<u>District I</u> 1625 N French Dr , Hobbs, NM 88240 District II

1301 W Grand Avenue, 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

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 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
Operator: ELM RIDGE EXPLORATION COMPANY, LLC OGRID #: 149052
Address: P. O. BOX 156, BLOOMFIELD, NM 87413
Facility or well name: BISTI GALLUP 18_#6
API Number: <u>30-045-33803</u> OCD Permit Number:
U/L or Qtr/Qtr F Section 18 Township 25 N Range 12 W County SAN JUAN
Center of Proposed Design: Latitude <u>36.402162° N</u> Longitude <u>108.155982° W</u> NAD: □1927 ☑ 1983
Surface Owner:   Federal   State   Private   Tribal Trust or Indian Allotment
2
☑ <u>Pit</u> : Subsection F or G of 19.15.17.11 NMAC
Temporary: Drilling Workover
Permanent Emergency Cavitation P&A
☐ Unlined Liner type: Thickness 20 mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
⊠ String-Reinforced
Liner Seams: Welded Factory Other Volume: 9,939 bbl Dimensions: L 160' x W 40' x D 10'
3. 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 □ PVC □ Other □ 3031-12345655
Lined Unlined Liner type: Thicknessmil LLDPE IIDPE PVC Other
1 to Comp.
Below-grade tank: Subsection I of 19.15.17 11 NMAC   Volume:
☐ 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

Alternative Method:

Submittal of an exception request is required Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

6.  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, hinstitution or church)	nospital,
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	
7.	
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)	
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	
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	
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	office for
consideration of approval. See request for alternate marking on Page 2 of attachment	office for
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	
10. 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 accep	
material are provided below.  Requests regarding changes to certain siting criteria may require administrative approval from the approj office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of aj	
Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dryi	
above-grade tanks associated with a closed-loop system.	Yes No
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	
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).	☐ Yes ☐ No
- Topographic map; Visual inspection (certification) of the proposed site	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes No
(Applies to temporary, emergency, or cavitation pits and below-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.	☐ Yes ☐ No
(Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	∐ NA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock	☐ Yes ☐ No
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 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 ☐ No
- Written confirmation or verification from the municipality; Written approval obtained from the municipality	
Within 500 feet of a wetland.	☐ Yes ☐ No
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	
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.	☐ Yes ☐ No
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	
Within a 100-year floodplain.	☐ 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 19.15.17.12 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:
12. 12. 13. 14. 15. 14. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15
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 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
14. 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 ☐ On-site Trench 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 Instructions: Please indentify the facility or facilities for the disposal of liquids, 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 o  ☐ Yes (If yes, please provide the information below) ☐ No	, , , , , , , , , , , , , , , , , , ,	
Required for impacted areas which will not be used for future service and operation Soil Backfill and Cover Design Specifications based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	te requirements of Subsection H of 19.15.17.13 NMA in I 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 provided below. Requests regarding changes to certain siting criteria may requiconsidered an exception which must be submitted to the Santa Fe Environment demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC	ire administrative approval from the appropriate dist al Bureau office for consideration of approval.  Just	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 - 1WATERS database search; USGS; Da	ta 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, Da	ta 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; Da	ata obtained from nearby wells	Yes □ No     NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other si lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	gnificant watercourse or lakebed, sinkhole, or playa	☐ Yes ⊠ No
Within 300 feet from a permanent residence, school, hospital, institution, or churc - Visual inspection (certification) of the proposed site, Aerial photo; Satelli		☐ Yes ⊠ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that le watering purposes, or within 1000 horizontal feet of any other fresh water well or  NM Office of the State Engineer - iWATERS database; Visual inspection	spring, in existence at the time of initial application.	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh wa adopted 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 US Fish and Wildlife Wetland Identification map; Topographic map; Visu	ual 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-Minim	ng and Mineral Division	☐ Yes ⊠ No
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geolog Society; Topographic map</li> </ul>	gy & Mineral Resources; USGS; NM Geological	☐ Yes ⊠ No
Within a 100-year floodplain FEMA map		☐ Yes ⊠ No
18.  On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the by a check mark in the box, that the documents are attached.  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate of a drying Protocols and Procedures - based upon the appropriate requirements of 19 ⊆ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Waste Material Sampling Plan - based upon the appropriate requirements of Sampling Plan - based upon the appropriate Plan - based upon -	quirements of 19.15.17.10 NMAC, of Subsection F of 19.15.17.13 NMAC See 10 on APA appropriate requirements of 19.15.17.11 NMAC pad) - based upon the appropriate requirements of 19.15.17.13 NMAC quirements of Subsection F of 19.15.17.13 NMAC f Subsection F of 19.15.17.13 NMAC	D Page 9 (Exhibut K) 15.17.11 NMAC
<ul> <li>☑ Disposal Facility Name and Permit Number (for liquids, drilling fluids and</li> <li>☑ Soil Cover Design - based upon the appropriate requirements of Subsection</li> <li>☑ Re-vegetation Plan - based upon the appropriate requirements of Subsection</li> <li>☑ Site Reclamation Plan - based upon the appropriate requirements of Subsection</li> </ul>	n H of 19 15.17.13 NMAC n I of 19.15.17.13 NMAC	ot be achieved)

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 Title CONSULTANT
Signature: Date: <u>11-29-08</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)
OCD Representative Signature: Branson Samel Approval Date: 12-11-08
Title: 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:
Closure Method:  Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only)  If different from approved plan, please explain
23.  Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:  Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than
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 areas that <i>will not</i> be used for future service and operations?  Yes (If yes, please demonstrate compliance to the items below)  No
Rejuired for impacted areas which will not be used for future service and operations  Site Reclamation (Photo Documentation)  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique
24.  Closure Report Attachment Checklist: Instructions: Each of the following items 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)
On-site Closure Location: Latitude Longitude NAD. 1927 1983
Operator Closure Certification:  I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.
Name (Print): Title:
Signature: Date:
e-mail address: Telephone:

Elm Ridge Exploration Company, LLC
Bisti Gallup 18 #6 temporary pit proposed closure
2310' FNL & 1640' FWL Sec. 18, T. 25 N., R. 12 W.
San Juan County, New Mexico
API #30-045-33803

# Siting Criteria

1. Ground water is >100' below the pit bottom. This estimate is based on the Carson well which is  $\approx 5$  mile ESE in 13-25n-12w and the windmill which which is  $\approx 5$  miles NE in 1-25n-12w (see Exhibits A). The Carson well produces from the Cliff House and deeper zones. The windmill may produce from the Ojo Alamo.

6,406' Carson well ground elevation
- 1,927' depth to water
4,479' water elevation

6,281' windmill ground elevation

-210' depth to water

6,071' water elevation

6,496' oil well ground elevation
- 10' deep pit
- 6,071' water elevation

\*415' 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 southwest (Exhibit B).
- 3. Pit is not within 300' of any building. Closest building is >1 mile east (Exhibit 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



Elm Ridge Exploration Company, LLC
Bisti Gallup 18 #6 temporary pit proposed closure
2310' FNL & 1640' FWL Sec. 18, T. 25 N., R. 12 W.
San Juan County, New Mexico
API #30-045-33803

during a November 17, 2008 inspection. Maximum grade is ≈1% (Exhibit F).

- 9. Pit is not within a 100 year flood plain (Exhibit G).
- 10. C-102 is attached as Exhibit H.
- 11. Closure notice to surface owner (Navajo Nation) is attached as Exhibit I.

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

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 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).

## Closure Plan

Elm Ridge will close the pit in accordance with OCD Rules 19.15.17.12. & 13. Post closure documents will be submitted within 60 days of pit closure and will include forms C-105 and C-144, cover details, pit diagram, inspection report, sample results, and a copy of deed notice to the county clerk.

All free standing liquids will be removed before back filling the pit and disposed of at an Elm Ridge disposal well (e. g., Carson Unit WDW 242, API 30-045-32447) or at Basin Disposal's evaporation pond (NM-01-005).

The preferred method of closure will be on site in place burial assuming all criteria in 19.15.17.13 (B) are met.



Elm Ridge Exploration Company, LLC Bisti Gallup 18 #6 temporary pit proposed closure 2310' FNL & 1640' FWL Sec. 18, T. 25 N., R. 12 W. San Juan County, New Mexico API #30-045-33803

The surface owner has been notified (attached).

Closure, including contouring and seeding, will be completed within 6 months of rig off.

After approval of this application, Elm Ridge will notify the OCD 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, well name & number, and API number.

All liner above the mud level will be cut and removed after stabilization. Removed liner will be disposed of in a licensed disposal facility.

Elm Ridge will stabilize or solidify the contents to a bearing capacity sufficient to support the temporary pit's final cover. Elm Ridge will not mix the contents with soil or other material at a mixing ratio of greater than 3:1, soil or other material to contents.

A 5 point composite sample will be taken of the pit and all samples tested per Subsection B of 19.15.17.13(B)(1)(b). If the criteria are not met, then all contents will be handled per Subparagraph (a) of Paragraph (1)of Subsection B of 19.15.17.13. (i. e., dig & haul). If dig & haul are required, then disposal facility will be Envirotech (NM01-0011).

<u>Component</u>	Test Method	<u>Limit (mg/Kg)</u>
benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA SW-846 418.1	2,500
GRO/DRO	EPA SW-846 8015M	500
chlorides	EPA 300.1	1,000 or background



Elm Ridge Exploration Company, LLC Bisti Gallup 18 #6 temporary pit proposed closure 2310' FNL & 1640' FWL Sec. 18, T. 25 N., R. 12 W. San Juan County, New Mexico API #30-045-33803

After completing solidification and testing, the pit area will be back filled with compacted, waste free, earth material. At least 4 feet of cover will be achieved. The cover will include 1 foot of suitable material to establish vegetation at the site, or the background thickness of the topsoil, whichever is greater.

Recontouring of the location will match the fit, shape, line, form, and texture of the surrounding area. Reshaping will control drainage and prevent ponds and erosion. Natural drainages will be unimpeded. Water bars and/or silt traps will be placed where needed to prevent erosion on a large scale. Final recontour will have a uniform appearance with smooth surface fitting the natural landscape.

Notice will be sent to the OCD when the reclaimed area is seeded.

Disturbed areas will be seeded the first growing season after the pit is closed. Seed will be drilled on the contour wherever practical or by other OCD approved method. BLM stipulated seed mix will be used. Vegetation cover will equal at least 70% of the native perennial vegetation cover prior to disturbance. Seed mix will include at least 3 native species, including at least 1 grass. Noxious weeds will be excluded. Vegetation cover will be maintained through 2 successive growing seasons. Repeat seeding or planting will be continued until successful vegetation growth occurs.



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

	Township: [25N] Range: 12W Sections: [	
	NAD27 X: Y: Zone: ( Search Radius: )	
	County: [Superior county] Basin: (Superior County Decire) Number: Suffix:	
	Owner Name: (First) (Last) (Domestic ODomestic OAll	
•	(POD / Surface Data Report) (Avg Depth to Water Report) (Water Column Report)	
	(Clear Form) (IWATERS Menu) (Help)	

#### POD / SURFACE DATA REPORT 11/28/2008

		(quarters														
	e ft per annum)	(quarters						are in :	Feet		in Meters		Start	Finish		Depth (in feet)
	Diversion Owner	POD Number Source			Sec q q	q z	Zone	X	Ā	UTM_Zone		Northing	Date	Date	Well	Water
RG 21872 DOM	0 LILA C. ROMERO	RG 21872		1 12W						13	223514	4028055				
RG 37972 DOM	0 PATRICIA E. SOKOLL	RG 37972	251			C	C	689000	1959500	13	445425	4026680				
RG 43582 DOM	3 BERNICE F. CORDOVA	RG 43582 Shalle	w · 251	12W	23					13	223616	4031274	05/01/1985	05/01/1985	50	8
RG 46561 DOM	0 SHIRLEY GORMAN	RG 46561		12W						13	217131	4029874				
RG 47243 DOM	3 JOSEPH & ELAINE LOVATO	RG 47243 Shallo			12 4					13	225728	4034012	05/18/1987		65	18
RG 49046 DOM	3 EDDIE BERG	RG 49046 Shalle		12W						13	222007	4031325	04/22/1988		40	8
RG 61107 DOM	3 GLEN D. WEATHERS	RG 61107 Shalle			27 3 3	C	С	678500	1958950	13	442224	4026554	12/15/1994		130	50
RG 63120 DOM	3 CHRISTINA TRUJILLO	RG 63120 Shalle	w 251	1 12W	31	C	C	689100	1949800	13	445418	4023724	10/03/1995	10/03/1995	60	30
RG 76392 DOM	3 CYNTHIA AGUIRRE	RG 76392 Shalle	w 251	12W	11	c	C	684250	1972400	13	444029	4030629	10/25/2001	10/25/2001	102	19
SJ 00079 OIL	0 SHELL OIL COMPANY	SJ 00079 Shalle			13 4					13	225677	4032403		03/27/1957	2550	
<u>SJ 01716</u> STK	15 U.S. DEPT. OF INTERIOR	<u>SJ 01716</u> Shalle			01 3 2					13	225189	4035835	06/20/1963	02/05/1964	403	210
SP 02870 25 IRR	78.42 BLOOMFIELD IRRIGATION DISTRIC				24 3 4					13	225023	4030606				
SP 02870 25A IRR	5.4 ANN OSBURN	SP 02870 25C			24 3 4					13	225023	4030606				
SP 02870 25B IRR	0 D.J. ELKINS	SP 02870 25C			24 3 4					13	225023	4030606				
SP 02870 25BA IRR	0 MAX D. KENNEMER TRUST	SP 02870 25C	251		24 3 4					13	225023	4030606				
SP 02870 25BB IRR	0 CITY OF FARMINGTON	SP 02870 25C			24 3 4					13	225023	4030606				
SP 02870 25C IRR	8.76 MAX D. KENNEMER TRUST	SP 02870 25C	251		24 3 4					13	225023	4030606				
SP 02870 25D IRR	3 CECIL C. & GLADYS CAST TRUST	SP 02870 25C			24 3 4					13	225023	4030606				
<u>SP 02870 25E</u> IRR	6 DOUGLAS JAMES BURGER	SP 02870 25C	251		24 3 4					13	225023	4030606				
SP 02870 25F IRR	10.5 ROBIN C. PRICE	SP 02870 25C	251		24 3 4					13	225023	4030606				
SP 02870 25G IRR	41.1 LILLIE MAE JOHNSON	SP 02870 25C	251		24 3 4					13	225023	4030606				
SP 02870 25H IRR	0 HENRY JOHN NOWAKOWSKI	SP 02870 25C			24 3 4					13	225023	4030606				
SP 02870 251 IRR	4.65 MARTIN SALAZAR	SP 02870 25C	251		24 3 4					13	225023	4030606				
SP 02870 25L IRR	1.8 JUSTIN L. KIDDOO	SP 02870 25C			24 3 4					13	225023	4030606				
SP 02870 25M IRR	1.5 ZANE G. LESLIE, JR.	SP 02870 25C	251		24 3 4					13	225023	4030606				
SP 02870 25N IRR	0 CAROLYN BETH MCKEE	SP 02870 25C			24 3 4					13	225023	4030606				
SP 02870 250 IRR	0 AURORA LEE CHRISTENSEN	SP 02870 25C	251	1 12W	24 3 4					13	225023	4030606				

Record Count: 27

http://iwaters.ose.state.nm.us:7001/IWATERS/WellAndSurfaceDispatcher

Page 1 of 1



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

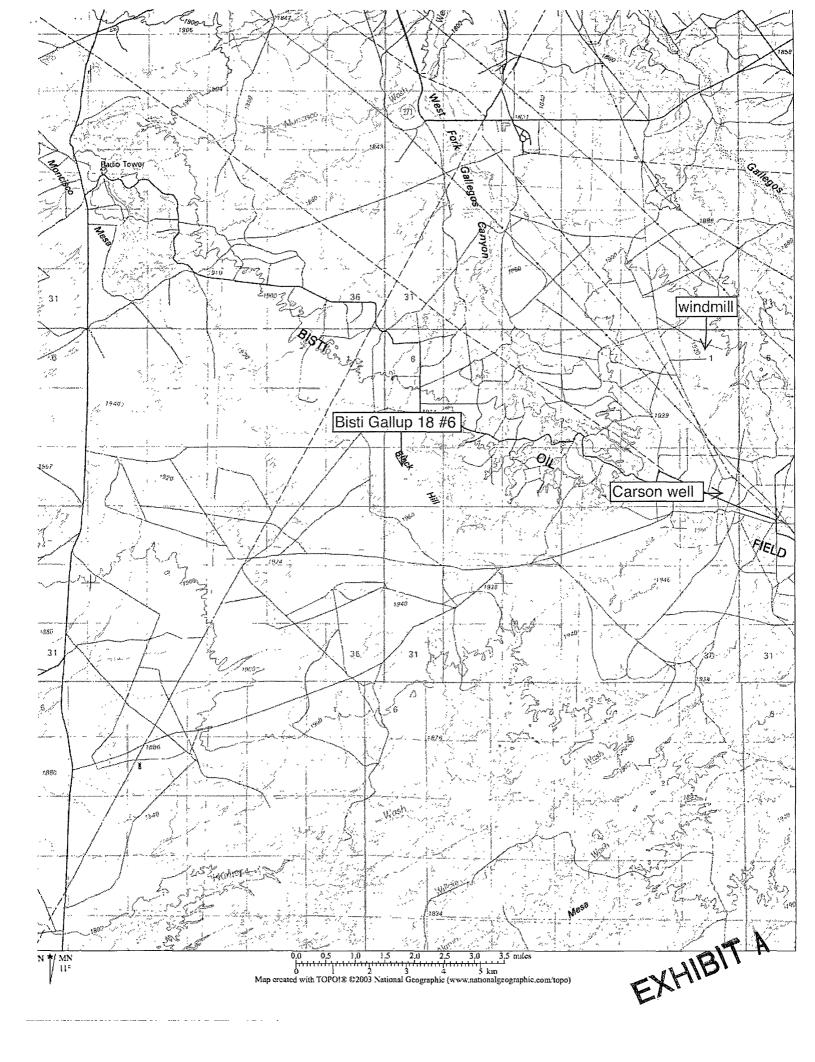
Township: 25N Range: 13W Sections:	
NAD27 X: Y: Zone: Search Radius:	
County: Busin: Suffix: Number: Suffix:	]
Owner Name: (First) (Last) Onon-Domestic ODomestic	All
[POD / Surface Data Report] [Avg Dépth to Water Report] [Water Column Report]	
Clear Form (WATERS Menu) (Help)	

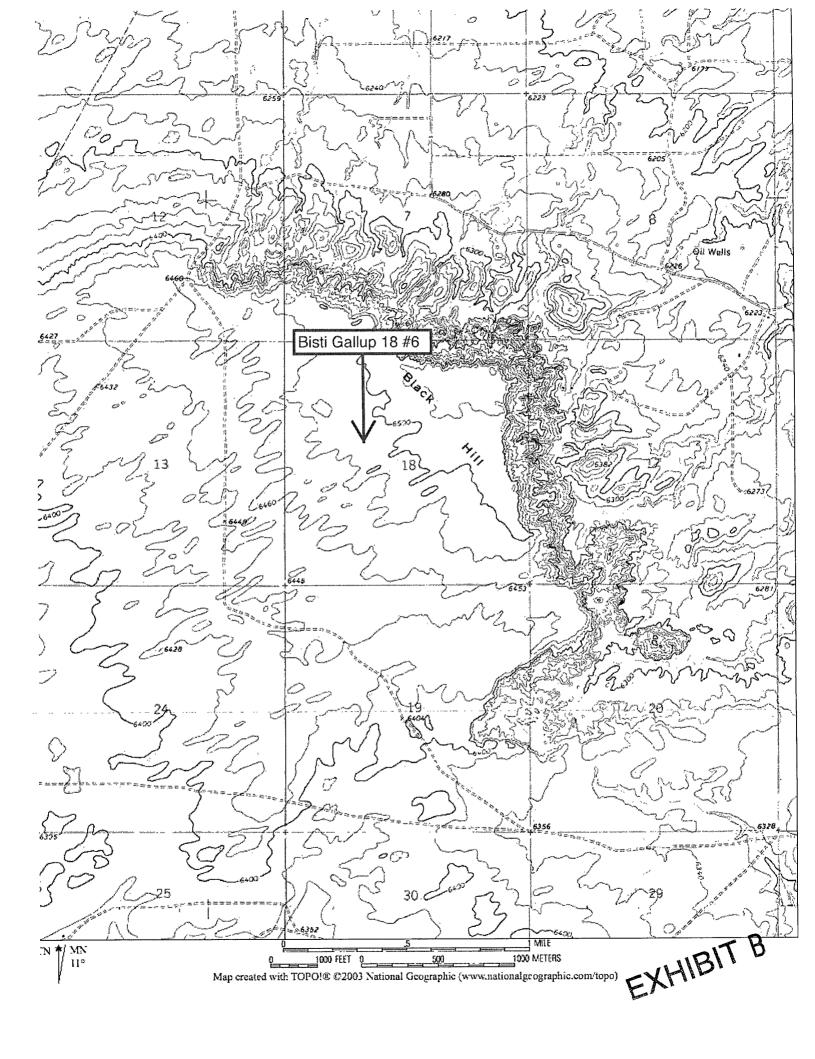
## POD / SURFACE DATA REPORT 11/28/2008

						(quarters are	1=NW	2=NE 3=	SW 4=SE)			
	(acre	ft per ann	um)			(quarters are	bigg	est to s	mallest	X Y	are in 1	Feet
DB File Nbr	Use	Diversion	Owner	POD	Number	Source	Tws	Rng Sec	PPP	Zone	x	Y
RG 20770	DOM	3	ELMER W. SHUPE	RG	20770	Shallow	25N	13W 20				
RG 22050	DOM	3	ERNEST GONZALES	RG	22050	Shallow	25N	13W 18				
RG 22330	SAN	0	LOCH MARKETING CO.	RG	22330		25N	13W 19				
RG 23347	DOM	3	FILBERT E. & ESTHER F VIGIL	RG	23347	Shallow	25N	13W 19				
RG 31138	DOM	3	STEVE & BETTY TRUJILLO	RG	31138	Shallow	25N	13W 18				
RG 31290	DOM	3	FREDERICK T. KACKLEY	RG	31290	Shallow	25N	13W 18				
RG 33272	DOM	0	MRS. FRANK ESQUIBEL	RG	33272		25N	13W 18	3			
RG 33425	DOM	3	RAYMOND PIPER	RG	33425	Shallow	25N	13W 20				
RG 33564	DOM	3	JUAN M. FERNANDEZ	RG	33564	Shallow	25N	13W 20				
RG 33723	DOM	3	FRANCELLA DEVIS	RG	33723	Shallow	25N	13W 05	1			
RG 33951	DOM	0	SIMON G. GONZALES	RG	33951		25N	13W 05				
RG 34464	DOM	0	FELIPE DURAN	RG	34464	<del></del>	25N	13W 21				
RG 34752	DOM	0	ALMAN H. VIETHS	RG	34752		25N		3			
RG 34799	DOM	3	EDD WETSEL	RG	34799	Shallow	25N	13W 05	4			
RG 35839	DOM	3	MYRON E. PRICE	RG	35839	Shallow	25N	13W 19	4			
RG 36707	DOM	3	MARK HIRSCH	RG	36707	Shallow	25N	13W 21	3			
RG 38021	DOM	3	ANTONIO B. RAEL	RG	38021	Shallow	25N	13W 17	4			
RG 38145	DOM	0	JANET TRUJILLO	RG	38145		25N	13W 08	2			
RG 38411	DOM	0	DOCETIO CASADOS	RG	38411		25N	13W 12				
RG 39398	DOM	0	RICHARD C. TRUJILLO	RG	39398		25N	13W 21				
RG 40963 EXPL	OBS	3	TOWN OF TAOS .	RG	40963 ECPL	Shallow	25N	13W 08	1 1			
RG 65826 CLW	DOM	0	E. ANISETO ANGLADA	RG	65826 CLW		25N	13W 22		С	702200	1962400

Record Count: 22

EXHIBITA





Send To Printer Back To TerraServer Change to 11x17 Print Size Show Grid Lines Change to Portrait

Susses 463 km SW of Denver, Colorado, United States 13 Oct 1997

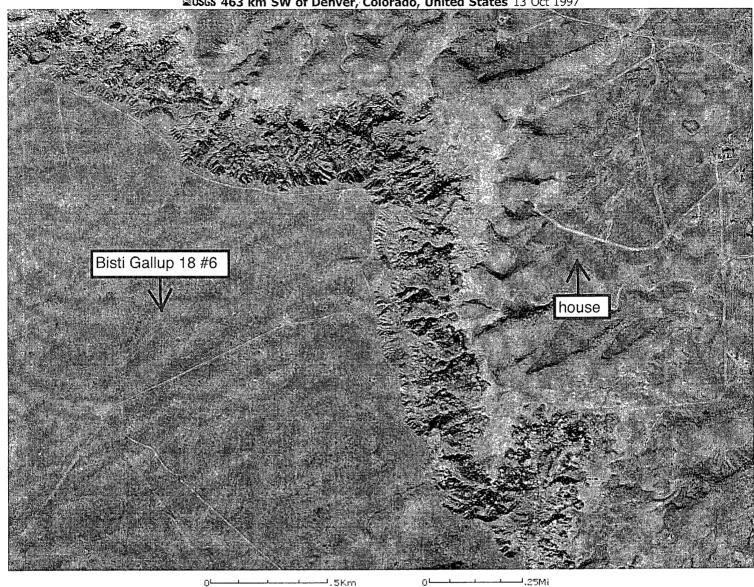
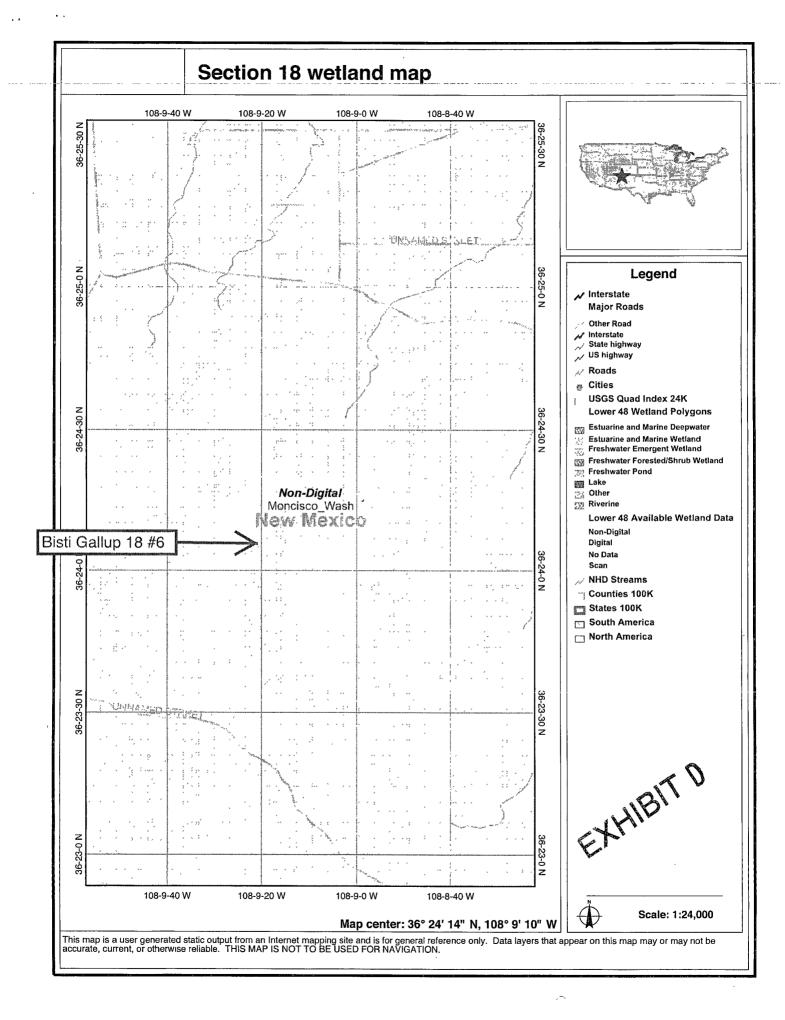
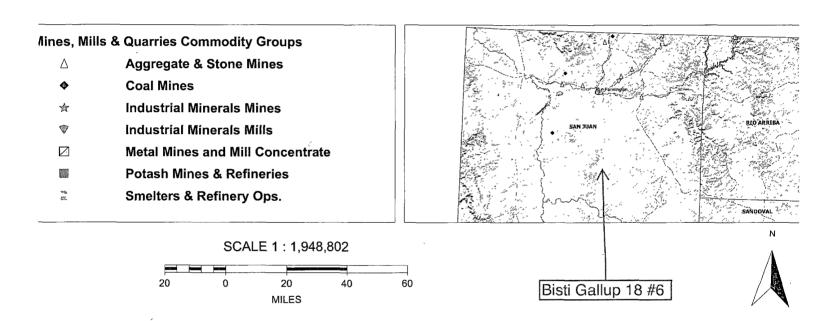


Image courtesy of the U.S. Geological Survey
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EXHIBITO

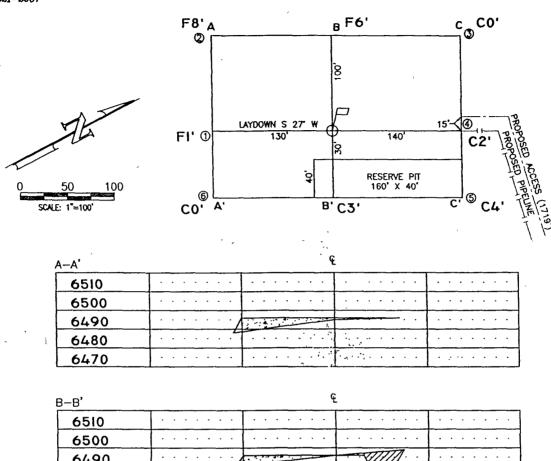


# MMQonline Public Version



EXHIBITE

INOTIFY
NEW MEXICO ONE-CALL
BEFORE COMMENCING
EXCAVATIONI
(800) 321-2537



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6510	
6500	
6490	VIII
6480	
6470	

C-C'	ę
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6500	
6490	
6480	
6470	

CROSS SECTIONS HORIZONTAL: 1"=100' VERTICAL: 1"=10'

LEASE: BISTI GALLUP 18 #6

FOOTAGE: 2310' FNL, 1640' FWL

\_\_\_\_TWN. 25 N RNG. 12 W N.M.P.M. SEC.\_18\_

LATITUDE: 36.402096° LONGITUDE: 108.156008°

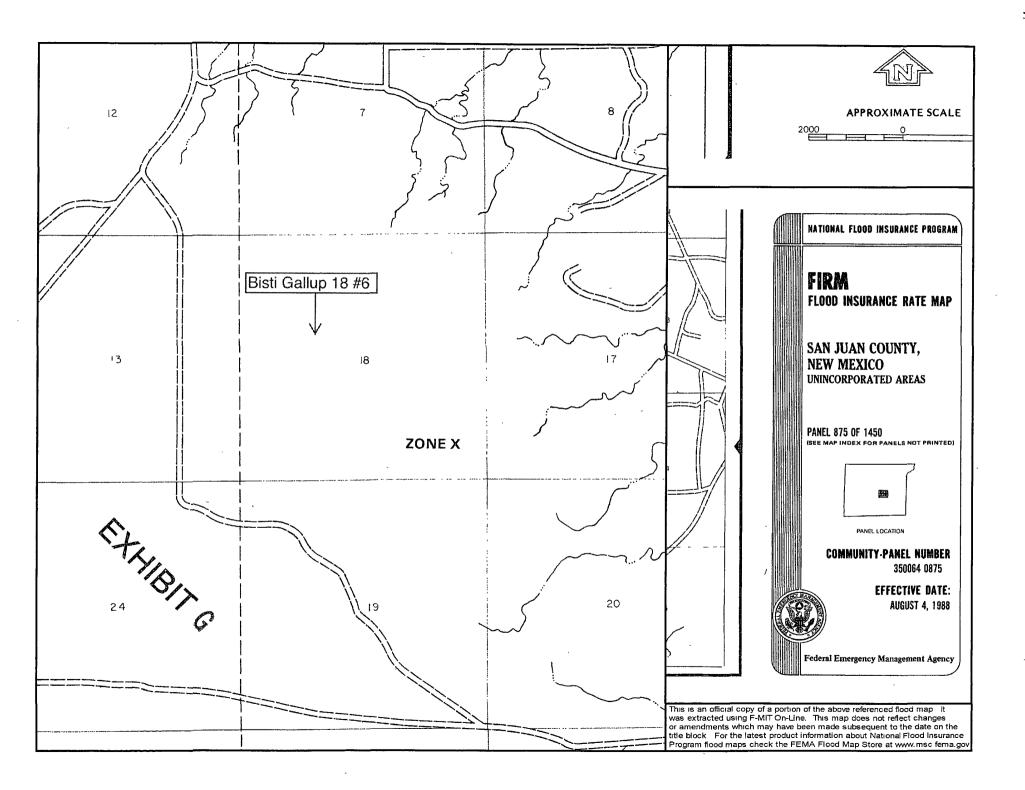
ELEVATION: 6496

# ELM RIDGE EXPLORATION DALLAS, TEXAS

SURVEYED: 3/21/06 REV. DATE: APP. BY R.P. FILE NAME: 6630C01 DRAWN BY: A.D. DATE DRAWN: 3/29/06



P.O. BOX 3651 FARMINGTON, NM 87499 OFFICE: (505) 334-0408



DISTRICT I P.O. Bex 1980, Hobbs, N.M. 88241-1980 State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102-Revised Febuary 21, 1994

DISTRICT II 811 South First, Artesia, N.M. 88210 DISTRICT III

1000 Rio Brazos Rd., Aztec, N.M. 87410

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, NM 87504-2088 Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

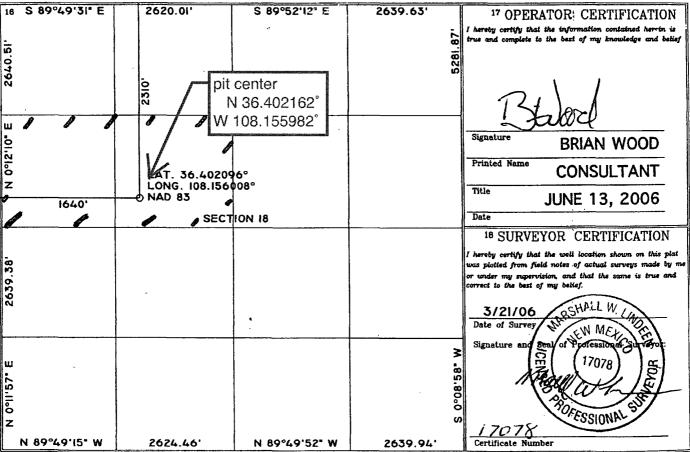
DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87504-2088

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLATON COME API Number \* Pool Code Pool Name 30-045-33<u>803</u> 5890 BISTI LOWER-GALLUP 6 Well Number Property Code <sup>5</sup>Property Name **BISTI GALLUP 18** *6*4343 6 OGRID No. Operator Name Elevation 149052 6496 **ELM RIDGE EXPLORATION** 

<sup>10</sup> Surface Location Feet from the North/South line UL or lot no. Section Township Lot Idn Feet from the East/West line Range County 1640 WEST SAN JUAN F 2310 25 N 12 W NORTH 18 11 Bottom Hole Location If Different From Surface Feet from the East/West line UL or lot no. Section Township Lot Idn Feet from the North/South line County Dedicated Acres 13 Joint or Infill <sup>14</sup> Consolidation Code 15 Order No. 79.48

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



\* PROPOSED LOCATION IS 339' EAST OF WEST LINE OF SE/4 NW/4

EXHIBIT H

From: brian wood <bri>drian@permitswest.com>

Subject: Elm Ridge Bisti Gallup 18 #6

Date: November 29, 2008 3:51:48 PM MST

To: howarddraper@frontiernet.net



As required by NMOCD pit rule Subsection F of 19.15.17.13 NMAC, I am notifying the Navajo Nation as surface owner that Elm Ridge plans to close its temporary (reserve) pit using on site closure (burial) in the same pit. The well is at 2310 FNL & 1640 FWL 18-25n-12w, San Juan County, NM.

The well is at 2310 FNL & 1640 FWL 18-25n-12w, San Juan County, NN The well is on lease NMNM-025446.

API # 30-045-33803

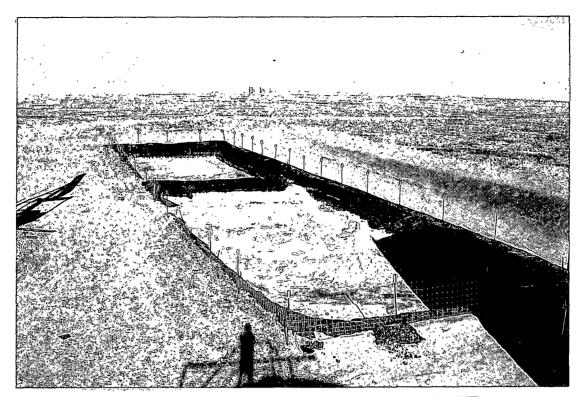
This was authorized by the Navajo Nation under SAS DNR-11394 in January, 2007.

Please call me if you have any questions.

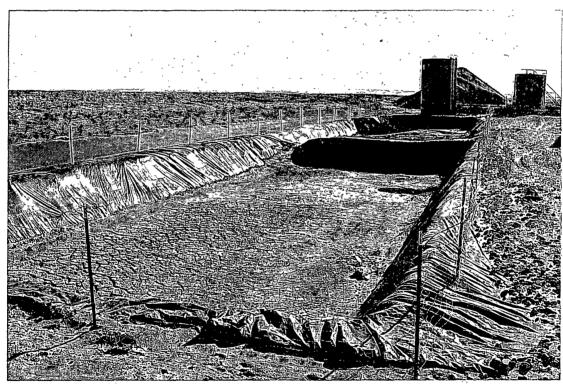
Brian Wood Permits West, Inc. 37 Verano Loop, Santa Fe, NM 87508

Phone: 505 466-8120 FAX: 505 466-9682

EXHIBIT



LOOKING EAST AT BISTI GALLUP 18 #6 PIT



LOOKING WEST AT PIT

