District I , 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.

995	Pit, Closed-Loop System, Below-Grade Tank, or
	Proposed Alternative Method Permit or Closure Plan Application
	True of action. Description and a property of a mit placed loop system, helpsy and a talk on property of the

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: MARCUS B #2
API Number: 30-039-30402 OCD Permit Number:
U/L or Qtr/Qtr G Section 5 Township 23 N Range 6 W County: RIO ARRIBA
Center of Proposed Design: Latitude 36.25590° N Longitude 107.49119° W NAD: □1927 ☑ 1983
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
2. Subsection F or G of 19.15.17.11 NMAC
Temporary: ⊠ Drilling □ Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A
☐ Lined ☐ 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: Thicknessmil LLDPE HDPE PVC Other
Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other Liner Seams: Welded Factory Other 4.
TECEIVEL SAL
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
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
s.
Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

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, hospital, 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									
7.									
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen \(\subseteq \text{ Netting } \subseteq \text{ Other} \)									
Monthly inspections (If netting or screening is not physically feasible)									
Within inspections (it necting of selecting is not physically leasible)									
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									
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 of	office for								
consideration of approval. See request for alternate marking on Page 2 of attachment 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 accept	table source								
material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approp	riate district								
office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of ap Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dryin									
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).	☐ 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	☐ Yes ☐ No								
adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality									
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.	☐ 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 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 and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API Number: or Permit Number:
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: 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 ₂ 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

16. Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13. [Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if no confidence are removed.									
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 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	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 sour provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate disticonsidered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justic 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	☐ 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								
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by 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 API 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 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 Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cann. 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 G of 19.15.17.13 NMAC	O Page 9 (Exhibit K) 15.17:11 NMAC								

19.
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>10-13-08</u>
e-mail address: <u>brian@permitswest.com</u> Telephone: (505) 466-8120
20. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)
OCD Representative Signature: Brunglon Sell Approval Date: 11-5-08
Title: Envirolspec 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 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 will not be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) \(\subseteq \text{No} \)
Respuired 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:

Siting Criteria

1. Ground water is ≥ 100 ' below the bottom of the pit. This estimate is based on the Berry water well (Exhibit A) which is ≈ 2 miles southwest in NW 18-23n-6w. Water well probably produces from the San Jose Formation. Pit is in the San Jose Formation. (The 3 other water wells within a 2 miles radius, closest of which is $\approx 8,000$ ' northeast in Section 33, do not have depth records.)

6,870' graded ground - 10' deep pit 6,860' bottom of pit

≈6,900' Berry water well ground elevation

-200' depth to water

≈6,700' water level elevation

6,860' bottom of pit -6,700' water level ≈160s' 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 Escrito Canyon is over a half mile downstream (Exhibit B).
- 3. Pit is not within 300' of any building. Closest buildings are over 2 miles south along US 550 (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 & C).
- 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 October 8, 2008 inspection. Maximum grade is ≈11% (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 (BLM) 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., Lybrook Yard WDW 1, API 30-039-27533) 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.



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



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.

Re-contouring 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 re-contour 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

102 Hope to the 2011 House
Township: 23N Range: 06W Sections:
NAD27 X: Zone: Zone: Search Radius:
County: [2012-1013] Basin: [1010-1013-1013-1013-1013-1013-1013-1013
Owner Name: (First) (Last) (Non-Domestic (Domestic (All
(POD / Surface Data Report) (Avg Depth to Water Report) (Water Column Report)
(Clear Form) (WATERS Menu) (Help)

POD / SURFACE DATA REPORT 10/11/2008

		(quarters ar	e 1=NW 2=NE 3=SW 4=SE))						
	(acre ft per annum)	(quarters ar	e biggest to smallest	X Y are in Feet	UTM are in Meters)	Start	Finish	Depth Depth (i	in feet)
DB File Nbr	Use Diversion Owner	POD Number Source	Tws Rng Secqqq	Zone X Y	UTM_Zone Easting	Northing	Date	Date	Well Water	
SJ 00681 10	STK 8 HOMER C. BERRY	SJ 00681 10	23N 06W 32 4 4		13 276572	4006450				
SJ 00681 15	STK 8 HOMER C. BERRY	SJ 00681 15	23N 06W 01 3 1 4		13 282031	4014591				
SJ 00681 26	STK 3 HOMER C. BERRY	SJ 00681 26	23N 06W 07 3 4 4	_	13 274329	4012748				
SJ 00681 28	STK 3 HOMER C. BERRY	SJ 00681 28	23N 06W 35 2 2 2		13 281484	4007540				
SJ 00681 8	STK 24.195 HOMER C. BERRY	SJ 00681 8	23N 06W 09 4 1 2		13 277886	4013199				
SJ 00681 9	STK 8 HOMER C. BERRY	SJ 00681 9	23N 06W 29 2 1 4		13 276316	4009119				
SJ 01156	IRR 93 H.C. BERRY	SJ 01156	23N 06W 18 1 2 2		13 274330	4012555	04/10/1980	04/20/1980	1500 200	
SJ 01506	SCH 3 BRETHREN NAVAJO MISSION	SJ 01506 Shallow	23N 06W 22 3 1 1		13 278535	4010015		12/31/1948	280	
SJ 00681 8 SJ 00681 9 SJ 01156	STK 24.195 HOMER C. BERRY STK 8 HOMER C. BERRY IRR 93 H.C. BERRY	SJ 00681 8 SJ 00681 9 SJ 01156	23N 06W 09 4 1 2 23N 06W 29 2 1 4 23N 06W 18 1 2 2		13 277886 13 276316 13 274330	4013199 4009119 4012555	04/10/1980			

Record Count: 8

CHANGE A

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 23	N Range: 06W Sec	ctions:				1			
NAD27 X:	Y:	Zone:	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Searcl	n Radius:	***************************************			
County: [279952977 17974]	Basin:	Anna Seres A free activity	Numb	er: 🌅	Sı	ıffix:	and the second s		
Owner Name: (First)	(Last)			Non-D	omestic	ODome	stic 🕑 A	All	
POD / Surfa	ce Data Report Avg D	epth to Water Ro	eport V	Vater C	olumn Rep	ort			
	Clear Form	iWATERS Menu	Help						
	WATER	COLUMN REP	ORT 10/	11/20	008		A	a naga an ang ang ang ang ang ang ang an	
` -	rs are 1=NW 2=NE 3 rs are biggest to	•			Depth	Depth	Water	(in	feet
POD Number Tws		•	x	Y	Well	Water	Column	•	
SJ 01156 23N	06W 18 1 2 2				1500	200	1300		
SJ 01506 23N	06W 22 3 1 1				280				

Record Count: 2

EXHIBITA

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 24N Range: 05W Sections:
NAD27 X: Y: Zone: Zone: Search Radius:
County: [January 1987] Basin: [January 1987] Number: Suffix:
Owner Name: (First) (Last) (Non-Domestic (Domestic (All
(POD / Surface Data Report) (Avg Depth to Water Report) (Water Column Report)
(Clear Form) (TWATERS Menu) (Help)

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

POD / SURFACE DATA REPORT 10/11/2008

(acre ft per annum)				(quarters are biggest to smallest X Y are in Feet			in Feet		UTM are	in Meters)	Start	Finish	Depth Depth (in feet)	
DB File Nbr Use	Diversion	Owner	POD Number Source	Tws	Rng Se	gqq	Zone	x	¥	UTM_Zone	Easting	Northing	Date	Date	Well Water
SJ 00202 OFM	10	BURLINGTON RESOURCES OIL & GAS	SJ 00202 Shallow	24N	06W 11	43				13	281366	4022394			
SJ 00681 STK	8	HOMER C. BERRY	SJ 00681 36	24N	06W 11	3 4				13	280965	4022398			
SJ 00681 13 STK	4.839	HOMER C. BERRY	SJ 00681 13	24N	06W 11	143				13	280886	4023099			
SJ 00681 14 IRR	80	HOMER C. BERRY	SJ 00681 14	24N	06W 24	4 3				13	282864	4019157			127
SJ 00681 16 STK	24.195	HOMER C. BERRY	SJ 00681 16	24N	06W 07	3 4 4				13	274606	4022441			
SJ 00681 17 STK	8	HOMER C. BERRY	SJ 00681 17	24N	06W 33	4 4 2				13	278397	4016001			
SJ 00681 20 STK	30	HOMER C. BERRY	SJ 00681 20	24N	06W 03	4 2 2				13	280321	4024519			
SJ 00681 21 STK	24.195	HOMER C. BERRY	SJ 00681 21	24N	06W 11	3 4				13	280965	4022398			-
SJ 00681 22 STK	12.9	HOMER C. BERRY	SJ 00681 22	24N	06W 11	443				13	281665	4022290			
SJ 00681 23 STK	16.13	HOMER C. BERRY	SJ 00681 23	24N	06W 13	223				13	283251	4021851			
SJ 00681 25 STK	3	HOMER C. BERRY	SJ 00681 25	24N	06W 13	122				13	282645	4022075			
SJ 00681 29 IRR	300	HOMER C. BERRY	SJ 00681 29			434				13	283065	4022263			
SJ 00681 3 STK	4.839	HOMER C. BERRY	SJ 00681 3		06W 09					13	277280	4023811			
SJ 00681 30 IRR		HOMER C. BERRY	SJ 00681 30			242				13	280338	4024920			
SJ 00681 32 STK		HOMER C. BERRY	SJ 00681 32		06W 11					13	280965	4022398			
SJ 00681 34 STK		HOMER C BERRY	SJ 00681 34		06W 13				-	- 13	282952	4021964			
<u>sj 00681 35</u> IRR		HOMER C. BERRY	SJ 00681 35		06W 02					13	280606	4024007			
SJ 00681 36 STK		HOMER C. BERRY	SJ 00681 36		06W 11					13	280965	4022398			
SJ 00681 4 STK		HOMER C. BERRY	SJ 00681 4			313				13	273955	4021213			
<u>sj 01961</u> OIL	5	MERRION OIL & GAS CORPORATION	SJ 01961 Shallow		06W 03					13	280222	4024420			
			SJ 01961 EXPL	24N	06W 03	4 2				13	280222	4024420			

Record Count: 21

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

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Page 1 of 1

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 24N Range: 07W Sections:	
NAD27 X: Y: Zone: Search Radius:	
County [Basin: Suffix: Suffix: Suffix:	
Owner Name: (First) (Last) (Non-Domestic Odell	
(POD / Surface Data Report) (Avg Depth to Water Report) (Water Column Report)	
(Clear Form) (NYATERS Menu) (Help)	

POD / SURFACE DATA REPORT 10/11/2008

(acre ft per annum)	(p)	arters are bigg	gest to smallest	X Y are in Fe	et	UTM are	in Meters)	Start	Finish	Depth De	pth (in feet)
DB File Nbr Use Diversion Owner	r POD Number	Source Tws	Rng Sec q q q	Zone X	¥	UTM Zone	Easting	Northing	Date	Date	Well Wat	er
SJ 00681 2 STK 4.839 HOMER	R C. BERRY SJ 00681 2	_ 24N	07W 01 3 3 2			13	272654	4024369				
SJ 00681 37 STK 3 HOMER	R C BERRY SJ 00681 37	_ 24N	07W 15 1 1 2			13	269408	4022501			190	
SJ 00681 38 STK 3 HOMER	R C. BERRY <u>SJ 00681 38</u>	_ 24N	07W 17 2 4 1			13	267209	4022130				
SJ 00681 39 STK 86 HOMER	R C. BERRY <u>SJ 00681 39</u>	_ 24N	07W 18 2 2 4			13	265824	4022392			1825	500
<u>SJ 00681 5</u> STK 8 HOMER	R C. BERRY <u>SJ 00681 5</u>	_ 24N	07W 22 3 3			13	269307	4019626				
<u>SJ 00681 6</u> STK 12.9 HOMER	R C. BERRY <u>SJ 00681 6</u>	24N	07W 36 2 2			13	273515	4017257				
· SJ 00681 7 STK 12.9 HOMER	R C. BERRY <u>SJ 00681 7</u>	24N	07W 34 2 3			13	269980	4017085				
. <u>SJ 01131</u> MIN 23 HOMER	R C. BERRY SJ 01131	_ Shallow 24N	07W 19 4 1			13	265313	4020131	04/22/1980	04/30/1980	1700	400
` <u>SJ 01335</u> DOM 3 MARY	Y. LARGO <u>SJ 01335</u>	_ 24N	07W 31 1			13	264672	4017581	02/14/1981	02/20/1981	185	

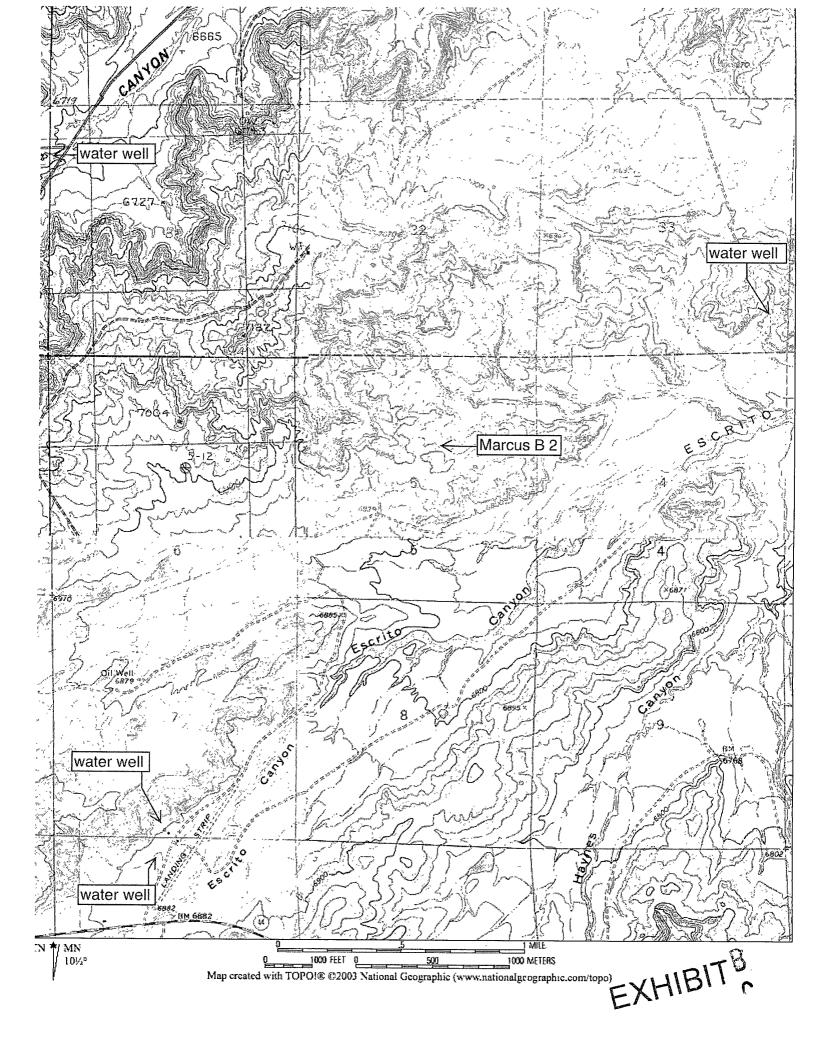
(quarters are 1=NW 2=NE 3=SW 4=SE)

Record Count: 9

CHELLEN

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

Page 1 of 1



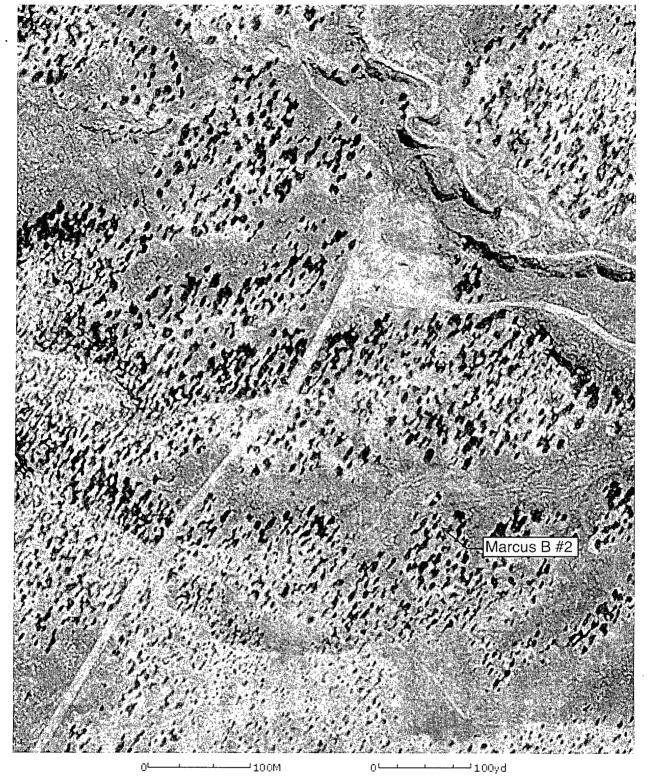
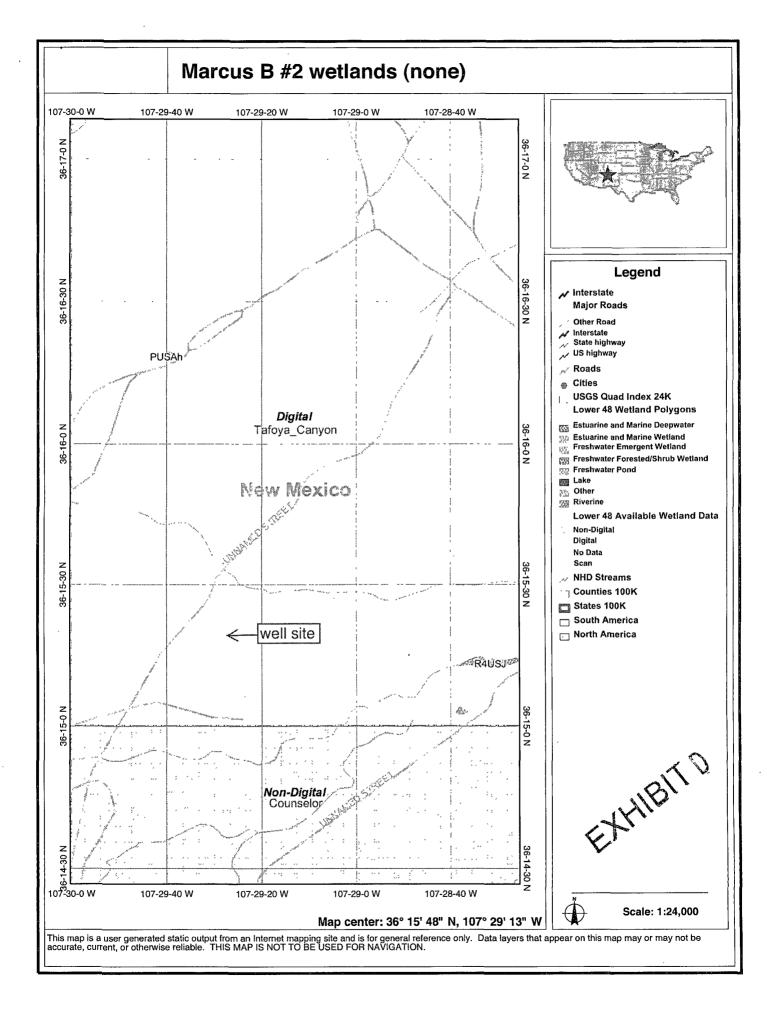
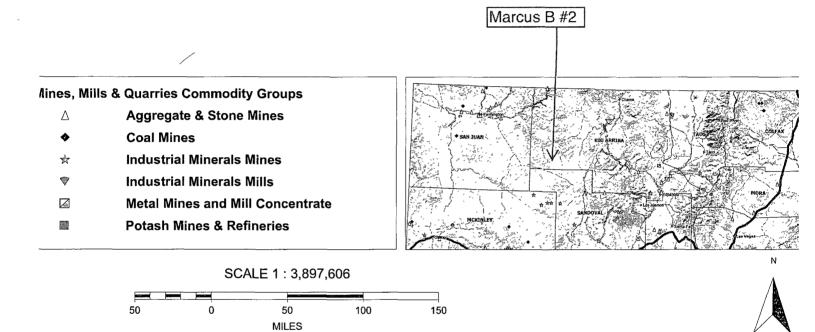


Image courtesy of the U.S. Geological Survey
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EXHIBITO



MMQonline Public Version

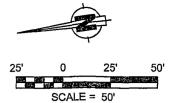


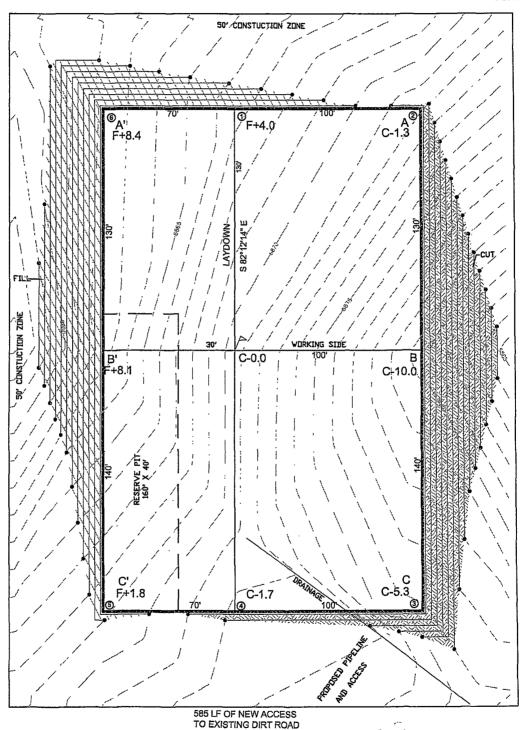
EXHIBITE

LATITUDE: 36.25587°N LONGITUDE: 107.49109°W DATUM: NAD 83

ELM RIDGE EXPLORATION, LLC

MARCUS B #2
1735' FNL & 2175' FEL
LOCATED IN THE SW/4 NE/4 OF SECTION 5,
T23N, R6W, N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO
GROUND ELEVATION: 6871', NAVD 88
FINISHED PAD ELEVATION: 6870.6', NAVD 88



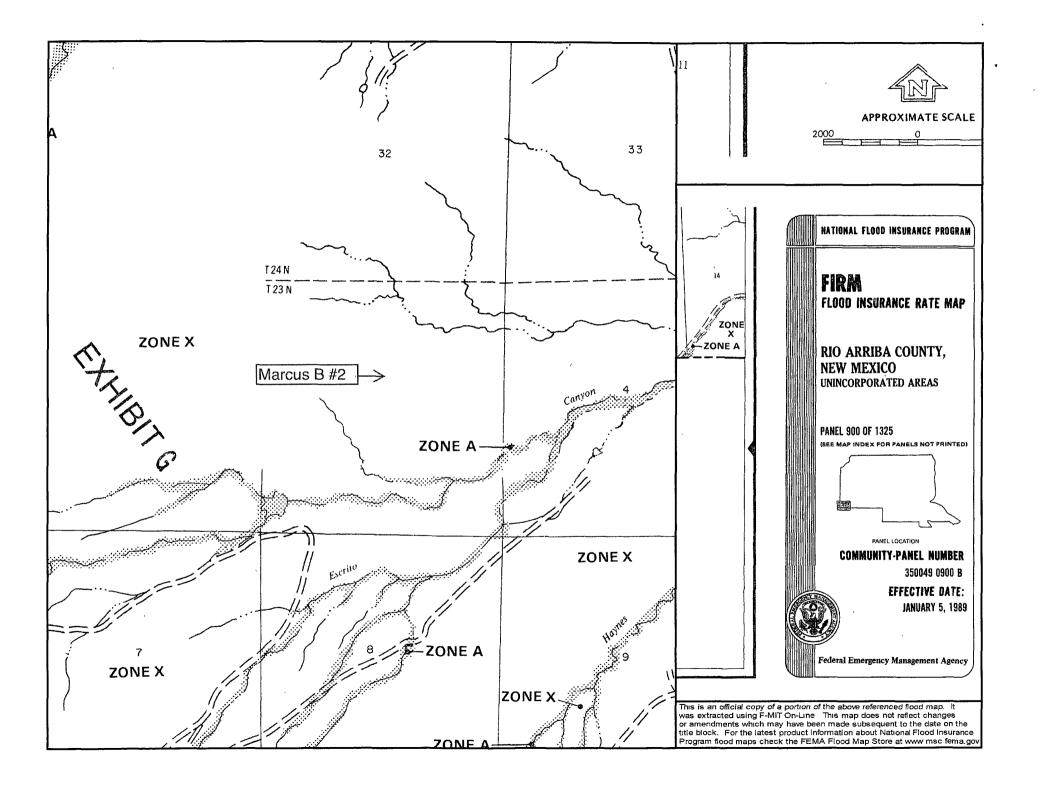


1 FOOT CONTOUR INTERVAL SHOWN

SCALE: 1" = 50' JOB No.: ERE016 DATE: 06/14/07 EXHIBIT



Russell Surveying 1409 W. Aztec Bivd. #2 Aztec, New Mexico 87410 (505) 334-8637



DISTRICT II-1301 W. Grand Avenue, Artesia, N.M. 88210

DISTRICT III 1000 Rio Brazos Rd., Aziec, N.M. 87410

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

OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

it-to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

OCT 1 6 2007

Santa Fe, NM 87505

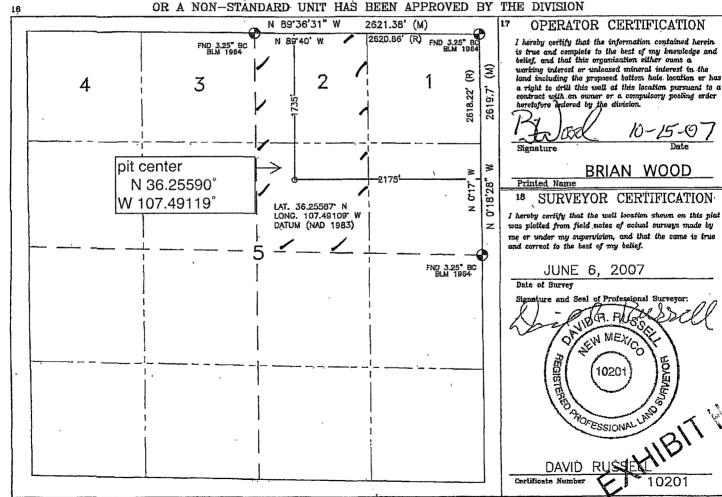
Bureau of Land Management 🗌 AMENDED REPORT Famington Field Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number					
30-039-30	イクチ	22619	ESCRITO G	SALLUP (ASS	OCIATED)
⁴ Property Code		·	roperty Name		e Well Number
. 36835	•		MARCUS B		• 2
OGRID No.	⁸ Operator Name				⁹ Elevation
149052		ELM RIDGE	EXPLORATION, LLC		6871'

¹⁰ Surface Location North/South line East/West line Feet from the III. or lot no. Section Township Range Lot Idn Feet from the County 2175 RIO ARRIBA 1735 **NORTH** EAST G 5 23N **6W** 11 Bottom Hole Location If Different From Surface North/South line | Feet from the Feet from the UL or lot no. Lot Idn East/West line Section Township Range County 12 Dedicated Acres 15 Joint or Infill 14 Consolidation Code 15 Order No. 80.04

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



From: brian wood <bri>depermitswest.com>

Subject: Elm Ridge Marcus B 2 on site closure notice

Date: October 11, 2008 11:52:52 AM MDT
To: BILL LIESS <Bill_Liess@nm.blm.gov>



As required by NMOCD pit rule Subsection F of 19.15.17.13 NMAC, I am notifying BLM 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 1735 FNL & 2175 FEL 5-23n-6w.

The well is on lease NMSF-078362.

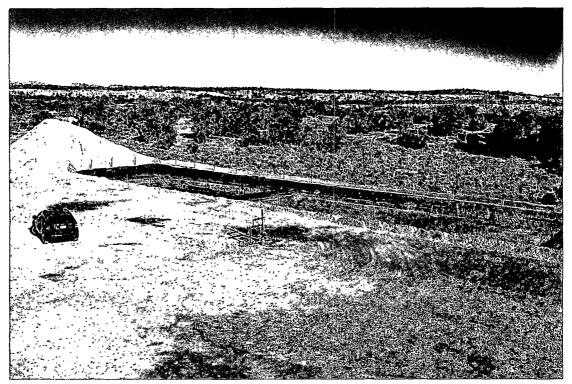
API # 30-039-30402

Please call me if you have any questions.

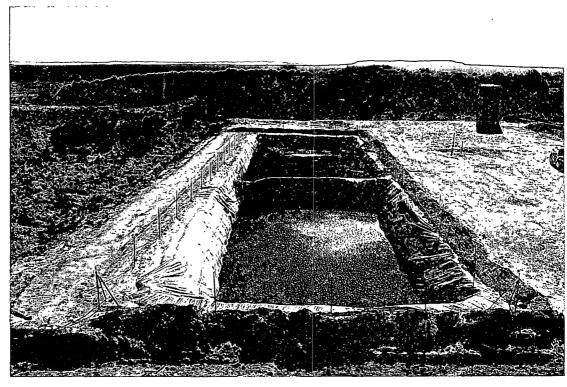
Brian Wood Permits West, Inc. 37 Verano Loop, Santa Fe, NM 87508

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

EXHIBITI



LOOKING NORTHWEST AT MARCUS B #2 PIT



LOOKING EAST AT PIT

