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

State of New Mexico Energy Minerals and Natural Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: BPX Energy				OGRID: 7	78	
Contact Name: Steve Moskal				Contact Te	elephone: (505) 330-9179	
Contact email: steven.moskal@bpx.com				Incident #	(assigned by OCD) nVF1907328394	
Contact mailing address: 1199 Main St., Suite 101, Durango CO, 81301			801			
			Location	on of Re	elease So	ource
I air 1. 26.6	559270					
Latitude: 36.6	05821°		(NAD 83 in a	decimal degr	Longitude: rees to 5 decin	-107.71018° nal places)
Site Name: R	iddle F LS (001			Site Type:	Natural Gas Production Well Pad
Date Release	Discovered	: Unknown - 1994	4		API#: 30-0)45-07407
Unit Letter	Section	Township	Range		Coun	ıty
L	17	T28N	R08W	San Ju	ıan	
	Materia	ıl(s) Released (Select a	Nature an			Release justification for the volumes provided below)
Crude Oil		Volume Releas			•	Volume Recovered (bbls)
Produced	Water	Volume Releas	ed (bbls): N/A Hi	Iistorical S	tockpiles	Volume Recovered (bbls):
		Is the concentration of dissolved chloride in the produced water >10,000 mg/l?			in the	☐ Yes ☐ No
Condensa	ate	Volume Released (bbls):				Volume Recovered (bbls): <u>0 bbls</u>
Natural G	Gas	Volume Released (Mcf)				Volume Recovered (Mcf)
Other (de	escribe)	Volume/Weight Released (provide units)				Volume/Weight Recovered (provide units)
	ely 25 years	ago, hydrocarbon release occurred o		ater impac	ted soil was	s placed on the Riddle F LS 001 well pad for onsite

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Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?		
☐ Yes ⊠ No			
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?		
	Initial Response		
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury		
☐ The source of the rele	ase has been stopped.		
☐ The impacted area has	s been secured to protect human health and the environment.		
	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.		
All free liquids and re	coverable materials have been removed and managed appropriately.		
has begun, please attach a within a lined containmen	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name: _Steve Mo	Skal Title: Environmental Coordinator		
Signature:	Muse: April 11, 2019		
email: <u>steven.moskal@</u>	bpx.com Telephone: <u>(505) 330-9179</u>		
OCD Only			
Received by:	Date:		

State of New Mexico Oil Conservation Division

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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)		
Did this release impact groundwater or surface water?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No		
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No		
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No		
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No		
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No		
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.			
Characterization Report Checklist: Each of the following items must be included in the report.			
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody 			

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico Oil Conservation Division

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name: Steve Moskal Title: Environmental Coordinator		
Signature: Date: _April 11, 2019_		
email: steven.moskal@bpx,com Telephone: (505) 330-9179		
OCD Only		
OCD Only		
Received by: Date:		

State of New Mexico Oil Conservation Division

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Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
Extents of contamination must be fully delineated.
Contamination does not cause an imminent risk to human health, the environment, or groundwater.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of x responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Steve Moskal Title: Environmental Coordinator Date: April 11, 2019 Email: _steven.moskal@bpx.com Telephone: _(505) 330-9179
OCD Only Compute Email A/44/40
Received by: Cory via Email Date: 4/11/19
Approved
Signature: Date: 5/3/16

State of New Mexico Oil Conservation Division

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

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Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

☐ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.
Signature:	Date:
email:	Telephone:
OCD Only	
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

BP Remediation Plan

To: Cory Smith (NMOCD), Emmanuel Adeloye (BLM)

From: Steve Moskal (BPX)
CC: Sabre Beebe (BPX)

Date: 4/11/2019

Re: Riddle F LS 001 - Soil Remediation - Dig and Haul

API#: 30-045-07407 (L), S17, T28N, R08W; Fed Serial #SF-080112

Stockpiles GPS: 36.65827°, -107.71018°

Mr. Smith and Mr. Adeloye,

The Riddle F LS 001 site is a plugged and abandoned natural gas production well location within the San Juan Basin Gas Field in San Juan County, New Mexico. The site is located on land managed by the Bureau of Reclamation and Land Management Farmington Field Office (BLM-FFO) and is in an area primarily used for oil and gas production with limited recreation use. The production well was drilled in 1952.

Background

Approximately 20 years ago, circa 1999, hydrocarbon and produced water impacted soil was placed on the Riddle F LS 001 well pad for onsite landfarming. The stockpiles are estimated to contain approximately 10,000-15,000 cubic yards of soil. The presence of these piles prohibits final reclamation and obtaining final abandonment approval of the well pad. Soil sampling of the piles was conducted on December 14, 2018 with results for hydrocarbons below NMOCD spill and release guideline levels. However, the results for chlorides were elevated, preventing beneficial use of the soil to area oil and gas operators.

Proposed Remediation – Removal of Soil

Adherent to the NMAC 19.15.29, the soil with elevated chlorides cannot remain at the current location of the Riddle F LS 001 wellpad. The soil must be removed for either offsite disposal at an NMOCD approved surface waste facility or may be placed at a site where closure criteria for chlorides is acceptable for the given concentration range of 1,200 ppm to 2,000 ppm chloride.

BP has worked with the BLM Farmington Field office personnel of Natural Resource Management to identify open soil borrow pits needing backfill material for final reclamation. Soil will be removed from the Riddle F LS 001 well pad and transported via trucks to the approved and acceptable sites listed below. The soil will be placed into the opened borrow pits and compacted as fill is added. The fill will be placed to ensure a minimum of four feet of native cover or topsoil when complete. The backfilled and covered area will then be reclaimed to BLM requirements, including, contouring, stormwater management, seeding and final abandonment requirements, as agreed upon by pit users and the BLM. Below are the sites identified by the BLM as being acceptable for closure. The table includes the location information as well as any reference material for site ranking criteria following NMAC 19.15.29.12. In the event that the pits are not of adequate size to accept the volume of soil or other unforeseen complications, the soil will be disposed at an NMOCD surface waste facility.

The soil removal will be observed for changing conditions of color, odor, debris, contnents, etc. and report immediately to the NMOCD and BLM if there are any concerns. Once the stockpiles are

removed, within 30 days, BP will perform vadose zone sampling beneath the footprint of the stockpiles, sampling for TPH, BTEX and chlorides to determine if the site meets closure.

Location	Legal Description	GPS Coordinates	Ranking Criteria
Riddle F LS 001 (Stockpile Source)	(L), S17, T28N, R08W	36.65827, -107.71018 Surface Elevation 5,725'	<50' to groundwater. Largo Wash elev. 5,719'.
Doggie Pit	T25N R6W Sec 4 NWSW	36.42718, -107.47983 Location to be Confirmed Surface Elevation 6,430'	Greater than 10,000 mg/kg Cl; Reference attached Canyon Largo Unit 486 BGT Registration
Pine Tree Mesa Rock Pit	T25N R6W Sec 9 NWNW	36.41886, -107.48098 Surface Elevation 6,660'	Greater than 10,000 mg/kg Cl; Reference attached Canyon Largo Unit 486 BGT Registration
Kline Mesa Pit	T26N R6W Sec 33 SWNE	36.44578, -107.46996 Surface Elevation, 6,730'	Greater than 10,000 mg/kg Cl Reference attached Klein 26N BGT Registration
Unnamed site	T26N R8W Sec 22	36.47451, -107.66249	Less than 100' to wash
Marron Sandstone Pit	T27N R8W Sec 27 SENE	36.54655, -107.66284	Within 150' of tributary of Largo Wash

Site Ranking

Depth to groundwater at the Riddle F LS 001 stockpile site is estimated to be less than 50 feet from ground surface. This estimation is based on the proximity of Largo Wash being approximately 500 feet away and an elevation difference of approximately 6 feet.

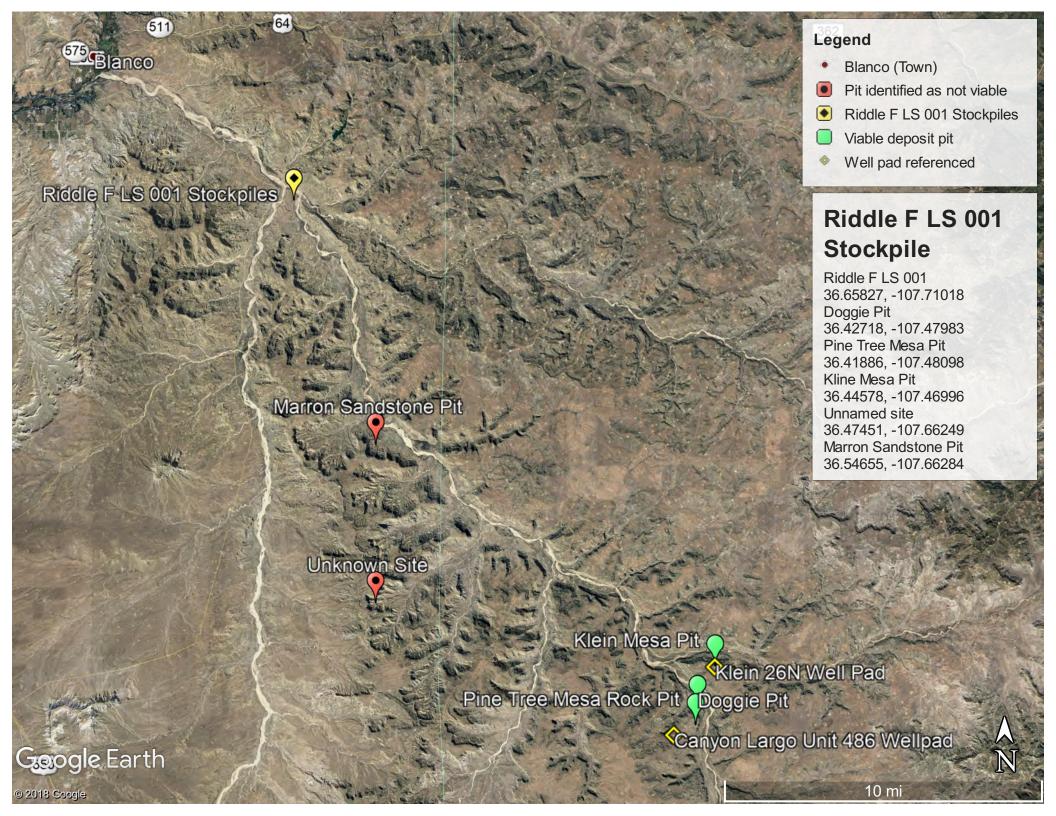
The Marron and unnamed pits are within 150' and 100' of significant ephemeral water ways, defaulting both to 600 mg/kg chloride threshold. These will not be acceptable deposit sites for the soil.

The Doggie, Pine Tree Mesa and Klein Mesa pits are a viable deposit sites for the soil. Each are greater than 100' to groundwater, greater than 200' to a surface water or tributary, greater than 1,000 from a domestic water source, occupied structure/institution and none within a municipal boundary. Attached are reference siting criteria for each. The Pine Tree Mesa pit and Doggie pit are within 4,000 and 6,000 feet of the Canyon Largo Unit 486 well pad, with similar elevation (6,710'). The Klein Mesa Pit is within 200' of the Klein 26N well pad with equal elevations.

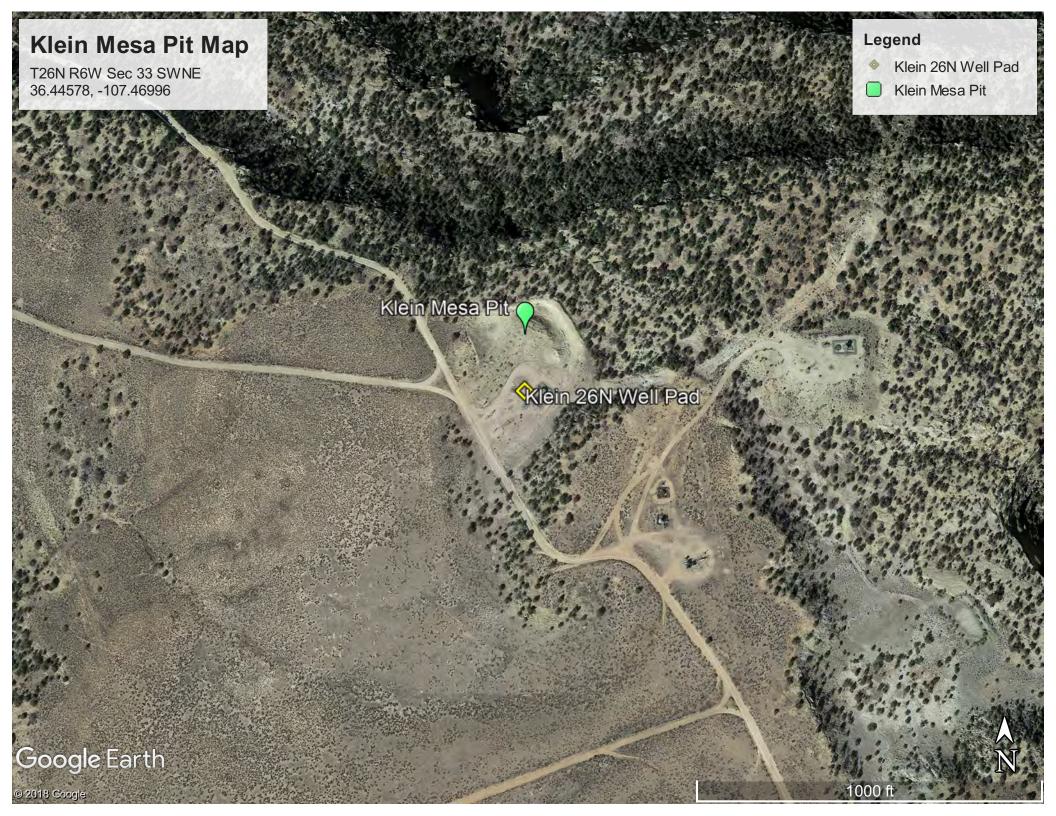
Based on the siting criteria, the remediation site closure standards will be 2,500 ppm TPH, 1,000 ppm GRO+DRO, 50 ppm BTEX, 10 ppm benzene and 10,000 ppm chlorides. The soil samples from December 14, 2018 meet these parameters.

Site Closure and Reporting

Once the trucking activity is complete, vadose zone sampling results are received BP will request closure of the Riddle F LS 001 stockpile site within 60 and proceed with final reclamation at the site under the guidance of the BLM.







District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

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District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

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

July 21, 2008

Form C-144

For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Type of action:	X Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
	Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
	Modification to an existing permit
	Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the

11 DO D 45	Resources Oil & Gas Company, LP	OGRID#: 14538
	89, Farmington, NM 87499	
	CANYON LARGO UNIT 486	OCD D. V. V. I
API Number:		OCD Permit Number:
	F Section: 8 Township:	
	sign: Latitude: 36.4143°N Federal State Priv	Longitude: NAD: X 1927 198. vate Tribal Trust or Indian Allotment
urrace Owner.	Federal State Priv	/ate Thoa Trust of Indian Allounent
Pit: Subsection F	or G of 19.15.17.11 NMAC	
Temporary: Di	rilling Workover	
Permanent Er	mergency Cavitation P&A	
Lined U	nlined Liner type: Thickness	mil LLDPE HDPE PVC Other
String-Reinforced		
Liner Seams:	Velded Factory Other	Volume:bbl Dimensions Lx Wx D
Liner ocums.	related	Totalic, Sol Difficulties E ATT AD
Closed-loop Sys Type of Operation: Drying Pad Lined Un	P&A Drilling a new well Above Ground Steel Tanks Haul-	Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
Liner Seams: W	k: Subsection I of 19.15.17.11 NMAC 120 bbl Type of fluid:	Produced Water
Liner Seams: W	120 bbl Type of fluid:	Produced Water
X Below-grade tank Volume: Tank Construction mat	120 bbl Type of fluid: erial: Metal	
X Below-grade tank Volume: Tank Construction mat	bbl Type of fluid: erial: Metal ment with leak detection X Visible si	dewalls, liner, 6-inch lift and automatic overflow shut-off
X Below-grade tank Volume: Tank Construction mat Secondary contains	bbl Type of fluid: erial: Metal ment with leak detection X Visible si and liner Visible sidewalls only	dewalls, liner, 6-inch lift and automatic overflow shut-off

6		
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks)		
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, in	istitution or ch	urch)
Four foot height, four strands of barbed wire evenly spaced between one and four feet		
X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire.		
7		
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)		
X Screen Netting Other		
Monthly inspections (If netting or screening is not physically feasible)		
8		
Signs: Subsection C of 19.15.17.11 NMAC		
12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers		
X Signed in compliance with 19.15.3.103 NMAC		
9 Administrative Approvals and Exceptions:		
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.		12
Please check a box if one or more of the following is requested, if not leave blank:		
X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for cor (Fencing/BGT Liner)	isideration of a	approval.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.		
10	T	
Siting Criteria (regarding permitting): 19.15.17.10 NMAC		
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.		
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes	XNo
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes	XNo
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	□NA	
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	No
(Applied to permanent pits)	XNA	
 Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 		
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes	XNo
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.		
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended	Yes	XNo
- Written confirmation or verification from the municipality; Written approval obtained from the municipality Within 500 feet of a wetland.	Yes	X No
 US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within the area overlying a subsurface mine. 	Yes	XNo
- Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division		
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	Yes	X No
Society; Topographic map		
Within a 100-year floodplain	Yes	XNo
- FEMA map		

Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. X Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
X Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API or Permit
12
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9
NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API
Previously Approved Operating and Maintenance Plan API
13
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
Climatological Factors Assessment
Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC
Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
Quality Control/Quality Assurance Construction and Installation Plan
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H2S, Prevention Plan
Emergency Response Plan
Oil Field Waste Stream Characterization
Monitoring and Inspection Plan
Erosion Control Plan
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Proposed Closure: 19.15.17.13 NMAC
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System
Alternative Proposed Closure Method: X Waste Excavation and Removal (Below-Grade Tank)
Waste Removal (Closed-loop systems only)
On-site Closure Method (only for temporary pits and closed-loop systems)
In-place Burial On-site Trench
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
15
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.
Rease indicate, by a check mark in the box, that the documents are attached. X Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
X Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
X Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
X Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Form C-144

Waste Removal Closure For Closed-loop Systems That Utilize Above Grou Instructions: Please identify the facility or facilities for the disposal of liquids, are required.		facilities	
Disposal Facility Name:	Disposal Facility Permit #:		
	Disposal Facility Permit #:		
Will any of the proposed closed-loop system operations and associated a Yes (If yes, please provide the information No			ations?
Required for impacted areas which will not be used for future service and oper Soil Backfill and Cover Design Specification - based upon the ap Re-vegetation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements	opropriate requirements of Subsection H of 19.15.17.13 NMA Subsection I of 19.15.17.13 NMAC	AC	
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 Instructions: Each siting criteria requires a demonstration of compliance in the closure certain siting criteria may require administrative approval from the appropriate distriction for consideration of approval. Justifications and/or demonstrations of equivalency are	e plan. Recommendations of acceptable source material are provided bei et office or may be considered an exception which must be submitted to th		
Ground water is less than 50 feet below the bottom of the buried waste.		Yes	No -
- NM Office of the State Engineer - iWATERS database search; USGS: D	ata obtained from nearby wells	N/A	
Ground water is between 50 and 100 feet below the bottom of the buried	waste	Yes	□No
- NM Office of the State Engineer - iWATERS database search; USGS; Da		□N/A	
Ground water is more than 100 feet below the bottom of the buried waste		Yes	□No
 NM Office of the State Engineer - iWATERS database search; USGS; Da 		□ N/A	Пио
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other (measured from the ordinary high-water mark).	significant watercourse or lakebed, sinkhole, or playa lake	Yes	No
- Topographic map; Visual inspection (certification) of the proposed site	trob in aviatance at the time of initial application	ΠVec	□No
 Within 300 feet from a permanent residence, school, hospital, institution, or chu Visual inspection (certification) of the proposed site; Aerial photo; satellite 		Yes	140
		Yes	No
Within 500 horizontal feet of a private, domestic fresh water well or spring that purposes, or within 1000 horizontal fee of any other fresh water well or spring, i - NM Office of the State Engineer - iWATERS database; Visual inspection	in existence at the time of the initial application.		
Within incorporated municipal boundaries or within a defined municipal fresh v pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written appro-		Yes	No
Within 500 feet of a wetland	var obtained from the maintenancy	Пуеѕ	□No
- US Fish and Wildlife Wetland Identification map; Topographic map; Visu	ial inspection (certification) of the proposed site		
Within the area overlying a subsurface mine.		Yes	No
- Written confirantion or verification or map from the NM EMNRD-Mining	g and Mineral Division		
Within an unstable area.	P. Minard Decourage LICCS, NM Contained Spring	Yes	∐No
 Engineering measures incorporated into the design; NM Bureau of Geolog Topographic map 	y & Milletal Resources, 0303, NW Geological Society;		
Within a 100-year floodplain FEMA map		Yes	No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: by a check mark in the box, that the documents are attached.	Each of the following items must bee attached to the closus	re plan. Please i	indicate,
Siting Criteria Compliance Demonstrations - based upon the appr	opriate requirements of 19.15.17.10 NMAC		
Proof of Surface Owner Notice - based upon the appropriate requi			
Construction/Design Plan of Burial Trench (if applicable) based u	ipon the appropriate requirements of 19.15.17.11 NMAC		
Construction/Design Plan of Temporary Pit (for in place burial of	a drying pad) - based upon the appropriate requirements of 1	9.15.17.11 NMA	AC
Protocols and Procedures - based upon the appropriate requirement	nts of 19.15.17.13 NMAC		
Confirmation Sampling Plan (if applicable) - based upon the appro	opriate requirements of Subsection F of 19.15.17.13 NMAC		
Waste Material Sampling Plan - based upon the appropriate require	rements of Subsection F of 19.15.17.13 NMAC		
Disposal Facility Name and Permit Number (for liquids, drilling fl	를 잃었다. 그는 사람들은 사람들은 것이 그렇게 되었다. 이 물을 들어하고 있어요? 그렇게 되어 먹어 먹었다.	nnot be achieved)
Soil Cover Design - based upon the appropriate requirements of S			
Re-vegetation Plan - based upon the appropriate requirements of S			
Site Reclamation Plan - based upon the appropriate requirements	of Subsection G of 19.13.17.13 NMAC		

Operator Application	on Certification:		
	e information submitted with this application is true, acc	curate and complete to the	best of my knowledge and belief.
Name (Print):	Crystal Tafoya	Title:	Regulatory Technician
Signature:	Constal Talona	Date:	12/22/2008
e-mail address:	crystal taloya@conocophillips.com	Telephone:	505-326-9837
	Permit Application (including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)
OCD Representativ	e Signature:		Approval Date:
Title:		OCD Pern	nit Number:
21			
Closure Report (rec Instructions: Operators report is required to be	BABE 1988는 전에 선명을 다 먹는데 일본 전 1987는 1987 전 1987는 1987 전 1	to implementing any closi ion of the closure activitie completed.	are activities and submitting the closure report. The closure s. Please do not complete this section of the form until an c Completion Date:
	ion and Removal On-site Closure Method n approved plan, please explain.	Alternative Closure	Method Waste Removal (Closed-loop systems only)
	rding Waste Removal Closure For Closed-loop System lentify the facility or facilities for where the liquids, drib	lling fluids and drill cutti	ngs were disposed. Use attachment if more than two facilities
Disposal Facility Na	ime:	Disposal Facility	Permit Number:
Disposal Facility Na			Permit Number:
	op system operations and associated activities performed		t be used for future service and opeartions?
	ase demonstrate compliane to the items below)	No	
	ted areas which will not be used for future service and op on (Photo Documentation)	perations:	
	g and Cover Installation		
Re-vegetation	Application Rates and Seeding Technique		
the box, that the do	cuments are attached.	lowing items must be atta	ched to the closure report. Please indicate, by a check mark in
	ure Notice (surface owner and division)		
=	Notice (required for on-site closure) on-site closures and temporary pits)		
	Sampling Analytical Results (if applicable)		
	al Sampling Analytical Results (if applicable)		
	lity Name and Permit Number		
	ng and Cover Installation		
	Application Rates and Seeding Technique		
	ion (Photo Documentation)		
On-site Closur	re Location: Latitude:	Longitude:	NAD 1927 1983
	information and attachments submitted with this closure		and complete to the best of my knowledge and belief. I also certify that
	ith all applicable closure requirements and conditions sp		osure pian.
Name (Print):		Title:	
Signature:		Date:	
e-mail address:		Telephone:	

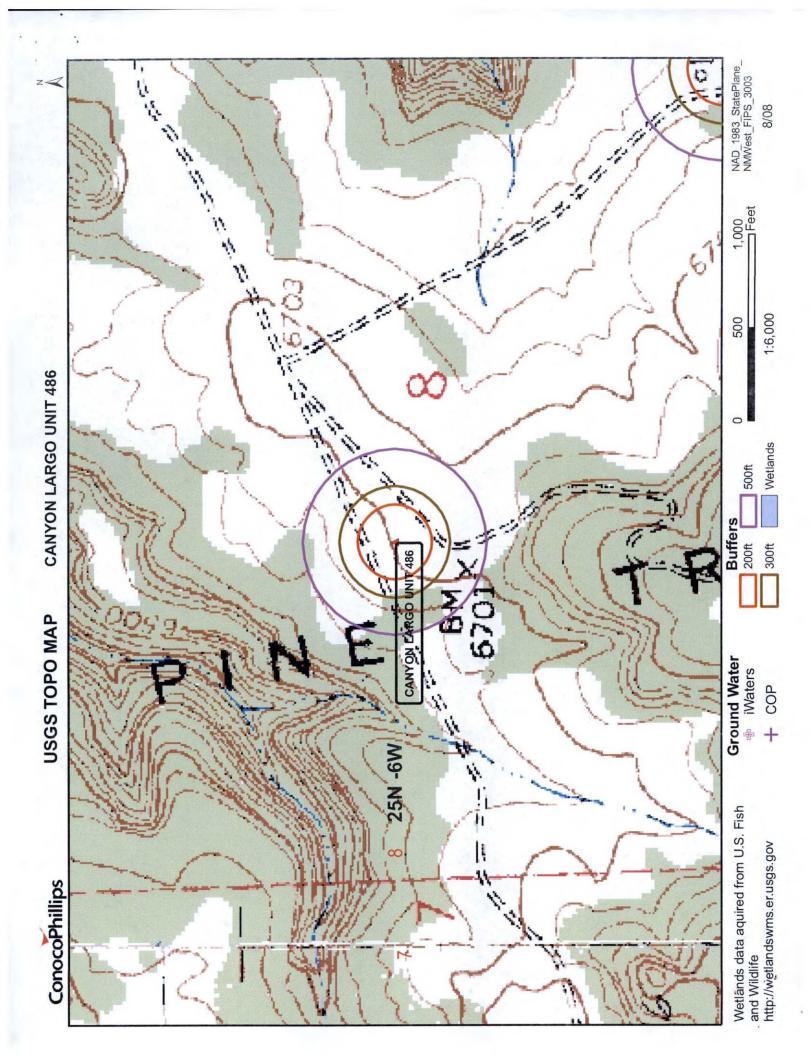
New Mexico Office of the State Engineer POD Reports and Downloads

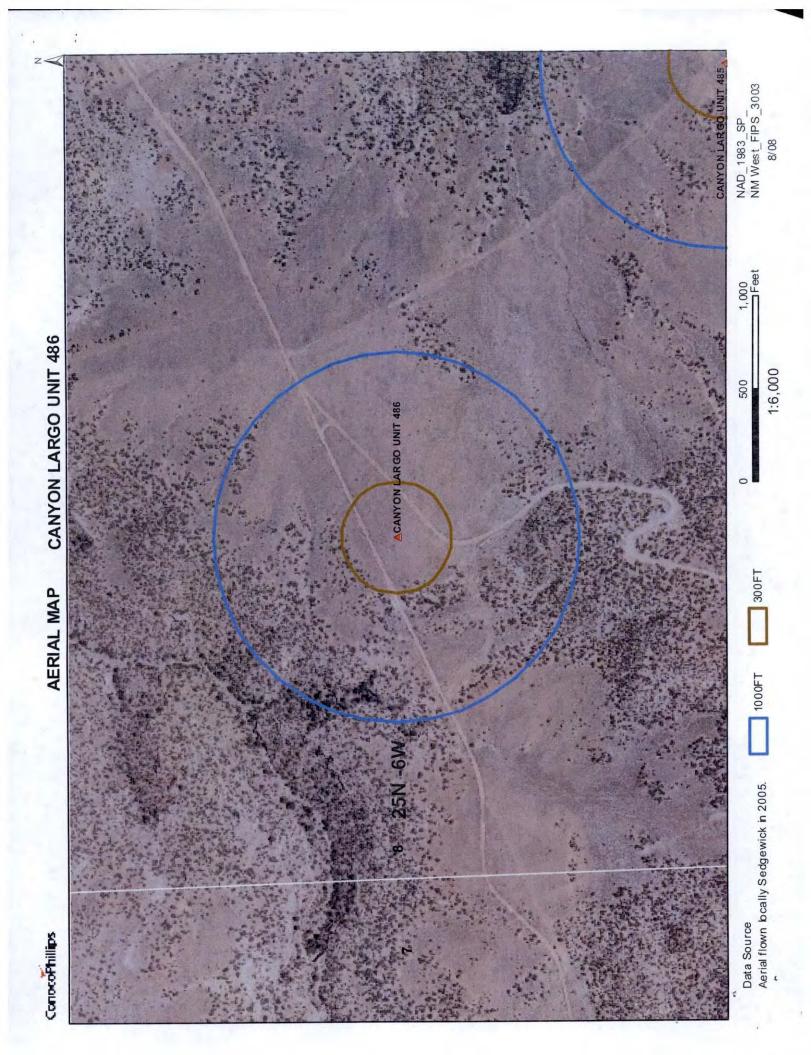
Township: 25N Range	e: 06W Sections:	
NAD27 X: Y:	Zone: Searc	ch Radius:
County: Basin:	Number:	Suffix:
Owner Name: (First)	(Last) C Non-I	Domestic C Domestic C All
POD / Surface Data Report	Avg Depth to Water Report	Water Column Report
Clear	Form iWATERS Menu Help	

WATER COLUMN REPORT 08/20/2008

							3=SW 4=SE smallest	9		Depth	Depth	Water	(in
POD Number	Tws	Rng	Sec	q	q	q	Zone	x	Y	Well	Water	Column	
SJ 00201	25N	06W	03	4	1					1346	500	846	
SJ 00681	25N	06W	21	4	1	4					80		
SJ 00681 12	25N	06W	33	4	4	4				435			

Record Count: 3

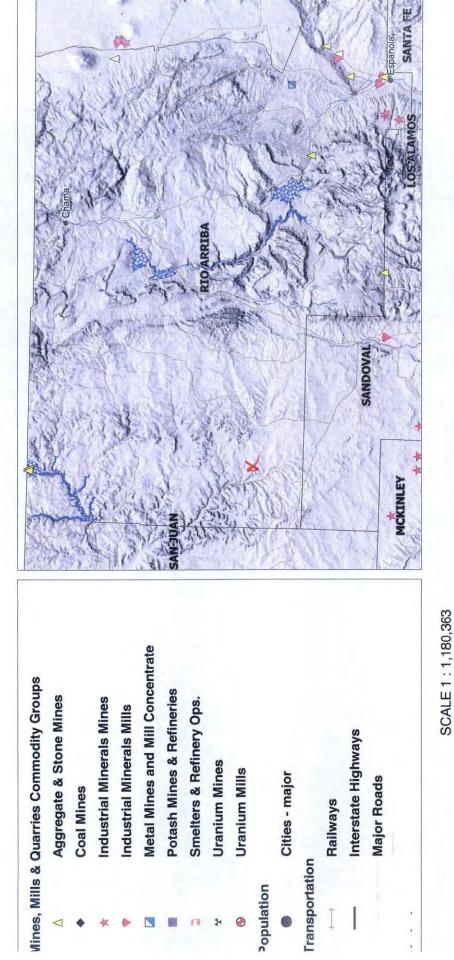




Mines, Mills and Quarries Web Map

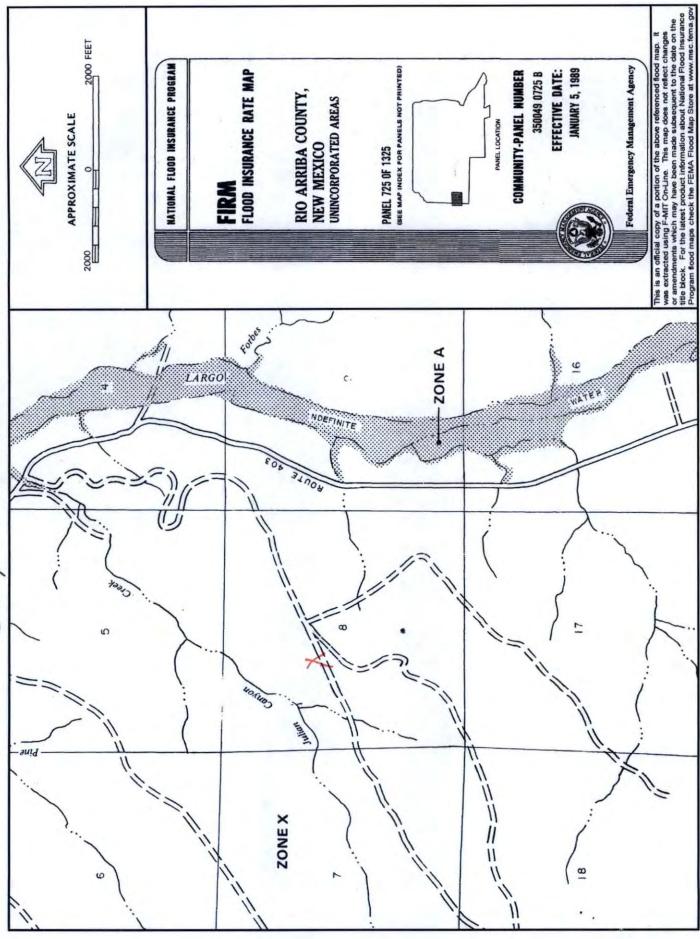
CANYON LARGO UNIT 486

Unit Letter: F, Section: 08, Town: 025N, Range: 006W





CANYON LARGO UNIT 486



CANYON LARGO UNIT 486

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'CANYON LARGO UNIT 486', which is located at 36.4143 degrees North latitude and 107.4926 degrees West longitude. This location is located on the Gonzales Mesa 7.5' USGS topographic quadrangle. This location is in section 8 of Township 25 North Range 6 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in Rio Arriba County, New Mexico. The nearest town is Nageezi, located 17.3 miles to the southwest. The nearest large town (population greater than 10,000) is Farmington, located 45.4 miles to the northwest (National Atlas). The nearest highway is State Highway 403, located 1.2 miles to the southeast. The location is on BLM land and is 4,249 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Blanco Canyon. New Mexico, Subbasin. This location is located 2043 meters or 6701 feet above sea level and receives 10.5 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Pinon-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 119 feet. This estimation is based on the data published on the New Mexico Engineer's iWaters Database website and water depth data from ConocoPhillips' cathodic wells. Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. The nearest stream is 1,043 feet to the west and is classified by the USGS as an intermittent stream. The nearest perennial stream is 4,265 feet to the west. The nearest water body is 4,217 feet to the west. It is classified by the USGS as an intermittent lake and is 0.7 acres in size. The nearest spring is 6,302 feet to the southwest. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 5,930 feet to the southwest. The nearest wetland is a 0.8 acre other located 4,220 feet to the west. The slope at this location is 1 degree to the northwest as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is SAN JOSE FORMATION--Siltstone, shale, and sandstone with a Sandstone dominated formations of all ages substrate. The soil at this location is 'Orlie fine sandy loam, 1 to 8 percent slopes' and is well drained and not hydric with moderate erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 26.0 miles to the southwest as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

Regional Hydrogeological context:

The San Jose Formation of Eocene age occurs in New Mexico and Colorado, and its outcrop forms the land surface over much of the eastern half of the central basin. It overlies the Nacimiento Formation in the area generally south of the Colorado-New Mexico State line and overlies the Animas Formation in the area generally north of the State line. The San Jose Formation was deposited in various fluvial-type environments. In general, the unit consists of an inter-bedded sequence of sandstone, siltstone, and variegated shale. Thickness of the San Jose Formation generally increases from west to east (200 feet in the west and south to almost 2,700 feet in the center of the structural basin). Ground water is associated with alluvial and fluvial sandstone aquifers. Thus, the occurrence of ground water is mainly controlled by the distribution of sandstone in the formation. The distribution of such sandstone is the result of original depositional extent plus any post-depositional modifications, namely erosion and structural deformation. Transmissivity data for San Jose Formation are minimal. Values of 40 and 120 feet squared per day were determined from two aquifer tests (Stone et al, 1983, table 5). The reported or measured discharge from 46 water wells completed in San Jose Formation ranges from 0.15 to 61 gallons per minute and the median is 5 gallons per minute. Most of the wells provide water for livestock and domestic use. The San Jose Formation is a very suitable unit for recharge from precipitation because soils that form on the unit are sandy and highly permeable and therefore readily adsorb precipitation. However, low annual precipitation, relatively high transpiration and evaporation rates, and deep dissection of the San Jose Formation by the San Juan River and its tributaries all tend to reduce the effective recharge to the unit.

Stone et al., 1983, Hydrogeology and Water Resources of the San Juan Basin, New Mexico: Socorro, New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p.

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

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

For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.

Form C-144

July 21, 2008

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Type of action:	X Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
	Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
	Modification to an existing permit
	Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method
Please submit one d	application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative requ
be advised that approval	of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the

Instructions: F uest

Please

environment. Nor does approval reneve the operator of its responsibility to comply with any other applicable governmental abdiority's rules, regulations or orunances.
1 Operator: Burlington Resources Oil & Gas Company, LP OGRID#: 14538
Address: PO Box 4289, Farmington, NM 87499
Facility or well name: KLEIN 26N
API Number: 3003930341 OCD Permit Number:
U/L or Qtr/Qtr: G Section: 33 Township: 26N Range: 6W County: Rio Arriba
Center of Proposed Design: Latitude: 36.4452990°N Longitude: -107.4694200°W NAD: X 1927 1983
Surface Owner: X Federal State Private Tribal Trust or Indian Allotment
Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions L x W x D
Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE HDPE PVD Other Liner Seams: Welded Factory Other
X Below-grade tank: Subsection of 19.15.17.11 NMAC Volume: 120 bbl Type of fluid: Produced Water Tank Construction material: Metal Secondary containment with leak detection X Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other Liner Type: Thickness mil HDPE PVC X Other Unspecified
Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Felicing: Subsection D of 19 15 17 11 NMAC (Applies to permanent pit, temporary pits, and below grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, which, hispital both height, four strands of barbed wire evenly spaced between one and four feet. N Alternate. Please specify. If here who firstly in the f	ntal, institution or chies h)
N Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire.	
Netting: Subsection E of 19 15 17.41 NMAC (Applies to permanent pits and permanent open top tanks) X Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)	
Signs: Subsection C of 19.15.17.11 NMAC 12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers X Signed in compliance with 19.15.3.103 NMAC	
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office fo (Fencing/BGT Liner) Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	or consideration of approval
10	
Siting ('riteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for does not apply to drying pads or above grade-tanks associated with a closed-loop system. Ground water is less than 50 foot belowed.	
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. NM Office of the State Engineer - iWATERS database search: USGS: Data obtained from nearby wells	Yes X No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site	Yes XNo
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial	Yes XNo
(Applies to temporary, emergency, or cavitation pits and helow-grade tanks)	
Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	∐NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes XNo
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	
adopted pursuant to NMSA 1978. Section 3-27-3, as amended	Yes X No
 Written confirmation or verification from the municipality; Written approval obtained from the municipality Within 500 feet of a wetland. 	
Within the area overlying a subsurface mine	Yes XNo
Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division Within an unstable area.	Yes XNo
Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS: NM Geological Society; Topographic map	Yes XNo
Within a 100-year Roodplain FEMA map	Yes X No

Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19 t5.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. X Hydrogeologic Report (Below grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19 t5.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19 t5.17.9 NMAC X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 t5.17.10 NMAC Design Plan - based upon the appropriate requirements of 19 t5.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19 t5.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API or Permit	
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19,15,17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19,15,17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19,15,17,10 NMAC Design Plan - based upon the appropriate requirements of 19,15,17,11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19,15,17,12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19,15,17,9 NMAC and 19,15,17,13 NMAC Previously Approved Design (attach copy of design) API Previously Approved Operating and Maintenance Plan API	
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design, based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nussance or Hazardous Odors, including H2S. Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Essential Plan	
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit XBelow-grade Tank Closed-loop System Alternative Proposed Closure Method: X Waste Excavation and Removat (Below-Grade Tank) Waste Removal (Closed-loop systems only) On-site Closure Method (only for temporary pits and closed-loop systems) In-place Buriat On-site Trench Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)	
Waste Excavation and Removal Closure Plan Checklist: 19.15.17.13 NMAC Instructions: Each of the following items must be attached to the closure plan. Example Protocols and Procedures based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	

lu lu		
Waste Removal Closure For Closed-loop Systems That Utilize . Instruction for Please identity the facility or facilities for the disposa are required.	Above Ground Steel Tanks or Haul-off Bins Only: (1935-1743.D NMAG d of liquids, drilling thirds and drill cuttings. Use attachment if more than to	E) vo lucifiles
Disposat Facility Name:		
Disposal Facility Name:	Disposal Facility Permit #: Disposal Facility Permit #:	
Will any of the proposed closed-loop system operations and a Yes (If yes, please provide the information	associated activities occur on or in areas that will not be used for future	re service and operations?
Required for impacted areas which will not be used for future servi	ice and operations: apon the appropriate requirements of Subsection H of 19,15,17,43 NN rements of Subsection H of 19,15,17,43 NN	AAC
for consideration of approval. Justifications and/or demonstrations of equ	in the closure plan. Recommendations of acceptable source material are provided l printe district office or may be considered an exception which must be submitted to avalency are required. Pleuse refer to 19.15.17.10 NMAC for guidance	velow. Requests regarding changes to the Santa Fe Environmental Bureau office
Ground water is less than 50 feet below the bottom of the buri		Yes No
 NM Office of the State Engineer - iWATERS database search 	: USGS: Data obtained from nearby wells	N/A □
Ground water is between 50 and 100 feet below the bottom of		Yes No
- NM Office of the State Engineer - iWATERS database search:	: USGS; Data obtained from nearby wells	N/A
Ground water is more than 100 feet below the bottom of the bi	uried waste.	Yes No
 NM Office of the State Engineer - iWATERS database search, 	USGS; Data obtained from nearby wells	∏N/A
tineasured from the ordinary night-water mark).	f any other significant watercourse or lakehed, sinkhole, or playa lake	Yes No
- Topographic map: Visual inspection (certification) of the proper		
 Within 300 feet from a permanent residence, school, hospital, institute Visual inspection (certification) of the proposed site; Aerial pho 	tion, or church in existence at the time of initial application. oto: satellite image	Yes No
-NM Office of the State Engineer - iWATERS database; Visual i	inspection (certification) of the proposed site	Yes No
Within incorporated municipal boundaries or within a defined munici- pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Wri-	ipal fresh water well field covered under a municipal ordinance adopted	Yes No
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map; Topographic		Yes No
Within the area overlying a subsurface mine.		Tyes TNo
- Written confirantion or verification or map from the NM EMNI	RD-Mining and Mineral Division	
Within an unstable area. - Fingineering measures incorporated into the design; NM Bureau Topographic map	of Geology & Mineral Resources, USGS, NM Geological Society;	Yes No
Within a 100-year floodplain FEMA map		Yes No
On-Site Closure Plan Charlifet, (10 to 17 17 1844 C)		
by a check mark in the box, that the documents are attached.	uctions: Each of the following items must bee attached to the closus	re plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon	the appropriate requirements of 19.15.17.10 NM AC	
Proof of Surface Owner Notice - based upon the appropri	iate requirements of Subsection F of 19.15.17.13 NMAC	
Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC	
Construction/Design Plan of Temporary Pit (for in place l	burial of a drying pad) - based upon the appropriate requirements of 19	9.15.17.11 NMAC
Protocols and Procedures - based upon the appropriate re-	quirements of 19.15.17.13 NMAC	
Confirmation Sampling Plan (if applicable) - based upon (the appropriate requirements of Subsection F of 19.15.17.13 NMAC	
Waste Material Sampling Plan - hased upon the appropria	ite requirements of Subsection F of 19.15.17.13 NMAC	
Usposal Facility Name and Permit Number (for liquids, d	frilling fluids and drill cuttings or in case on-site closure standards can	not be achieved)
Soil Cover Design - based upon the appropriate requirement	ents of Subsection H of 19,15,17,13 NMAC	
Re-vegetation Plan - based upon the appropriate requirem Site Reclamation Plan - based upon the appropriate requir	ements of Subsection G of 19.15.17.13 NMAC	

2	
[4	
Operator Application (Certification:
Name (Print):	ormation submitted with this application is true, accurate and complete to the best of my knowledge and belief.
Signature	Crystal Lafoya Title. Regulatory Technician
-	Date: 12/22/2008
e mail address	crystal taloya & coroccophillips col Telephone 505-326-9837
20	
	ermit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)
OCD Representative Si	See Conditions (see attacement)
and the same but controlled that the	Approval Date:
Title:	OCD Permit Number:
21	
report is required to be sub-	ed within 60 days of closure completion): Subsection K of 19 15 17 13 NMAC required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure mitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an been obtained and the closure activities have been completed.
	Closure Completion Date:
22 Closure Method:	
Waste Excavation a	nd Removal On-site Closure Method Alternative Closure Method Waste Removal (Closed-loon systems only)
If different from app	roved plan, please explain. Alternative Closure Method Waste Removal (Closed-loop systems only)
23	
were utilized. Disposal Facility Name; Disposal Facility Name; Were the closed-loop syst	Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: The facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities Disposal Facility Permit Number Disposal Facility Permit Number tem operations and associated activities performed on or in areas that will not be used for future service and operations?
Yes (If yes, please de	emonstrate complilane to the items below)
Required for impacted are	eas which will not be used for future service and operations.
Site Reclamation (Ph	
Soil Backfilling and (ation Rates and Seeding Technique
	and react and seeding rechnique
24 Closure Report Attack	nment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in
Proof of Closure No	otice (surface owner and division)
	re (required for on-site closure) e closures and temporary pits)
	ling Analytical Results (if applicable)
	pling Analytical Results (if applicable)
	ome and Permit Number
Soil Backfilling and	
	cation Rates and Seeding Technique noto Documentation)
On-site Closure Loca	
Oil-site Closure Loca	ation: Latitude:Longitude:NAD
perator Closure Certific	Office -
nereby certify that the inform	ation and attachments submitted with this closure report is they discussed and
e closure complies with all a	pplicable closure requirements and conditions specified in the approved closure plan.
ame (Print):	Title:
gnature:	
	Date:
mail address:	Telephone:

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 26N Range	: 06W Sections:
NAD27 X: Y:	Zone: Search Radius:
County: Basin:	Number: Suffix:
Owner Name: (First)	(Last) C Non-Domestic C Domestic All
POD / Surface Data Report	Avg Depth to Water Report Water Column Report
Clear F	Form iWATERS Menu Help
	WATER COLUMN REPORT 08/20/2008

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are biggest to smallest)

POD Number

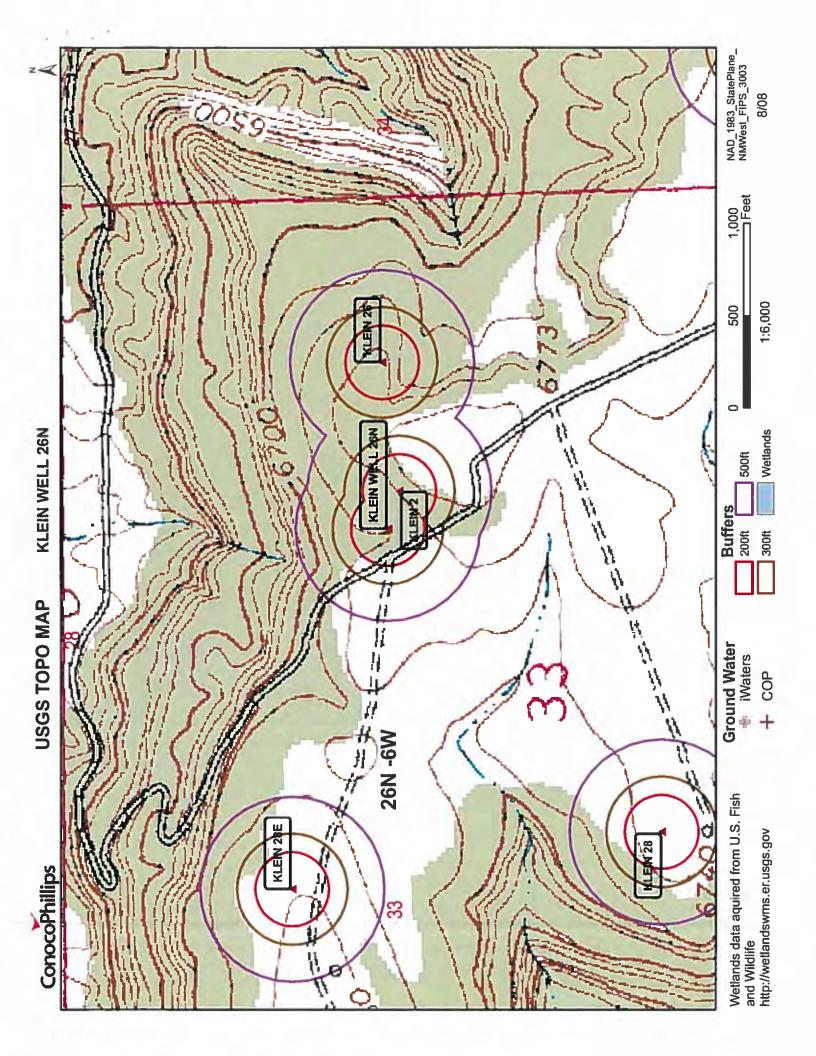
Tws Rng Sec q q Zone X Y Well Water Column

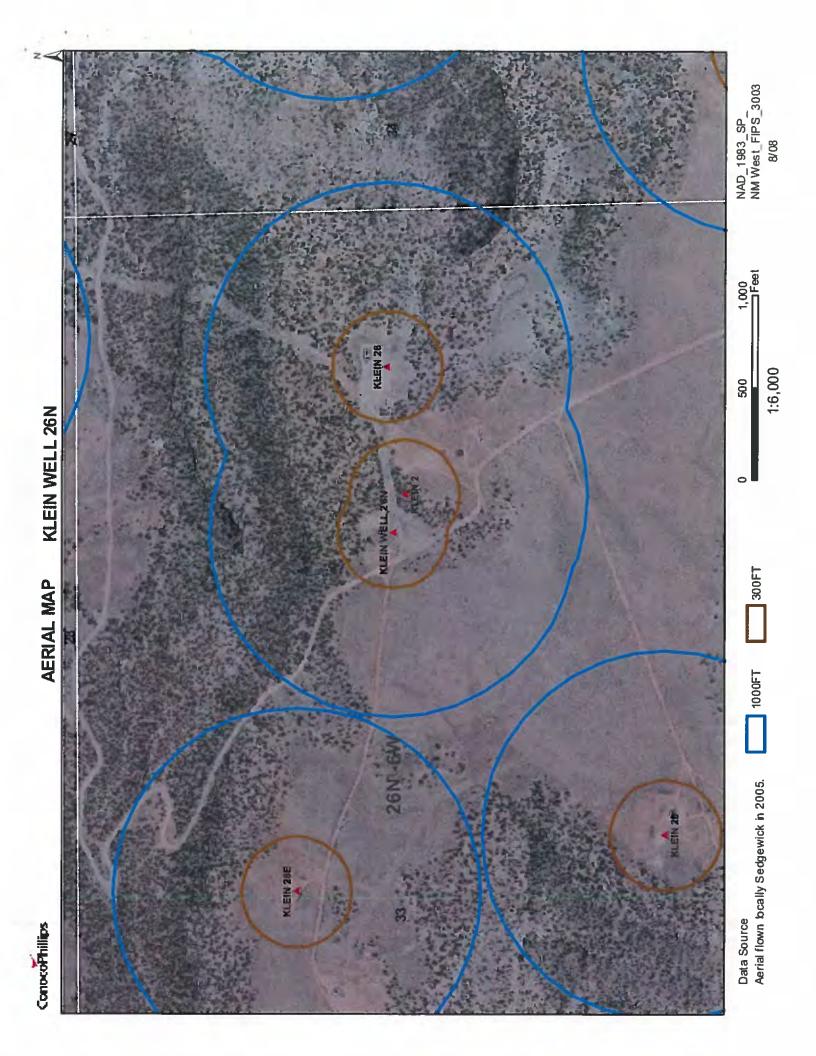
No Records found, try again

New Mexico Office of the State Engineer POD Reports and Downloads

_	
Township: 25N Range: 06W Sections:	
NAD27 X: Y: Zone: Search Radius:	
County: Basin: Number: Suffix:	
Owner Name: (First) (Last) C Non-Domestic C Domestic C All	
POD / Surface Data Report Avg Depth to Water Report Water Column Report	
Clear Form iWATERS Menu Help	
	j
WATER COLUMN REPORT 08/20/2008	
(quarters are 1=NW 2=NE 3=SW 4=SE)	
(quarters are biggest to smallest) Depth Depth Water (i	n
POD Number Tws Rng Sec q q Q Zone X Y Well Water Column	
SJ 00201 25N 06W 03 4 1 1346 500 846	
SJ 00681 25N 06W 21 4 1 4 80	
SJ 00681 12 25N 06W 33 4 4 4 4 4 435	

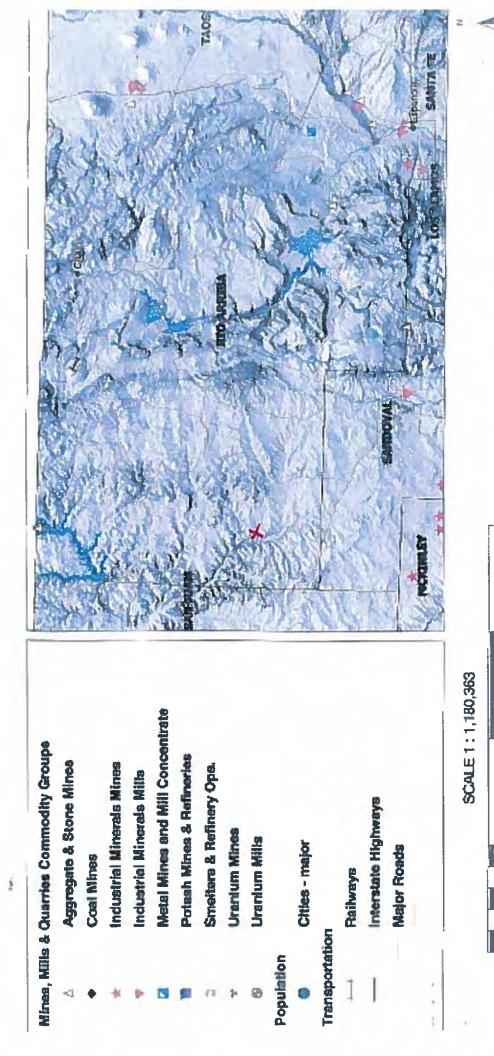
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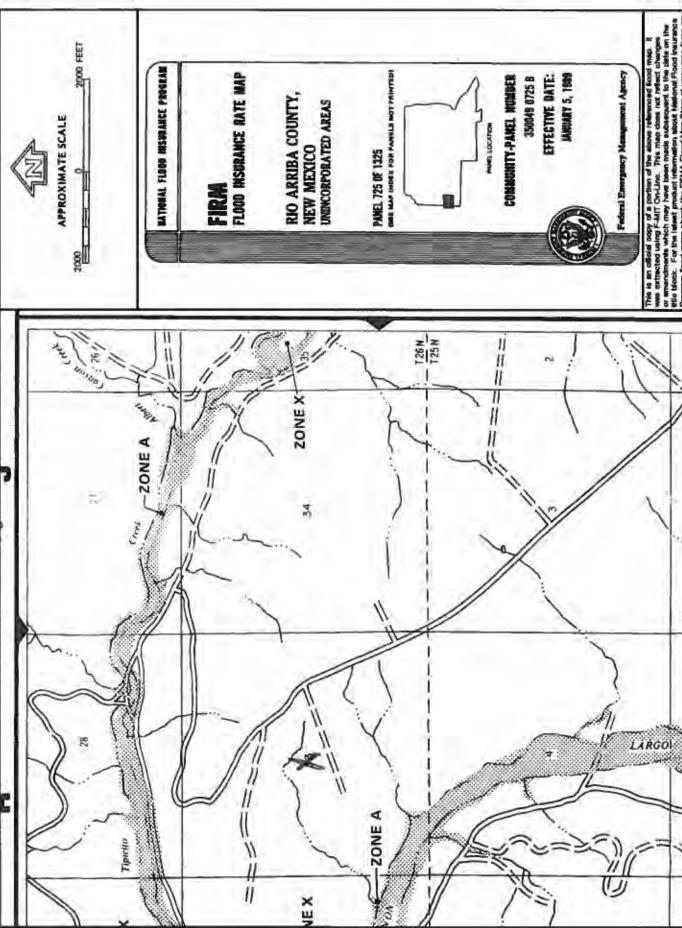


Mines, Mills and Quarries Web Map

KLEIN WELL 26N Unit Letter: , Section: 33, Town: 26N, Range: 6W



MLES



KLEIN WELL 26N

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'KLEIN WELL 26N', which is located at 36.445299 degrees North latitude and 107.46942 degrees West longitude. This location is located on the Gonzales Mesa 7.5' USGS topographic quadrangle. This location is in section 33 of Township 26 North Range 6 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in Rio Arriba County, New Mexico. The nearest town is Nageezi, located 19.6 miles to the southwest. The nearest large town (population greater than 10,000) is Farmington, located 45.5 miles to the northwest (National Atlas). The nearest highway is State Highway 403, located 3.1 miles to the south. The location is on BLM land and is 3,692 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Blanco Canyon. New Mexico, Sub-basin. This location is located 2058 meters or 6750 feet above sea level and receives 10.5 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Pinon-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 393 feet. This estimation is based on the data published on the New Mexico Engineer's iWaters Database website and water depth data from ConocoPhillips' cathodic wells. Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. The nearest stream is 664 feet to the northwest and is classified by the USGS as an intermittent stream. The nearest perennial stream is named Tapicito Creek and is 2,758 feet to the north. The nearest water body is 6,187 feet to the southeast. It is classified by the USGS as an intermittent lake and is 0.2 acres in size. The nearest spring is 7,666 feet to the south. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 2,473 feet to the north. The nearest wetland is a 412.7 acre Ravine located 2,702 feet to the north. The slope at this location is 3 degrees to the northwest as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is SAN JOSE FORMATION--Siltstone. shale, and sandstone with a Sandstone dominated formations of all ages substrate. The soil at this location is 'Vessilla-Menefee-Orlie complex, 1 to 30 percent slopes' and is well drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 27.8 miles to the north as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

Regional Hydrogeological context:

The San Jose Formation of Eocene age occurs in New Mexico and Colorado, and its outcrop forms the land surface over much of the eastern half of the central basin. It overlies the Nacimiento Formation in the area generally south of the Colorado-New Mexico State line and overlies the Animas Formation in the area generally north of the State line. The San Jose Formation was deposited in various fluvial-type environments. In general, the unit consists of an interbedded sequence of sandstone, siltstone, and variegated shale. Thickness of the San Jose Formation generally increases from west to east (200 feet in the west and south to almost 2,700 feet in the center of the structural basin). Ground water is associated with alluvial and fluvial sandstone aquifers. Thus, the occurrence of ground water is mainly controlled by the distribution of sandstone in the formation. The distribution of such sandstone is the result of original depositional extent plus any post-depositional modifications, namely erosion and structural deformation. Transmissivity data for San Jose Formation are minimal. Values of 40 and 120 feet squared per day were determined from two aquifer tests (Stone et al, 1983, table 5). The reported or measured discharge from 46 water wells completed in San Jose Formation ranges from 0.15 to 61 gallons per minute and the median is 5 gallons per minute. Most of the wells provide water for livestock and domestic use. The San Jose Formation is a very suitable unit for recharge from precipitation because soils that form on the unit are sandy and highly permeable and therefore readily adsorb precipitation. However, low annual precipitation, relatively high transpiration and evaporation rates, and deep dissection of the San Jose Formation by the San Juan River and its tributaries all tend to reduce the effective recharge to the unit.

Stone et al., 1983, Hydrogeology and Water Resources of the San Juan Basin, New Mexico: Socorro, New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p.