, New Mexico. The submittal provided the required information in order to deem the application "administratively" complete. OCD approves the Carlsbad Current-Argus as the newspaper of general circulation for the published notice and the discharge and/or collection location (within Enterprise's pipeline easement right-of-way) and the post office in Loving, New Mexico as proposed posting locations.

Therefore, the July 2006 New Mexico Water Quality Control Commission (WQCC) regulations notice requirements (20.6.2.3108 NMAC) must be satisfied and demonstrated to the OCD. The hydrostatic test discharge event shall not be initiated until Enterprise's and OCD's notice periods pass, the permit is issued, and the additional permit fee is paid.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,

Brad A. Jones
Environmental Engineer

BAJ/baj

cc: OCD District II Office, Artesia
Mr. James Heap, Enterprise Products Operating, LLC, Midland, TX 79701

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DOCUMENT TRANSMITTAL FORM

RECEIVED OCD
2013 JUN 20 P 12:4

TO:	Mr. Brad Jones New Mexico Energy, Minerals, and Natural Resources Department, OCD 1220 St. Francis Drive Santa Fe, NM 87505	**PAGE**	1	**OF**	1
		TRANSMITTAL DATE:	6/19/2013		
		TRANSMITTAL DCN:	131457.4-ALB13TS002		
RETURN RESPONSES/COMMENTS TO:		Barbara Everett			
RETURN RESPONSES/COMMENTS BY:		6/28/2013			

PROJECT NO.:	131457	**PROJECT NAME:**	2013 Hydrostatic Permitting
ACTIVITY/DESCRIPTION:	Letter		

DOCUMENTS BEING TRANSMITTED

ITEM	REV.	PAGES	DATE	DESIGNATOR
Submittal of a Revised Notice of Intent/Modification to HIP-119 to Perform a Hydrostatic Test - Bopco 4-Mile and Cotton Draw Laterals	8	40	6/19/2013	131457.1-ALB13LT003
2 Checks	--	--	--	--
--	--	--	--	--

INSTRUCTIONS/REMARKS

Copies to:
Jimmy White

- ☐ Mark previous issues "obsolete", "superceded", or "uncontrolled"
- ☐ Destroy previous affected material
- ☐ Return old material with this record
- ☐ New issue (no previous copies received)
- ☒ Replace with revised/new material
- ☐ Maintain as controlled copy
- ☐ Not Applicable

RECEIPT AND READ ACKNOWLEDGEMENT
Please Sign and Return To:

ADMINISTRATIVE SUPERVISOR
9019 WASHINGTON NE, BUILDING A
ALBUQUERQUE, NM 87113
FAX: 505.344.1711 OR KKNIGHTS@KLEINFELDER.COM

CLIENT RECEIPT	PRINT NAME	SIGNATURE	DATE
Complete & Return this page via Fax/Mail/Email			

KLEINFELDER RECEIPT	PRINT NAME	SIGNATURE	DATE
Complete this section upon receipt from client			

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June 19, 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 Revised Notice of Intent/Modification to HIP-119 to Perform a Hydrostatic Test
Bopco 4-Mile and Cotton Draw Laterals
Eddy County, New Mexico

Dear Mr. Jones:

On behalf of the Enterprise Products Operating Company LLC (Enterprise), Kleinfelder West, Inc. (Kleinfelder) is submitting this modification to HIP-119/Notice of Intent (NOI). The modification includes the addition of a second hydrostatic test of a connecting lateral (Cotton Draw) and reuse of test water for the Bopco 4-Mile Lateral. Enterprise still intends to discharge the hydrostatic test water in the original location described in HIP-119, NE/4 of the NE/4 of Sec 25, T24S, R30E.

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 – Hydrostatic Test Water Dispersion System;
- Appendix A - Certification of Siting Criteria;
- Appendix B – Water Feature, Water Well Information and Floodplain information;
- Appendix C – Area Mine Information;
- Appendix D - Geology;
- Appendix E – Area Landownership; and
- Appendix F – Public Notice.

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A check for $100 made out to the New Mexico Water Quality Management Fund is included with this modification on behalf of Enterprise for the $100 filing fee. A separate check for one-half the $300 general permit fee is also included.

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.

Jill Hernandez
Staff Engineer

Reviewed by:

Barbara Everett, PG
Program Manager

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

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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 pipeline is 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 Bopco 4-Mile Lateral and the Cotton Draw Lateral, are both located in Eddy County, New Mexico. Bopco 4-Mile Lateral is located in Sections 15, 16, 21, 22, 23, 24, and 25 of Township 24 South, Range 30 East. The Cotton Draw Lateral is located in Section 25 of Township 24 South, Range 30 East; Sections 29, 30, and 33 of Township 24 South, Range 31 East; and Sections 1, 2, 3, and 4 of Township 25 South, Range 31 East.
- The Enterprise lines are new, welded, steel 12-inch diameter lines. The Cotton Draw Lateral is 34,459 feet long and the Bopco 4-Mile Lateral is 21,120 feet long. The pipeline is part of a gathering system that transports natural gas from well sites to processing facilities.
- The source water for the hydrostatic testing is potable municipal water from the City of Carlsbad.
- The hydrostatic test of the Cotton Draw Lateral is scheduled first. At completion of the first test, the water will be discharged into frac tanks and stored temporarily. The water will then be reused in the hydrostatic testing of the Bopco 4-Mile Lateral. The water will be transferred from the frac tanks into the Bopco 4-Mile Lateral and a hydrostatic test conducted on the lateral. After the Bopco 4-Mile Lateral testing is complete, the water will be tested for water quality and then transferred to frac tanks. Provided that the test water meets the requirements of HIP-119, it will be discharged to the ground surface within the Enterprise 50-foot right-of-way at the eastern end of the Bopco 4-Mile Lateral. Placement of water into the Cotton Draw Lateral is scheduled to start on July 20, 2013. The Bopco 4-Mile Lateral hydrostatic test is scheduled for July 25, 2013. Approximately 210,000 gallons are expected to be discharged to the ground surface on August 18, 2013.
- Per NMAC 20.6.2.3108, a sample of the public notice is included in Appendix F.
- Per NMAC 20.6.2.3108, public notice will be made in English and Spanish by the following methods:
    1. A 2 feet by 3 feet in size sign will be posted at the discharge location;
    2. Written notice will be posted at the Loving, New Mexico post office;
    3. Written notice of the discharge by mail to owners of record of all properties within a 1/3 mile distance from the boundary of the property where the discharge site is located;
    4. The notice will be sent by certified mail, return receipt requested, to the owner of the discharge site; and

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5. A synopsis of the notice will be published in a display ad at least three inches by four inches in size in the Carlsbad Current-Argus newspaper. Public notice is published every day but Monday, and the paper requires the information two days prior to publication.

Item a. Name and address of the proposed discharger;

Legally Responsible Party	Mr. Leonard W. Mallett, Sr. VP 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. Water from the hydrostatic testing will be discharged to the ground in the 50-foot right-of-way at the eastern end of the Bopco 4-Mile Lateral, as originally permitted in HIP-119. The location of the pipelines to be hydrostatically tested and the discharge location are shown on Figure 1.

The temporary hydrostatic test water staging area will be located approximately 17 miles southeast of Loving, New Mexico. Directions to the discharge site from Loving, New Mexico are:

- From the intersection of W. Cedar Street and N. 4th Street, head north on N 4th Street toward Elm street for approximately 0.3 miles;
- Turn right onto County Road 713/Oak Road and continue on it for 1.7 miles;
- Turn left on to S. Donaldson Farm Rd and continue for 1.5 miles;
- Turn right onto NM-31/Potash Mine Rd and continue for 4.5 miles;
- Turn right onto NM-128 E/Jal Hwy and continue for 12.8 miles;
- Turn right onto Twin Wells Road for 5.6 miles, then turn right to stay on Twin Wells Road and go an additional 1.5 miles;
- Turn left on an unnamed road and continue for 0.8 mi; and
- Then turn left on another unnamed road and continue for 1.3 miles. The site will be on the right.

Item c. Legal description of the discharge location;

The discharge location is located at:

NE ¼ of the NE ¼ of Section 25, Township 24 South, Range 30 East, Eddy County, New Mexico (See Figure 1). The approximate coordinates for the discharge area location are: Latitude 32°11'14.69"N; Longitude 103°49'37.52"W.

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

- Figure 1 – Regional map showing topography, the pipeline sections undergoing testing, and the hydrostatic test water discharge area.
- Figure 2 – Site-specific map showing the hydrostatic test water discharge area, the temporary frac tank staging area, and the secondary containment area (collectively referred to as the discharge area henceforth).
- Figure 3 – Detail schematic showing the water dispersion system in the discharge 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 temporary frac tank location was completed on May 28, 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 proposed discharge 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 discharge 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 discharge area was conducted. The PRRC database was searched on May 28, 2013. According to the PRRC database, no water supply wells are located within 1,000 feet of the discharge area (Figure B-2, Appendix B). In addition, the New Mexico Office of the State Engineer (OSE) website was checked for water supply wells located in the vicinity of the site. Several stock wells were identified in Sections 21 and 23, located 1.5 to 3 miles to the northwest (Figure B-2, Appendix B). Water was reported at 365 to 400 feet below ground surface in wells C 02110 and point of diversion (POD) C 03558. The C 03558 POD, located near the proposed discharge area, was issued for four 50-foot boreholes associated with a remediation investigation and is not associated with a water supply well (Appendix B).

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 proposed temporary frac tank area on May 28, 2013. No springs were identified on the topographic map within 1,000 feet of the discharge area (Figure B-1, Appendix B). The PRRC database was also reviewed on May 28, 2013 for evidence of springs in the discharge area. No springs were identified in the PRRC database (Figure B-2, Appendix B) or during the site inspection (Appendix A).

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Federal Emergency Management Administration (FEMA) flood insurance rate maps were searched on the FEMA website for 100-year floodplains at and in the vicinity of the proposed discharge area. According to the FEMA website, the proposed discharge area is not located within a 100-year floodplain. The discharge and surrounding area are located in Zone X (areas determined to be above the 500-year flood level) (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 temporary discharge area on May 28, 2013 (Figure B-1, Appendix B). Wetlands were not observed within 500 feet of the perimeter of the discharge area. In addition, no wetlands were visible within 500 feet of the discharge 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 mines were located at or in the vicinity of proposed discharge area. Figure C-1 (Appendix C), generated from the New Mexico Mining and Minerals Division GIS database, accessed on May 28, 2013, does not depict mines within 1,000 feet of the site. Mr. Mike Tompson with the New Mexico Abandoned Mine Lands Program was contacted on December 27, 2012 to assess the presence of abandoned subsurface mines in the vicinity of the proposed discharge area. According to Mr. Tompson, there is no record of abandoned subsurface mines within Section 25, Township 24 South, Range 30 East (see email, Appendix C).

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

No permanent residences, school, hospital, institution or church were noted on aerial photographs of the area, dated April 19, 2011 (see Figure 2). A visual site inspection on May 23, 2013 confirmed the absence of permanent residences, schools, hospitals, institutions, and churches within 500 feet of the discharge 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. Because this permit is for 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. 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. If leaks or breaks occur, the pipeline is repaired or the affected piping is replaced, and then re-tested.

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The hydrostatic test of the Cotton Draw Lateral is scheduled first. Potable, municipal water will be transferred into the Cotton Draw Lateral from water trucks. The hydrostatic test of the Cotton Draw Lateral will be conducted. At completion of the test, the water is to be discharged to frac tanks and stored temporarily in the discharge area, which was permitted in HIP-119 (Figure 2). The water will then be reused in the hydrostatic test of the Bopco 4-Mile Lateral. Water will be transferred from the frac tanks to the Bopco 4-Mile Lateral and a hydrostatic test conducted on the lateral. After the Bopco 4-Mile Lateral testing is complete, the water will be tested for water quality and transferred to frac tanks. Once the results have been received, the results will be forwarded to the NMOCD. Upon NMOCD concurrence that the test water meets the standards of NMAC 20.6.2.3103, a hose will be fitted to a valve of the frac tank and the water will be discharged to the ground within the pipeline right-of-way.

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 Cotton Draw Lateral, the water will be transferred to and temporarily stored in 12 clean ±21,000-gallon frac tanks located in the discharge area (Figure 2). Frac tanks will be interconnected but will have safety valves at each tank connection and will be located within secondary containment. Water will then be reused to test an adjacent section of pipeline -Bopco 4-Mile Lateral. Hoses will be used to transfer water from the frac tanks into the Bopco 4-Mile Lateral. Drip pans will be used under pumps and at hose connections. Upon completion of the Bopco 4-Mile Lateral hydrostatic testing, the water will be tested for water quality as described in *Item j* and then transferred back into the frac tanks until the water quality results are received.

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 into frac tanks for temporary storage. Drip pans will be used under pumps and at hose connections. Secondary containment, consisting of plastic liners, will be used under frac tanks to prevent any leakage. 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 frac tank staging area. Water from the frac tanks will be released at a rate of 300 gallons per minute into the dissipation and disposal system and allowed to flow onto the ROW at a rate of less than 25 gallons per minute. A diagram of the hydrostatic waste water dissipation and disposal system is shown in Figure 3. Personnel will be present during transfer and dewatering operations to close valves in case of leaks. Personnel will be located in the surrounding area to conduct pipeline construction and maintenance activities which will 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.

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Item j. A proposed hydrostatic test wastewater sampling plan;

Once the Bopco 4-Mile Lateral test has been completed, prior to discharge to frac tanks, Enterprise will collect and analyze a sample of the water obtained from the end section of the pipeline. The sample will be analyzed using the following methods.

SAMPLING PLAN FOR COMPLIANCE WITH NMAC 20.6.3103 (A), (B), (C)		
ANALYTES	METHOD	BOTTLE TYPE/PRESERVATIVE
Volatile Organics	8260B	3 x 40 ml VOA's / HCl
Ethlylene dibromide	504.1	2 x 40 ml VOA's / $Na_2S_2O_3$
Polychlorinated Biphenols	8082	2 x liter amber / unpreserved
Polynuclear Aromatic Hydrocarbons	8310	1 x liter amber / unpreserved
Phenols	9067	1 x liter amber / H_2SO_4
Anions, TDS, pH	300.0 SM 2540C SM 4500-H+B	1 x 500 ml plastic / unpreserved 1 x 125 ml plastic / H_2S04
Mercury	245.1	1 x 500 ml plastic / HNO_3
Dissolved Metals	200.7 / 200.8	1 x 125 ml plastic + filter & syringe / HNO_3
Total Cyanide	335.4	1 x 500 ml plastic amber / NaOH
Radium 226/228	E903.0 / E904.0	2 x liter plastic / HNO_3

Once the results have been received, the results will be forwarded to the NMOCD. Upon NMOCD concurrence that the discharge water meets the water quality standards of NMAC 20.6.2.3103, Enterprise will discharge the water in accordance with the approved discharge permit. If discharge to the ground surface is approved, water from the frac tanks will be discharged into the dissipation structure and onto the ground surface.

The discharge water quality is expected to meet the water quality standards of NMAC 20.6.2.3103 because potable water will be used in the hydrostatic test of the new piping; however, if the test water exceeds discharge requirements, the water will be disposed as indicated in Item k.

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);

If test water exceeds discharge requirements, waste water will be transferred from the frac tanks with a pump and hose into water trucks and hauled by Mesquite Services, Permit Number C133-211 to Dorstate SWD (API #30-015-23728) for injection and disposal. Potable, municipal water is being used to test new piping; therefore, solids accumulation is not expected.

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

The volume of the hydrostatic test water expected to be discharged is approximately 210,000 gallons. The source of the test water being used to test new piping is potable municipal water; therefore, it is expected to meet the water quality standards of NMAC 20.6.2.3103.

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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 and into west Texas. The Delaware Basin consists of primarily 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 the Kermit – Berino fine sands. These sands are Quaternary eolian deposits and unconsolidated alluvial deposits that cover most of the underlying Quaternary older 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 December 26, 2012), 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;

The only source of water in the region in 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 300 feet. Water is fair quality but locally impotable (Henderson and Jones, 1952). No wells or water quality information was found in a search at and surrounding the discharge site.

Based on wells located in Sections 21 and 23, north and east of the proposed discharge area, depth to water is approximately 365 to 400 feet below ground surface. Total dissolved solids (TDS) reports for these wells were not included in various databases checked (OSE, GoTech). However, the chloride content ranged from 32 to 90 parts per million, suggesting that TDS may range from 200 to 1000. 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:

According to the Eddy County Tax Assessors website, the landowner of Parcel No 4-180-143-264, located at and surrounding the proposed discharge area, is the Bureau of Land Management. Figure F-1 (Appendix F) depicts the parcel numbers and landowners within 1/3-mile of the discharge area. The landowner's address is:

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

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References

Federal Emergency Management Agency website, accessed December 2012, 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 December 2012, 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 Minderals Division GIS Database, Mines in New Mexico, accessed on January 28, 2013, http://www.emnrd.state.nm.us/maps/MMQActiveMinesIndex.html.

Office of the State Engineer (OSE) database search accessed in December 2012, http://nmwrrs.ose.state.nm.us/nmwrrs/index.html.

Petroleum Recovery Research Center database (PRRC) database search accessed December 2012, http://ford.nmt.edu/prrc_MF/index5.html.

U.S. Fish and Wildlife Service National Wetlands Inventory database, accessed on January 25 2013, http://www.fws.gov/wetlands/wetlands-mapper.html.

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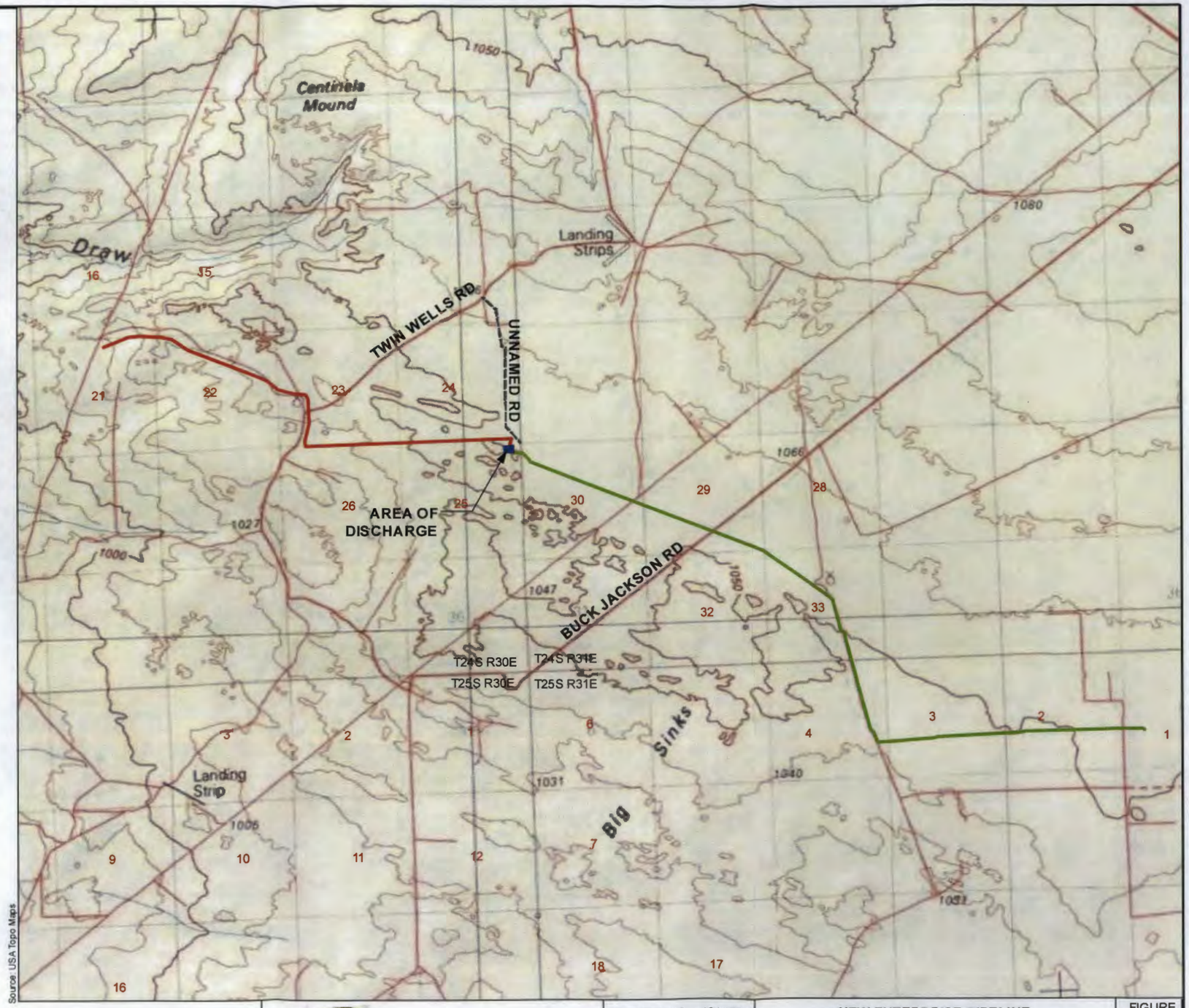
FIGURES

Source: ESRI World Street Map

APPROXIMATE SITE LOCATION



Source: USA Topo Maps

LEGEND

- APPROXIMATE SITE LOCATION
- APPROXIMATE LOCATION OF THE BOPCO 4-MILE LATERAL
- APPROXIMATE LOCATION OF THE COTTON DRAW LATERAL
- APPROXIMATE DISCHARGE LOCATION

N

5,000 0

Feet

NAD 1983 StatePlane
New Mexico East, US Feet

KLEINFELDER
Bright People. Right Solutions.
www.kleinfelder.com

PROJECT NO.: 131457	
DRAWN: 05/28/2013	
DRAWN BY: CTH	
CHECKED BY: JH	
FILE NAME: 131457_SLM.mxd	

NEW ENTERPRISE PIPELINE UNDERGOING HYDROSTATIC TESTING

ENTERPRISE PRODUCTS OPERATING, LLC
BOPCO 4-MILE AND COTTON DRAW LATERALS
EDDY COUNTY, NEW MEXICO

ORIGINATOR: J. HERNANDEZ	DRAWING CATEGORY: 1
APPROVED BY: BE	

FIGURE

1

Source: Esri ONLINE MAPS

N

100 0 100
Feet

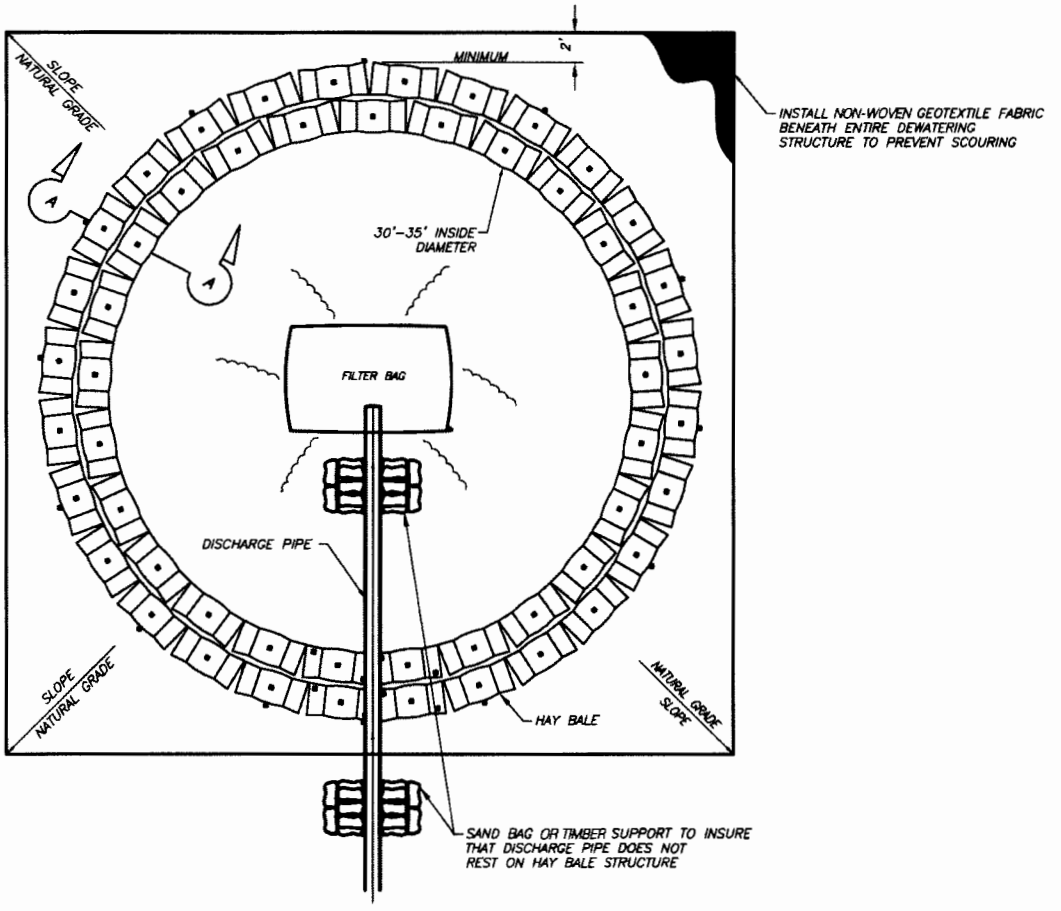
NAD 1983 StatePlane
New Mexico East, US Feet

KLEINFELDER
Bright People. Right Solutions.
www.kleinfelder.com

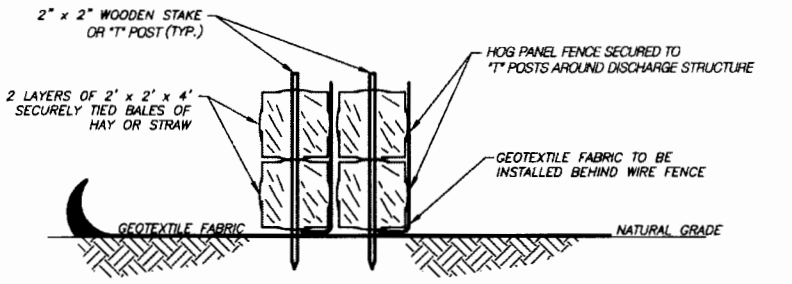
PROJECT NO.: 131457	TEMPORARY FRAC TANK STAGING AREA FOR HYDROSTATIC TEST WATER	FIGURE
DRAWN: 05/29/2013	ENTERPRISE PRODUCTS OPERATING, LLC BOPCO 4-MILE AND COTTON DRAW LATERALS EDDY COUNTY, NEW MEXICO	2
DRAWN BY: CTH		
CHECKED BY: JH		
FILE NAME: 131457_SP.mxd	ORIGINATOR: J. HERNANDEZ	DRAWING CATEGORY: 1
	APPROVED BY: BE	

Revision Date: 06/19/2013
Z:\ALBUQUERQUE-DATA\GROUPS\ENVIRON\CURRENT WORK FOLDER PROJECTS\131457 -Enterprise 2013 Hydrostatic Permits\2.0 Technical Information\2.8 - Technical-CADD Figures\Task 1 - Bopco 4-mile - Cotton Draw\131457_SP.mxd

ATTACHED IMAGES: Images: D-1.jpg Images: fema.jpg Images: GEO_LEGEND.jpg Images: karst.jpg Images: mines legend.jpg Images: PPRC Map Legend 4.jpg Images: TopoSymbols_Page_3.jpg Images:
ATTACHED XREFS:
ALBUQUERQUE, NM
CAD FILE: C:\Users\chait\Documents\Task 1 - Bopco 4-mile - Cotton Draw\ LAYOUT: Figure 3 PLOTTED: 11 Jun 2013, 12:31pm, chait



HYDROSTATIC DEWATERING DETAILS
PLAN VIEW
SCALE: NTS



NOTE:
"T" POSTS SECURING HOG PANEL FENCE ARE NOT SHOWN FOR CLARITY PURPOSES

SECTION A-A
FROM THIS DWG
SCALE: NTS

NOTE:

1. STRUCTURE SHALL BE PLACED ON A LEVEL, WELL VEGETATED SITE SUCH THAT WATER WILL FLOW AWAY FROM STRUCTURE AND ANY WORK AREAS.
2. FLOW RATES THROUGH PIPES SHALL BE SUCH THAT STRUCTURE WILL NOT OVERFLOW.
3. WHERE CONDITIONS WARRANT, A 30' x 30' RECTANGULAR STRUCTURE MAY BE SUBSTITUTED FOR THE CIRCULAR CONFIGURATION SHOWN.
4. DIMENSIONS SHOWN ARE THE MINIMUM ACCEPTABLE VALUES AND MAY VARY DEPENDING ON SPECIFIC LOCATION.
5. CONTRACTOR SHALL PROPERLY REMOVE AND DISPOSE OF DEWATERING STRUCTURE IMMEDIATELY UPON COMPLETION OF DEWATERING PROCEDURE. UNDER NO CIRCUMSTANCES SHALL USED DEWATERING STRUCTURES BE LEFT IN PLACE FOR ANY PERIOD OF TIME GREATER THAN 48 HOURS PRIOR TO COMPLETION OF DEWATERING PROCEDURE.
6. HOG PANEL FENCING SHALL BE INSTALLED AROUND THE HAYBALE STRUCTURE AND SECURED WITH "T" POSTS
7. ENTIRE DISCHARGE STRUCTURE SHALL BE UNDERLAIN WITH NON-WOVEN GEO-TEXTILE LINER.

Source: Enterprise drawing titled, "Hydrostatic Dewatering Detail, East Austin Loop, Line 19A, Travis County, Texas", dated Sept 2011.

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PROJECT NO.	131457
DRAWN:	06/11/2013
DRAWN BY:	CTH
CHECKED BY:	JH
FILE NAME:	131457_D-1.dwg

HYDROSTATIC TEST WATER DISPERSION SYSTEM

ENTERPRISE PRODUCTS OPERATING, LLC
BOPCO 4-MILE AND COTTON DRAW LATERALS
EDDY COUNTY, NEW MEXICO

ORIGINATOR: J. HERNANDEZ
APPROVED BY: BE
DRAWING CATEGORY: 2

FIGURE **3**

APPENDIX A
Certification of Siting Criteria

Certification of Siting Criteria

Hydrostatic Discharge Line

I, Chuck Allen, 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 distance from the secondary containment area. The water storage tanks will be located in the NE 1/4 of the NE 1/4 of Section 25, Township 24 South, Range 30 East in Eddy 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);
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.

Chuck Allen — Signature

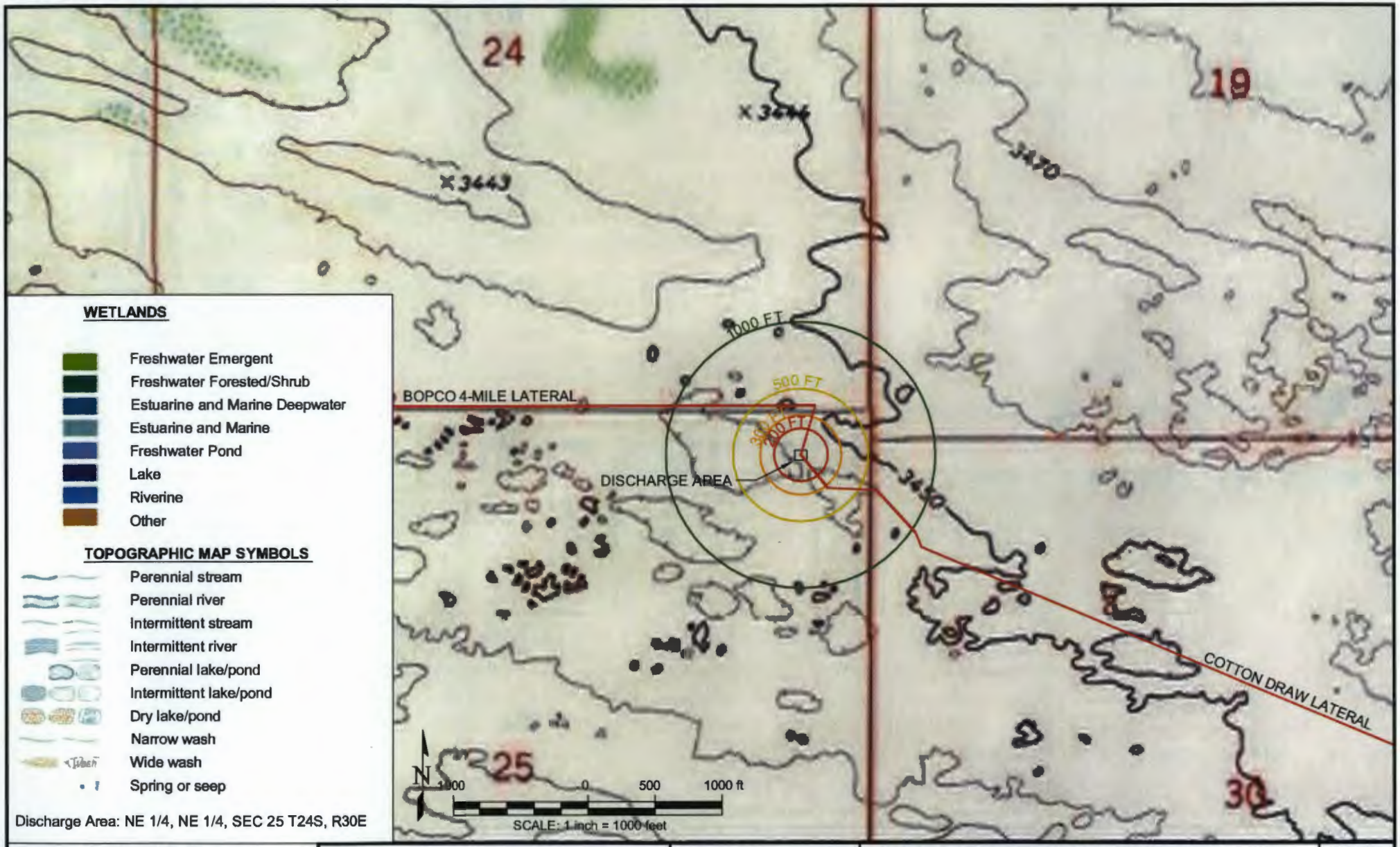
5-23-2013 — Date of Site Visit

Well Tie Coordinator — Title:

APPENDIX B

Water Feature, Water Well Information and Floodplain Information

ATTACHED IMAGES: Images: D-1.jpg Images: fema.jpg Images: GEO_LEGEND.jpg Images: karst.jpg Images: mines legend.jpg Images: PPRC Map Legend 4.jpg Images: TopoSymbols_Page_3.jpg Images:
ATTACHED XREFS:
ALBUQUERQUE, NM
CAD FILE: C:\Users\chait\Documents\Task 1- Bopco 4-mile Lateral\ LAYOUT: B-1 PLOTTED: 29 May 2013, 5:43pm, CHait



Discharge Area: NE 1/4, NE 1/4, SEC 25 T24S, R30E

Source: US Fish and Wildlife Service, National Wetlands Inventory Website, accessed 5/28/2013.

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PROJECT NO.	131457
DRAWN:	05/30/2013
DRAWN BY:	PD/CTH
CHECKED BY:	JH
FILE NAME:	131457_D-1.dwg

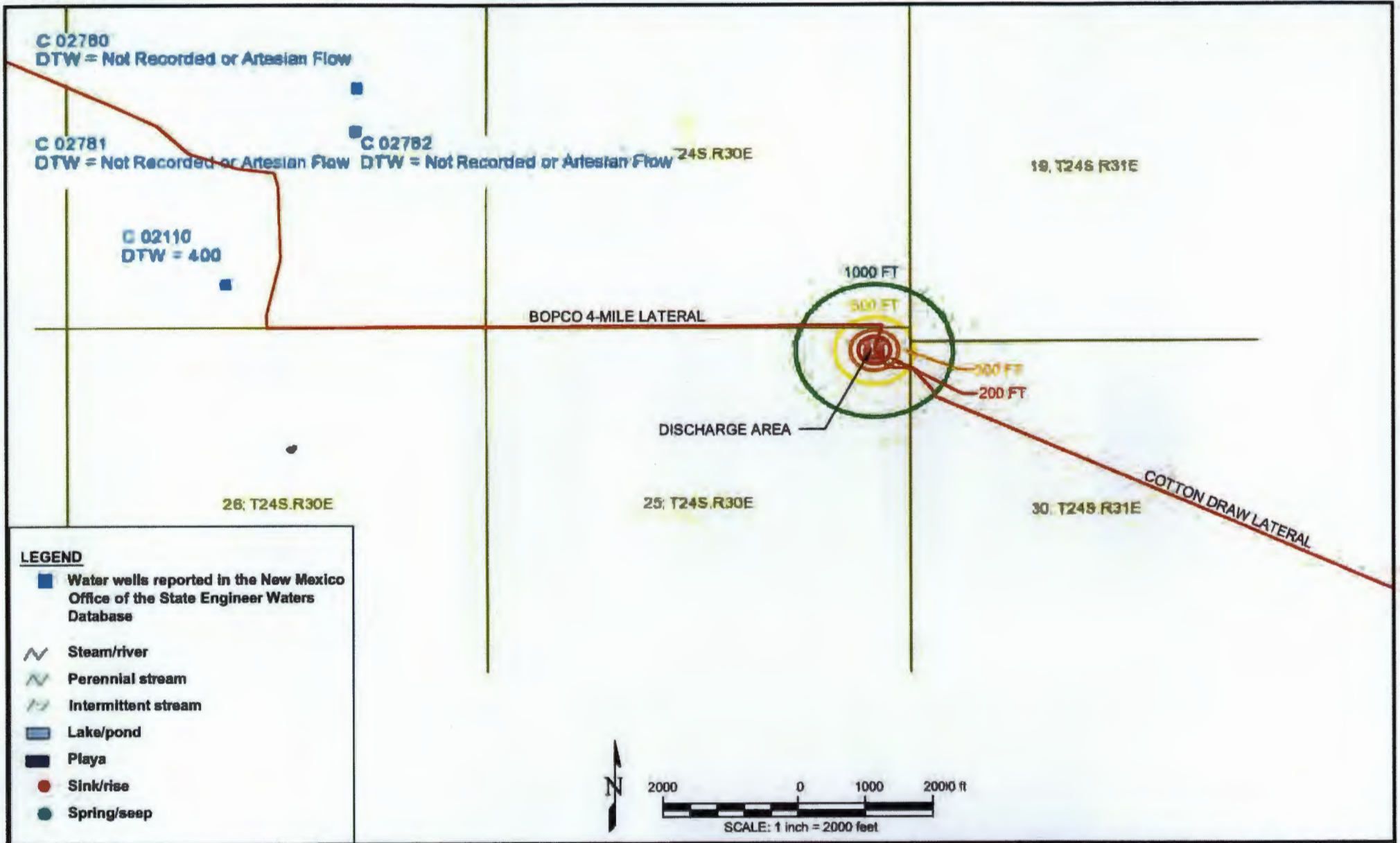
SURFACE WATER AND WETLANDS NEAR THE DISCHARGE AREA

ENTERPRISE PRODUCTS OPERATING, LLC
BOPCO 4-MILE AND COTTON DRAW LATERALS
EDDY COUNTY, NEW MEXICO

ORIGINATOR: J. HERNANDEZ	DRAWING CATEGORY: 2
APPROVED BY: BE	

FIGURE
B-1

ATTACHED IMAGES: Images: D-1.jpg Images: fema.jpg Images: GEO_LEGEND.jpg Images: karst.jpg Images: mines legend.jpg Images: P 'PRC Map Legend 4.jpg Images: TopoSymbols_Page_3.jpg Images:
ATTACHED XREFS:
ALBUQUERQUE, NM
CAD FILE: C:\Users\chait\Documents\Task 1- Bopco 4-mile Lateral\ LAYOUT: B-2 PLOTTED: 29 May 2013, 2:37pm, CHait



Source: PRRC Website, accessed 5/28/2013.

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PROJECT NO.	131457
DRAWN:	05/30/2013
DRAWN BY:	PD/CTH
CHECKED BY:	JH
FILE NAME:	131457_D-1.dwg

SURFACE WATER AND WATER WELLS IN THE VICINITY OF THE DISCHARGE AREA

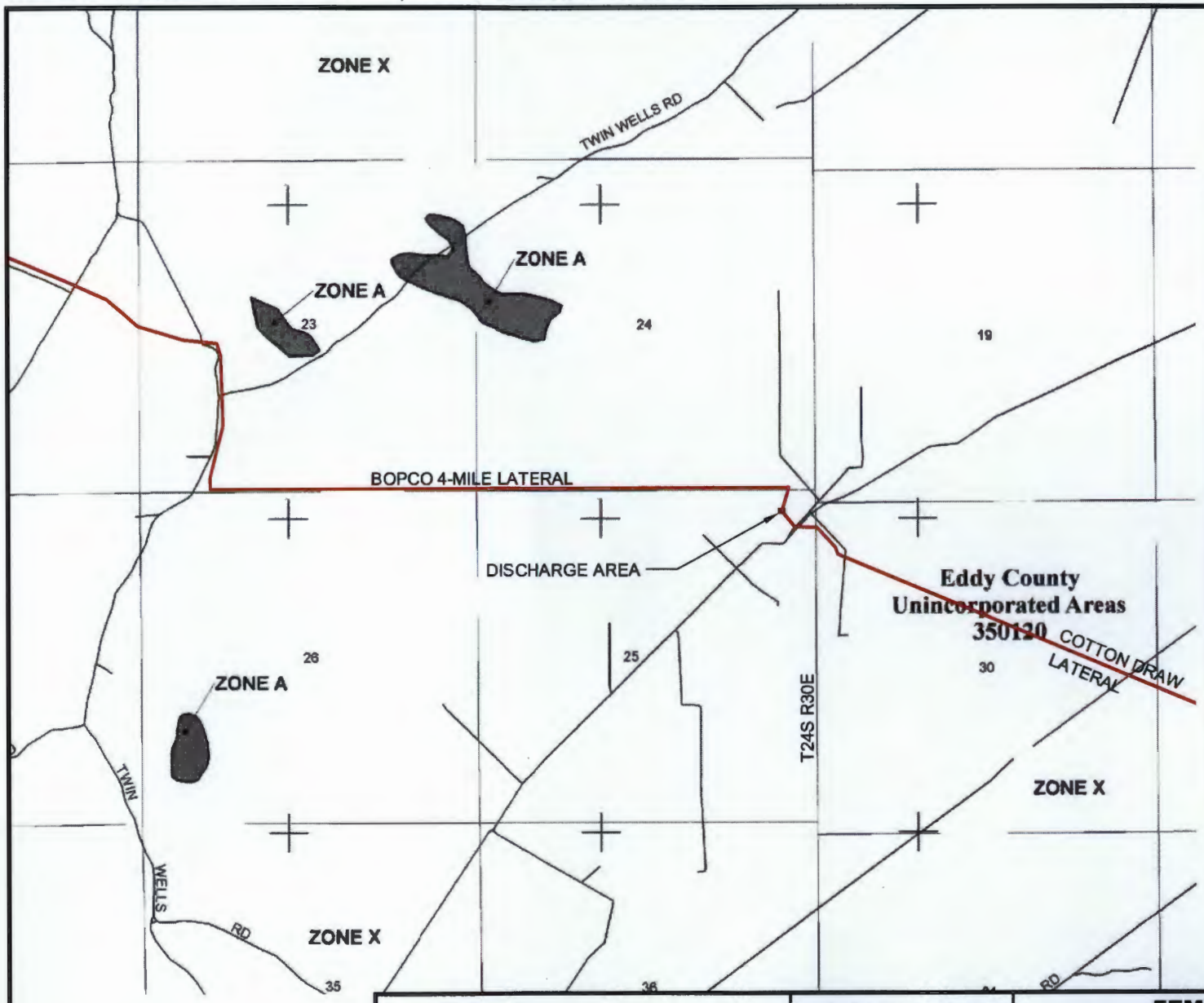
ENTERPRISE PRODUCTS OPERATING, LLC
BOPCO 4-MILE AND COTTON DRAW LATERALS
EDDY COUNTY, NEW MEXICO

ORIGINATOR: J. HERNANDEZ
APPROVED BY: BE
DRAWING CATEGORY: 2

FIGURE
B-2

ATTACHED IMAGES: Images: D-1.jpg Images: fema.jpg Images: GEO_LEGEND.jpg Images: karst.jpg Images: mines legend.jpg Images: PPRC Map Legend 4.jpg Images: TopoSymbols_Page_3.jpg Images:
ATTACHED XREFS:
ALBUQUERQUE, NM
CAD FILE: C:\Users\chait\Documents\Task 1 - Bopco 4-mile - Cotton Draw\ LAYOUT: B-3

PLOTTED: 18 Jun 2013, 11:56am, chait



MAP SCALE 1" = 2000'

0 0 1,000 2,000 3,000 4,000 FEET

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 1650D

FIRM

FLOOD INSURANCE RATE MAP

EDDY COUNTY, NEW MEXICO AND INCORPORATED AREAS

PANEL 1650 OF 2000

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
EDDY COUNTY, UNINCORPORATED AREAS	350120	1650	D

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
35015C1650D

EFFECTIVE DATE
JUNE 4, 2010

Federal Emergency Management Agency

ZONE A = HIGH RISK FLOOD HAZARD; 1% ANNUAL CHANCE OF FLOODING AND 26% CHANCE OF FLOODING OVER A 30-YEAR MORTGAGE

ZONE X = MINIMAL FLOOD HAZARD; ABOVE THE 500-YEAR FLOOD LEVEL

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PROJECT NO.	131457
DRAWN:	05/30/2013
DRAWN BY:	PD/CTH
CHECKED BY:	JH
FILE NAME:	131457_D-1.dwg

FEMA FLOOD MAP OF DISCHARGE AND SURROUNDING AREA

ENTERPRISE PRODUCTS OPERATING, LLC
BOPCO 4-MILE AND COTTON DRAW LATERALS
EDDY COUNTY, NEW MEXICO

ORIGINATOR:	J. HERNANDEZ
APPROVED BY:	BE
DRAWING CATEGORY:	2

FIGURE

B-3

Scott A. Verhines, P.E.
State Engineer

Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 507103
File Nbr: C 03558

Jul. 12, 2012

BEN ARGUIJO (BASIN ENVIRONMENTAL)
BOPCO, LP
522 WEST MERMOD
CARLSBAD, NM 88220

Greetings:

Enclosed is your copy of the above numbered permit that has been approved subject to the conditions set forth on the approval page. In accordance with the conditions of approval, the well can only be tested for 10 cumulative days, and the well is to be plugged on or before 07/31/2013, unless a permit to use the water is acquired from this office.

A Well Record & Log (OSE Form wr-20) shall be filed in this office within twenty (20) days after completion of drilling, but no later than 07/31/2013.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us or will be mailed upon request.

Sincerely,

Bill Duemling
(575)622-6521

Enclosure

explore

File No. C-3558

NEW MEXICO OFFICE OF THE STATE ENGINEER

APPLICATION FOR PERMIT TO DRILL A WELL WITH NO CONSUMPTIVE USE OF WATER

(check applicable box):

For fees, see State Engineer website: http://www.ose.state.nm.us/ 2-31550 $5.00 2.31726 $20.00

Purpose:
- ☐ Pollution Control And / Or Recovery
- ☐ Geo-Thermal
- ☑ Exploratory
- ☐ Construction Site De-Watering
- ☐ Other (Describe):
- ☐ Monitoring
- ☐ Mineral De-Watering

A separate permit will be required to apply water to beneficial use.

☐ Temporary Request - Requested Start Date: **6/8/2012** Requested End Date: **6/8/2013**

Plugging Plan of Operations Submitted? ☐ Yes ☒ No

---

1. APPLICANT(S)

Name: **BOPCO, LP**	Name:
Contact or Agent: check here if Agent ☒ **Ben J. Arguijo (Basin Environmental)**	Contact or Agent: check here if Agent ☒
Mailing Address: **522 W. Mermod**	Mailing Address:
City: **Carlsbad**	City:
State: **NM** Zip Code: **88220**	State: Zip Code:
Phone: **(432)556-8730** ☐ Home ☒ Cell Phone (Work):	Phone: ☐ Home ☐ Cell Phone (Work):
E-mail (optional): **TASavole@BassPet.com** **bjarguijo@basinenv.com**	E-mail (optional):

2012 JUN -6 A 8:21
STATE ENGINEER OFFICE ROSWELL

FOR OSE INTERNAL USE

Application for Permit, Form wr-07, Rev 4/12/12

File Number: C-3558	Trn Number: 507103
Trans Description (optional): EXPL	
Sub-Basin: C	
PCW/LOG Due Date: 07/31/2013	

2. **WELL(S)** Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84).
District II (Roswell) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

☐ NM State Plane (NAD83) (Feet)
☐ NM West Zone
☐ NM East Zone
☐ NM Central Zone

☐ UTM (NAD83) (Meters)
☐ Zone 12N
☐ Zone 13N

☒ Lat/Long (WGS84) (to the nearest 1/10th of second)

Well Number (if known):	X or Easting or Longitude: 32° 11' 40.81"	Y or Northing or Latitude: -103° 49' 41.88"	Provide if known: -Public Land Survey System (PLSS) (*Quarters or Halves, Section, Township, Range*) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
SB-1	32.19467	-103.82830	Unit Letter "A" (NE/NE), Section 25, Township 24 South, Range 30 East
SB-2	32.19467	-103.82830	Unit Letter "A" (NE/NE), Section 25, Township 24 South, Range 30 Eas
SB-3	32.19467	-103.82830	Unit Letter "A" (NE/NE), Section 25, Township 24 South, Range 30 Eas
SB-4	32.19467	-103.82830	Unit Letter "A" (NE/NE), Section 25, Township 24 South, Range 30 Eas
SB-5	32.19467	-103.82830	Unit Letter "A" (NE/NE), Section 25, Township 24 South, Range 30 Eas

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)
Additional well descriptions are attached: ☐ Yes ☒ No If yes, how many_____

Other description relating well to common landmarks, streets, or other: See attached Site Location Map.

Well is on land owned by: New Mexico State Land Office

Well Information: NOTE: If more than one (1) well needs to be described, provide attachment. Attached? ☐ Yes ☐ No
If yes, how many_____

Approximate depth of well (feet): 50.00	Outside diameter of well casing (inches): 0.00
Driller Name: Straub Corporation	Driller License Number: WD1478

3. **ADDITIONAL STATEMENTS OR EXPLANATIONS**

Up to five (5) soil borings will be drilled on-site to investigate the vertical extent of contamination following a crude oil and produced water release at BOPCO's Poker Lake Unit #78 Salt Water Disposal. The exact number, location(s), and depth(s) of the soil bore(s) will be determined on the drilling date by field-screens using a chloride test kit and/or Photo-Ionization Detector. Due to the depth to water at the location (approximately 365 feet below ground surface), it is unlikely that monitor wells will be required.

2012 JUN -6 A 8:21

STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO

FOR OSE INTERNAL USE

Application for Permit, Form wr-07

File Number: C-3558 | Trn Number: 507103

4. SPECIFIC REQUIREMENTS: The applican ust include the following, as applicable to each l type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

Exploratory:	**Pollution Control and/or Recovery:**	**Construction De-Watering:**	**Mine De-Watering:**
☒ Include a description of any proposed pump test, if applicable.	☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for the pollution control or recovery operation. ☐ The estimated maximum period of time for completion of the operation. ☐ The annual diversion amount. ☐ The annual consumptive use amount. ☐ The maximum amount of water to be diverted and injected for the duration of the operation. ☐ The method and place of discharge.	☐ Include a description of the proposed dewatering operation, ☐ The estimated duration of the operation, ☐ The maximum amount of water to be diverted, ☐ A description of the need for the dewatering operation, and, ☐ A description of how the diverted water will be disposed of.	☐ Include a plan for pollution control/recovery, that includes the following: ☐ A description of the need for mine dewatering. ☐ The estimated maximum period of time for completion of the operation. ☐ The source(s) of the water to be diverted. ☐ The geohydrologic characteristics of the aquifer(s). ☐ The maximum amount of water to be diverted per annum. ☐ The maximum amount of water to be diverted for the duration of the operation. ☐ The quality of the water. ☐ The method of measurement of water diverted. ☐ The recharge of water to the aquifer. ☐ Description of the estimated area of hydrologic effect of the project. ☐ The method and place of discharge. ☐ An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. ☐ A description of the methods employed to estimate effects on surface water rights and underground water rights. ☐ Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.
Monitoring: ☐ Include the reason for the monitoring well, and, ☐ The duration of the planned monitoring.	☐ The method of measurement of water produced and discharged. ☐ The source of water to be injected. ☐ The method of measurement of water injected. ☐ The characteristics of the aquifer. ☐ The method of determining the resulting annual consumptive use of water and depletion from any related stream system. ☐ Proof of any permit required from the New Mexico Environment Department. ☐ An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.	**Geo-Thermal:** ☐ Include a description of the geothermal heat exchange project, ☐ The amount of water to be diverted and re-injected for the project, ☐ The time frame for constructing the geothermal heat exchange project, and, ☐ The duration of the project. ☐ Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.	

ACKNOWLEDGEMENT

I, We (name of applicant(s)), **Ben J. Arguijo**
Print Name(s)

affirm that the foregoing statements are true to the best of (my, our) knowledge and belief.

Applicant Signature

Applicant Signature

ACTION OF THE STATE ENGINEER

This application is:

☒ approved ☐ partially approved ☐ denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 12th day of July 20 12, for the State Engineer,

Scott A. Verhines, P.E., State Engineer

By: Bill Duemling
Signature

Bill Duemling
Print

Title: Carlsbad Basin Supervisor
Print

STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO
2012 JUN -6 A 8:25

FOR OSE INTERNAL USE

Application for Permit, Form wr-07

File Number: C-3558 | Trn Number: 507103

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

1A Depth of the well shall not exceed the thickness of the valley fill.

4 No water shall be appropriated and beneficially used under this permit.

B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated.

C Driller's well record must be filed with the State Engineer within 20 days after the well is drilled or driven. Well record forms will be provided by the State Engineer upon request.

LOG The Point of Diversion C 03558 POD1 must be completed and the Well Log filed on or before 07/31/2013.

LOG The Point of Diversion C 03558 POD2 must be completed and the Well Log filed on or before 07/31/2013.

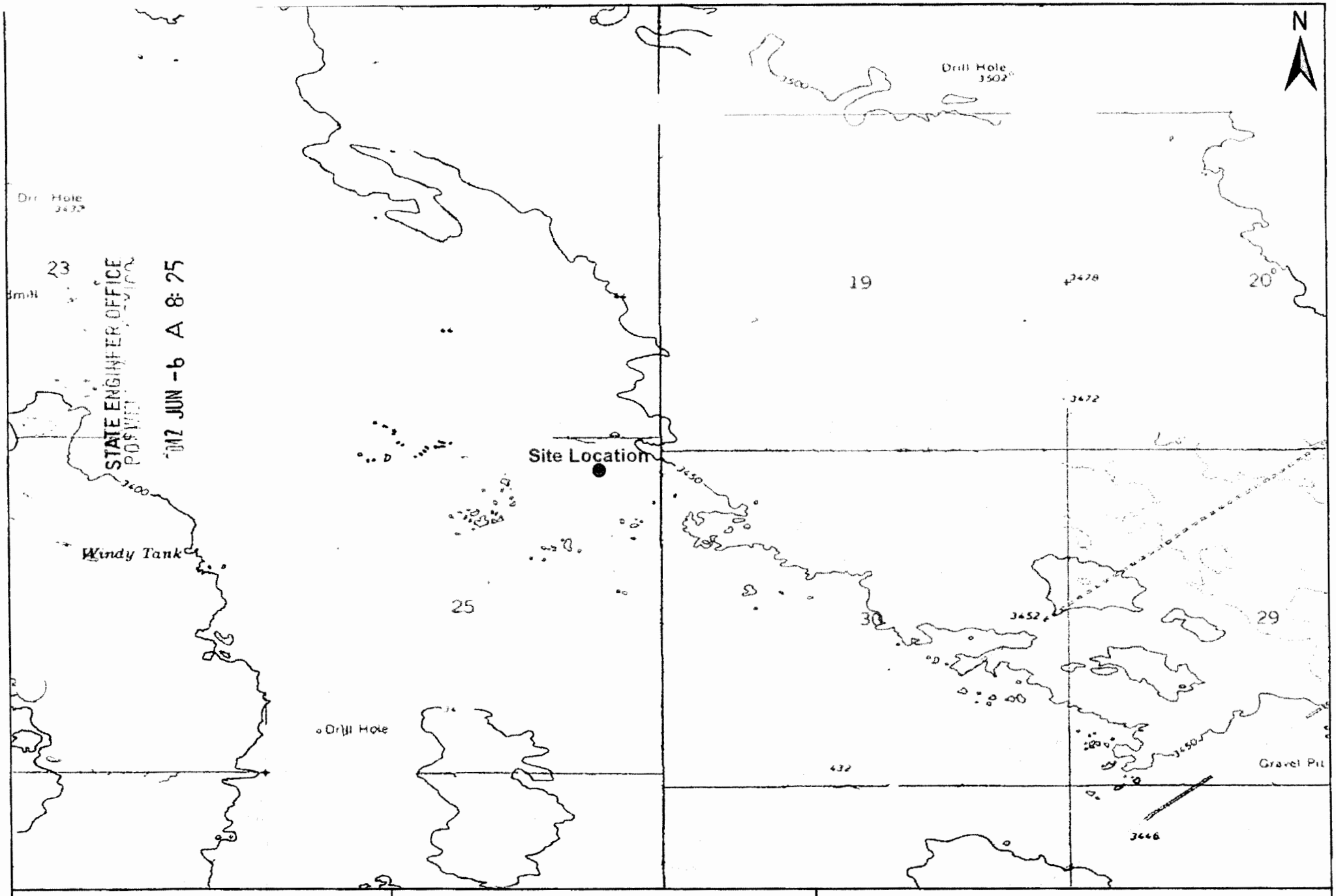
LOG The Point of Diversion C 03558 POD3 must be completed and the Well Log filed on or before 07/31/2013.

LOG The Point of Diversion C 03558 POD4 must be completed and the Well Log filed on or before 07/31/2013.

LOG The Point of Diversion C 03558 POD5 must be completed and the Well Log filed on or before 07/31/2013.

NO WATER SHALL BE DIVERTED FROM EACH BOREHOLE EXCEPT FOR TESTING PURPOSES, WHICH SHALL NOT EXCEED TEN (10) CUMULATIVE DAYS, AND BOREHOLE SHALL BE PLUGGED OR CAPPED ON OR BEFORE 07/31/2013.

THE BOREHOLES SHALL BE CONSTRUCTED, MAINTAINED, AND OPERATED THAT EACH WATER SHALL BE CONFINED TO THE AQUIFER IN WHICH IT IS ENCOUNTERED.



1,000500 0 1,000 2,000
Distance in Feet

Figure 1
Site Location Map
BOPCO, LP
Poker Lake Unit #78 Battery
Eddy County, New Mexico

Basin Environmental Service Technologies

Basin Environmental Service Technologies, LLC
3100 Plains Hwy.
Lovington, NM 88260

Drawn By: BJA	Checked By: BRB
May 30, 2012	Scale: 1" = 2000'

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 E. Greene St.
Carlsbad, NM 88220-6292

In Reply Refer To:
3162.4 (NM-080)
NMNM02884B, NMLC061705B July 5, 2012

NM Office of the State Engineer
Attn: Bill Duemling
1900 W. Second St.
Roswell, NM 88201

Re: NMNM02884B; James Ranch Unit #36 (3001527686)
1980' FNL & 1860' FEL (SW/NE) Section 1, T22S-R30E
Latitude: 32.335615, Longitude: -103.832117
Eddy County, New Mexico

NMLC061705B; Poker Lake Unit #78 (3001527536)
660' FNL & 660' FEL (NE/NE) Section 25, T24S-R30E
Latitude: 32.19467, Longitude: -103.82830
Eddy County, New Mexico

Gentlemen:

The above well locations have had recent spill events related to oil and gas operations on the above referenced well locations. In order to fully delineate the impacted sites, a drilling unit will be needed to complete the delineation. The Bureau of Land Management (land owner) authorizes the use of a drilling unit to accomplish the full delineation of the site.

If you have any questions contact Jim Amos, at 575-234-5909.

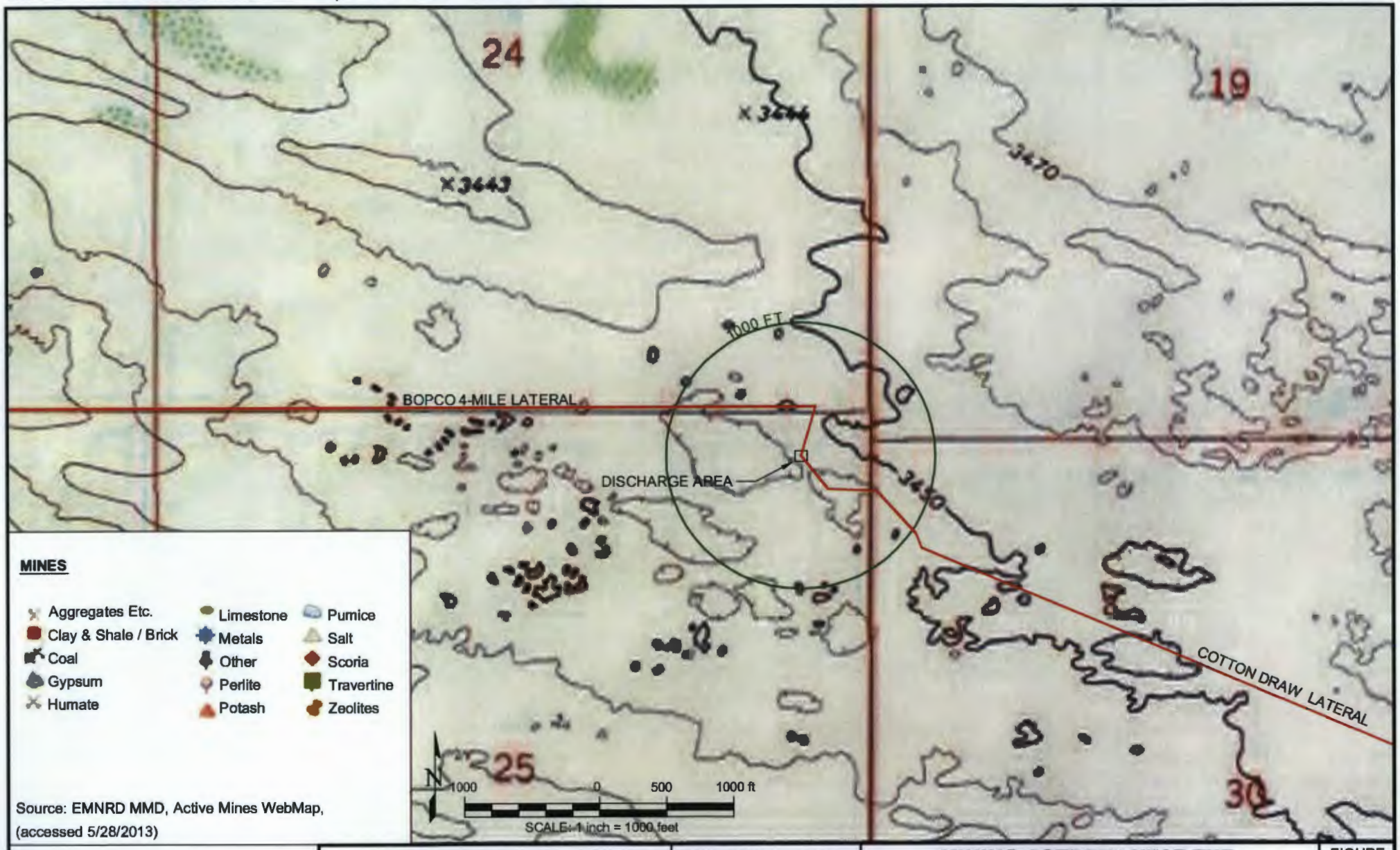
Sincerely,

James A. Amos
Supervisory EPS

APPENDIX C
Area Mine Information

ATTACHED IMAGES: Images: D-1.jpg Images: fema.jpg Images: GEO_LEGEND.jpg Images: karst.jpg Images: mines legend.jpg Images: PPRC Map Legend 4.jpg Images: TopoSymbols_Page_3.jpg Images: T
ATTACHED XREFS:
ALBUQUERQUE, NM
CAD FILE: C:\Users\chait\Documents\Task 1- Bopco 4-mile Lateral\ LAYOUT: Mines

PLOTTED: 30 May 2013, 4:54pm, chait



Source: EMNRD MMD, Active Mines WebMap, (accessed 5/28/2013)

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PROJECT NO.	131457
DRAWN:	05/30/2013
DRAWN BY:	PD/CTH
CHECKED BY:	JH
FILE NAME:	131457_D-1.dwg

MINING ACTIVITY NEAR THE DISCHARGE AREA

ENTERPRISE PRODUCTS OPERATING, LLC
BOPCO 4-MILE AND COTTON DRAW LATERALS
EDDY COUNTY, NEW MEXICO

ORIGINATOR:	J. HERNANDEZ
APPROVED BY:	BE
DRAWING CATEGORY:	2

FIGURE
C-1

Eileen Shannon

From: Tompson, Mike, EMNRD <Mike.Tompson@state.nm.us>
Sent: Friday, December 28, 2012 8:07 AM
To: Eileen Shannon
Subject: Section 25, Township 24 South, Range 30 East

Sorry about all of that. I'll never understand our internet and mail censoring system.

We have no record of any abandoned mines within Section 25, Township 24 South, Range 30 East, Eddy County, New Mexico.

I hope that helps. Let me know if you have any more questions.

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

-----Original Message-----
From: Eileen Shannon [mailto:EShannon@kleinfelder.com]
Sent: Friday, December 28, 2012 7:53 AM
To: Tompson, Mike, EMNRD
Subject: RE: State of New Mexico – Content Policy Match: Filetype Blocked Inbound

I am sending w/o attachments

Hi Mike,

I am working on a hydrostatic discharge plan for Enterprise and we are required to research whether there are abandoned mines in the vicinity of the proposed discharge area. Municipal water from Carlsbad will be used to hydrostatically test the a new 4-mile section of pipeline. After the testing, the test water will be discharged to the ground surface on BLM property.

The discharge area is located at:

- NE ¼ of the NE ¼ of Section 25, Township 24 South, Range 30 East, Eddy County, New Mexico; or
- Latitude 32°11'44.59"N; Longitude: 103°49' 37.37"W

Attached is a map from the NMTECH pit rule portal showing the location of the discharge. Their website shows no mining in the area, but I wanted to confirm with you. Also attached is a .kmz file of the new pipeline section

If you need additional information, please call.

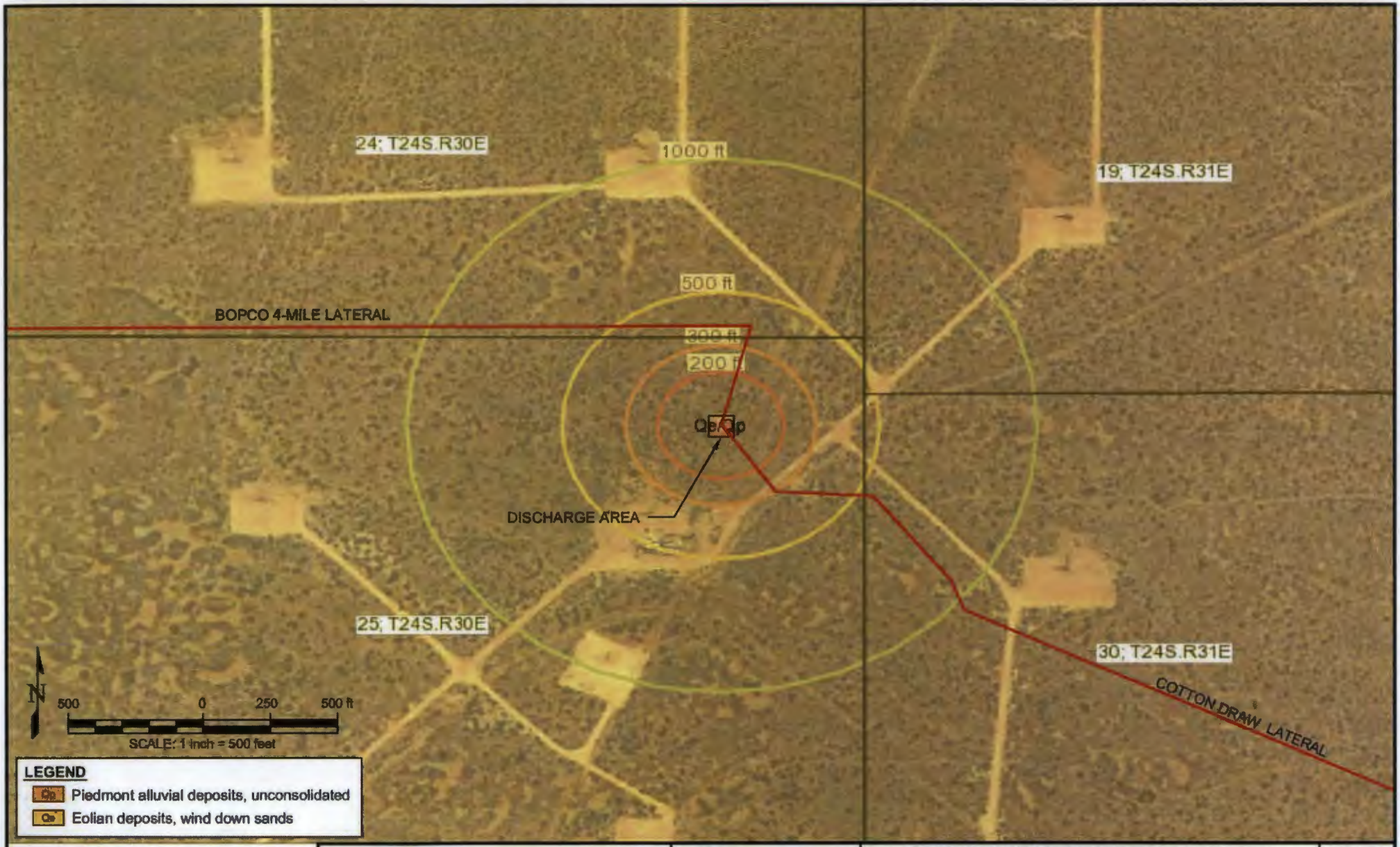
Thank you,

Eileen

-----Original Message-----

APPENDIX D
Geology

ATTACHED IMAGES: Images: D-1.jpg Images: fema.jpg Images: GEO_LEGEND.jpg Images: karst.jpg Images: mines legend.jpg Images: P ³PRC Map Legend 4.jpg Images: TopoSymbols_Page_3.jpg Images:
ATTACHED XREFS:
ALBUQUERQUE, NM
CAD FILE: C:\Users\chait\Documents\Task 1- Bopco 4-mile Lateral\ LAYOUT: D-1 PLOTTED: 29 May 2013, 2:53pm, CHait



Source: PRRC Website, accessed 12/28/2012.

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PROJECT NO.	131457
DRAWN:	05/30/2013
DRAWN BY:	PD/CTH
CHECKED BY:	JH
FILE NAME:	131457_D-1.dwg

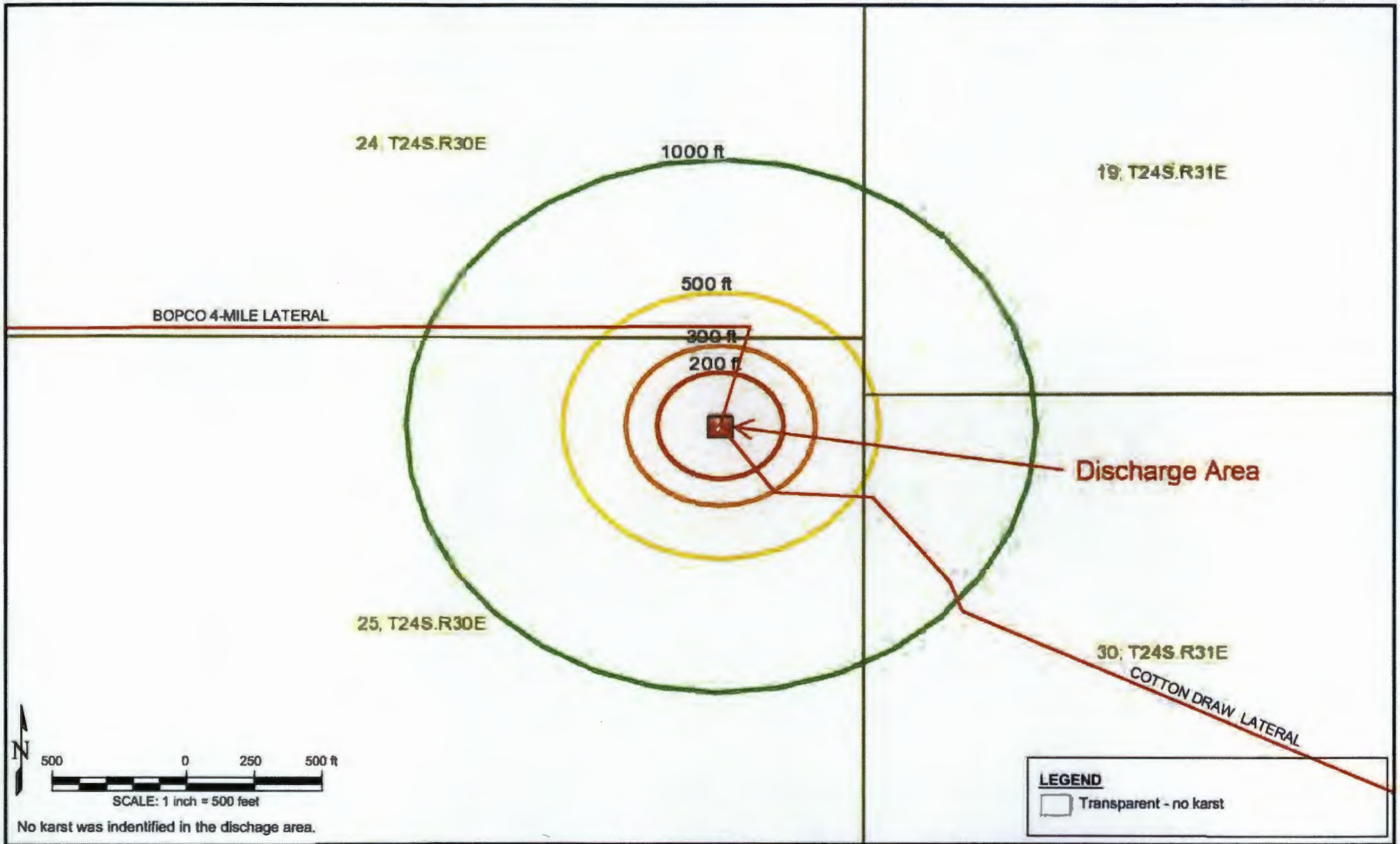
GEOLOGY IN THE VICINITY OF THE DISCHARGE AREA

ENTERPRISE PRODUCTS OPERATING, LLC
BOPCO 4-MILE AND COTTON DRAW LATERALS
EDDY COUNTY, NEW MEXICO

ORIGINATOR: J. HERNANDEZ
APPROVED BY: BE
DRAWING CATEGORY: 2

FIGURE
D-1

ATTACHED IMAGES: Images: D-1.jpg Images: fema.jpg Images: GEO_LEGEND.jpg Images: karst.jpg Images: mines legend.jpg Images: P 'PRC Map Legend 4.jpg Images: TopoSymbols_Page_3.jpg Images:
ATTACHED XREFS:
ALBUQUERQUE, NM
CAD FILE: C:\Users\chait\Documents\Task 1- Bopco 4-mile Lateral\ LAYOUT: D-2 PLOTTED: 29 May 2013, 2:57pm, CHait



No karst was indentified in the dischage area.

Source: PRRC Website, accessed 5/28/2013.

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PROJECT NO.	131457
DRAWN:	05/30/2013
DRAWN BY:	PD/CTH
CHECKED BY:	JH
FILE NAME:	131457_D-1.dwg

KARST IN THE VICINITY OF THE DISCHARGE AREA

ENTERPRISE PRODUCTS OPERATING, LLC
BOPCO 4-MILE AND COTTON DRAW LATERALS
EDDY COUNTY, NEW MEXICO

ORIGINATOR: J. HERNANDEZ
APPROVED BY: BE
DRAWING CATEGORY: 2

FIGURE
D-2

APPENDIX E
Area Landownership

1/3-MILE RADIUS

4-181-142-268-264

4-181-142-267-264

1/3-MILE RADIUS

4-180-142-264-264

4-181-142-268-264

4-181-142-268-264

BOPCO LATERAL PIPELINE

ENTERPRISE EASEMENT

ENTERPRISE EASEMENT

TEMPORARY FRAC TANK STAGING AND DISCHARGE AREA

SECONDARY CONTAINMENT

C 03558 POD1

ENTERPRISE EASEMENT

4-181-143-268-264

ENTERPRISE EASEMENT

1/3-MILE RADIUS

4-180-143-264-264

4-181-143-268-264

1/3-MILE RADIUS

UNNAMED RD

LEGEND

- APPROXIMATE LOCATION OF ENTERPRISE BOPCO 4-MILE LATERAL
- APPROXIMATE LOCATION OF ENTERPRISE COTTON DRAW LATERAL
- APPROXIMATE ENTERPRISE EASEMENT
- TEMPORARY FRAC TANK STAGING AND DISCHARGE AREA
- APPROXIMATE LOCATION OF HYDROSTATIC TEST WATER FRAC TANKS
- C 03558 POD LOCATION
- APPROXIMATE PARCEL BOUNDARY
- 4-180-XXX PARCEL ID

Aerial Image: Esri ONLINE MAPS

500 0

Feet

NAD 1983 StatePlane New Mexico East, US Feet

Parcel	Name
4-180-142-264-264	Bureau of Land Management
4-180-143-264-264	Bureau of Land Management
4-181-142-267-264	Bureau of Land Management
4-181-142-268-264	Bureau of Land Management
4-181-143-268-264	Bureau of Land Management
Source: Eddy County Tax Assessor, 1/28/13 and 5/28/13	

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PROJECT NO.: 131457	LANDOWNERS WITHIN 1/3-MILE RADIUS OF THE DISCHARGE AREA	FIGURE
DRAWN: 05/30/2013	ENTERPRISE PRODUCTS OPERATING, LLC BOPCO 4-MILE AND COTTON DRAW LATERALS EDDY COUNTY, NEW MEXICO	E-1
DRAWN BY: PD/CTH		
CHECKED BY: JH		
FILE NAME: 131457_LandOwn.mxd	ORIGINATOR: J. HERNANDEZ / APPROVED BY: BE	DRAWING CATEGORY: 1

Revision Date: 06/19/2013
Z:\ALBUQUERQUE-DATA\GROUPS\ENVIRON\CURRENT WORK FOLDER PROJECTS\131457 -Enterprise 2013 Hydrostatic Permits\2.0 Technical Information\2.8 - Technical-CADD Figures\Task 1 - Bopco 4-mile - Cotton Draw\131457_LandOwn.mxd

APPENDIX F
Public Notice

PUBLIC NOTICE

The United States Department of Transportation (USDOT) requires periodic pressurized tests on all USDOT-regulated pipelines. Enterprise Products Operating LLC (Enterprise) hereby gives notice that the following discharge permit modification has been submitted to the New Mexico Oil Conservation Division (NMOCD) in accordance with Subsection B, C, E, and F of 20.6.2.3108 New Mexico Administrative Code. The local Enterprise mailing address is: Enterprise Products Operating LLC, 1031 Andrews Highway, Suite 320, Midland, TX 79701.

The purpose of hydrostatic (testing with water) pipeline testing is to determine the extent to which potential defects might threaten the pipeline's ability to sustain maximum allowable operation pressure. The pipeline will be filled with water, and then pressurized to a pressure higher than the standard operating pressure for a specified duration of time.

Enterprise has submitted a modification to Hydrostatic Discharge Permit HIP-119 for Hydrostatic test water discharge that will occur on the pipeline right-of-way in the NE/4 of the NE/4 of Section 25; Township 24 South; Range 30 East in Eddy County, New Mexico. The modification to HIP-119 includes the addition of hydrostatic testing of the adjacent Cotton Draw pipeline. Additional miles of new piping will be tested for a total of 10.5 miles of new pipeline. The location of the hydrostatic test water discharge area remains the same as requested in HIP-119.

The hydrostatic test water discharge area is approximately 17 miles southeast of Loving, New Mexico. To reach the discharge location from the intersection of W. Cedar Street and N. 4th Street in Loving: travel 0.3 miles north on N 4th Street; turn right on County Road 173/Oak Road for 1.7 miles; turn left on S. Donaldson Farm Rd for 1.5 miles; turn right on to NM-31/Potash Mine Road for 4.5 miles; turn right on NM-128E/Jal Highway and continue for 12.8 miles; turn right on Twin Wells Road for 5.6 miles, then turn right to stay on Twin Wells Road and go an additional 1.5 miles; turn left on an unmanned road and continue for 0.8 miles and then turn left on another unmanned for 1.3 miles.

The hydrostatic test is scheduled to begin July 20, 2013 with discharge of the test water scheduled for August 18, 2013. The hydrostatic test of the Cotton Draw Lateral is scheduled first. Potable, municipal water will be transferred into the Cotton Draw Lateral from water trucks. The hydrostatic test of the Cotton Draw Lateral will be conducted. At completion of the test, the water is to be discharged into frac tanks and stored temporarily in the discharge area. The water will then be reused in the hydrostatic test of the Bopco Lateral. The water will be transferred from the frac tanks to the Bopco 4-Mile Lateral and a hydrostatic test conducted on the lateral. Once the test has been completed, Enterprise will collect and analyze a sample of the water obtained from the end section of the pipeline, then transfer the water into frac tanks. The water sample will be analyzed for water quality. Once the results have been received, the results will be forwarded to the NMOCD. Upon NMOCD concurrence that the discharge water meets the water quality standards of NMAC 20.6.2.3103, Enterprise will discharge the water in accordance with the approved discharge permit. If discharge to the ground surface is approved, a hose will be fitted to a valve and the test water will be discharged into the dissipation structure and onto the ground surface.

In the event that the hydrostatic test water is found to be unsuitable for disposal onto the ground surface, the test water will be hauled by an approved NMOCD-hauler, Mesquite Services, Inc. to Dorstate SWD (API #30-015-23728) for injection and disposal.

The first groundwater likely to be affected by a leak, accidental discharge, or spill exists at a depth approximately 365 to 400 feet below the ground surface. The aquifer system in this area has a total dissolved solids concentration between 200 and 3,000 milligrams per liter.

The notice of intent and discharge plan outlines how produced water and waste will be properly managed, including handling, storage, and final disposition. The plan also includes procedures for the proper management of leaks, accidental discharges, and spills to protect the waters of the State of New Mexico.

For additional information, to be placed on a facility-specific mailing list for future notices, or to submit comments please contact:

Brad Jones, Environmental Engineer
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505
Phone: 505.476.3487

The NM Energy, Minerals and Natural Resources Department will accept comments and statements of interest regarding this hydrostatic test and will provide future notices for this pipeline upon request.

AVISO PUBLICO

El Departamento de Transporte de los Estados Unidos (United States Department of Transportation, USDOT) requiere hacer pruebas (presurizadas) periódicamente en toda tubería regulada por USDOT. La compañía Enterprise Products Operating, LLC (Enterprise) da aviso por este medio que la siguiente aplicación de permiso de descarga ha sido sometida al New Mexico Oil Conservation Division (NMOCD) de acuerdo con las Sub-Sección B, C, E, y F del Código Administrativo de Nuevo Mexico (New Mexico Administrative Code, 20.6.2.3108). La dirección de correo local de la compañía Enterprise es: Enterprise Products Operating LLC, 1031 Andrews Highway, Suite 320, Midland, TX 79701.

El propósito de la prueba hidro-estática (prueba con agua) en la tubería es para evaluar el potencial de defectos que puedan afectar la habilidad de la tubería de sostener la máxima presión de operación permisible. La tubería será llenada con agua, y luego presurizada a una presión mayor a la presión de operación estándar por periodo de tiempo especificado.

Enterprise ha sometido una modificación al Permiso de Descarga Hidro-Estática HIP-119 para descargar agua de prueba hidro-estática que ocurrirá en el área de la tubería en el Condado Eddy, Nuevo Mexico (NE ¼ del NE ¼ de la Section 25; Township 24 South; Range 30 East). La modificación al Permiso HIP-119 incluye agregar pruebas hidro-estáticas en la tubería Cotton Draw (adyacente). Millas adicionales de tubería nueva serán probadas para un total de 10.5 millas de tubería nueva. El lugar de descarga del agua de la prueba hidro-estática permanecerá el mismo descrito en HIP-119.

El lugar de la descarga es aproximadamente 17 millas al sureste de Loving, Nuevo Mexico. Para llegar al lugar de la descarga desde la intersección de W. Cedar Street y N. 4th Street en Loving: viajar aproximadamente 0.3 millas hacia el norte en la calle N 4th Street; dar vuelta hacia la derecha en County Road 173/Oak Road y continuar por 1.7 millas; vuelta a la izquierda en S. Donaldson Farm Road y continuar por 1.5 millas; vuelta a la derecha en NM-31/Potash Mine Road y continuar por 4.5 millas; vuelta a la derecha en NM-128/Jal Highway y continuar por 12.8 millas; vuelta a la derecha en Twin Wells Road y continuar por 5.6 millas, y luego dar vuelta a la derecha para continuar sobre Twin Wells Road y continuar 1.5 millas más; vuelta a la izquierda en una calle sin nombre y continuar 0.8 millas y luego dar vuelta a la izquierda en otra calle sin nombre y continuar por 1.3 millas.

La prueba hidro-estática está programada para Julio 18, 2013 con la descarga del agua de prueba programada para Agosto 15, 2013. La prueba de Cotton Draw está programada primero. Agua (potable) municipal será trasladada Cotton Draw Lateral de camiones de agua.

Una vez que la prueba se haya completado, el agua de la prueba hidro-estática Cotton Draw Lateral será descargada a tanques frac y almacenada temporalmente en el área de descarga. El agua será usada otra vez en la prueba hidro-estática en Bopco Lateral. El agua será transferida de los tanques frac a Bopco 4-Millas Lateral y una prueba hidro-estática será llevada a cabo en la lateral. Una vez que la prueba se haya completado, Enterprise obtendrá y analizará una muestra del agua obtenida de la tubería, y luego el agua será transferida a tanques frac. La muestra de agua será analizada para evaluar la calidad del agua. Una vez que se reciban los resultados, los resultados serán enviados a NMOCD. Una vez que NMOCD confirme los resultados indiquen el agua de descarga tiene los estándares de calidad de agua de NMAC 20.6.2.3103, Enterprise descargará el agua de acuerdo al permiso (aprobado) de descarga. Si descarga a la superficie del suelo es aprobado, una manguera será conectada a

una válvula y el agua de prueba será descargada a la estructura de esparcir y a la superficie del suelo.

En el caso de que los resultados de la prueba hidro-estática indiquen que descargar el agua en la superficie sea inapropiado, el agua de prueba será trasladada por una compañía aprobada por NMOCD, Mesquite Services, Inc. a Dorstate SWD (API#30-015-23728) para inyección y descargar.

El primer nivel freático que posiblemente pueda ser afectado por una fuga, descarga accidental, o derrame se encuentra a una profundidad de aproximadamente 365 a 400 pies debajo de la superficie del suelo. El sistema acuífero en esta área tiene una concentración total de solidos disueltos entre 200 y 3,000 miligramos por litro.

El aviso del plan de intención de descarga resume como el agua que se produzca será manejada, incluyendo su guardado y el proceso final para deshacerse del agua. El plan también incluye procesos para el manejo apropiado de fugas, descargas accidentales, derrames para proteger las aguas del estado de Nuevo México (New Mexico).

Para información adicional, ser puesto en una lista de correo de particular a este proyecto, o para someter comentarios, favor de contactar:

Brad Jones, Environmental Engineer
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505
Teléfono: (505) 476-3487

El Departamento de NM de Energia, Minerales y Recursos Naturales (NM Energy, Minerales and Natural Resources Department) aceptará comentarios al respecto de esta prueba hidro-estática y proporcionará avisos futuros para esta tubería en base a petición.