District I

1625 N French Dr., Hobbs, NM 88240

District II

1391 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 NOV 1 4 2008

Form C-144 July 21, 2008

For temporary piles, closed loop systems, and below-grade tanks, submit to the appropriate MOCD 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.

# 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.
1.         Operator:
Facility or well name: Bradley 31 Fed #3  API Number: 30.015.30877 OCD Permit Number:
API Number: OCD Permit Number:
U/L or Qtr/Qtr P Section 31 Township 18S Range 30E County: Eddy
Center of Proposed Design: Latitude <u>N32° 41′ 50″</u> Longitude <u>W104° 00′ 34″</u> NAD: ⊠1927 ☐ 1983
Surface Owner:  Federal  State  Private  Tribal Trust or Indian Allotment
Pit: Subsection F or G of 19.15.17.11 NMAC
Temporary:  Drilling  Workover
Permanent Emergency Cavitation P&A
☐ Lined ☐ Unlined Liner type: Thickness <u>20</u> mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
String-Reinforced
Liner Seams: Welded Factory Other Volume: 14400 bbl Dimensions: L 120' x W 100' x D 8'
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
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:
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
5. Alternative Method:

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration.	on 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, institution or church)  Four foot height, four strands of barbed wire evenly spaced between one and four feet  Alternate. Please specify	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.  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 acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.			
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ⊠ 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)  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No ☑ NA		
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 search; 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		

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklis	
Instructions: Each of the following items must be attached to the application. Please indicate, by a ch	eck mark in the box, that the documents are
attached.  ☐ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Sub ☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17. ☐ 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	(2) of Subsection B of 19.15.17.9 NMAC 10 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate recand 19.15.17.13 NMAC	quirements of Subsection C of 19.15.17.9 NMAC
☐ Previously Approved Design (attach copy of design) API Number:	r 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 chattached.	eck mark in the box, that the documents are
☐ Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Para ☐ Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate ☐ 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 rea and 19.15.17.13 NMAC	requirements of 19.15.17.10 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 chattached.  Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.  Climatological Factors Assessment  Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMA.  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 19.15.17.12 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.  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	.9 NMAC 10 NMAC AC 5.17.11 NMAC 9.15.17.11 NMAC
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed complete the applicable boxes.	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below	w-grade Tank ∠ Closed-loop System
Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only)	
On-site Closure Method (Only for temporary pits and closed-loop system  In-place Burial On-site Trench Burial	ns)
Alternative Closure Method (Exceptions must be submitted to the Santa)	Fe Environmental Bureau for consideration)
Usste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of	f the following items must be attached to the
closure plan. Please indicate, by a check mark in the box, that the documents are attached.	ine following nents must be unacrea to me
<ul> <li>✓ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>✓ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection</li> </ul>	on 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 Subse Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMA	
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 N	

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Instructions: Please indentify	Closed-loop Systems That Utilize Above Grouthe facility or facilities for the disposal of liquities.	and Steel Tanks or Haul-off Bins Only: dids, drilling fluids and drill cuttings. Use a	(19.15.17.13.D NMAC) attachment if more than	ı two	
facilities are required.					
Disposal Facility Name:	· · · · · · · · · · · · · · · · · · ·	Disposal Facility Permit Number:	R9166		
Disposal Facility Name:		Disposal Facility Permit Number:			
	d-loop system operations and associated activitie de the information below) \(\simega\) No	es occur on or in areas that will not be used	for future service and o	perations?	
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					
Instructions: Each siting crite provided below. Requests rega considered an exception which	esite closure methods only): 19.15.17.10 NMA eria requires a demonstration of compliance in arding changes to certain siting criteria may red a must be submitted to the Santa Fe Environme o are required. Please refer to 19.15.17.10 NMA	the closure plan. Recommendations of acquire administrative approval from the ap ntal Bureau office for consideration of ap	propriate district office	or may be	
	et below the bottom of the buried waste. Engineer - iWATERS database search; USGS;	Data obtained from nearby wells	☐ Yes ☐ NA	⊠ No	
	d 100 feet below the bottom of the buried waste Engineer - iWATERS database search; USGS; I	Data obtained from nearby wells	☐ Yes ☐ NA	⊠ No	
	feet below the bottom of the buried waste. Engineer - iWATERS database search; USGS;	Data obtained from nearby wells	∑ Yes □ NA	□ No	
lake (measured from the ordina	sly flowing watercourse, or 200 feet of any other ry high-water mark).  al inspection (certification) of the proposed site	•		⊠ No	
	ent residence, school, hospital, institution, or chu fication) of the proposed site; Aerial photo; Sate		cation.  Yes	⊠ No	
watering purposes, or within 10	private, domestic fresh water well or spring that 000 horizontal feet of any other fresh water well Engineer - iWATERS database; Visual inspection	or spring, in existence at the time of initial		⊠ No	
adopted pursuant to NMSA 197	boundaries or within a defined municipal fresh v 78, Section 3-27-3, as amended. r verification from the municipality; Written app	•	ordinance Yes	⊠ No	
Within 500 feet of a wetland US Fish and Wildlife W	Vetland Identification map; Topographic map; V	isual inspection (certification) of the propo	sed site	⊠ No	
Within the area overlying a sub- Written confirmation or	surface mine. r verification or map from the NM EMNRD-Mir	ning and Mineral Division	☐ Yes	⊠ No	
Society; Topographic m	ncorporated into the design; NM Bureau of Geo nap	logy & Mineral Resources; USGS; NM Ge	ological 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. Please indicate, 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  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 19.15.17.13 NMAC  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  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					
	based upon the appropriate requirements of Subs				

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): Charles Martin Title: Engineer
Signature:
e-mail address: <u>cmartin@mewbourne.com</u> Telephone: <u>(575) 393-5905</u>
20. OCD Approval: Permit Application (including closure plan)  Closure Plan (only)  OCD Conditions (see attachment)
OCD Representative Signature: Signed By Mile Bennue Approval Date: NOV 2 1 2008
Title: OCD Permit Number:
21.  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)  No
Required 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
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:

## **Bill Richardson**

Governor

Joanna Prukop Cabinet Secretary Reese Fullerton Deputy Cabinet Secretary Mark Fesmire
Division Director
Oil Conservation Division



## Conditions of approval for a drilling pit w/onsite disposal

Notify NMOCD District 2 office 48 hours prior to construction of pit.

Notify NMOCD District 2 office 48 hours prior to commencement of closure of pit.

Notify NMOCD District 2 office 48 hours prior to obtaining samples of pit contents.

Sample analyses of pit contents are to be submitted to NMOCD and approval obtained prior to commencement of onsite disposal operations. In the event analytical requirements are not met, the alternative closure method will be required.

Notify NMOCD District 2 office 48 hours prior to obtaining samples of pit bottom where applicable.

Approval valid only if all conditions of 19.15.17 [NMAC] are met and adhered to.



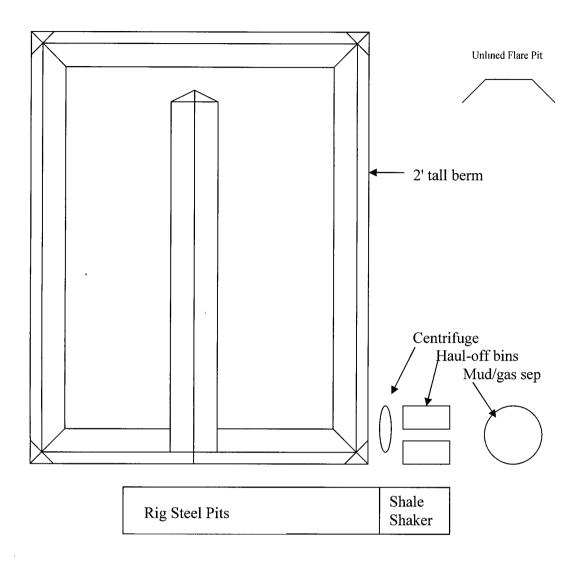
#### Temporary Pit Operating and Maintenance and Closure Plan

Temporary pit will be built in a single horse shoe as shown in the attached drawing. The pit will only be utilized for "fresh" water-based fluids. Brine water fluids will be hauled off location and disposed of in an approved facility. Drilling cuttings in the high chloride sections of the well will collect in haul-off bins and will be disposed at either Lea Land Farm or CRI. Drilling cuttings in the low chloride sections of the well will collect in the temporary pit. The temporary pit will be dewatered and solids will be buried in a deep trench on site.

### Contingency-

If the temporary pit does not meet the required specifications to bury on site, material will be disposed of at Lea Land Farm or CRI.

# **Temporary Pit Design and Construction**



Pit Dimensions:

Peak Width: 100'. Floor Width: 76' Peak Length: 120' Floor Length: 96'

Floor is 6' below GL.

Perimeter berm is 2' above GL. All walls are built with 2:1 slope.

Pit is fenced on 3 sides with barbed wire before & during drilling operations. Fourth side will be installed after drilling operations are completed.

Pit is lined with 20 mil string reinforced LLDPE installed with 18" anchor trench.

Approximate volume including 2' freeboard: 14,400 bbl.

#### On-Site Closure Plan

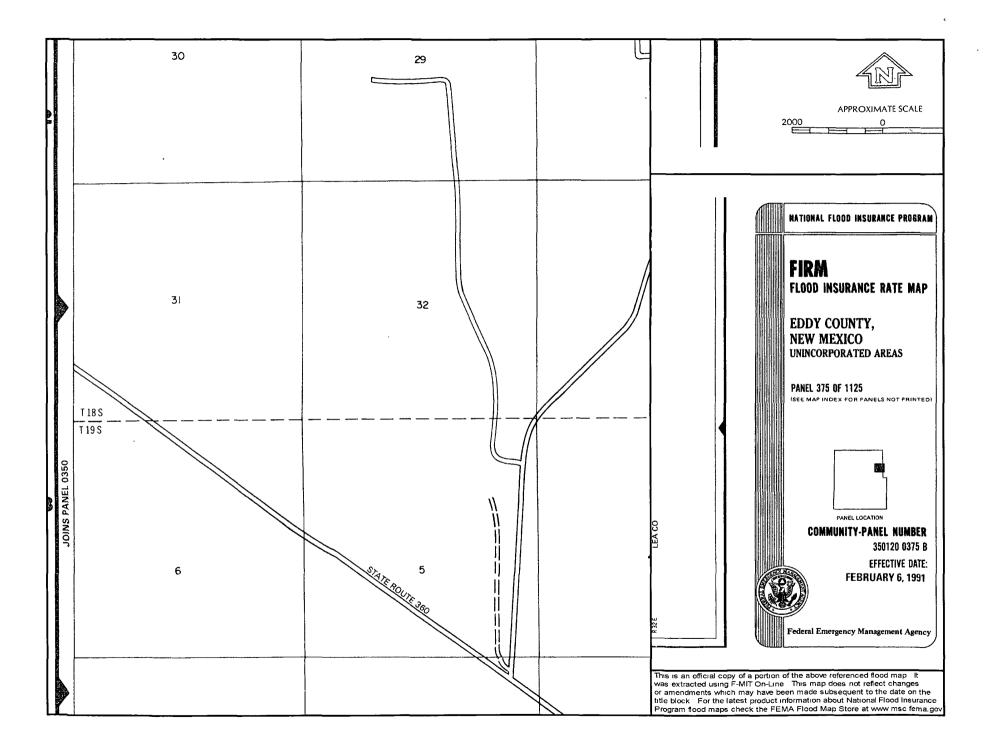
- Siting Criteria: See attachments.
- Proof of Surface Owner Notice: BLM approved APD shall serve as notice.
- Construction/Design Plan of Burial Trench: See attachment.
- **Burial Trench:** In compliance with 19.15.17.13 NMAC, material form temporary pit will be stiffened with a maximum 3:1 ratio and placed in a lined 20mil burial trench with approximate dimensions of 150x40x20. A 20mil lid will be placed on top of the burial cell to seal in the impacted material. Upon excavation all applicable soil testing will be performed pursuant to Pit Rule 17 to verify the limits set by the NMOCD have been obtained. A copy of the analytical data will be attached to the Final Report.
- **Sampling Plan:** In compliance with Subsection F of 19.15.17.13 NMAC a five point composite sample will be taken from the floor of the excavation and the burial contents.
- Soil Cover Design: In compliance with Subsection H of 19.15.17.13 NMAC three foot of native material will be placed over the burial trench and the excavated pit area with one foot of top soil to ensure re-vegetation.
- **Re-vegetation Plan:** In compliance with Subsection I of 19.15.17.13 NMAC the area will be re-seeded with a native vegetation of BLM's choice.
- **Site Reclamation Plan:** In compliance with Subsection I of 19.15.17.13 NMAC the impacted and disturbed area will be re-contoured to surrounding terrain.
- Marker: A marker will be placed over the buried material. The permanent marker will have all required information permanently listed on it.
- **Deed:** In compliance with 19.15.17.13 NMAC a deed will be filed with the county clerk and an approved copy will be attached to the final report.

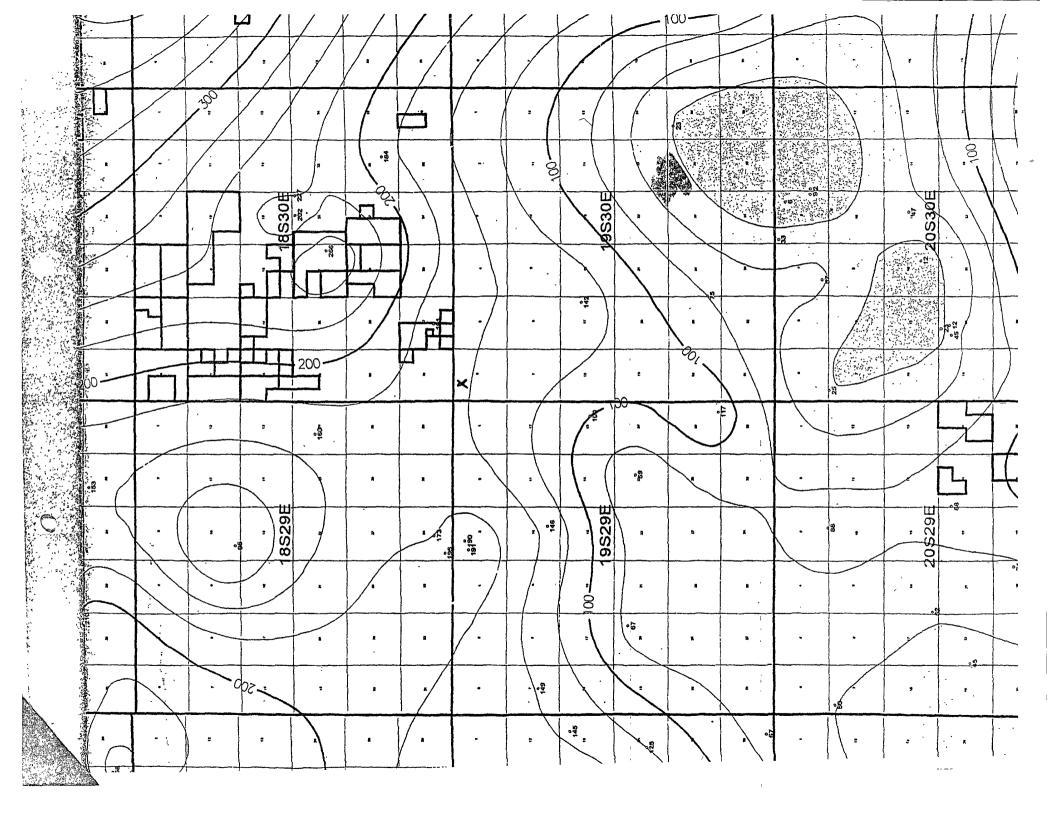
On the 29<sup>th</sup> day of October, 2008 Mewbourne Oil Co. visually inspected the Bradley 31 Fed #3 location in Unit Letter P of Sec 31, T18S, R30E, of Eddy County, NM.

This is to certify that upon visual inspection of the above mentioned location there are no permanent residences, schools, hospitals, institutions or churches within 300 feet. The location is not within 500 feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, nor within 1000 horizontal feet of any other fresh water well or spring, nor within 500 feet of a wetland, nor within 300 feet of a continuously flowing water course, nor within 200 feet of any other significant watercourse or lakebed, sinkhole or playa lake (measured from the ordinary high-water mark).

Signature: Charle & Makes

Date: 11/05/08

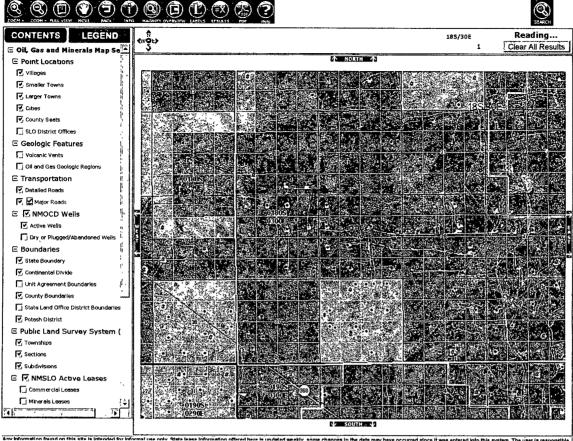








New Mexico State Land Office - Oil, Gas and Minerals Map Service



fluse only State lease information offered here is undated weekly some changes in the data way have occurred since it.

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