

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



Form C-144  
July 21, 2008

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**  
**AUG 15 2008 Proposed Alternative Method Permit or Closure Plan Application**  
**OCD-ARTESIA**

- ☐ 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: McKay Oil Corporation OGRID #: 14424  
Address: PO Box 2014, Roswell, NM 88201-2014  
Facility or well name: LL & E B Fed #2  
API Number: 30-005-63794 OCD Permit Number: \_\_\_\_\_  
U/L or Qtr/Qtr SW1/4/NW1/4 Section 12 Township 6S Range 22E County: Chaves  
Center of Proposed Design: Latitude 33°48' North Longitude 104°40' West NAD: ☐ 1927 ☐ 1983  
Surface Owner: ☒ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

See Conditions of Approval attached

2.  
☒ **Pit:** 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 geo-membrane Volume: 0 bbl Dimensions: L 50' x W 100' x D 8'

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 \_\_\_\_\_  
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: Thickness \_\_\_\_\_ mil ☐ HDPE ☐ PVC ☐ Other \_\_\_\_\_

5.  
☐ **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.	<p><b>Fencing:</b> Subsection D of 19.15.17.11 NMAC (<i>Applies to permanent pits, temporary pits, and below-grade tanks</i>)</p> <p><input type="checkbox"/> Chain link, six feet in height, two strands of barbed wire at top (<i>Required if located within 1000 feet of a permanent residence, school, hospital, institution or church</i>)</p> <p><input checked="" type="checkbox"/> Four foot height, four strands of barbed wire evenly spaced between one and four feet</p> <p><input type="checkbox"/> Alternate. Please specify _____</p>																				
7.	<p><b>Netting:</b> Subsection E of 19.15.17.11 NMAC (<i>Applies to permanent pits and permanent open top tanks</i>)</p> <p><input type="checkbox"/> Screen <input type="checkbox"/> Netting <input type="checkbox"/> Other _____</p> <p><input type="checkbox"/> Monthly inspections (If netting or screening is not physically feasible)</p>																				
8.	<p><b>Signs:</b> Subsection C of 19.15.17.11 NMAC</p> <p><input type="checkbox"/> 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers</p> <p><input checked="" type="checkbox"/> Signed in compliance with 19.15.3.103 NMAC</p>																				
9.	<p><b>Administrative Approvals and Exceptions:</b></p> <p>Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.</p> <p><b>Please check a box if one or more of the following is requested, if not leave blank:</b></p> <p><input type="checkbox"/> Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval.</p> <p><input type="checkbox"/> Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.</p>																				
10.	<p><b>Siting Criteria (regarding permitting):</b> 19.15.17.10 NMAC</p> <p><b>Instructions:</b> <i>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.</i></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 85%; vertical-align: top;"> <p>Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.</p> <p>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</p> </td> <td style="width: 15%; text-align: center; vertical-align: top;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> <tr> <td style="vertical-align: top;"> <p>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).</p> <p>- Topographic map; Visual inspection (certification) of the proposed site</p> </td> <td style="text-align: center; vertical-align: top;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> <tr> <td style="vertical-align: top;"> <p>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (<i>Applies to temporary, emergency, or cavitation pits and below-grade tanks</i>)</p> <p>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</p> </td> <td style="text-align: center; vertical-align: top;"> <input type="checkbox"/> Yes <input type="checkbox"/> No  <input type="checkbox"/> NA </td> </tr> <tr> <td style="vertical-align: top;"> <p>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (<i>Applies to permanent pits</i>)</p> <p>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</p> </td> <td style="text-align: center; vertical-align: top;"> <input type="checkbox"/> Yes <input type="checkbox"/> No  <input type="checkbox"/> NA </td> </tr> <tr> <td style="vertical-align: top;"> <p>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.</p> <p>- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</p> </td> <td style="text-align: center; vertical-align: top;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> <tr> <td style="vertical-align: top;"> <p>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.</p> <p>- Written confirmation or verification from the municipality; Written approval obtained from the municipality</p> </td> <td style="text-align: center; vertical-align: top;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> <tr> <td style="vertical-align: top;"> <p>Within 500 feet of a wetland.</p> <p>- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</p> </td> <td style="text-align: center; vertical-align: top;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> <tr> <td style="vertical-align: top;"> <p>Within the area overlying a subsurface mine.</p> <p>- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</p> </td> <td style="text-align: center; vertical-align: top;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> <tr> <td style="vertical-align: top;"> <p>Within an unstable area.</p> <p>- Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</p> </td> <td style="text-align: center; vertical-align: top;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> <tr> <td style="vertical-align: top;"> <p>Within a 100-year floodplain.</p> <p>- FEMA map</p> </td> <td style="text-align: center; vertical-align: top;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> </table>	<p>Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.</p> <p>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<p>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).</p> <p>- Topographic map; Visual inspection (certification) of the proposed site</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<p>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (<i>Applies to temporary, emergency, or cavitation pits and below-grade tanks</i>)</p> <p>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<p>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (<i>Applies to permanent pits</i>)</p> <p>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<p>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.</p> <p>- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<p>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.</p> <p>- Written confirmation or verification from the municipality; Written approval obtained from the municipality</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<p>Within 500 feet of a wetland.</p> <p>- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<p>Within the area overlying a subsurface mine.</p> <p>- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<p>Within an unstable area.</p> <p>- Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<p>Within a 100-year floodplain.</p> <p>- FEMA map</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
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<p>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (<i>Applies to permanent pits</i>)</p> <p>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA																				
<p>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.</p> <p>- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No																				
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<p>Within an unstable area.</p> <p>- Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No																				
<p>Within a 100-year floodplain.</p> <p>- FEMA map</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No																				

11  
**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: \_\_\_\_\_

12.  
**Closed-loop Systems Permit Application Attachment Checklist:** Subsection B of 19.15.17.9 NMAC

**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
- ☐ Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
- ☐ Previously Approved Design (attach copy of design) API Number: \_\_\_\_\_
- ☐ Previously Approved Operating and Maintenance Plan API Number: \_\_\_\_\_ (Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

13.  
**Permanent Pits Permit Application Checklist:** Subsection B of 19.15.17.9 NMAC

**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Climatological Factors Assessment
- ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Quality Control/Quality Assurance Construction and Installation Plan
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Nuisance or Hazardous Odors, including H<sub>2</sub>S, Prevention Plan
- ☐ Emergency Response Plan
- ☐ Oil Field Waste Stream Characterization
- ☐ Monitoring and Inspection Plan
- ☐ Erosion Control Plan
- ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

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)

15.  
**Waste Excavation and Removal Closure Plan Checklist:** (19.15.17.13 NMAC) **Instructions:** Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.

- ☒ 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 I of 19.15.17.13 NMAC
- ☒ Site Reclamation 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.D NMAC)

**Instructions:** Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.

Disposal Facility Name: \_\_\_\_\_

Disposal Facility Permit Number: \_\_\_\_\_

Disposal Facility Name: \_\_\_\_\_

Disposal Facility Permit Number: \_\_\_\_\_

Will any of the proposed closed-loop system operations and associated activities occur on or in areas that *will not* be used for future service and operations?

☐ Yes (If yes, please provide the information below) ☐ No

*Required for impacted areas which will not be used for future service and operations:*

☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC

☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

17.

**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 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. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.

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. **Ground Water Depth = 680'**

- 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

☒ NA

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

18.

**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 19.15.17.11 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

☒ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)

☒ 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

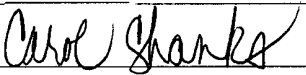
☒ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

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): Carol Shanks Title: Production Analyst

Signature:  Date: \_\_\_\_\_

e-mail address: carol@mckayoil.com Telephone: (575) 623-4735

20.

**OCD Approval:** ☐ Permit Application (including closure plan) ☒ Closure Plan (only) ☒ OCD Conditions (see attachment)

OCD Representative Signature: Signed By  Approval Date: SEP 19 2008

Title: \_\_\_\_\_ OCD Permit Number: N/A

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 identify 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

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

25.

**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: \_\_\_\_\_

# New Mexico Energy, Minerals and Natural Resources Department

**Bill Richardson**  
Governor

**Joanna Prukop**  
Cabinet Secretary  
**Reese Fullerton**  
Deputy Cabinet Secretary

**Mark Fesmire**  
Division Director  
Oil Conservation Division



## Conditions of approval for onsite disposal of drilling pit contents:

Samples are to be obtained from pit contents and analyses ran per 19.15.17.13. Paragraph F [NMAC]. In the event the analytical requirements are not met, onsite disposal will not be permitted and the alternative closure method will be required.

Sample analyses of pit contents are to be submitted to NMOCD and approval granted prior to onsite disposal of contents.

Notify NMOCD District 2 Office 48 hours prior to commencement of closure activities.

Notify NMOCD District 2 Office 48 hours prior to obtaining samples from drilling pit contents.

Notify NMOCD District 2 Office 48 hours prior to obtaining samples from drilling pit bottom.

Adherence to all requirements per 19.15.17 [NMAC]



LL & E B FEDERAL #2  
1650'FNL & 1980' FEL, SW¼NW ¼, Unit G, SEC12, T6S, R22E  
API: 30-005-63794

McKay Oil Corporation  
P. O. Box 2014  
Roswell, NM 88202  
(575) 623-4735

---

**PIT PROOF OF SURFACE OWNER NOTICE** (19.15.17.13)

**Proof of Surface Owner Notice**

1. APD Application to drill approved. Sundry Notice to be submitted on date well spud.

Form 2160-3  
(April 2004)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**APPLICATION FOR PERMIT TO DRILL OR REENTER**

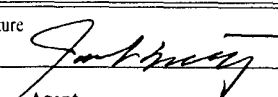
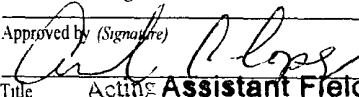
FORM APPROVED  
OMB No 1004-0137  
Expires March 31, 2007

1a Type of work <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5 Lease Serial No. <b>NM 32308</b>
1b Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6 If Indian, Allottee or Tribe Name
2 Name of Operator <b>McKay Oil Corporation</b>		7 If Unit or CA Agreement, Name and No
3a Address <b>PO Box 2014 Roswell, NM 88202-2014</b>		8 Lease Name and Well No <b>LL &amp; E B Federal #2</b>
3b Phone No. (include area code) <b>505-623-4735</b>		9 API Well No. <b>30-005-63794</b>
4 Location of Well (Report location clearly and in accordance with any State requirements.) At surface <b>1650' FNL &amp; 1980' FEL</b> At proposed prod zone		10 Field and Pool, or Exploratory <b>W. Pecos ABO Slope</b>
14 Distance in miles and direction from nearest town or post office* <b>Approximately 25 miles</b>		11 Sec, T R, M or Blk and Survey or Area <b>Unit G, Sec. 12, T6S, R22E</b>
15 Distance from proposed* location to nearest property or lease line, ft (Also to nearest drig unit line, if any) <b>1320'</b>	16 No of acres in lease <b>741.20</b>	12 County or Parish <b>Chaves</b>
17 Spacing Unit dedicated to this well <b>160'</b>	13 State <b>NM</b>	
18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft	19 Proposed Depth <b>4300'</b>	20 BLM/BIA Bond No on file
21 Elevations (Show whether DF, KDB, RT, GL, etc) <b>4144'</b>	22 Approximate date work will start* <b>09/01/2005</b>	23 Estimated duration <b>7-10 days</b>

**24. Attachments**

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No 1, shall be attached to this form

- |   |   |
|---|---|
| 1 Well plat certified by a registered surveyor  | 4 Bond to cover the operations unless covered by an existing bond on file (see Item 20 above)     |
| 2 A Drilling Plan.  | 5 Operator certification  |
| 3 A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office) | 6 Such other site specific information and/or plans as may be required by the authorized officer. |

25 Signature 	Name (Printed/Typed) <b>James L. Schultz</b>	Date <b>08/24/2005</b>
Title <b>Agent</b>		
Approved by (Signature) 	Name (Printed/Typed) <b>ARMANDO A. LOPEZ</b>	Date <b>DEC 16 2005</b>
Title <b>Acting Assistant Field Manager, Lands And Minerals</b>		
Office <b>ROSWELL FIELD OFFICE</b>		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon  
Conditions of approval, if any, are attached

Title 18 USC Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on page 2)

**APPROVED FOR 1 YEAR**

**APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS ATTACHED**



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**PIT CLOSURE PLAN (19.15.17.13)**

**Onsite Trench burial Closure Method**

1. There are no liquid contents to be removed from existing 50' X 100' pit.
2. Dig trench 2 (west side of trench 1 pit area) big enough to put all of the cuttings in. Leave enough room for 4' backfill material. (NOTE: Trench size depends on the amount of cuttings, rock formations, surrounding terrain and mud solidity.)
3. Line trench 2 with 20 MIL liner, and in accordance with the design and construction requirements specified in Subsection J of 19.15.17.11 NMAC.
4. Fill trench 2 with cuttings, original pit liner and any contaminated soil.
5. Solidify the contents to a bearing capacity sufficient to support the temporary pit's final cover of the trench burial. Operator shall not exceed the 3:1 mixing ratio (soil or other material to contents).
6. Collect \*soil samples (see Exhibit A) from inside trench 1 area consisting of a five-point, composite soil sample. Collect individual grab samples from any area that is wet, discolored or showing other evidence of a release.
7. Cap trench 2 with 20 MIL liner.
8. Backfill trench 1 area with 4' of topsoil.
9. Backfill trench 2 area with 4' of topsoil, re-contour where applicable to conform to original topography of the area.
10. Place steel marker at the center of on-site burial. Marker shall be 4" in diameter, cemented 3' beneath ground and extending 4' above ground level. Sign engraved with: Operator, Lease, Unit letter, Section, Township and range.
11. File deed with Chaves County Clerk identifying exact location of on-site burial.
12. Seed entire pit area per BLM specifications.

**Quality Control**

1. \*Soil samples will be collected per EPA SWA-846 protocol. Samples will be kept in sterile sample-dedicated containers and homogenized with a trowel. After sample containers are filled, they will be immediately sealed, and processed for shipment to the Cardinal Laboratory in Hobbs, NM for TPH and Chloride testing. TPH not to exceed 2.500 mg. Chlorides not to exceed 250mg. Cardinal Lab will prepare an analytical data report of the soil.
2. Cardinal Lab will report back to McKay Oil, results from soil samples.
3. Operator to submit Form C-141, with Analytical Data Report, to OCD.

**Cardinal Laboratories (Soil Analysis)**

101 E. Marland  
Hobbs, NM 88240  
Contact: Larry Bailey  
(575) 393-2326 (or) 800-588-5227

**Talon, LPE (Soil Sampler)**

318 E. Taylor  
Hobbs, NM 88240  
Contact: Shelly Tucker  
(575) 706-7234

---

**PIT CLOSURE METHOD (19.15.17.13) - ALTERNATE PLAN**

**Waste Excavation and Removal**

1. Operator will remove all liquid contents in 50' X 100' pit and allow the bottom of pit to dry.
2. Pile cuttings and original pit liner in Roll-off Box on west side of pit area.
3. Collect \*soil samples (see Exhibit A) from inside trench 1 area consisting of a five-point, composite soil sample. Collect individual grab samples from any area that is wet, discolored or showing other evidence of a release.
4. Haul off drill cuttings, liquid contents and any contaminated soil in Roll-off Box to \*Gandy Marley Landfill.
5. Backfill trench 1 area with 4' of topsoil.
6. Re-contour where applicable to conform to original topography of the area.
7. Seed entire pit area per BLM specifications.

**Quality Control**

1. \*Soil samples will be collected per EPA SWA-846 protocol. Samples will be kept in sterile sample-dedicated containers and homogenized with a trowel. After sample containers are filled, they will be immediately sealed, and processed for shipment to the Cardinal Laboratory in Hobbs, NM for benzene and chloride analytical testing. Cardinal Lab will prepare an analytical data report of the soil.
2. Cardinal Lab will report back to McKay Oil, results from soil samples.
3. Operator to submit Form C-141, with Analytical Data Report, to OCD.

**Cardinal Laboratories (Soil Analysis)**

101 E. Marland  
Hobbs, NM 88240  
Contact: Larry Bailey  
(575) 393-2326 (or) 800-588-5227

**Talon, LPE (Soil Sampler)**

318 E. Taylor  
Hobbs, NM 88240  
Contact: Shelly Tucker  
(575) 706-7234

**Gandy Marley (Waste Disposal)**

PERMIT NO: NM-711-1-0020  
Mile Marker 196, US 380 E  
Roswell, NM 88201  
(575) 626-6513

## PIT SITING REQUIREMENTS (19.15.17.10)

### Siting Requirements

See attachments - applicable to this permit request.

<b>Siting Criteria (regarding permitting):</b> 19.15.17.10 NMAC <i>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.</i>	
<p>a. 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</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<p>b. 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</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<p>c. 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</p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>d. 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</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<p>e. 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</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<p>f. 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</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<p>g. 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</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
<p>h. Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<p>i. Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<p>j. Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<p>k. Within a 100-year floodplain.  - FEMA map</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

McKay Oil Corporation  
 LL&E B Fed #2  
 SEC 12, T6S, R22E

Siting Requirement a. b. c.

1 Per BLM Hydrologist dated August 2008, Ground Water Depth = 750'

2 Per 'Declaration Owner of Underground Water Right No RA-8373', dated 1/5/92 (SEC 11 for comparison) Ground Water Depth = 350' below land surface.

\*Note. No records established in NM State Engineer's office specific to SEC 12, as of August 2008.

SEC 12					
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

# Declaration of Owner of Underground Water Right

CHAVES COUNTY

RA

7/11/1997 07

BASIN NAME

Declaration No. ~~03-433~~ RA-8373 Date received June 5, 1992

## STATEMENT

- Name of Declarant Betty J. Moats  
Mailing Address PO Box 847 Roswell  
County of Chaves, State of New Mexico 88201
- Source of water supply Shallow Water Aquifer  
(artesian or shallow water aquifer)
- Describe well location under one of the following subheadings:
  - NE ¼ NW ¼ NW ¼ of Sec 11 Twp. 6S Rge. 23E N.M.P.M., in Chaves County.
  - Tract No. \_\_\_\_\_ of Map No. \_\_\_\_\_ of the \_\_\_\_\_
  - X = \_\_\_\_\_ feet, Y = \_\_\_\_\_ feet, N. M. Coordinate System \_\_\_\_\_ Zone \_\_\_\_\_ in the \_\_\_\_\_ Grant. \_\_\_\_\_  
On land owned by \_\_\_\_\_
- Description of well: date drilled About 1913 driller unknown depth 146' feet.  
outside diameter of casing 6 inches; original capacity unknown gal. per min.; present capacity 20 gal. per min.; pumping lift 350 feet; static water level 350 feet (above) (below) land surface;  
make and type of pump 1½ HP electric submersible  
make, type, horsepower, etc., of power plant \_\_\_\_\_  
Fractional or percentage interest claimed in well 100%
- Quantity of water appropriated and beneficially used 3  
(acre feet per acre) (acre feet per annum)  
for Livestock and domestic. purposes.
- Acreage actually irrigated 0 acres, located and described as follows (describe only lands actually irrigated):

Subdivision	Sec.	Twp.	Range	Acre Irrigated	Owner

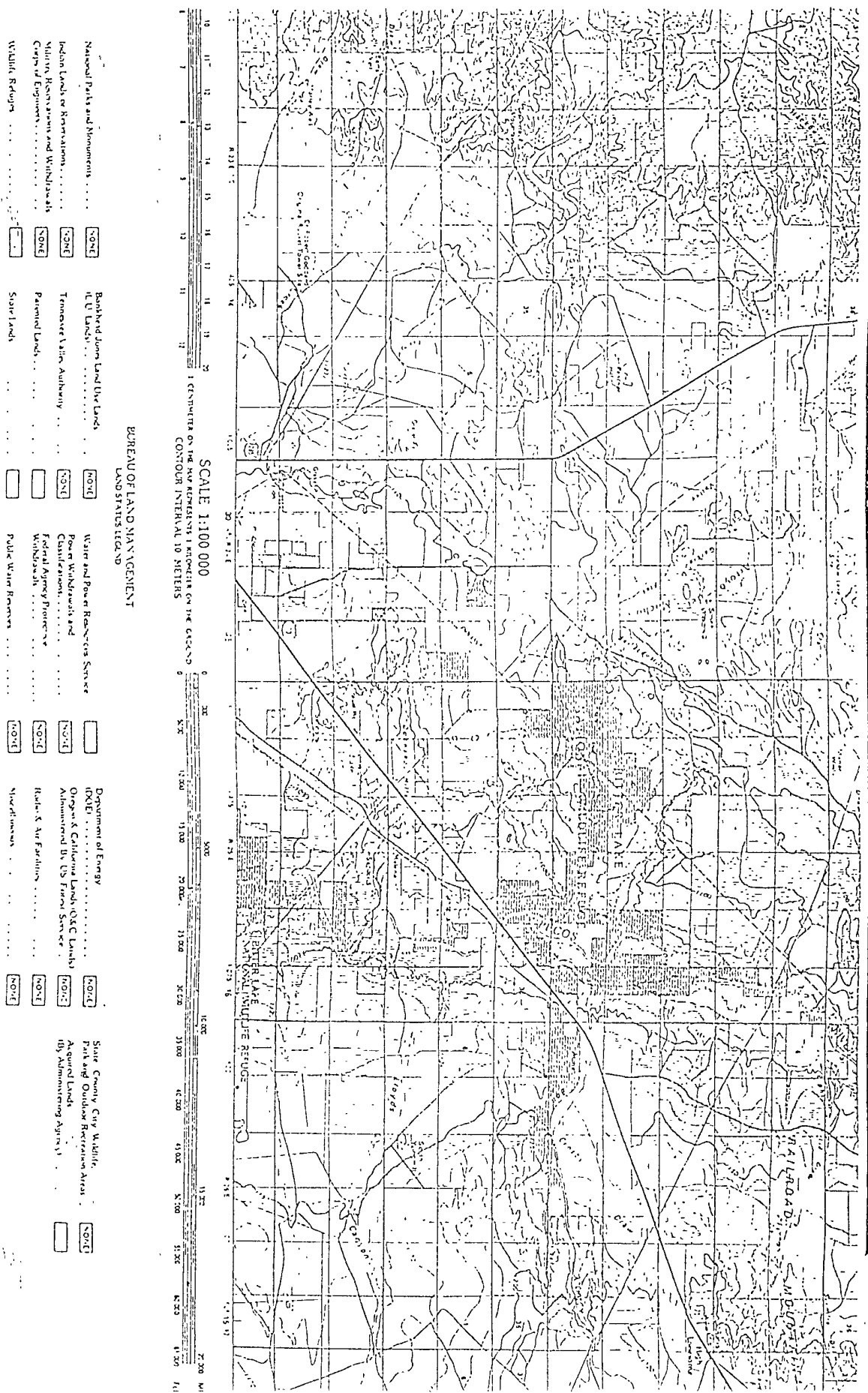
(Note: location of well and acreage actually irrigated must be shown on plat on reverse side.)

- Water was first applied to beneficial use about 1913 and since that time  
month day year  
has been used fully and continuously on all of the above described lands or for the above described purposes except  
as follows: \_\_\_\_\_  
\_\_\_\_\_
- Additional statements or explanations Name: House well  
Original depth 146', reworked over the years to  
current depth of 593'

I, Betty J. Moats, being first duly sworn upon my oath, depose and say that the above is a full and complete statement prepared in accordance with the instructions on the reverse side of this form and submitted in evidence of ownership of a valid underground water right, that I have carefully read each and all of the items contained therein and that the same are true to the best of my knowledge and belief.

Betty J. Moats, declarant.  
by: \_\_\_\_\_

Subscribed and sworn to before me this 2nd day of June, A.D. 1992  
My commission expires 10-19-93 Louise Matheau Notary Public



BUREAU OF LAND MANAGEMENT  
LAND STATES LEGEND

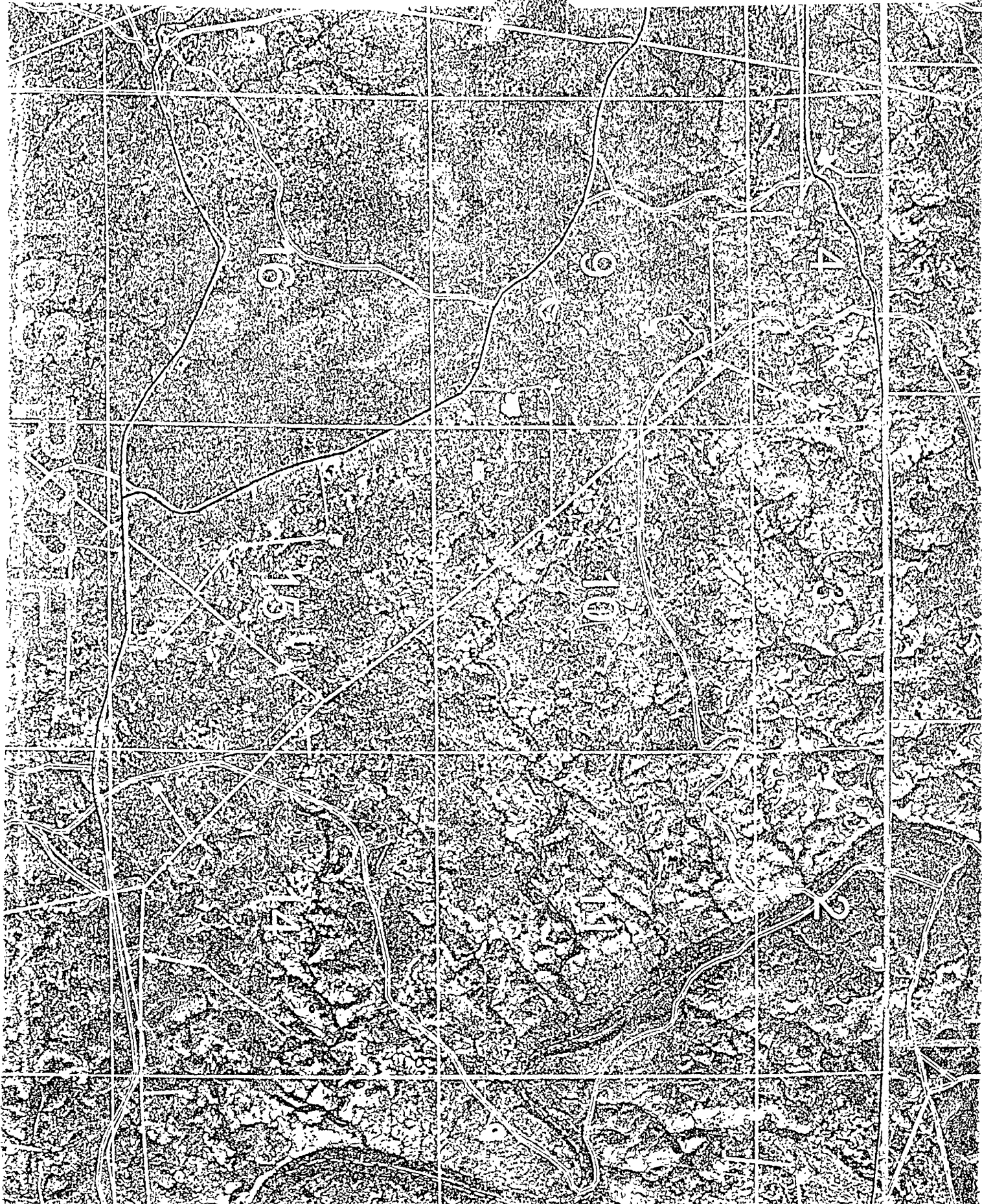
- |  |      |                            |      |                                  |      |                                       |      |                                     |      |
|--|------|----------------------------|------|----------------------------------|------|---------------------------------------|------|-------------------------------------|------|
| National Parks and Monuments             | NOPT | Revised from Land Use Land | NOPT | Wire and Power Resources Service | NOPT | Department of Energy                  | NOPT | State County City Wildlife          | NOPT |
| Indian Lands or Reservations             | NOPT | BLU Land                   | NOPT | Power Withdrawals and            | NOPT | IOPT                                  | NOPT | Public and Outdoor Recreation Areas | NOPT |
| Military Reservations and War Relocation | NOPT | Temporary State Authority  | NOPT | Classifications                  | NOPT | Oregon & California Lands (O&C Lands) | NOPT | Acquired Lands                      | NOPT |
| Cultural Resources                       | NOPT | Patented Lands             | NOPT | Federal Agency Properties        | NOPT | Administered by US Forest Service     | NOPT | IdB, Administering Agency           | NOPT |
| Wildlife Refugia                         | NOPT | State Lands                | NOPT | Wilderness                       | NOPT | Rural & Air Facilities                | NOPT |                                     | NOPT |
|  |      |                            |      | Public Water Reserves            | NOPT | Shoreline                             | NOPT |                                     | NOPT |

SCALE 1:100,000  
1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND  
CONTOUR INTERVAL 10 METERS

0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 11000 12000 13000 14000 15000 16000 17000 18000 19000 20000 21000 22000 23000 24000 25000 26000 27000 28000 29000 30000 31000 32000 33000 34000 35000 36000 37000 38000 39000 40000 41000 42000 43000 44000 45000 46000 47000 48000 49000 50000 51000 52000 53000 54000 55000 56000 57000 58000 59000 60000 61000 62000 63000 64000 65000 66000 67000 68000 69000 70000 71000 72000 73000 74000 75000 76000 77000 78000 79000 80000 81000 82000 83000 84000 85000 86000 87000 88000 89000 90000 91000 92000 93000 94000 95000 96000 97000 98000 99000 100000

LL & E B FEDERAL #2  
1650' FNL & 1980' FEL, SW¼NW ¼, Unit G, SEC12, T6S, R22E  
API: 30-005-63794

siting requirement e.



LL & E B FEDERAL #2  
1650' FNL & 1980' FEL, SW 1/4 NW 1/4, Unit G, SEC12, T6S, R22E  
API: 30-005-63794

siting requirement f.

New Mexico Office of the State Engineer  
POD Reports and Downloads

Township 06S Range 22E Sections 12  
NAD27 X Y Zone ☐ Search Radius  
County CH ☐ Basin ☐ Number Suffix  
Owner Name (First) (Last) ☐ Non-Domestic ☐ Domestic ☒ All

POD / SURFACE DATA REPORT 08/13/2008

(acre ft per annum)  
DB File Nbr Use Diversion Owner

POD Number

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are biggest to smallest) X Y are in Feet  
Source Tws Rng Sec q q q Zone X Y

No Records found, try again





Google

Results 1-5 of about 17 for potash mines  
near Chaves County, New Mexico



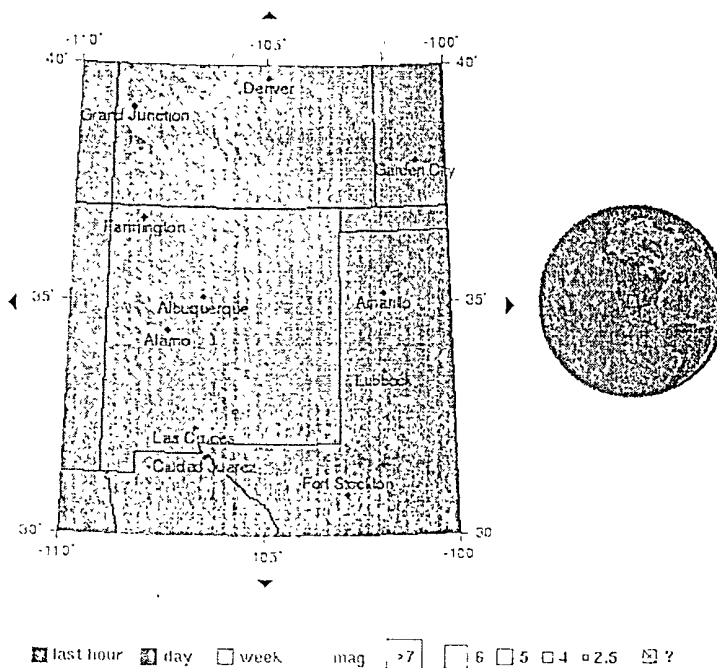
- |   |  |
|---|--|
| A Mosaic Potash Carlsbad<br>1351 Potash Mines Rd, Carlsbad, NM - (575) 837-2371 | F Intrepid Potash East<br>210 Red Cloud, Carlsbad, NM - (575) 887-1117   |
| C Highlands Gas<br>250 Potash Mines Rd, Loving, NM - (575) 745-2315             | D Intrepid Potash<br>1995 Potash Mines Rd, Carlsbad, NM - (575) 887-5591 |
| E Intrepid Potash<br>6285 Hobbs Hwy, Carlsbad, NM - (575) 885-3134              |  |

No mining activity in Chaves County, New Mexico



Earthquake Hazards Program

10-degree Map Centered at 35°N, 105°W



Instructions

- Click on an earthquake for more information
- Click on blue arrows around map to see next map in that direction.

Tips

- To convert UTC to US time zones, see this list or this table
- Magnitude = ? for new earthquakes until a magnitude is determined.
- Maps show events recorded in the last 7 days with M2.5+ within the United States and adjacent areas, M4.0+ in the rest of the world
- Maps are updated whenever a new earthquake has been located. Try to reload this page if you do not have the most current map

Earthquake Lists

- [List of Earthquakes on this Map](#)
- [World M2.5+ Earthquake list](#)
- [World M5+ Earthquake list](#)

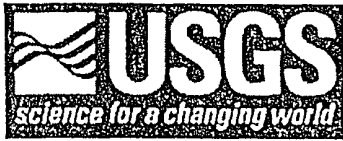
Did you feel it?

- [Report an Earthquake](#)

Back

- [Back to List of Regional Maps](#)
- [Back to World Map](#)

yz



## Earthquake Hazards Program

### Earthquake List for 10-degree Map Centered at 35°N, 105°W

Update time = Fri Jun 13 20:12:07 UTC 2008

There are no earthquakes on the 10-degree Map Centered at 35°N, 105°W at this time.

Back to 10-degree Map Centered at 35°N, 105°W

U.S. Department of the Interior | U.S. Geological Survey

URL: [http://earthquake.usgs.gov/eqcenter/recenteqswww/Maps/degree10/255\\_35\\_eqs.php](http://earthquake.usgs.gov/eqcenter/recenteqswww/Maps/degree10/255_35_eqs.php)

Page Contact Information: EHP Web Team

Page Last Modified: June 13, 2008 20:12:12 UTC

Page Last Modified: June 13, 2008 20:12:12 UTC

y



## Earthquake Hazards Program

### New Mexico

#### Earthquake History

Most of New Mexico's historical seismicity has been concentrated in the Rio Grande Valley between Socorro and Albuquerque. About half of the earthquakes of intensity VI or greater (Modified Mercalli intensity) that occurred in the State between 1868 and 1973 were centered in this region.

The earliest reported earthquake in New Mexico was an intensity V tremor that occurred near Socorro on April 20, 1855. In the years that followed, Socorro was struck by numerous low to moderate intensity earthquakes. Most of these caused little or no damage and were felt over a small area. However, beginning on July 2, 1906, and lasting well into 1907 the area was affected by shocks almost daily. There were three fairly severe shocks in this series. The first was an intensity VII tremor that struck on July 12 and cracked some adobe walls and threw others down. Ground fissures and visible waves on the surface were reported with this earthquake. Another shock of intensity VII on July 16, was felt at Raton, about 370 km northeast of Socorro and at Douglas, Arizona, about 420 km southwest. The epicenter was probably about 16 km west of Socorro. On November 15, an intensity VII shock was felt over an area of about 250,000 square kilometers. Rumbling sounds were heard during this earthquake. Later shocks occurred at Socorro on July 18, 1913 (intensity V), January 31, 1919 (intensity IV-V), and February 1, 1919 (intensity V). An intensity V earthquake caused slight damage at Socorro on January 7, 1934. The most recent shock to affect the area occurred on July 3, 1961, causing slight damage at Socorro (intensity VI).

The towns of Bernardo and La Joya, about 30 kilometers and 40 kilometers north of Socorro, have been the center of a number of moderately strong earthquakes. On February 20, 1935, an intensity VI shock damaged adobe and concrete buildings at Bernardo. This earthquake was accompanied by a thunderous roar. On July 22, 1960, an intensity V tremor knocked some items from shelves at La Joya. The next day, a weak adobe wall was toppled and adobe buildings were cracked by an intensity VI earthquake. The total felt area of this shock was about 7,800 square kilometers. One day later on July 24, an intensity V shock broke two small windows at Boys Ranch and awakened many persons at Bernardo.

Belen, about 56 kilometers south of Albuquerque, experienced a series of earthquakes that lasted from December 12 to 30, 1935. Loud subterranean sounds accompanied a strong shock on December 17, that cracked the brick wall of an old public school buildings in Belen. In addition, there were reports of fallen plaster and small objects shaken from shelves. Numerous weak intermittent tremors were felt in the area, with additional slight damage from tremors on December 19 and 21.

The area around Los Lunas was affected by a series of earthquakes in 1893 that lasted for about 3 months. On September 7, 1893, five strong shocks, the most severe of intensity VII, struck Los Lunas. Many adobe buildings, weakened by earlier disturbances, were thrown down. Felt reports were also received from Sabinal.

Albuquerque has been the center of several moderately strong shocks. On July 12, 1893, three intensity V earthquakes shook every house in the city. Clocks stopped, and one report told of a chandelier swinging for 10 minutes. On December 3, 1930, two distinct shocks cracked plaster and dishes. A strong localized shock of intensity VI on February 4, 1931, caused people to leave houses and created a near panic situation in theaters. Many people



reported they were thrown from bed. Some building damage and landslides occurred. On November 6, 1947, Zamora, slightly east of Albuquerque, was shaken by an earthquake. Cracks were reported in plaster and a fireplace.

Minor plaster cracks in a bank building in Albuquerque were reported from an intensity V earthquake on November 3, 1954. The shock was also felt at Bernalillo, Sandoval, and Sandia Pueblo. A lighter shock on November 2 was felt over the same area. An earthquake, measured at 3.8, on November 28, 1970, awakened thousands at Albuquerque. The shock had a felt area of 3,000 square kilometers. The roof of a barn collapsed and a rooftop air-conditioner shook loose and fell through a skylight. Plaster cracks, broken windows, and many other instances of minor damage were reported. Many burglar alarms were activated. On January 4, 1971, another shock caused considerable minor damage in Albuquerque, principally at the University of Albuquerque.

An earthquake with strong local effects occurred on May 18, 1918, in Santa Fe county. At Cerrillos, people were thrown off their feet, a break in the earth's surface was noted, and fallen plaster was reported (intensity VII - VIII). Similar effects were noted at Stanley.

On January 22, 1966, a magnitude 5.5 earthquake centered near Dulce affected about 39,000 square kilometers of northwestern New Mexico and southwestern Colorado. Nearly every building in Dulce was damaged to some degree; many buildings had exterior and interior damage and considerable chimney damage was noted. The principal property damage was sustained at the Bureau of Indian Affairs School and Dormitory Complex and at the Dulce Independent Schools. Rockfalls and landslides occurred along Highway 17, about 15 to 25 km west of Dulce; in addition some minor cracks appeared in the highway. Minor damage was also reported at Lumberton, NM, and Edith, Colorado.

A magnitude 4.1 shock on December 24, 1973, occurred near Grants. The tremor caused minor damage in the Grants area and was also felt at Laguna, Bluewater, and Fort Wingate. Maximum reported intensity was V.

Abridged from Earthquake Information Bulletin, Volume 7, Number 3, May-June 1975, by Carl von Hake.

For a list of earthquakes that have occurred since this article was written, use the [Earthquake Search](#).

U.S. Department of the Interior | U.S. Geological Survey

URL: [http://earthquake.usgs.gov/regional/states/new\\_mexico/history.php](http://earthquake.usgs.gov/regional/states/new_mexico/history.php)

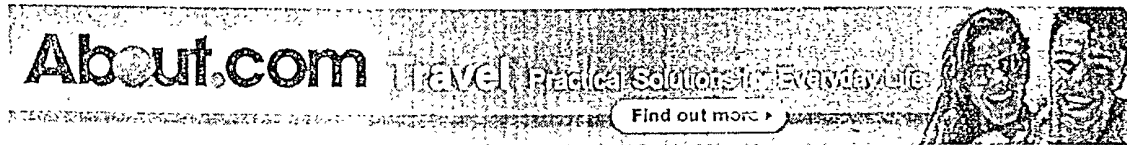
Page Contact Information: [EHP Web Team](#)

Page Last Modified: February 08, 2008 19:23:37 UTC

d: February 08, 2008 19:23:37 UTC



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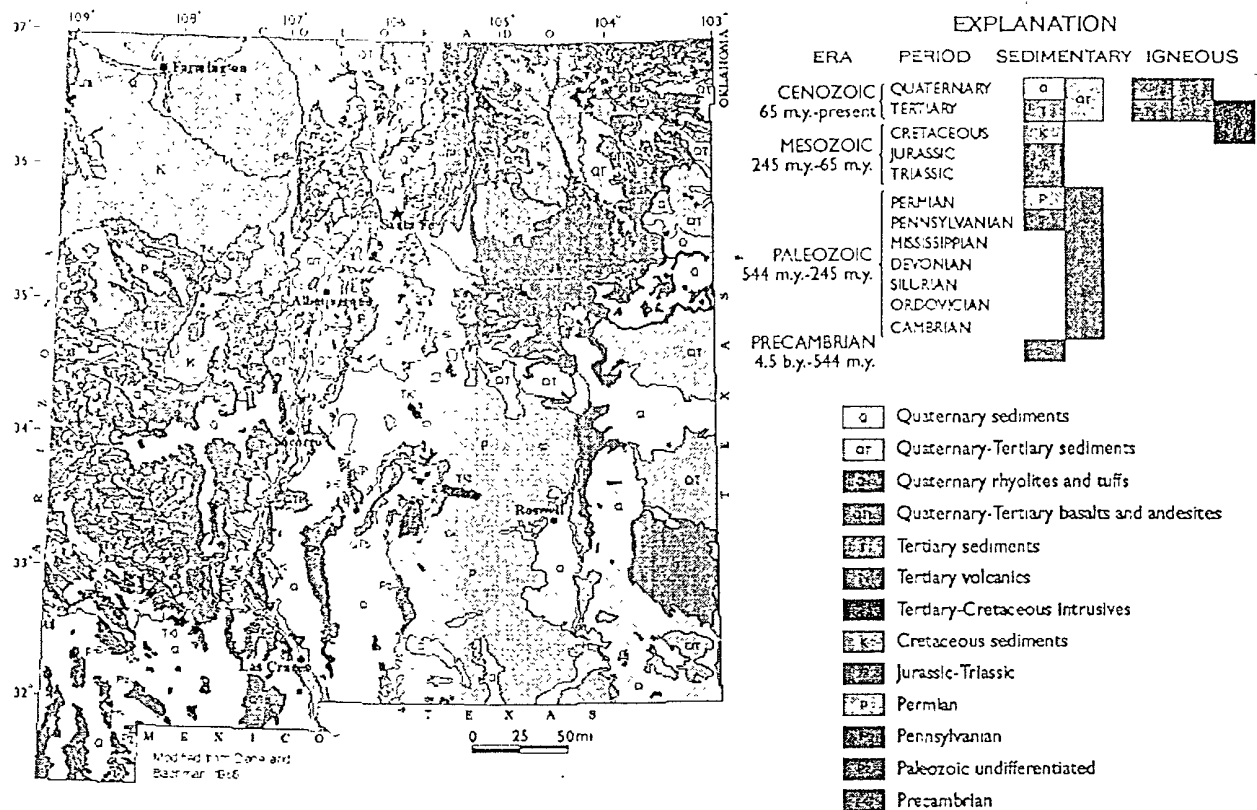


### Geologic Map of New Mexico

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## GENERALIZED GEOLOGIC MAP OF NEW MEXICO



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- Identify Rocks

yf

## Recent Helicorder Displays New Mexico Seismic Network

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### ANMO BHZ IU : Albuquerque USGS Seismological Lab

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00) | 06/28/2008 (00) | 06/27/2008 (00) |  
06/26/2008 (00) | 06/25/2008 (00) | 06/24/2008 (00) | 06/23/2008 (00)

### BAR EHZ SC : Barrett

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

### BMT EHZ SC : Bear Mountains

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

### CAR EHZ SC : Carthage

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

### CARB BHE SC : Carthage Broadband Z

11/14/2007 (00) | 11/13/2007 (00) | 11/12/2007 (00) | 11/11/2007 (00) | 11/10/2007 (00) |  
11/09/2007 (00) | 11/08/2007 (00) | 11/07/2007 (00) | 11/06/2007 (00) | 11/05/2007 (00) |  
11/04/2007 (00) | 11/03/2007 (00) | 11/02/2007 (00) | 11/01/2007 (00)

### CARB BHN SC : Carthage Broadband N

11/14/2007 (00) | 11/13/2007 (00) | 11/12/2007 (00) | 11/11/2007 (00) | 11/10/2007 (00) |  
11/09/2007 (00) | 11/08/2007 (00) | 11/07/2007 (00) | 11/06/2007 (00) | 11/05/2007 (00) |  
11/04/2007 (00) | 11/03/2007 (00) | 11/02/2007 (00) | 11/01/2007 (00)

### CARB BHZ SC : Carthage Broadband E

11/14/2007 (00) | 11/13/2007 (00) | 11/12/2007 (00) | 11/11/2007 (00) | 11/10/2007 (00) |  
11/09/2007 (00) | 11/08/2007 (00) | 11/07/2007 (00) | 11/06/2007 (00) | 11/05/2007 (00) |  
11/04/2007 (00) | 11/03/2007 (00) | 11/02/2007 (00) | 11/01/2007 (00)

### CBET EHZ SC : Carlsbad East Tower

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)



**CBKS BHZ US : Cedar Bluffs, KS**

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

**CL2B EHZ SC : Gnome Location**

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

**CL7 EHZ SC : WIPP Site**

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

**CPRX EHZ SC : Cap Rock**

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

**DAG EHZ SC : Dagger Draw**

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

**GDL2 EHZ SC : Guadalupe Mountains**

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

**HTMS EHZ SC : Hat Mesa**

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

**ISCO BHZ US : Idaho Springs, CO**

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

**LAZ EHZ SC : Sierra Ladrones**

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

**LEM EHE SC : Lemitar E**

j

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

**LEM EHN SC : Lemitar N**

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

**LEM EHZ SC : Lemitar Z**

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

**LPM EHZ SC : Los Pinos Mountains**

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

**MLM EHZ SC : Mesa Lucero**

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

**SBY EHZ SC : South Baldy**

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

**SDCO BHZ US : Sand Dunes National Park, CO**

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

**SMC EHZ SC : Southern Magdalena Mountains**

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

**SRH EHZ SC : Seven River Hills**

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

**SSS EHZ SC : San Simon Sink**

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |



07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

**WIS IS1 SC : Workman Infrasound**

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

**WTX EHZ SC : Wood's Tunnel (NMT)**

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

**WUAZ BHZ US : Wupatki, AZ**

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

**Y22D BHE TA : IRIS PASSCAL, Socorro, NM**

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

**Y22D BHN TA : IRIS PASSCAL, Socorro, NM**

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

**Y22D BHZ TA : IRIS PASSCAL, Socorro, NM**

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

**S21A BHE TA : Coal Bank Pass, CO**

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

**S21A BHN TA : Coal Bank Pass, CO**

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

**S21A BHZ TA : Coal Bank Pass, CO**

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |



07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

**121A BHE TA : Cook's Peak, NM**

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

**121A BHN TA : Cook's Peak, NM**

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

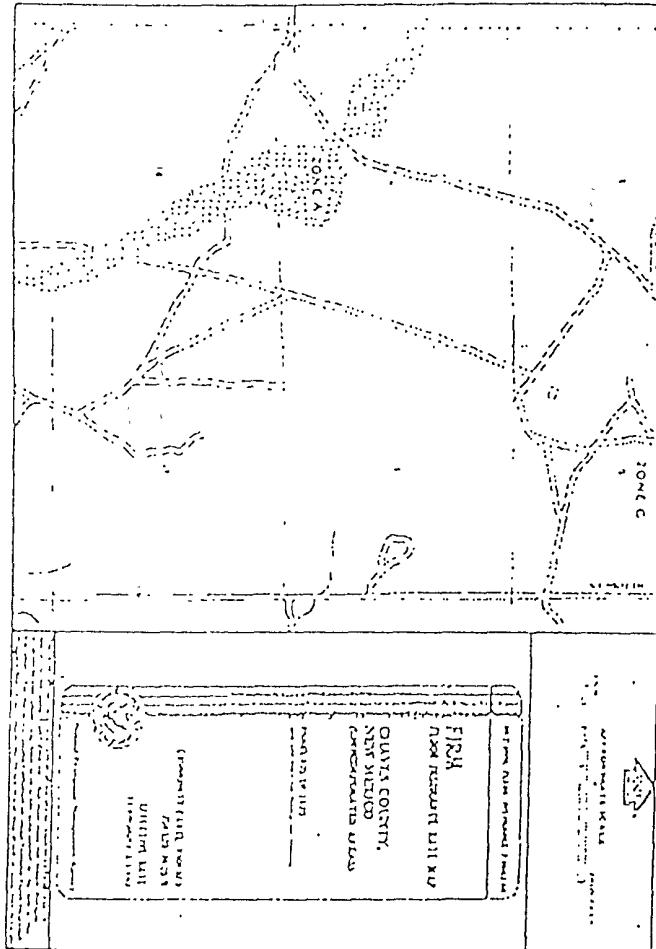
**121A BHZ TA : Cook's Peak, NM**

07/14/2008 (00) | 07/13/2008 (00) | 07/12/2008 (00) | 07/11/2008 (00) | 07/10/2008 (00) |  
07/09/2008 (00) | 07/08/2008 (00) | 07/07/2008 (00) | 07/06/2008 (00) | 07/05/2008 (00) |  
07/04/2008 (00) | 07/01/2008 (00) | 06/30/2008 (00) | 06/29/2008 (00)

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LL & E B FEDERAL #2  
 1650' FNL & 1980' FEL, SW 1/4 NW 1/4, Unit G, SEC12, T6S, R22E  
 API: 30-005-63794

BEVERLY SCVIEWET



KEY TO MAP	
SPECIAL FLOOD HAZARD AREA	
Zone A	
EXPLANATION OF ZONE DESIGNATIONS	
ZONE	EXPLANATION
A	Areas of 100-year flood; data flood elevations and flood hazard fraction not determined.
B	Areas of minimal flooding. (No shading)
C	Areas of undetermined, but possible, flood hazards.
V	Areas of 100-year coastal flood with velocity 1 wave

Siting Requirement K.