

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

*Handwritten initials*

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.  
For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Closed-Loop System, Below-Grade Tank, or  
Proposed Alternative Method Permit or Closure Plan Application

**S**

AUG - 8 2008  
OCD-ARTESIA

- 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: McKay Oil Corporation OGRID #: 14424  
Address: PO Box 2014, Roswell, NM 88201-2014  See Conditions of   
Facility or well name: Miller C Federal #2 Approval attached.  
API Number: 30-005-63981 OCD Permit Number: \_\_\_\_\_  
U/L or Qtr/Qtr SW1/4 NW1/4 Section 7 Township 6S Range 23E County: Chaves  
Center of Proposed Design: Latitude 33°48' North Longitude 104° 39' West NAD:  1927  1983  
Surface Owner:  Federal  State  Private  Tribal Trust or Indian Allotment

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: 2,565 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.

**ENTERED**  
*Handwritten signature*

6

**Fencing:** Subsection D of 19.15.17.11 NMAC (*Applies to permanent pits, temporary pits, and below-grade tanks*)

- Chain link, six feet in height, two strands of barbed wire at top (*Required if located within 1000 feet of a permanent residence, school, hospital, institution or church*)
- Four foot height, four strands of barbed wire evenly spaced between one and four feet
- Alternate. Please specify \_\_\_\_\_

7.

**Netting:** Subsection E of 19.15.17.11 NMAC (*Applies to permanent pits and permanent open top tanks*)

- Screen  Netting  Other \_\_\_\_\_
- Monthly inspections (If netting or screening is not physically feasible)

8.

**Signs:** Subsection C of 19.15.17.11 NMAC

- 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers
- Signed in compliance with 19.15.3.103 NMAC

9.

**Administrative Approvals and Exceptions:**

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

**Please check a box if one or more of the following is requested, if not leave blank:**

- Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval.
- Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

10.

**Siting Criteria (regarding permitting):** 19.15.17.10 NMAC

**Instructions:** *The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of 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.<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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).<br>- Topographic map; Visual inspection (certification) of the proposed site   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.<br>( <i>Applies to temporary, emergency, or cavitation pits and below-grade tanks</i> )<br>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><input type="checkbox"/> NA |
| Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.<br>( <i>Applies to permanent pits</i> )<br>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input checked="" type="checkbox"/> 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.<br>- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.<br>- Written confirmation or verification from the municipality; Written approval obtained from the municipality  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                |
| Within 500 feet of a wetland.<br>- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                |
| Within the area overlying a subsurface mine.<br>- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                |
| Within an unstable area.<br>- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                |
| Within a 100-year floodplain.<br>- FEMA map  | <input type="checkbox"/> Yes <input checked="" 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: 30-005-64002 or Permit Number: 0208123

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 indentify 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: Carol Shanks Date: 8/7/2008

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 Mike Brennan Approval Date: SEP 19 2008

Title: OCD District II OCD Permit Number: 0208529

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 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.

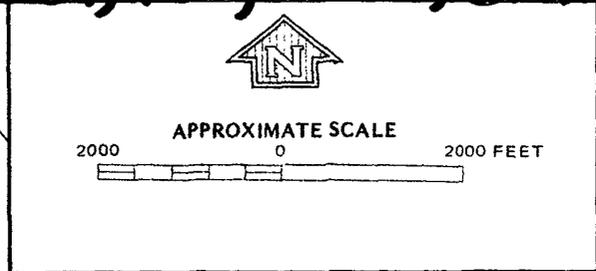
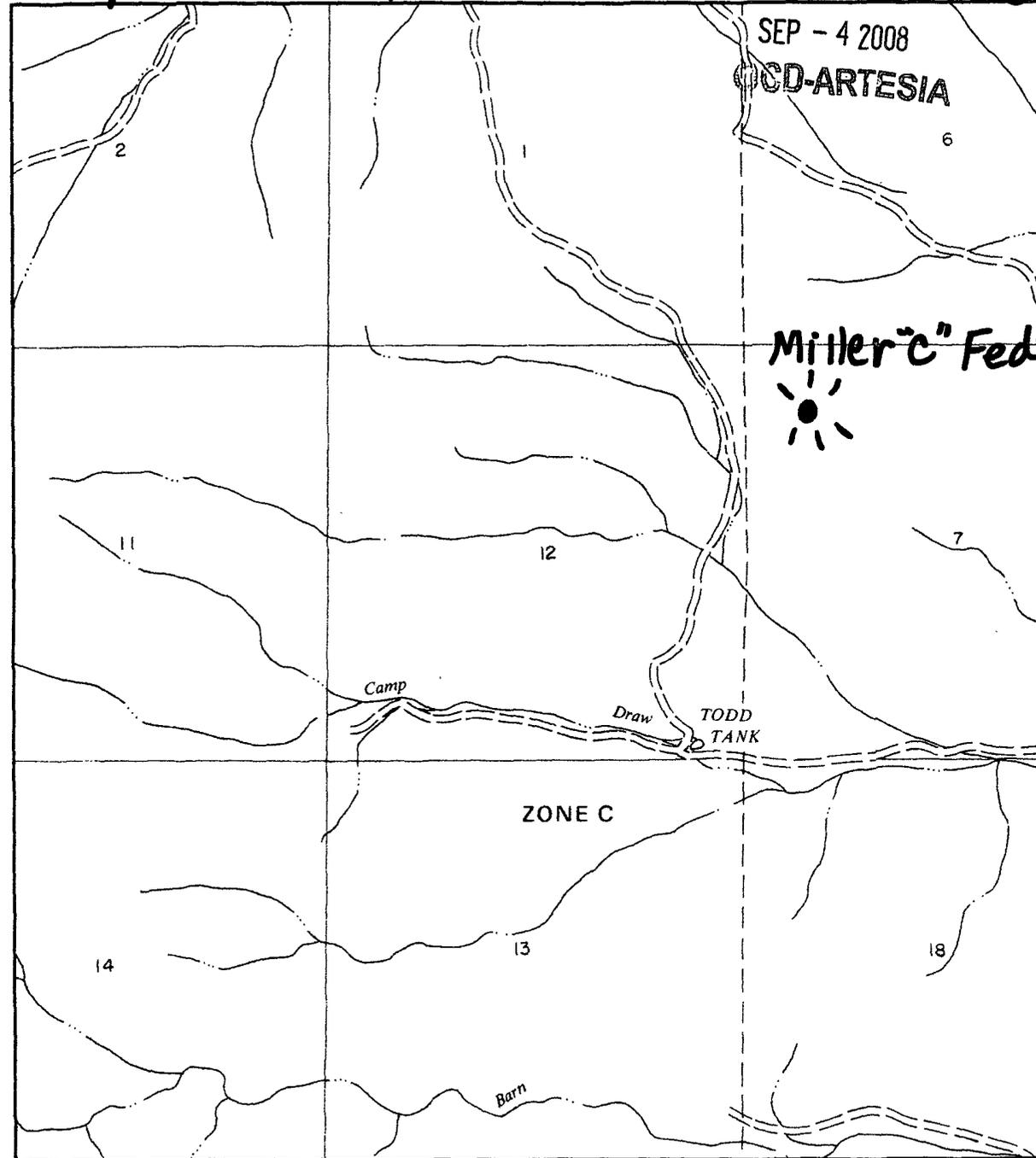
Sample analyses of pit contents are to be submitted to NMOCD and approval obtained prior to commencement of onsite disposal operations. In the event analytical requirements are not met, the alternative closure method will be required.

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



McKay Oil Corporation

Miller "C" Fed #2  
SEC 7, T6S, R23E, Chaves Co.



**NATIONAL FLOOD INSURANCE PROGRAM**

**FIRM**  
FLOOD INSURANCE RATE MAP

**CHAVES COUNTY,  
NEW MEXICO**  
(UNINCORPORATED AREAS)

**PANEL 600 OF 1625**  
(SEE MAP INDEX FOR PANELS NOT PRINTED)

**COMMUNITY-PANEL NUMBER**  
350125 0600 B

**EFFECTIVE DATE:**  
FEBRUARY 2, 1983



Federal Emergency Management Agency

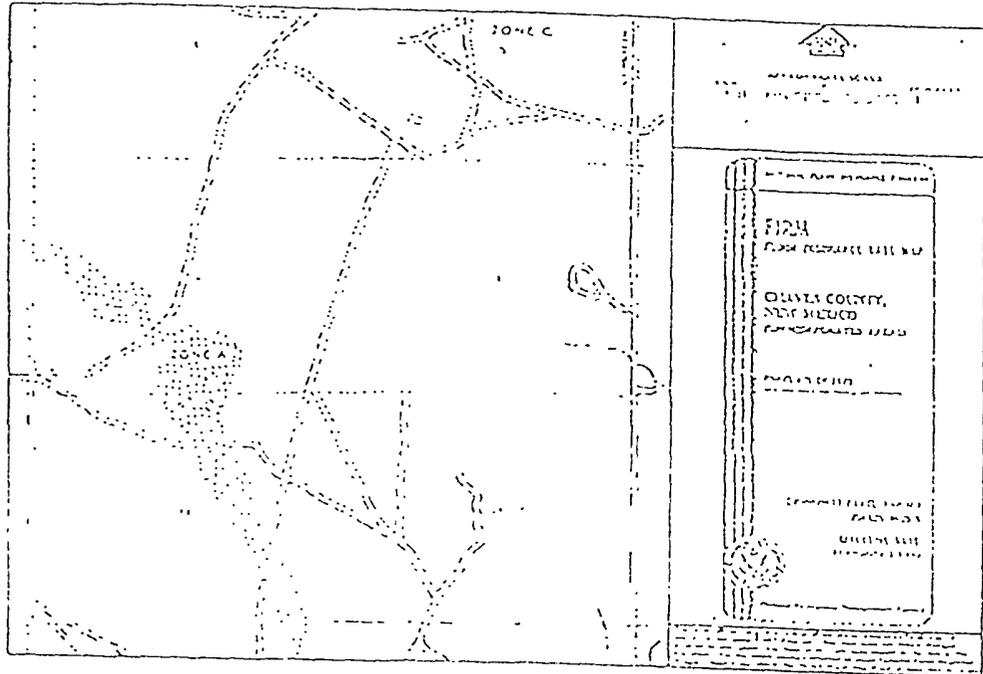
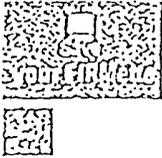
This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.msc.fema.gov](http://www.msc.fema.gov)

Siting Requirement (K)

MCKAY OIL CORPORATION - MILLER C FEDERAL #2  
 60' FNL & 660' FWL, SW 1/4NW 1/4, Lot 2, SEC 7, T6S, R23E  
 API: 30-005-63981

Siting Requirement k,

REVA - MISC Viewer



KEY TO MAP

SPECIAL FLOOD HAZARD AREA

ZONE A

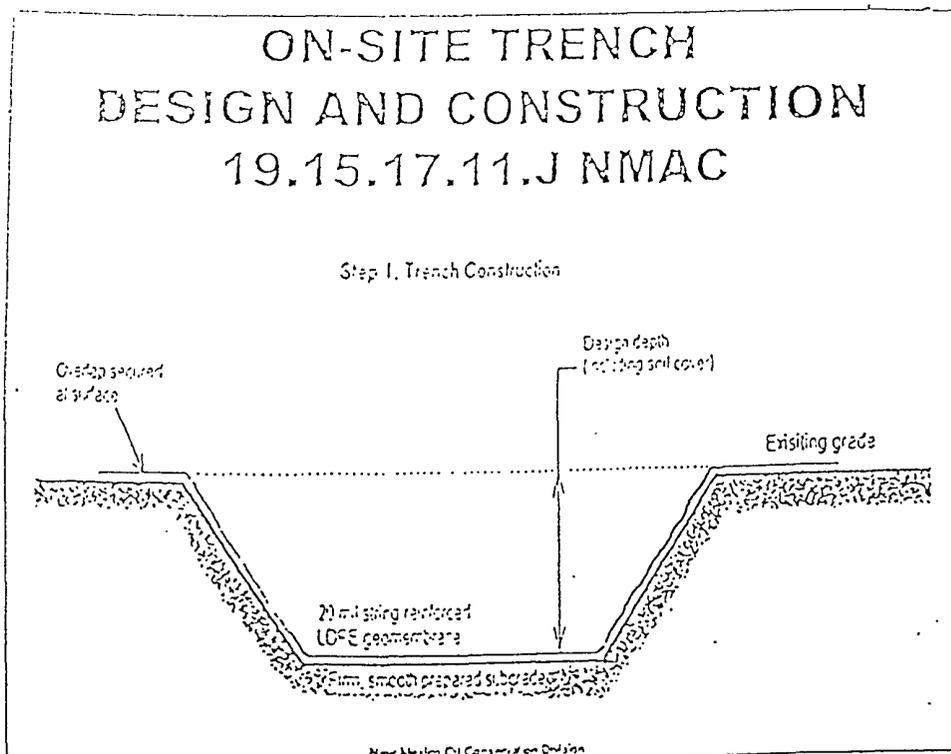
EXPLANATION OF ZONE DESIGNATIONS

| ZONE | EXPLANATION   |
|------|---|
| A    | Areas of 100 year flood; base flood elevations and flood hazard factors not determined. |
| C    | Areas of minimal flooding (No shading)  |
| D    | Areas of undetermined, but possible, flood hazards.                                     |
| V    | Areas of 100 year coastal flood with velocity (wave)                                    |

**PIT DESIGN AND CONSTRUCTION SPECIFICATIONS (19.15.17.11)**

**General Specifications**

1. Any topsoil, which can sustain plant vegetation, will be bladed and piled for future rehabilitation.
2. The location slopes very slightly to the east and southeast.
3. The 50' X 100' pit shall be constructed and maintained so that runoff water from outside the location is not allowed to enter the pit. The berms surrounding the entire perimeter of the pit shall extend a minimum of two (2) feet above ground level. At no time will standing fluids in the pit be allowed to rise above ground level.
4. Pit will be properly constructed on firm unyielding base, free of large rocks, debris and sharp edges to support all liquids and prevent tears.
5. A 20 MIL, low linear density polyethylene (LLDPE), string-reinforced liner, with factory-welded seams will be placed on excavated ground bed by qualified a qualified backhoe service. Liner will be large enough to reduce stress-strain on the liner.
6. Anchor trench will be 18" deep and all edges anchored securely.
7. A four-foot high, four-stranded barbed wire fence, evenly spaced between 4', will be erected around 3 sides on three (3) sides during drilling operations. The fourth side shall be fenced immediately upon rig release.
8. A well sign has been placed at entrance of facility, thus Operator is exempt from placing an additional sign on location, per Rule 103, 19.15.3.103, NMAC.



MCKAY OIL CORPORATION - MILLER C FEDERAL #2  
1460' FNL & 660' FWL, SW ¼NW ¼, Lot 2, SEC 7, T6S, R23E  
API: 30-005-63981

McKay Oil Corporation  
P. O. Box 2014  
Roswell, NM 88202

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**PIT OPERATING AND MAINTENANCE PLAN** (19.15.17.12)

**General Specifications**

1. Thru the end of drilling operations, fluid contents will be monitored and reported daily on drilling reports submitted and maintained in Operator's Office.
2. At least two feet of freeboard will be maintained for pit.
3. Only fluids generated during drilling process will be discharged into pit.
4. Pit liner will be inspected daily for tears and/or leaks and for pit liner's integrity.
5. Division office will be notified within 48 hours if damage is discovered and liner will be repaired.
6. Free liquids will be removed from pit within 30 days from the date rig is released.

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**PIT CLOSURE PLAN** (19.15.17.13)

**Onsite Trench burial Closure Method**

1. Operator will remove all liquid contents in 50' X 100' pit and allow to the bottom of pit to dry.
2. Dig trench 2 (north 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.

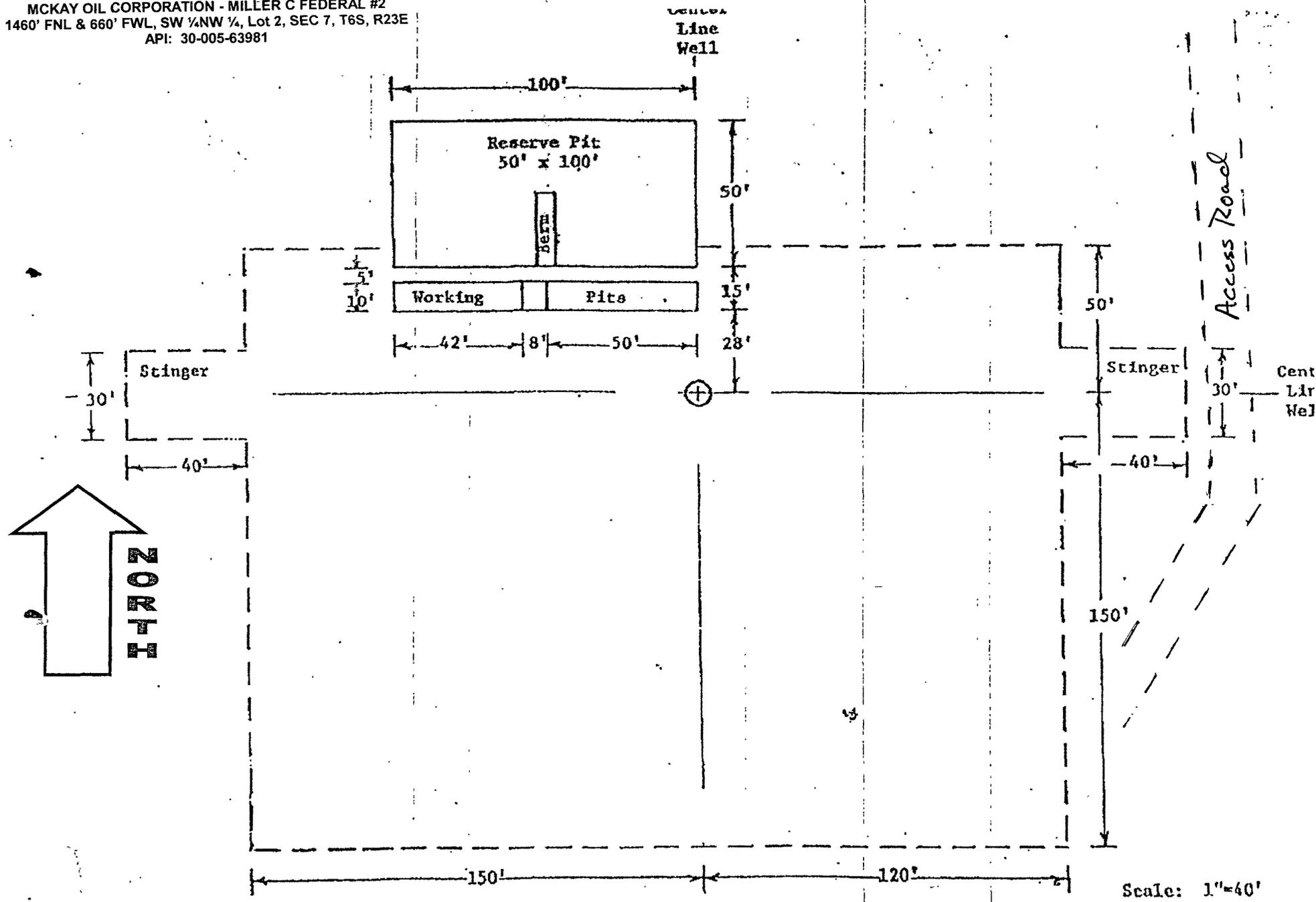
**Cardinal Laboratories (Soil Analysis)**

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

MCKAY OIL CORPORATION - MILLER C FEDERAL #2  
1460' FNL & 660' FWL, SW 1/4 NW 1/4, Lot 2, SEC 7, T6S, R23E  
API: 30-005-63981



Scale: 1"=40'

MCKAY OIL CORPORATION - MILLER C FEDERAL #2  
1460' FNL & 660' FWL, SW ¼NW ¼, Lot 2, SEC 7, T6S, R23E  
API: 30-005-63981

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

---

**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 north 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

MCKAY OIL CORPORATION - MILLER C FEDERAL #2  
1460' FNL & 660' FWL, SW ¼NW ¼, Lot 2, SEC 7, T6S, R23E  
API: 30-005-63981

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.

---

**MCKAY OIL CORPORATION - MILLER C FEDERAL #2  
1460' FNL & 660' FWL, SW ¼NW ¼, Lot 2, SEC 7, T6S, R23E  
API: 30-005-63981**

McKay Oil proposes to air drill the well and open hole test the ABO formation. Fresh water is to be used to pump the cementing plug down. The water will later be displaced with air before drilling out with air and mist for an open-hole completion. A Pit (50' X 100' X 8') was dug and lined with a 12MIL liner in 2005. No fluids were deposited in pit, due to abandonment and subsequent plugging of well (Miller B2) in which pit was initially designed. Background soil samples obtained and pit relined with 20MIL liner in 2008. APD approved, with expiration date of August 2009.

The following attachments are submitted to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved, and the procedures to be followed in rehabilitating the surface after completion of the operation so that a complete appraisal can be made of the environmental effects associated with the operation.

1. C-144 Permit Application
2. Design and Construction Specifications
3. Operating and Maintenance Plan
4. Closure Plan
5. Closure Plan – Alternate Method
6. Previously Approved Design
7. Proof of Surface Owner Notice
8. Siting Requirements
  - a. Ground Water – less than 50' below bottom of buried waste
  - b. Ground Water – between 50' & 100' below bottom of buried waste
  - c. Ground Water – more than 100' below bottom of buried waste
  - d. Within 300' of continuously flowing watercourse, or 200' of other significant lakebed, sinkhole or playa lake.
  - e. Within 300' from a permanent residence, school, hospital, institution, or church.
  - f. Within 500' horizontally of private, domestic fresh water well or spring, or within 1000' horizontally of any other fresh water well or spring.
  - g. Within incorporated municipal boundaries of fresh water well field covered under municipal ordinance.
  - h. Within 500' of a wetland
  - i. Within the area overlying a subsurface mine.
  - j. Within an unstable area.
  - k. Within a 100 yr. floodplain.
9. Maps

AUG 27 2007

Form 3160-3  
(April 2004)

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

|   |   |  |
|---|---|--|
| 1a. Type of work <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER   |   | 7. If Unit or CA Agreement, Name and No  |
| 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 |   | 8. Lease Name and Well No.<br>Miller <input checked="" type="checkbox"/> Fed. #2 |
| 2. Name of Operator<br>McKay Oil Corporation  |   | 9. API Well No.<br>30-005-63981  |
| 3a. Address PO Box 2014<br>Roswell, NM 88202-2014   | 3b. Phone No. (include area code)<br>505-623-4735   | 10. Field and Pool, or Exploratory<br>W. Pecos ABO Slope                         |
| 4. Location of Well (Report location clearly and in accordance with any State requirements *)<br>At surface 1460' FNL & 660' FWL<br>At proposed prod zone   |   | 11. Sec., T R M or Blk and Survey or Area<br>Lot 2, Sec. 7, T6S, R23E            |
| 14. Distance in miles and direction from nearest town or post office*<br>Approximately 25 miles   |   | 12. County or Parish<br>Chaves   |
| 15. Distance from proposed* location to nearest property or lease line, ft (Also to nearest drng unit line, if any) 660'  |   | 13. State<br>NM  |
| 16. No. of acres in lease<br>830.38   | 17. Spacing Unit dedicated to this well<br>160'     |  |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft   | 19. Proposed Depth<br>4300'                         | 20. BLM/BIA Bond No on file  |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc)<br>4216'   | 22. Approximate date work will start*<br>09/01/2007 | 23. Estimated duration<br>7-10 days  |
| 24. Attachments ROSWELL CONTROLLED WATER BASIN  |   |  |

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.
- 2. A Drilling Plan.
- 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)
- 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above)
- 5. Operator certification
- 6. Such other site specific information and/or plans as may be required by the authorized officer

|                |  |                    |
|----------------|--|--------------------|
| 25. Signature  | Name (Printed/Typed)<br>James L. Schultz | Date<br>07/12/2007 |
| Title<br>Agent |  |                    |

|   |                                      |                      |
|---|--------------------------------------|----------------------|
| Approved by (Signature)                                 | Name (Printed/Typed) IS/ Angel Mayes | Date<br>AUG 28 2007  |
| Title<br>Assistant Field Manager,<br>Lands And Minerals | Office<br>ROSWELL FIELD OFFICE       | APPROVED FOR 2 YEARS |

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 U.S.C. 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)

DECLARED WATER BASIN

CEMENT BEHIND THE 85"  
CASING MUST BE CIRCULATED

WITNESS

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS ATTACHED

**MCKAY OIL CORPORATION - MILLER C FEDERAL #2**  
**1460' FNL & 660' FWL, SW ¼NW ¼, Lot 2, SEC 7, T6S, R23E**  
**API: 30-005-63981**

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

**PIT SITING REQUIREMENTS (19.15.17.10)**

**Siting Requirements**

See attachments - applicable to this permit request.

**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.***

- |  |  |
|--|--|
| <p>a. Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.<br/> - 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<br/> - 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.<br/> - 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).<br/> - 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. <i>(Applies to temporary, emergency, or cavitation pits and below-grade tanks)</i><br/> - 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.<br/> - 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.<br/> - Written confirmation or verification from the municipality; Written approval obtained from the municipality</p>  | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input checked="" type="checkbox"/> NA |
| <p>h. Within 500 feet of a wetland.<br/> - 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.<br/> - 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.<br/> - 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.<br/> - FEMA map</p>  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                |

McKay Oil Corporation  
Miller C Federal #2  
SEC 7, T6S, R23E

Siting Requirement a. b. c.

- 1 Per BLM Hydrologist dated July 2008, Ground Water Depth = 620'
- 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 SEC34, as of August 2008.

| SEC 34               |    |    |    |    |    |
|----------------------|----|----|----|----|----|
| 6                    | 5  | 4  | 3  | 2  | 1  |
| 7<br>Miller C Fed #2 | 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 |

IMPORTANT - READ INSTRUCTIONS ON BACK BEFORE FILLING OUT THIS FORM.

# Declaration of Owner of Underground Water Right

~~CHAVES COUNTY~~ RA

~~WATER RIGHT~~  
BASIN NAME:

Declaration No. ~~02-199~~ 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 1/4 NW 1/4 NW 1/4 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 1 1/2 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 | Acres 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 as since the 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'.

SATELITE ENGINEER OFFICE  
ROSWELL, NEW MEXICO  
JUN 5 09 11 00

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 Matthews Notary Public

MCKAY OIL CORPORATION - MILLER C FEDERAL #2  
 1460' FNL & 660' FWL, SW ¼NW ¼, Lot 2, SEC 7, T6S, R23E  
 API: 30-005-63981

New Mexico Office of the State Engineer  
 POD Reports and Downloads

*Siting  
 Requirement a.b.c.*

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

POD / SURFACE DATA REPORT 07/31/2008

| DB File Nbr | Use | Diversion | Owner                | POD Number | Source  | (quarters are 1=NW 2=NE 3=SW 4=SE) |     |     |   | X Y are in Feet |   |      |   |
|-------------|-----|-----------|----------------------|------------|---------|------------------------------------|-----|-----|---|-----------------|---|------|---|
|             |     |           |                      |            |         | Tws                                | Rng | Sec | q | q               | q | Zone | X |
| RA_08359    | STK | 6         | BERTHA MILLER        | RA_08359   |         | 06S                                | 22E | 02  | 1 | 2               |   |      |   |
| RA_08751    | STK | 3         | INA CORN MILLER      | RA_08751   |         | 06S                                | 22E | 23  | 1 | 3               | 2 |      |   |
| RA_09572    | STK | 3         | SACRA MINERALS, INC. | RA_09572   | Shallow | 06S                                | 22E | 20  | 2 | 1               | 4 |      |   |
| RA_09794    | STK | 3         | GLAZE M. SACRA       | RA_09794   |         | 06S                                | 22E | 20  | 4 | 3               | 3 |      |   |
| RA_09795    | STK | 3         | GLAZE M. SACRA       | RA_09795   |         | 06S                                | 22E | 22  | 3 | 2               | 2 |      |   |
| RA_09821    | STK | 0         | GLAZE M. SACRA       | RA_09821   |         | 06S                                | 22E | 17  | 4 | 4               | 1 |      |   |
| RA_09822    | STK | 3         | INA CORN MILLER      | RA_09822   |         | 06S                                | 22E | 34  | 2 | 2               | 1 |      |   |
| RA_10003    | STK | 3         | DAVID CORN           | RA_10003   |         | 06S                                | 22E | 17  | 4 | 4               | 1 |      |   |

Record Count: 8

MCKAY OIL CORPORATION - MILLER C FEDERAL #2  
 1460' FNL & 660' FWL, SW 1/4NW 1/4, Lot 2, SEC 7, T6S, R23E  
 API: 30-005-63981

siting requirement d,

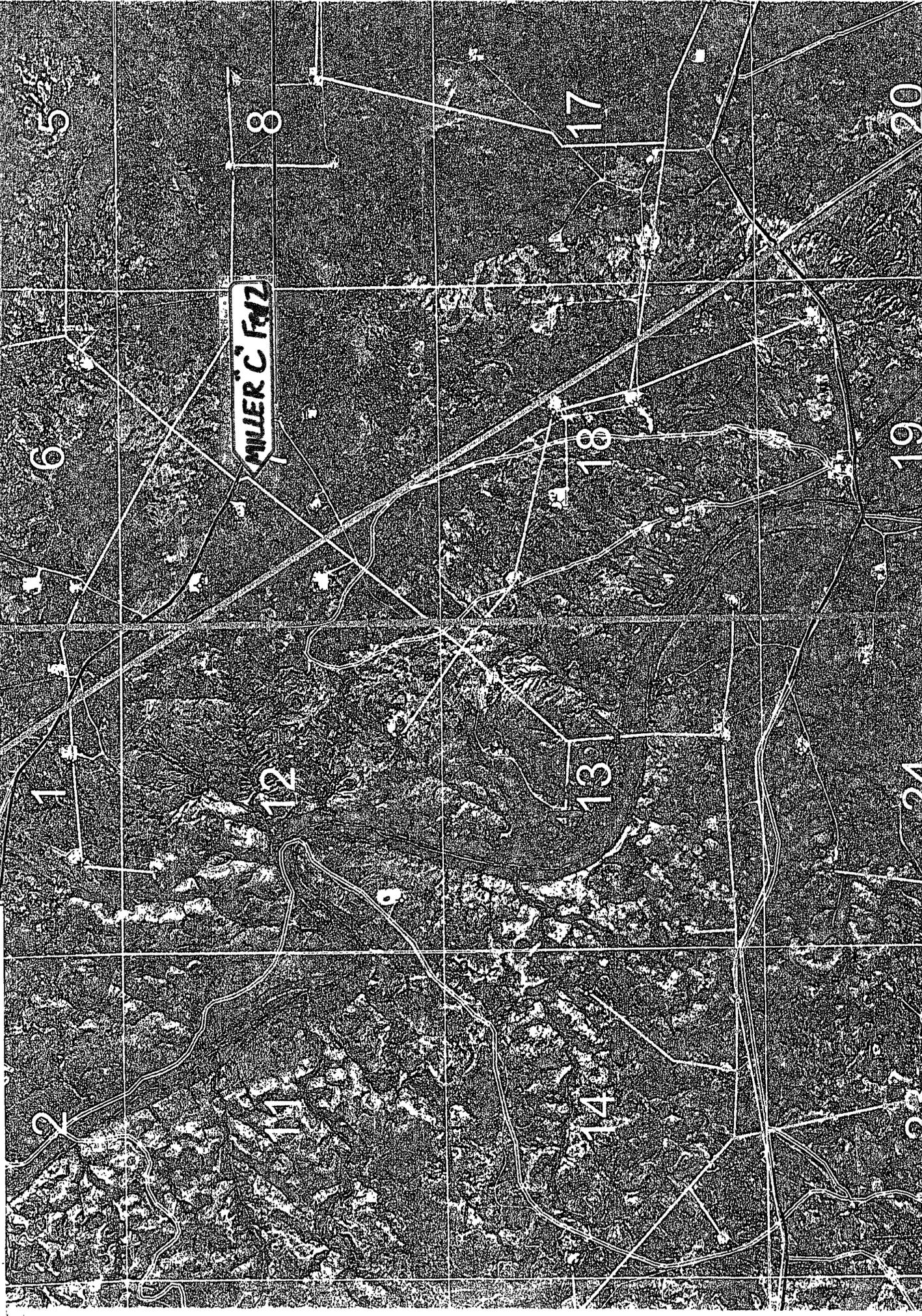


BUREAU OF LAND MANAGEMENT  
 LAND STATUS LEGEND

|  |        |  |        |   |        |   |        |  |        |
|--|--------|--|--------|---|--------|---|--------|--|--------|
| National Parks and Monuments . . . . .                             | [NONE] | Bankhead Jones Land Use Lands (L.U. Lands) . . . . . | [NONE] | Water and Power Resources Service               | [NONE] | Department of Energy (DOE) . . . . .  | [NONE] | State, County, City, Wildlife, Park and Outdoor Recreation Areas . . . . . | [NONE] |
| Indian Lands or Reservations . . . . .                             | [NONE] | Tennessee Valley Authority . . . . .                 | [NONE] | Power Withdrawals and Classifications . . . . . | [NONE] | Origin & California Lands (O&C Lands) Administered By US Forest Service . . . . . | [NONE] | Acquired Lands (By Administering Agency) . . . . .                         | [NONE] |
| Military Reservations and Withdrawals Corps of Engineers . . . . . | [NONE] | Patented Lands . . . . .                             | [NONE] | Federal Agency Protective Withdrawals . . . . . | [NONE] | Rails - Air Facilities . . . . .  | [NONE] |  |        |
| Wildlife Refuges . . . . .   | [NONE] | State Lands . . . . .                                | [NONE] | Public Water Reserves . . . . .                 | [NONE] | Miscellaneous . . . . .   | [NONE] |  |        |

MCKAY OIL CORPORATION - MILLER C FEDERAL #2  
1460' FNL & 660' FWL, SW 1/4NW 1/4, Lot 2, SEC 7, T6S, R23E  
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siting requirement e.



New Mexico Office of the State Engineer  
POD Reports and Downloads

Township 06S Range 22E Sections 9

NAD27  X  Y Zone  Search Radius

County CH  Basin  Number Suffix

Owner Name (First) \_\_\_\_\_ (Last) \_\_\_\_\_  Non-Domestic  Domestic  All

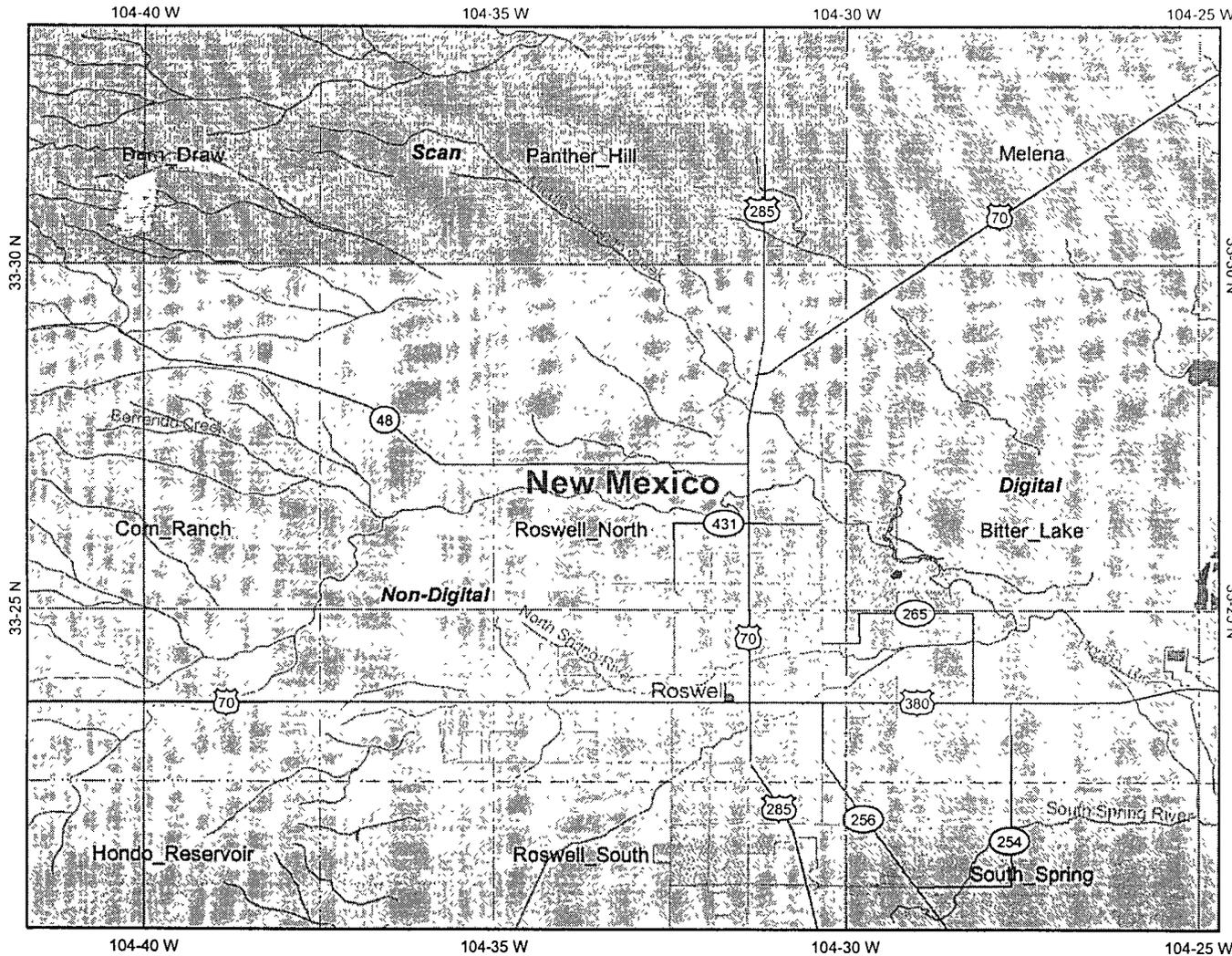
POD / SURFACE DATA REPORT 08/07/2008

(acre ft per annum) (quarters are 1=NW 2=NE 3=SW 4=SE)  
 DB File Nbr Use Diversion Owner POD Number (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

sitting requirement f,

# Internet Mapping Framework



## Legend

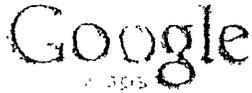
- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Cities
- USGS Quad Index 24K
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Waterbodies**
- LAKE/POND
- RESERVOIR
- STREAM/RIVER
- NHD Streams
- Counties 100K
- Urban Areas 300K
- States 100K
- South America
- North America



Scale: 1:169,243

Map center: 33°26' N, 104°33' W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION



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



- A Mosaic Potash Carlsbad  
1361 Potash Mines Rd, Carlsbad, NM - (575) 887-2871
- B Intrepid Potash East  
210 Red Cloud, Carlsbad, NM - (575) 887-1117
- C Highlands Gas  
260 Potash Mines Rd, Loving, NM - (575) 745-2315
- D Intrepid Potash  
1996 Potash Mines Rd, Carlsbad, NM - (575) 887-5591
- E Intrepid Potash  
6288 Hobbs Hwy, Carlsbad, NM - (575) 885-3134

No mining activity in Chaves County, New Mexico

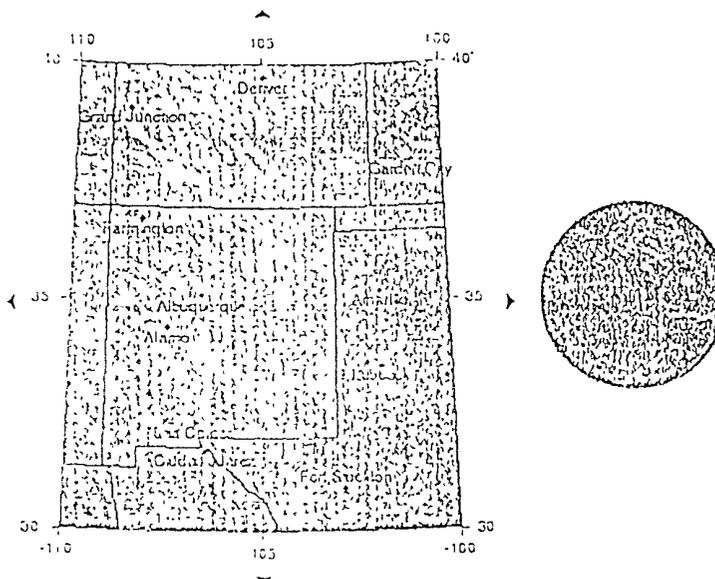
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1460' FNL & 660' FWL, SW 1/4NW 1/4, Lot 2, SEC 7, T6S, R23E  
API: 30-005-63981

siting requirement i.



Earthquake Hazards Program

10-degree Map Centered at 35°N, 105°W



last hour  day  week  6  5  4  2.5  ?

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 M2.5/4+ Earthquake list](#)
- [World M5+ Earthquake list](#)

Did you feel it?

- [Report an Earthquake](#)

Back

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

MCKAY OIL CORPORATION - MILLER C FEDERAL #2  
1460' FNL & 660' FWL, SW 1/4 NW 1/4, Lot 2, SEC 7, T8S, R23E  
API: 30-005-63981

Siting Requirement





## 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/recenteqsww/Maps/degree10/255\\_35\\_eqs.php](http://earthquake.usgs.gov/eqcenter/recenteqsww/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



## 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 building 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)

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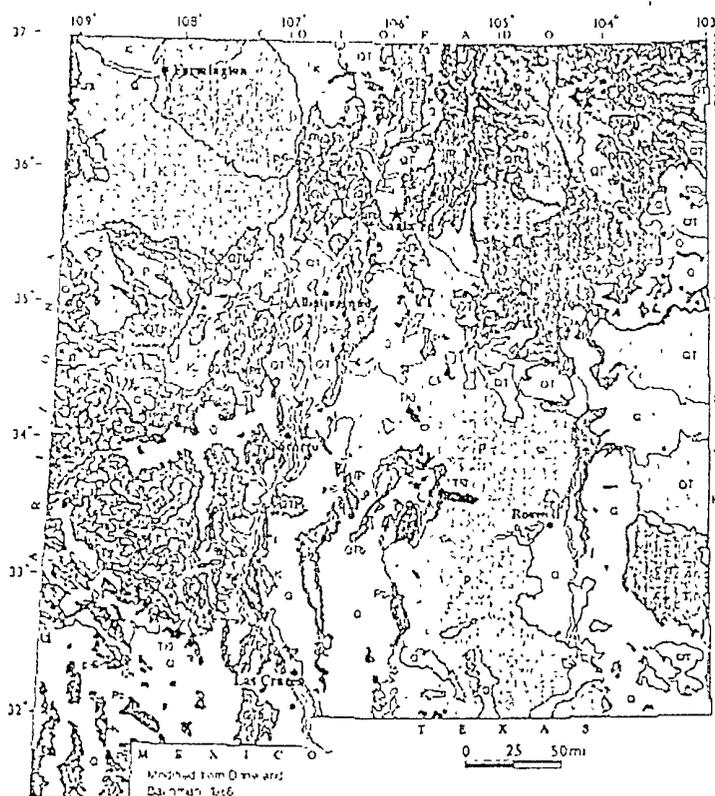


## Geologic Map of New Mexico

Geologic Maps of the U.S. States

[Back to the New Mexico page](#)

### GENERALIZED GEOLOGIC MAP OF NEW MEXICO



|                              |               | EXPLANATION |         |
|------------------------------|---------------|-------------|---------|
| ERA                          | PERIOD        | SEDIMENTARY | IGNEOUS |
| CENOZOIC<br>65 my-present    | QUATERNARY    | q           | qt      |
|                              | TERTIARY      | tr          | tr      |
| MESOZOIC<br>245 my-65 my     | CRETACEOUS    | cr          | cr      |
|                              | JURASSIC      | ju          | ju      |
|                              | TRIASSIC      | tr          | tr      |
| PALEOZOIC<br>544 my-245 my   | PERMIAN       | pe          | pe      |
|                              | PENNSYLVANIAN | ps          | ps      |
|                              | MISSISSIPPIAN | ms          | ms      |
|                              | DEVONIAN      | de          | de      |
|                              | SILURIAN      | sl          | sl      |
|                              | ORDOVICIAN    | or          | or      |
| PRECAMBRIAN<br>4.5 by-544 my | CAMBRIAN      | ca          | ca      |

|  |   |
|--|---|
|  | Quaternary sediments                      |
|  | Quaternary-Tertiary sediments             |
|  | Quaternary rhyolites and tuffs            |
|  | Quaternary-Tertiary basalts and andesites |
|  | Tertiary sediments                        |
|  | Tertiary volcanics                        |
|  | Tertiary-Cretaceous Intrusives            |
|  | Cretaceous sediments                      |
|  | Jurassic-Triassic                         |
|  | Permian                                   |
|  | Pennsylvanian                             |
|  | Paleozoic undifferentiated                |
|  | Precambrian                               |

[Back to the New Mexico page](#)

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- What Is Geology?
- Identify Rocks

C

## 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

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 Infrasond

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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C

MCKAY OIL CORPORATION - MILLER C FEDERAL #2  
 1460' FNL & 660' FWL, SW 1/4NW 1/4, Lot 2, SEC 7, T6S, R23E  
 API: 30-005-63981

Siting Requirement k.

EMA MSC Viewer

