District I 1625 N. French Dr., Hobbs, NM 88240 District II 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

For temporary pits, closed-loop systems, 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 results a construct the corrections.

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:  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 environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
I. Operator: ELM RIDGE EXPLORATION COMPANY, LLC OGRID #: 149052
Address: P. O. BOX 156, BLOOMFIELD, NM 87413
Facility or well name: WEST BISTI COAL 22 COM 1 T
API Number: 30-045-33374 OCD Permit Number:
U/L or Qtr/Qtr SESE Section 22 Township 25 N Range 13 W County: SAN JUAN
Center of Proposed Design. Latitude 36.382926° N Longitude 108.206424° W NAD: ⊠1927 □ 1983
Surface Owner:  Federal State Private Tribal Trust or Indian Allotment
2.
☐ Lined ☐ Unlined Liner type: Thickness mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
Liner Seams:  Welded  Factory Other
4.
Below-grade tank: Subsection I of 19.15.17.11 NMAC
Volume:bbl Type of fluid:
Tank Construction material:
Tank Construction material:  Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
Tank Construction material:  Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off  Visible sidewalls and liner Visible sidewalls only Other
Tank Construction material:  Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off  Visible sidewalls and liner Visible sidewalls only Other  Liner type: Thicknessmil HDPE PVC Other
Tank Construction material:  Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off  Visible sidewalls and liner Visible sidewalls only Other

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, 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, institution or church)  Four foot height, four strands of barbed wire evenly spaced between one and four feet  Alternate. Please specify minimum 36" hog wire topped with at least 1 strand of barbed wire = at least 48" high fence	hospital,							
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)  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  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:  Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval. See italicized requests for alternate slopes on Page 3 of attachment  Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for							
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 accept material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying 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 ⊠ No							
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ⊠ No							
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  (Applies to temporary, emergency, or cavitation pits and below-grade tanks)  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☑ No ☐ NA							
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits)	☐ Yes ⊠ No ☐ NA							
<ul> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> <li>Within 500 horizontal 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.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	☐ Yes 🏻 No							
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.  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ⊠ No							
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ⊠ No							
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ⊠ No							
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes 🖾 No							
Within a 100-year floodplain FEMA map	☐ Yes 🛭 No							

)

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.
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 NMAC Siting Criteria Compliance Demonstrations - 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
Previously Approved Design (attach copy of design) API Number: or Permit Number:
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 Number:
Previously Approved Operating and Maintenance Plan API Number: (Applies only to closed-loop system that use
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
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 (1) 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 H <sub>2</sub> S, 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 Below-grade Tank Closed-loop System Alternative
Proposed Closure Method:  Waste Excavation and Removal  Waste Removal (Closed-loop systems only)  On-site Closure Method (Only for temporary pits and closed-loop systems)  In-place Burial  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. Please indicate, by a check mark in the box, that the documents are attached.  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

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.1 Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if	O NMAC) more than two									
facilities are required.										
Disposal Facility Name: Disposal Facility Permit Number:										
Disposal Facility Name: Disposal Facility Permit Number:										
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations?  Yes (If yes, please provide the information below) No										
Required for impacted areas which will not be used for future service and operations:  Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.13 NMA Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	C .									
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sou provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate dist considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Just demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	rict office or may be									
Ground water is less than 50 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☒ No ☐ NA									
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	⊠ Yes □ No □ NA									
Ground water is more than 100 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	⊠ Yes □ No □ NA									
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ⊠ No									
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ⊠ No									
Within 500 horizontal 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.  - NM Office of the State Engineer - iWATERS database; 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.  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No									
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ⊠ No									
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ⊠ No									
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	☐ Yes ⊠ No									
Within a 100-year floodplain FEMA map	☐ Yes ⊠ No									
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan a check mark in the box, that the documents are attached.  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC See 10. on AP.  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 burial of a drying pad) - based upon the appropriate requirements of 19.  Protocols and Procedures - based upon the appropriate requirements of Subsection F 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 - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC	D Page 9 (Exhibit K) 15.17.11 NMAC									

Operator Application Certification:  I hereby certify that the information submitted with this application is true, accurate	and complete to the best of my knowledge and belief.										
Name (Print): BRIAN WOOD Time: CONSULTANT											
Signature:	Date: <u>8-25-08</u>										
e-mail address: <u>brian@permitswest.com</u> Telephone: <u>(505) 466-8120</u>											
20. OCD Approval: Permit Application (including closure plan)  Closure Plan	(only) OCD Conditions (see attachment)										
	Approval Date: 9-18-08										
Title: Ewiro/spec	OCD Permit Number:										
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.											
	☐ Closure Completion Date:										
22.  Closure Method:  Waste Excavation and Removal On-Site Closure Method Alternation  If different from approved plan, please explain.	ve Closure Method										
Closure Report Regarding Waste Removal Closure For Closed-loop Systems T Instructions: Please indentify the facility or facilities for where the liquids, drilling two facilities were utilized.											
Disposal Facility Name:	Disposal Facility Permit Number:										
Disposal Facility Name:	Disposal Facility Permit Number:										
Were the closed-loop system operations and associated activities performed on or in Yes (If yes, please demonstrate compliance to the items below) \( \subseteq \text{No} \)	areas that will not be used for future service and operations?										
Required for impacted areas which will not be used for future service and operation  Site Reclamation (Photo Documentation)  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique	is:`										
24. <u>Closure Report Attachment Checklist</u> : Instructions: Each of the following item	is must be attached to the closure report. Please indicate, by a check										
mark in the box, that the documents are attached.  Proof of Closure Notice (surface owner and division)  Proof of Deed Notice (required for on-site closure)  Plot Plan (for on-site closures and temporary pits)  Confirmation Sampling Analytical Results (if applicable)  Waste Material Sampling Analytical Results (required for on-site closure)  Disposal Facility Name and Permit Number  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique  Site Reclamation (Photo Documentation)	. NAD. □1027 □ 1092										
On-site Closure Location: Latitude Longitud	e NAD: \[ \square 1927 \square  1983										
Operator Closure Certification:  I hereby certify that the information and attachments submitted with this closure repbelief. I also certify that the closure complies with all applicable closure requirements.	ort is true, accurate and complete to the best of my knowledge and ants and conditions specified in the approved closure plan.										
Name (Print):	Title:										
Signature:	Date:										
e-mail address:	Telephone:										

## Siting Criteria

1. Ground water is >50' below the bottom of the pit. Closest actual water depth reported is the U. S. Department of Interior (USDI) well which is >7 miles northeast in 1-25n-12w. Water depth is 210' in the 403' deep USDI well. The USDI well probably produces from the Ojo Alamo sandstone. Pit will be atop the Ojo Alamo Formation. Office of the State Engineer records for the 4 closest townships are attached as Exhibit A.

6,306' graded ground - 8' deep pit 6,298' bottom of pit

6,281' USDI water well ground elevation
-210' depth to water
6,071' water level elevation

6,298' bottom of pit - 6,071' water level ≈227' depth to water

- 2. Pit is not within 300' of a continuously flowing watercourse. Pit is not within 200' of any other significant watercourse as defined by OCD. Closest first order tributary of Hunter Wash is miles downstream (Exhibit B).
- 3. Pit is not within 300' of any building. Closest buildings are over 1/2 mile northeast in 23-25n-12w. (Exhibits B & C).
- 4. Pit is not within 1,000' any fresh water well or spring (Exhibits A & B).
- 5. Pit is not within municipal boundaries or within a municipal fresh water well field (Exhibits A & B).
- 6. Pit is not within 500' of a wetland (Exhibit D).
- 7. Pit does not overly a mine (Exhibit E).



- 8. Pit is not in an unstable area. No evidence of earth movement was found during an August 15, 2008 inspection. Maximum grade is  $\approx$ 2%. All of the pit will be in cut (Exhibits F & G).
- 9. Pit is not within a 100 year flood plain (Exhibit H).
- 10. C-102 is attached as Exhibit I.
- 11. Closure notice (item 10 on PAGE 7 of APD) to surface owner (Navajo Nation approval also attached) is attached as Exhibit J.

## **Hydrogeology**

Surface formation is the Ojo Alamo Formation, though it is hidden by stabilized sand dunes at the well location. According to Stone et al in Hydrogeology and water resources of San Juan Basin, New Mexico, the Ojo Alamo is mainly a sandstone or conglomerate sandstone. Transmissivities range from 50 to 250 feet<sup>2</sup> per day. Water near the outcrop has a specific conductance of 1,000  $\mu$ mhos. There is no evidence (e. g., windmill, cottonwood trees) that groundwater is near the surface.

## Alternative for 19.15.17.11 D. (3)

Elm Ridge is proposing an alternate fence. Sheep graze in the project area and hog wire has been found to be more effective than just barbed wire. The operator will fence the pit with a minimum 48" high fence. Fence will consist of minimum 36" woven wire (hog wire) topped with at least 1 strand of barbed wire.

## Alternative for 19.15.17.11 F. (2)

Elm Ridge is proposing alternate (vertical) slopes for the 60' long sides of the pit. Alternate is requested to minimize well site footprint. This allows a smaller rig to be used. Rig must be close to the deep part of the pit since the



pump is on the rig itself. Elm Ridge will install extra liner to allow for some slack and avoid stress and strain. Elm Ridge will also install two rope ladders - one on each of the 60' long sides.

## Alternative for 19.15.17.13 F. (1) (d)

If the well goes into production, then an alternate interim marking system will be used to allow for safer and more efficient operations. A minimum 4" O. D. steel pipe will be set at least 36" deep at the center of the pit. A threaded collar will be on the top of the pipe. A minimum  $12" \times 12"$  steel plate will welded atop the threaded collar. Top of the plate will be flush with ground level. The standard location information listed will be welded onto the plate, plus a notation that it marks an on site buried temporary pit. Upon plugging the well, the plate will be removed and the pit marked as described in 19.15.17.13 F. (1) (d).

Executed this 25th day of August, 2008.

Brian Wood, Consultant

Permits West, Inc.

37 Verano Loop, Santa Fe, NM 87508

(505) 466-8120

FAX: (505) 466-9682

Cellular: (505) 699-2276

The operator's field representative is:

Terry Lindeman Elm Ridge Exploration Company, LLC P. O. Box 156 Bloomfield, NM 87413 (505) 632-3476



#### **NMOCD Rules**

#### 19.15.17.11 DESIGN AND CONSTRUCTION SPECIFICATIONS:

- A. General specifications. An operator shall design and construct a pit, closed-loop system, below-grade tank or sump to contain liquids and solids and prevent contamination of fresh water and protect public health and the environment.
- **B.** Stockpiling of topsoil. Prior to constructing a pit or closed-looped system, except a pit constructed in an emergency, the operator shall strip and stockpile the topsoil for use as the final cover or fill at the time of closure.
- C. Signs. The operator shall post an upright sign not less than 12 inches by 24 inches with lettering not less than two inches in height in a conspicuous place on the fence surrounding the pit, closed-loop system or below-grade tank, unless the pit, closed-loop system or below-grade tank is located on a site where there is an existing well, signed in compliance with 19.15.3.103 NMAC, that is operated by the same operator. The operator shall post the sign in a manner and location such that a person can easily read the legend. The sign shall provide the following information: the operator's name; the location of the site by quarter-quarter or unit letter, section, township and range; and emergency telephone numbers.

#### D. Fencing.

- (1) The operator shall fence or enclose a pit or below-grade tank in a manner that prevents unauthorized access and shall maintain the fences in good repair. Fences are not required if there is an adequate surrounding perimeter fence that prevents unauthorized access to the well site or facility, including the pit or below-grade tank. During drilling or work over operations, the operator is not required to fence the edge of the pit adjacent to the drilling or work over rig.
- (2) The operator shall fence or enclose a pit or below-grade tank located within 1000-feet of a permanent residence, school, hospital, institution or church with a chain-link-security-fence, at least six feet in height with at least two strands of barbed wire at the top. The operator shall ensure that all gates associated with the fence are closed and locked when responsible personnel are not on-site. During drilling or work over operations, the operator is not required to fence the edge of the temporary pit adjacent to the drilling or work over rig.
- (3) The operator shall fence any other pit or below grade tank to exclude livestock with a four foot fence that has at least four strands of barbed wire evenly spaced in the interval between one foot and four feet above ground level. The appropriate division district office may approve an alternative to this requirement if the operator demonstrates that an alternative provides



equivalent or better protection. The appropriate division district office may impose additional fencing requirements for protection of wildlife in particular areas.

The operator will fence the pit with a minimum 48" high fence. Fence will consist of minimum 36" woven wire (hog wire) topped with at least 1 strand of barbed wire.

- E. Netting. The operator shall ensure that a permanent pit or a permanent open top tank is screened, netted or otherwise rendered non-hazardous to wildlife, including migratory birds. Where netting or screening is not-feasible, the operator shall on a monthly basis inspect for, and within 30 days of discovery, report discovery of dead migratory birds or other wildlife to the appropriate wildlife agency and to the appropriate division district office in order to facilitate assessment and implementation of measures to prevent incidents from reoccurring.
- F. Temporary pits. The operator shall design and construct a temporary pit in accordance with the following requirements.
- (1) The operator shall design and construct a temporary pit to ensure the confinement of liquids to prevent unauthorized releases.
- slopes consisting of a firm, unyielding base, smooth and free of rocks, debris, sharp edges or irregularities to prevent the liner's rupture or tear. The operator shall construct a temporary pit so that the slopes are no steeper than two horizontal feet to one vertical foot (2H:1V). The short (12' wide) side slopes will be no steeper than two horizontal feet to one vertical foot (2H:1V). The long (60' wide) side slopes will be vertical. The appropriate division district office may approve an alternative to the slope requirement if the operator demonstrates that it can construct and operate the temporary pit in a safe manner to prevent contamination of fresh water and protect public health and the environment.
- (3) The operator shall design and construct a temporary pit with a geomembrane liner. The geomembrane liner shall consist of 20-mil string reinforced LLDPE or equivalent liner material that the appropriate division district office approves. The geomembrane liner shall be composed of an impervious, synthetic material that is resistant to petroleum hydrocarbons, salts and acidic and alkaline solutions. The liner material shall be resistant to ultraviolet light. Liner compatibility shall comply with EPA SW-846 method 9090A.
- (4) The operator shall minimize liner seams and orient them up and down, not across a slope. The operator shall use factory welded seams where possible. Prior to field seaming, the operator shall overlap liners four to six inches and orient seams parallel to the line



of maximum slope, *i.e.*, oriented along, not across, the slope. The operator shall minimize the number of field seams in corners and irregularly shaped areas. Qualified personnel shall perform field seaming. The operator shall weld field liner seams.

- (5) Construction shall avoid excessive stress-strain on the liner.
- (6) Geotextile is required under the liner where needed to reduce localized stress-strain or protuberances that may otherwise compromise the liner's integrity.
- (7) The operator shall anchor the edges of all liners in the bottom of a compacted earth-filled trench. The anchor trench shall be at least 18 inches deep.
- (8) The operator shall ensure that the liner is protected from any fluid force or mechanical damage at any point of discharge into or suction from the lined temporary pit by using an  $\approx 8$ " O. D. PVC pipe at a  $\approx 45$ ° angle.
- (9) The operator shall design and construct a temporary pit to prevent run-on of surface water. A berm, ditch, proper sloping or other diversion shall surround a temporary pit to prevent run-on of surface water. During drilling operations, the edge of the temporary pit adjacent to the drilling or work over rig is not required to have run-on protection if the operator is using the temporary pit to collect liquids escaping from the drilling or work over rig and run-on will not result in a breach of the temporary pit.
- (10) The volume of a temporary pit shall not exceed 10 acre-feet, including freeboard.
- (11) The part of a temporary pit used to vent or flare gas during a drilling or work over operation that is designed to allow liquids to drain to a separate temporary pit does not require a liner, unless the appropriate division district office requires an alternative design in order to protect surface water, ground water and the environment. The operator shall not allow freestanding liquids to remain on the unlined portion of a temporary pit used to vent or flare gas.

#### 19.15.17.12 OPERATIONAL REQUIREMENTS:

- A. General specifications. An operator shall maintain and operate a pit, closed-loop system, below-grade tank or sump in accordance with the following requirements.
- grade tank or sump to contain liquids and solids and maintain the integrity of the liner, liner



system or secondary containment system, prevent contamination of fresh water and protect public health and the environment.

- (2) The operator shall recycle, reuse or reclaim or dispose of all drilling fluids in a manner, approved by division rules, that prevents the contamination of fresh water and protects public health and the environment. *Operator will haul such fluids to the Basin Disposal* (NM-01-005) evaporation pond (3-29n-11w).
- (3) The operator shall not discharge into or store any hazardous waste in a pit, closed-loop system, below-grade tank or sump.
- (4) If any pit liner's integrity is compromised, or if any penetration of the liner occurs above the liquid's surface, then the operator shall notify the appropriate division district office within 48 hours of the discovery and repair the damage or replace the liner.
- (5) If a pit, below-grade tank, closed-loop system or sump develops a leak, or if any penetration of the pit liner, below-grade tank, closed-loop system or sump occurs below the liquid's surface, then the operator shall remove all liquid above the damage or leak line within 48 hours, notify the appropriate division district office within 48 hours of the discovery and repair the damage or replace the pit liner, below-grade tank, closed-loop system or sump.
- (6) The injection or withdrawal of liquids from a pit shall be accomplished through a header, diverter or other hardware that prevents damage to the liner by erosion, fluid jets or impact from installation and removal of hoses or pipes.
- (7) The operator shall operate and install a pit, below-grade tank or sump to prevent the collection of surface water run-on.
- (8) The operator shall install, or maintain on site, an oil absorbent boom or other device to contain and remove oil from a pit's surface.
- **B.** Temporary pits. An operator shall maintain and operate a temporary pit in accordance with the following additional requirements.
- (1) Only fluids used or generated during the drilling or work over process may be discharged into a temporary pit. The operator shall maintain a temporary pit free of miscellaneous solid waste or debris. The operator shall use a tank made of steel or other material, which the appropriate division district office approves, to contain hydrocarbon-based drilling fluids. Immediately after cessation of a drilling or work over operation, the operator shall remove



any visible or measurable layer of oil from the surface of a drilling or work over pit.

- (2) The operator shall maintain at least 2 feet of freeboard for a temporary pit.
- (3) The operator shall inspect a temporary pit containing drilling fluids at least daily while the drilling or work over rig is on-site. Thereafter, the operator shall inspect the temporary pit weekly so long as liquids remain in the temporary pit. The operator shall maintain a log of such inspections and make the log available for the appropriate division district office's review upon request. The operator shall file a copy of the log with the appropriate division district office when the operator closes the temporary pit.
- (4) The operator shall remove all free liquids from a temporary pit within 30 days from the date that the operator releases the drilling or work over rig. The operator shall note the date of the drilling or work over rig's release on form C-105 or C-103 upon well or work over completion. The appropriate division district office may grant an extension of up to three months.
- (5) The operator shall remove any liquids from the temporary pit used for cavitation within 48 hours after completing cavitation. The operator may request and receive additional time to remove the liquids from the temporary pit used for cavitation if the operator demonstrates to the appropriate division district office's satisfaction that it is not feasible to access the location with 48 hours.

#### 19.15.17.13 CLOSURE REQUIREMENTS:

- A. Time requirements for closure. An operator shall close a pit, closed-loop system or below-grade tank within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the division requires because of imminent danger to fresh water, public health or the environment.
- (1) An operator shall cease discharging into an existing unlined permanent pit that is permitted by or registered with the division within two years after June 16, 2008. An operator shall close an existing unlined permanent pit that is permitted by or registered with the division within three years after June 16, 2008.
- (2)—An operator shall cease discharging into an existing, lined or unlined, permanent pitthat is not permitted by or registered with the division on or by June 16, 2008. An operator shall close an existing, lined or unlined, permanent pit that is not permitted by or registered with the division within six months after June 16, 2008.



- (3) An operator shall close an existing unlined temporary pit within three months after June-16, 2008.
- (4) An operator shall close an existing below-grade tank that does not meet the requirements of Paragraphs (1) through (4) of Subsection-I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years after June 16, 2008, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC.
- (5)——An operator shall close any other permitted permanent pit within 60 days of cessation of operation of the permanent pit in accordance with a closure plan that the environmental bureau in the division's Santa Fe office approves.
- (6) An operator shall close any other permitted temporary pit within six months from the date that the operator releases the drilling or work over rig. The appropriate division district office may grant an extension not to exceed three months.
- **B.** Closure methods for temporary pits. The operator of a temporary pit shall remove all liquids from the temporary pit prior to closure and dispose of the liquids in a division-approved facility or recycle, reuse or reclaim the liquids in a manner that the appropriate division district office approves. The operator shall close the temporary pit by one of the following methods.

#### (1) Waste excavation and removal.

- (2) On-site burial. The operator shall demonstrate and comply with the siting requirements in Subsection C of 19.15.17.10 NMAC and the closure requirements and standards of Subsection F of 19.15.17.13 NMAC if the proposed closure method of a temporary pit involves on-site burial.
- F. On-site closure methods. The following closure requirements and standards apply if the operator proposes a closure method for a drying pad associated with a closed-loop system or a temporary pit pursuant to Paragraph (2) of Subsection D of 19.15.17.13 NMAC or Paragraph (2) of Subsection B of 19.15.17.13 NMAC that involves on-site burial, or an alternative closure method pursuant to Paragraph (3) of Subsection D of 19.15.17.13 NMAC or Paragraph (3) of Subsection B of 19.15.17.13 NMAC and Subsection B of 19.15.17.15 NMAC.
  - (1) General requirements.
- (a) Any proposed on-site closure method shall comply with the siting criteria specified in Subsection C of 19.15.17.10 NMAC.
- (b) The operator shall provide the surface owner notice of the operator's proposal of an on-site closure method. The operator shall attach the proof of notice to the permit



application.

- (c) The operator shall comply with the closure requirements and standards of Paragraphs (2) and (3), as applicable, of Subsection F of 19.15.17.13 NMAC if the proposed closure method for a drying pad associated with a closed-loop system or for a temporary pit involves on-site burial pursuant to Paragraph (2) of Subsection D of 19.15.17.13 NMAC or Paragraph (2) of Subsection B of 19.15.17.13 NMAC, or involves an alternative closure method pursuant to Paragraph (3) of Subsection D of 19.15.17.13 NMAC or Paragraph (3) of Subsection B of 19.15.17.15 NMAC.
- (d) The operator shall place a steel marker at the center of an on-site burial. The steel marker shall be not less than four inches in diameter and shall be cemented in a three-foot deep hole at a minimum. The steel marker shall extend at least four feet above mean ground level and at least three feet below ground level. The operator name, lease name and well number and location, including unit letter, section, township and range, and that the marker designates an on-site burial location shall be welded, stamped or otherwise permanently engraved into the metal of the steel marker. A person shall not build permanent structures over an on-site burial without the appropriate division district office's written approval. A person shall not remove an on-site burial marker without the division's written permission.

If the well goes into production, then an alternate interim marking system will be used to allow for safer and more efficient operations. A minimum 4" O. D. steel pipe will be set at least 36" deep at the center of the pit. A threaded collar will be on the top of the pipe. A minimum 12" x 12" steel plate will welded atop the threaded collar. Top of the plate will be flush with ground level. The same information listed in the preceding paragraph will be welded onto the plate, plus a notation that it marks an on site buried temporary pit. Upon plugging the well, the plate will be removed and the pit marked as described in the preceding paragraph.

- (e) The operator shall report the exact location of the on-site burial on form C-105 filed with the division.
- (f) The operator shall file a deed notice identifying the exact location of the on-site burial with the county clerk in the county where the on-site burial occurs.
  - (2) In-place burial.
    - (a) Where the operator meets the siting criteria specified in Paragraphs



- (2) or (3) of Subsection C of 19.15.17.10 NMAC and the applicable waste criteria specified in Subparagraphs (c) or (d) of Paragraph (2) of Subsection F of 19.15.17.13 NMAC, an operator may use in-place burial (burial in the existing temporary pit) for closure of a temporary pit or bury the contents of a drying pad associated with a closed-loop system in a temporary pit that the operator constructs in accordance with Paragraphs (1) through (6) and (10) of Subsection F of 19.15.17.11 NMAC for closure of a drying pad associated with a closed loop system.
- (b) Prior to closing an existing temporary pit or to placing the contents from a drying pad associated with a closed-loop system into a temporary pit that the operator constructs for disposal, the operator shall stabilize or solidify the contents to a bearing capacity sufficient to support the temporary pit's final cover. The operator shall not mix the contents with soil or other material at a mixing ratio of greater than 3:1, soil or other material to contents.
- Where ground water will be between 50 and 100 feet below the (c) bottom of the buried waste, the operator shall collect at a minimum, a five point, composite sample of the contents of the drying pad associated with a closed-loop system or the contents of a temporary pit after treatment or stabilization, if treatment or stabilization is required, to demonstrate that benzene, as determined by EPA SW-846 method 8021 B or 8260B, does not exceed 0.2 mg/kg; total BTEX, as determined by EPA SW-846 method 8021 B or 8260B, does not exceed 50 mg/kg; TPH, as determined by EPA SW-846 method 418.1 or other EPA method approved that the division approves, does not exceed 2500 mg/kg; the GRO and DRO combined fraction, as determined by EPA SW-846 method 8015M, does not exceed 500 mg/kg; and chlorides, as determined by EPA method 300.1, do not exceed 500 mg/kg or the background concentration, whichever is greater. The operator may collect the composite sample prior to treatment or stabilization to demonstrate that the contents do not exceed these concentrations. However, if the contents collected prior to treatment or stabilization exceed the specified concentrations the operator shall collect a second five point, composite sample of the contents after treatment or stabilization to demonstrate that the contents do not exceed these concentrations.
- (d) Where the ground water will be more than 100 feet below the bottom of the buried waste, the operator shall collect at a minimum, a five point, composite sample of the contents of the drying pad associated with a closed-loop system or the contents of a temporary pit after treatment or stabilization, if treatment or stabilization is required, to demonstrate that



benzene, as determined by EPA SW-846 method 8021B or 8260B, does not exceed 0.2 mg/kg; total BTEX, as determined by EPA SW-846 method 8021B or 8260B, does not exceed 50 mg/kg; the GRO and DRO combined fraction, as determined by EPA SW-846 method 8015M, does not exceed 500 mg/kg; TPH, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 2500 mg/kg; and chlorides, as determined by EPA method 300.1, do not exceed 1000 mg/kg or the background concentration, whichever is greater. The operator may collect the composite sample prior to treatment or stabilization to demonstrate that the contents do not exceed these concentrations. However, if the contents collected prior to treatment or stabilization exceed the specified concentrations the operator shall collect a second five point, composite sample of the contents after treatment or stabilization to demonstrate that the contents do not exceed these concentrations.

- (e) Upon closure of a temporary pit, or closure of a temporary pit that the operator constructs for burial of the contents of a drying pad associated with a closed-loop system, the operator shall cover the geomembrane lined, filled, temporary pit with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and revegetate the site. The division-prescribed soil cover, recontouring and revegetation shall comply with Subsections G, H and I of 19.15.17.13 NMAC.
  - **G.** Reclamation of pit locations, on-site burial locations and drying pad locations.
- (1) Once the operator has closed a pit or trench or is no longer using a drying pad, below-grade tank or an area associated with a closed-loop system, pit, trench or below-grade tank, the operator shall reclaim the pit location, drying pad location, below-grade tank location or trench location and all areas associated with the closed-loop system, pit, trench or below-grade tank including associated access roads to a safe and stable condition that blends with the surrounding undisturbed area. The operator shall substantially restore the impacted surface area to the condition that existed prior to oil and gas operations by placement of the soil cover as provided in Subsection H of 19.15.17.13 NMAC, recontour the location and associated areas to a contour that approximates the original contour and blends with the surrounding topography and revegetate according to Subsection I of 19.15.17.13 NMAC.
- (2) The operator may propose an alternative to the revegetation requirement if the operator demonstrates that the proposed alternative effectively prevents erosion, and protects



fresh water, human health and the environment. The proposed alternative shall be agreed upon by the surface owner. The operator shall submit the proposed alternative, with written documentation that the surface owner agrees to the alternative, to the division for approval.

#### H. Soil cover designs.

- (1) The soil cover for closures where the operator has removed the pit contents or remediated the contaminated soil to the division's satisfaction shall consist of the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.
- (2) The soil cover for burial-in-place or trench burial shall consist of a minimum of four feet of compacted, non-waste containing, earthen material. The soil cover shall include either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.
- (3) The operator shall construct the soil cover to the site's existing grade and prevent ponding of water and erosion of the cover material.

#### I. Re-vegetation.

- (1) The first growing season after the operator closes a pit or trench or is no longer using a drying pad, below-grade tank or an area associated with a closed-loop system, pit or below-grade tank including access roads, the operator shall seed or plant the disturbed areas.
- (2) The operator shall accomplish seeding by drilling on the contour whenever practical or by other division-approved methods. The operator shall obtain vegetative cover that equals 70% of the native perennial vegetative cover (un-impacted by overgrazing, fire or other intrusion damaging to native vegetation) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. During the two growing seasons that prove viability, there shall be no artificial irrigation of the vegetation.
- (3) The operator shall repeat seeding or planting until it successfully achieves the required vegetative cover.
- (4) When conditions are not favorable for the establishment of vegetation, such as periods of drought, the division may allow the operator to delay seeding or planting until soil moisture conditions become favorable or may require the operator to use additional cultural



techniques such as mulching, fertilizing, irrigating, fencing or other practices.

- (5) The operator shall notify the division when it has seeded or planted and when it successfully achieves re-vegetation.
  - J. Closure notice.
- (1) The operator shall notify the surface owner by certified mail, return receipt requested, that the operator plans to close a temporary pit, a permanent pit, a below-grade tank or where the operator has approval for on-site closure. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records is sufficient to demonstrate compliance with this requirement.
- (2) The operator of a temporary pit or below-grade tank or an operator who is approved for on-site closure shall notify the appropriate division district office verbally or by other means at least 72 hours, but not more than one week, prior to any closure operation. The notice shall include the operator's name and the location to be closed by unit letter, section, township and range. If the closure is associated with a particular well, then the notice shall also include the well's name, number and API number.
- K. Closure report. Within 60 days of closure completion, the operator shall submit a closure report on form C-144, with necessary attachments to document all closure activities including sampling results; information required by 19.15.17 NMAC; a plot plan; and details on back-filling, capping and covering, where applicable. In the closure report, the operator shall certify that all information in the report and attachments is correct and that the operator has complied with all applicable closure requirements and conditions specified in the approved closure plan. If the operator used a temporary pit, the operator shall provide a plat of the pit location on form C-105 within 60 days of closing the temporary pit.

The operator shall file a deed notice identifying the exact location of the on-site burial with the county clerk in the county where the on-site burial occurs.



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#### New Mexico Office of the State Engineer POD Reports and Downloads

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POD / SURFACE DATA REPORT 08/25/2008

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#### New Mexico Office of the State Engineer POD Reports and Downloads

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SP   02870 255   IRR   78.42   ELOOMFTELD TRRIGATION DISTRICT   SP   02870 25C   25N   12W 24   3 4   13   225023   4030606	SJ 00079	OIL	0	SHELL OIL COMPANY	SJ 00079	Shallow	25N	12W 13	4				13	225677	4032403		03/27/1957	2550	
SP         02870         25E         LR         5.4         ANN OSBURN         SP         02870         25C         25N         12W         24         3         4         13         225023         403606           SP         02870         25B         IRR         0         MAX         D. KENNEMER TRUST         SP         02870         25C         25N         12W         24         3         4         13         225023         403606           SP         02870         25B         IRR         0         MAX         D. KENNEMER TRUST         SP         02870         25C         25N         12W         24         3         4         13         225023         403606         6           SP         02870         25C         25N         12W         24         3         4         13         225023         403606         6           SP         02870         25C         25N         12W         24         3         4         13         225023         403606           SP         02870         25C         25N         12W         24         3         4         13         225023         403606           SP         02870<			15	U.S. DEPT. OF INTERIOR	SJ 01716	Shallow	25N	12W 01	3 2				13	225189	4035835	06/20/1963	02/05/1964	403	210
SP   Q2870   25B   IRR   0   D.J. ELKINS   SP   Q2870   25C   25N   12W   24   3   4   13   225023   4030606	SP 02870 25	IRR	78.42	BLOOMFIELD IRRIGATION DISTRICT	SP 02870 25C		25N	12W 24	3 4				13	225023	4030606				
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SP   02870   25C   IRR   8.76   MAX D. KENNEMER TRUST   SP   02870   25C   25N   12W   24   3 4   13   225023   4030606	SP 02870 25BA	IRR	0	MAX D. KENNEMER TRUST	SP 02870_25C		25N	12W 24	3 4				13	225023	4030606				
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SP         02870         25D         IRR         3         CECIL C. & GLADYS CAST TRUST         SP         02870         25C         25N         12W         24         3         4         13         225023         403666           SP         02870         25F         IRR         10.5         ROBIN C. PRICE         SP         02870         25C         25N         12W         24         3         4         13         225023         403666           SP         02870         25F         IRR         10.5         ROBIN C. PRICE         SP         02870         25C         25N         12W         24         3         4         13         225023         4036606           SP         02870         25F         12W         24         3         4         13         225023         4036606           SP         02870         25C         25N         12W         24         3         4         13         225023         4036606           SP         02870         25C         25N         12W         24         3         4         13         225023         4036606           SP         02870         25C         25N         12W	SP 02870 25C	IRR	8.76	MAX D. KENNEMER TRUST	SP 02870 25C		25N	12W 24	3 4				13	225023	4030606				
SP         02870         25E         IRR         6         DOUGLAS JAMES BURGER         SP         02870         25C         25N         12W         24         3         4         13         225023         4030606           SP         02870         25F         IRR         10.5         ROBIN C. PRICE         SP         02870         25C         25N         12W         24         3         4         13         225023         4030606           SP         02870         25F         IRR         0.1         LILLIE MAE JOHNSON         SP         02870         25C         25N         12W         24         3         4         13         225023         4030606           SP         02870         25I         IRR         0         HENRY JOHN NOWAKOWSKI         SP         02870         25C         25N         12W         24         3         4         13         225023         4030606           SP         02870         25C         25N         12W         24         3         4         13         225023         4030606           SP         02870         25C         25N         12W         24         3         4         13         225023	SP 02870 25D	IRR	3	CECIL C. & GLADYS CAST TRUST	SP 02870 25C								13		4030606				
SP         02870         25F         IRR         10.5         ROBIN C. PRICE         SP         02870         25C         25N         12W         24         3         4         13         225023         403666           SP         02870         25F         IRR         41.1         LILLIE MAE JOHNSON         SP         02870         25C         25N         12W         24         3         4         13         225023         403666           SP         02870         25I         IRR         0         HENRY JOHN NOWAKOWSKI         SP         02870         25C         25N         12W         24         3         4         13         225023         403666           SP         02870         25I         IRR         4.65         MARTIN SALAZAR         SP         02870         25C         25N         12W         24         3         4         13         225023         403666           SP         02870         25C         25N         12W         24         3         4         13         225023         403666           SP         02870         25C         25N         12W         24         3         4         13         225023	SP 02870 25E	IRR	6	DOUGLAS JAMES BURGER	SP 02870 25C								13	225023	4030606				
SP         02870         25G         IRR         41.1         LILLIE MAE         JOHNSON         SP         02870         25C         25N         12W         24         3         4         13         225023         4030606           SP         02870         25L         IRR         4.65         MARTIN SALAZAR         SP         02870         25C         25N         12W         24         3         4         13         225023         4030606           SP         02870         25L         IRR         4.65         MARTIN SALAZAR         SP         02870         25C         25N         12W         24         3         4         13         225023         4030606           SP         02870         25L         IRR         1.8         JUSTIN L. KIDDOO         SP         02870         25C         25N         12W         24         3         4         13         225023         4030606           SP         02870         25C         25N         12W         24         3         4         13         225023         4030606           SP         02870         25C         25N         12W         24         3         4         13         2	SP 02870 25F	IRR	10.5	ROBIN C. PRICE	SP 02870 25C		25N							225023	4030606				
SP         02870         25H         IRR         0         HENRY JOHN NOWAKOWSKI         SP         02870         25C         25N         12W         24         3         4         13         225023         4030606           SP         02870         25L         IRR         4.65         MARTIN SALAZAR         SP         02870         25C         25N         12W         24         3         4         13         225023         4030606           SP         02870         25L         12W         24         3         4         13         225023         4030606           SP         02870         25C         25N         12W         24         3         4         13         225023         4030606           SP         02870         25C         25N         12W         24         3         4         13         225023         4030606           SP         02870         25C         25N         12W         24         3         4         13         225023         4030606           SP         02870         25C         25N         12W         24         3         4         13         225023         4030606 <t< td=""><td>SP 02870 25G</td><td>IRR</td><td>41.1</td><td>LILLIE MAE JOHNSON</td><td>SP 02870 25C</td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td>13</td><td>225023</td><td></td><td></td><td></td><td></td><td></td></t<>	SP 02870 25G	IRR	41.1	LILLIE MAE JOHNSON	SP 02870 25C	_							13	225023					
SP 02870 251         IRR         4.65         MARTIN SALAZAR         SP 02870 25C         25N 12W 24 3 4         13 225023         4030606           SP 02870 25L         IRR         1.8         JUSTIN L. KIDDOO         SP 02870 25C         25N 12W 24 3 4         13 225023         4030606           SP 02870 25M         IRR         1.5         ZARE G. LESLIE, JR.         SP 02870 25C         25N 12W 24 3 4         13 225023         4030606           SP 02870 25N         IRR         0 CAROLYN BETH MCKEE         SP 02870 25C         25N 12W 24 3 4         13 225023         4030606			0	HENRY JOHN NOWAKOWSKI	SP 02870 25C									225023	4030606				
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Record Count: 27

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Page 1 of

## New Mexico Office of the State Engineer POD Reports and Downloads

Township 25N Range: 113W Sections:	
NAD27 X· Y: Zone. Zone. Search Radius:	
County: ( Basin. Suffix: Number: Suffix:	
Owner Name (First) (Last) Owner-Domestic Omnestic Omnestic All	
(POD / Surface Data Report) (Avg Depth to Water Report) (Water Column Report)	
(Clear Form) (WATERS Menu) (Help)	

POD / SURFACE DATA REPORT 08/04/2008

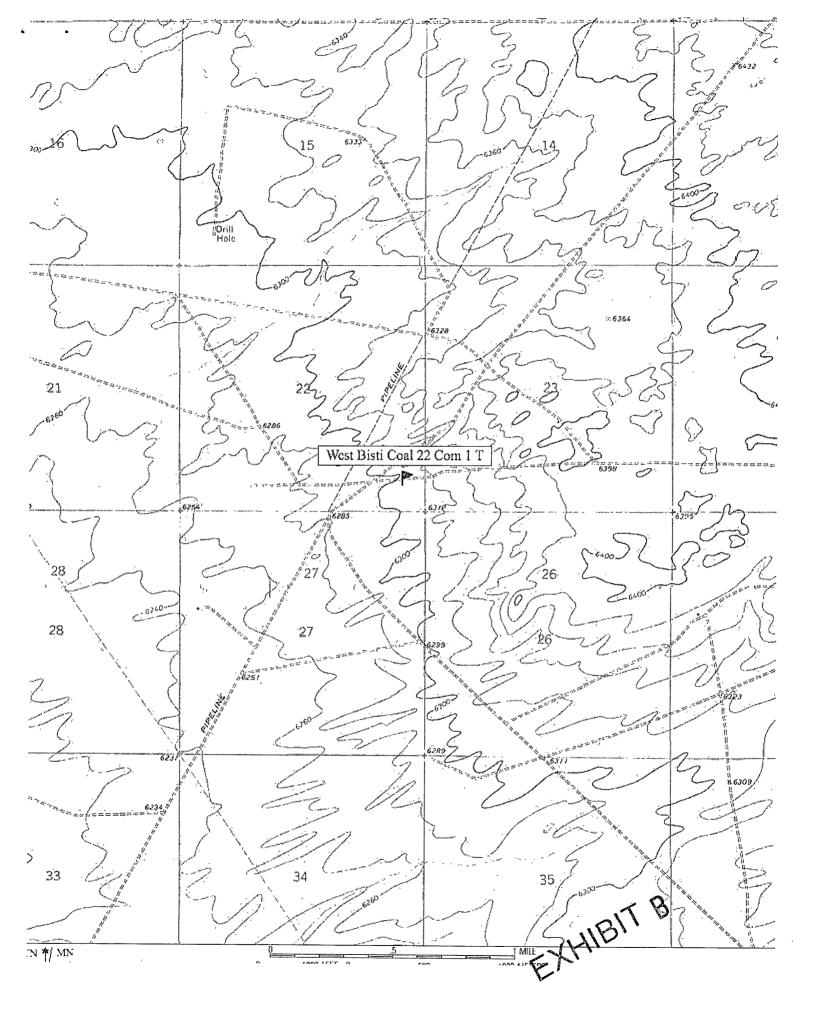
	POD / BURFACE DATA REPORT	00/04/2008															
			(quarters are	t=NW	2=NE 3=	SW 4=SE)	)										
(acre	ft per annum)		(quarters are	bigg	est to s	mallest	ХY	are in	Feet		UTM are	in Meters	)	Start	Finish		Depth (in feet)
DB File Nbr Use	Diversion Owner	POD Number	Source	Tws	Rng Sec	e q q q	Zone	X		Y	UTM_Zone	Easting	Northing	Date	Date	Well W	
RG 20770 DOM	3 ELMER W. SHUPE	RG 20770	Shallow	25N	13W 20						13	209136	4031751	04/17/1972	04/20/1972	85	60
RG 22050 DOM	3 ERNEST GONZALES	RG 22050	Shallow	25N	13W 18						13	207390	4033423	11/08/1972	11/11/1972	30	20
RG 22330 SAN	0 LOCH MARKETING CO.	RG 22330		25N	13W 19						13	207332	4031812				
RG 23347 DOM	3 FILBERT E. & ESTHER F VIGIL	RG 23347	Shallow	25N	13W 19						13	207332	4031812	08/14/1973	08/21/1973	63	52
RG 31138 DOM	3 STEVE & BETTY TRUJILLO	RG 31138	Shallow	25N	13W 18						13	207390	4033423	10/30/1978	11/02/1978	60	20
RG 31290 DOM	3 FREDERICK T. KACKLEY	RG 31290	Shallow	25N	13W 18						13	207390	4033423	09/20/1978	09/22/1978	62	
RG 33272 DOM	0 MRS. FRANK ESQUIBEL	RG 33272		25N	13W 18	3					13	206988	4033021				
RG 33425 DOM	3 RAYMOND PIPER	RG 33425	Shallow	25N	13W 20						13	209136	4031751	10/27/1979	10/30/1979	100	30
RG 33564 DOM	3 JUAN M. FERNANDEZ	RG 33564	Shallow	25N	137/20						13	209136	4031751	03/08/1980	03/13/1980	100	40
RG 33723 DOM	3 FRANCELLA DEVIS	RG 33723	Shallow	25N	13W 05	1					13	208921	4036984	05/28/1980	06/06/1980		10
RG 33951 DOM	0 SIMON G. GONZALES	RG 33951		25N	13W 05						13	209297	4036582				
RG 34464 DOM	0 FELIPE DURAN	RG 34464			13W 21						13	210745	4031698				
RG 34752 DOM	0 ALMAN H. VIETHS	RG 34752		25N	13W 20	3					13	208734	4031349				
RG 34799 DOM	3 EDD WETSEL	RG 34799	Shallow	25N	13W 05	4					13	209699	4036153		07/30/1981	95	6
RG 35839 DOM	3 MYRON E. PRICE	RG 35839	Shallow	25N	13W 19	4					13	207930	4031376		08/25/1981	95	60
RG 36707 DOM	3 MARK HIRSCH	RG 36707	Shallow		13W 21						13	210343	4031296			120	80
RG 38021 DOM	3 ANTONIO B. RAEL	RG 38021	Shallow	25N	13W 17	4					13	209592	4032933	06/04/1982	06/05/1982	63	15
RG 38145 DOM	0 JANET TRUJILLO	RG 38145		25N	13W 08	2					13	209672	4035348				
RG 38411 DOM	0 DOCETIO CASADOS	RG 38411		25N	13W 12						13	215678	4034757				
RG 39398 DOM	0 RICHARD C. TRUJILLO	RG 39398			13W 21						13	210745	4031698				
RG 40963 EXPL OBS	3 TOWN OF TAOS	RG 40963 ECPI	Shallow	25N	13W 08	1 1					13	208680	4035576	03/02/1984	03/10/1984	250	11
RG 65826 CLW DOM	0 E. ANISETO ANGLADA	RG 65826 CLW	<u> </u>	25N	13W 22		С	702200	196240	0.0	13	449459	4027512				

Record Count: 22

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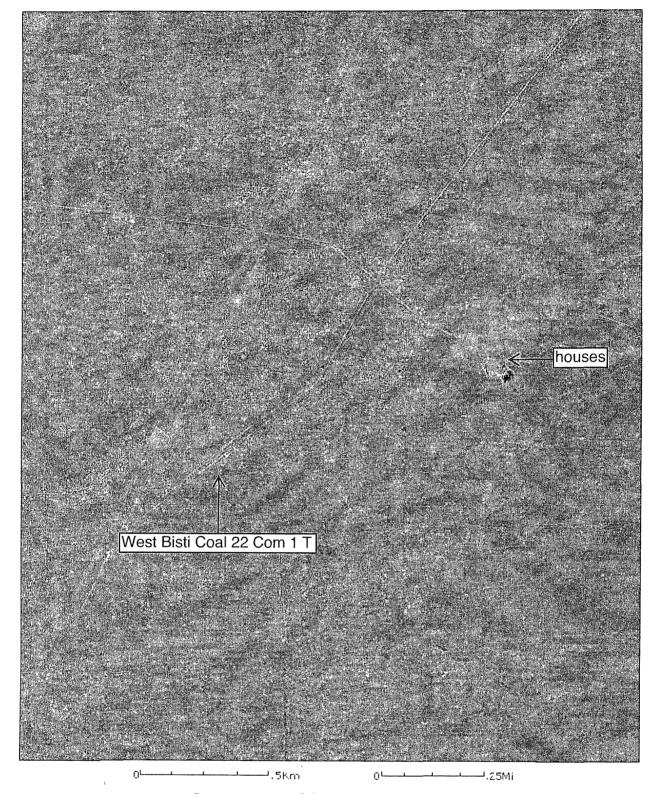
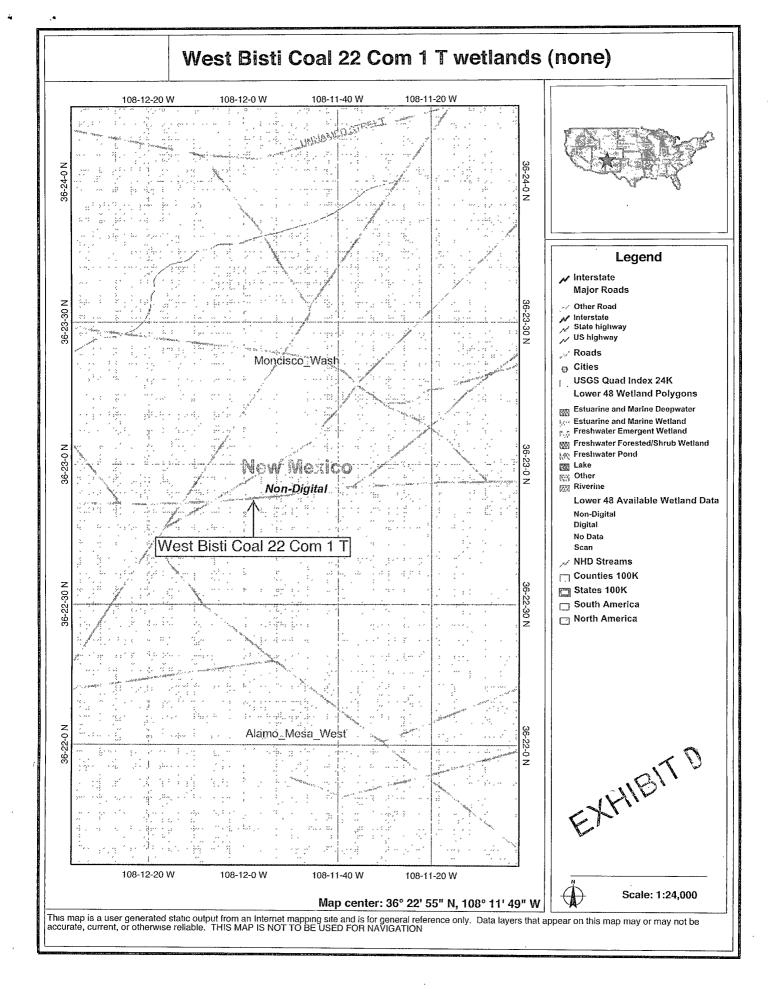


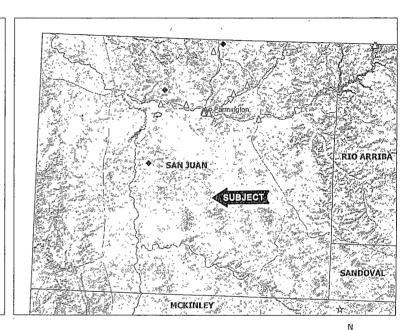
Image courtesy of the U.S. Geological Survey
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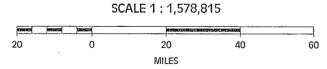
EXHIBITO



# MMQonline Public Version

Mines, Mills	& Quarries Commodity Groups						
Δ	Aggregate & Stone Mines						
•	Coal Mines						
☆	Industrial Minerals Mines						
₩	Industrial Minerals Mills						
Z	Metal Mines and Mill Concentrate						
	Potash Mines & Refineries						
est.	Smelters & Refinery Ops.						
**	Uranium Mines						
•	Uranium Mills						
Population							
<b>◎</b>	Cities - major						
Transportation							
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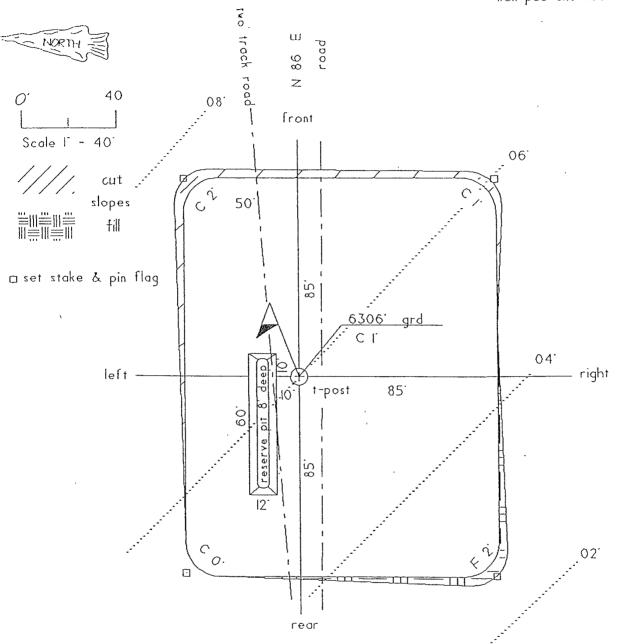






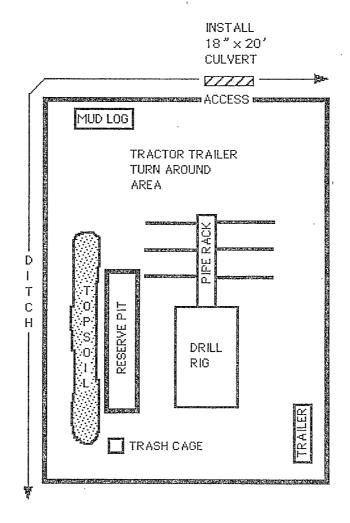
EXHIBITE

well pad and section



section

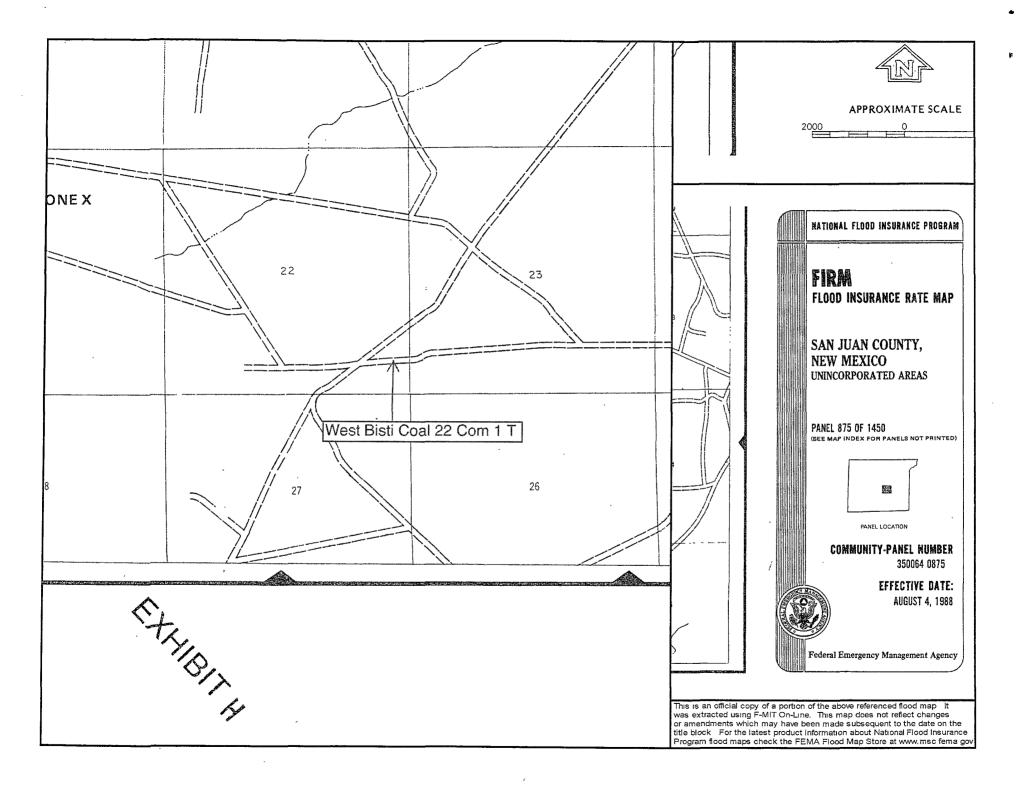
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### State of New Mexico Energy Minerals & Mining Resources Department OL CONSERVĂTION DIVISION 2040 South Pacheco

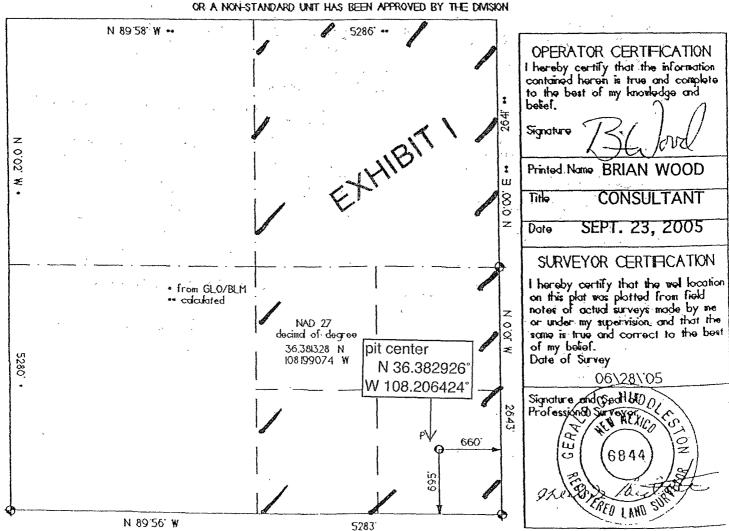
Santa Fe. NM 87505

MENDED REPORT

		*	WEL	L LOCATI	A DIVA NO	CREAGE D	EDICATION	PLAT	
APA Number			7	Pool Code 1629					
Property Cod				Well Number					
•	^ ,	. ' ' ' ' ' ' ' ' ' ' ' ' ' '	- IT						
OCRED No.			Bevalion						
149052			· ELM	RIDGE EX	6306				
		` ,				e Location			·
U or Los S	0C.	. Twp.	Rge.	Lot kin	Feet Irom>	North/South	Foot from>	East/West	County
Po	2	25 M	17 W		605	עדוועט	660.	EAST	CAN HAN

, ,	[	_ איַ כבי.	· L'in M.	Bott	O93 on Hole Locatio	n & Different	From Surface	EVOI	JAN JOAN
UL or Lot	\$ <b>9</b> C.	T*p.	Rge	Lot lon.	Feet from>	North/South	Feet from>	Ecat/West	County
Dedication 320	Jo	ant?	C Consolida	ution	,		Ord	or No.	

NO ALLOWABLE WILL ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED



Elm Ridge Exploration Company, LLC West Bisti Coal 22 Com 1 T 695' FSL & 660' FEL Sec. 22, T. 25 N., R. 13 W. San Juan County, New Mexico THE
NAVAJO
NATION
P.O. BOX 9000 • WINDOW ROCK, ARIZONA • 86515

JOE SHIRLEY, JR.
FRANK J. DAYISH, JR.

SEP 1 3 2006

All trash will be placed in a portable trash cage. It will be hauled to an approved landfill. There will be no burial or burning. Human waste will be disposed of in chemical toilets.

#### 8. ANCILLARY FACILITIES

There will be no air strips or camps. Camper trailers may be on location for the company man, tool pusher, and mud logger.

#### 9. WELL SITE LAYOUT

See Pages 13 and 14 for depictions of the well pad, cross section, cut and fill diagram, reserve pit, trash cage, access onto the location, parking, living facilities, and rig orientation.

#### 10. RECLAMATION

Reclamation starts once the reserve pit is dry. It usually takes a year for a reserve pit to fully evaporate, at which point it will be back filled. The pad and filled pit will be contoured to a natural appearance and disturbed areas ripped or harrowed. BLM's "south" (aka, the dry or low mix or mix #2) seed mix (below) will be drilled at a depth and time to be determined by BLM.

4 pounds per acre western wheatgrass 2-1/2 pounds per acre Indian ricegrass 1-1/2 pound per acre blue grama grass 0.1 pound per acre antelope bitter brush 1/4 pound per acre four wing salt bush 1 pound per acre small burnet

If the well is a producer, then the pipeline route, reserve pit and any other areas not needed for work overs will be reclaimed as previously described.



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CHARLES OF

Ms. Elouise Chicharello, Regional Director Bureau of Indian Affairs Navajo Region Post Office Box 1060 Gallup, New Mexico 87305

RE: Application for Permit to Drill for Elm Resources, Inc.

Dear Ms. Chicharello:

On August 24, 2006, the Resources Committee of the Navajo Nation Council approved the Application for Permit to Drill package for Elm Resources, Inc.:

Resolution Number RCAU-111-06, entitled "Approving an Application for Permit to Drill to Elm Resources, Inc., to drill, construct, operate and maintain the "West Bisti Coal 22 Com 1 T" Gas Well and Ancillary Facilities on Federal Lease No. NMNM-087302 on over and across Navaio Nation Trust Lands within the Navajo Indian Irrigation Project, San Juan County, Navajo Nation (New Mexico)"

Approval of this Application for Permit to Drill is given subject to the terms and conditions stipulated in the resolution approved by the Resources Committee and exhibits attached to such resolution.

Your prompt approval of this Application for Permit to Drill is appreciated.

Sincerely.

THE NAVAJO NATION

Yoe Shirley, Jr. President

ENCLOSURES