State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division AUG - 1 201220 South St. Francis Dr. OCD ARTES Santa Fe, NM 87505

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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

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

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

Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method

Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system,
below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: McKay Oil Corporation OGRID #: 14424
Address: PO Box 2014, Roswell, NM 88201-2014
Facility or well name: Lookout C Fed #8
API Number: 30-005-* 6404 OCD Permit Number:
U/L or Qtr/Qtr SE1/4/NE1/4 Section 9 Township 6S Range 22E County: Chaves
Center of Proposed Design: Latitude 33°81' North Longitude 104°71' West NAD: 1927 1983
Surface Owner: ☑ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment
Pit: Subsection F or G of 19.15.17.11 NMAC Temporary:
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
Liner Seams: Welded Factory Other
Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: bbl Type of fluid:
Tank Construction material:
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other
Liner type: Thicknessmil
5. Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school,	hospital,
institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify	
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. Circum C. C. (10.15.17.11.) DMAC	
Signs: Subsection C of 19.15.17.11 NMAC 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
☐ 12 X 24 , 2 Tettering, providing Operator's name, site location, and emergency telephone numbers ☐ Signed in compliance with 19.15.3.103 NMAC	
□ Signed in compliance with 17.13.3.103 NWAC	
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accematerial are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approffice or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	opriate district approval.
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ⊠ No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ⊠ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☑ No ☐ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits)	☐ Yes ☐ No 図 NA
- 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 search; Visual inspection (certification) of the proposed site	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ⊠ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ⊠ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes 🖾 No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ⊠ No
Within a 100-year floodplain FEMA map	☐ Yes ⊠ No

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklists Instructions: Each of the following items must be attached to the application. Please indicate, by a chattached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subs Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (5) Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.1 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 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: 30-005-64002 or	seck mark in the box, that the documents are section B of 19.15.17.9 NMAC 2) of Subsection B of 19.15.17.9 NMAC 0 NMAC uirements of Subsection C of 19.15.17.9 NMAC
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 cheattached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragesting Criteria Compliance Demonstrations (only for on-site closure) - 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 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number:	graph (3) of Subsection B of 19.15.17.9 requirements of 19.15.17.10 NMAC quirements of Subsection C of 19.15.17.9 NMAC
Previously Approved Operating and Maintenance Plan API Number: above ground steel tanks or haul-off bins and propose to implement waste removal for closure)	(Applies only to closed-loop system that use
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 characterization Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.1 Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMA Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15 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. Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17. Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and	9 NMAC 10 NMAC AC .17.11 NMAC 9.15.17.11 NMAC
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure. Type: ☐ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☐ Below—☐ 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 Formation of the proposed Closure Method (Exceptions must be submitted to the Santa Formation of the proposed Closure Method (Exceptions must be submitted to the Santa Formation of the proposed Closure Method (Exceptions must be submitted to the Santa Formation of the proposed Closure Method (Exceptions must be submitted to the Santa Formation of the proposed Closure Method (Exceptions must be submitted to the Santa Formation of the proposed Closure Method (Exceptions must be submitted to the Santa Formation of the proposed Closure Method (Exceptions must be submitted to the Santa Formation of the proposed Closure Method (Exceptions must be submitted to the Santa Formation of the proposed Closure Method (Exceptions must be submitted to the Santa Formation of the proposed Closure Method (Exceptions must be submitted to the Santa Formation of the proposed Closure Method (Exceptions must be submitted to the Santa Formation of the proposed Closure Method (Exceptions must be submitted to the Santa Formation of the proposed Closure Method (Exceptions must be submitted to the Santa Formation of the proposed Closure Method (Exceptions must be submitted to the Santa Formation of the proposed Closure Method (Exceptions must be submitted to the Santa Formation of the proposed Closure Method (Exceptions must be submitted to the Santa Formation of the proposed Closure Method (Exceptions must be submitted to the Santa Formation of the proposed Closure Method (Exceptions must be submitted to the Santa Fo	grade Tank Closed-loop System
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of 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 ☐ 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 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 N	n F of 19.15.17.13 NMAC tion H of 19.15.17.13 NMAC C

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.I Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if 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 set 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	AC
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 sor provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate disconsidered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Just demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	trict office or may be
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ⊠ No ☐ NA
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ⊠ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. 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 p	lan. 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 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 canr Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	

19.	
Operator Application Certification: I hereby certify that the information submitted with this application is true, accura	te and complete to the best of my knowledge and belief.
Name (Print): Carol Shanks	Title: Production Analyst
	Date: 8/1/08
Signature: 000 Signature	Date: 07 () 0 8
e-mail address: carol@mckayoil.com	Telephone: (575) 623-4735
20. OCD Approval: Permit Application (including closure plan) Closure Pla	n (only) OCD Conditions (see attachment)
OCD Representative Signature 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Approval Date: 8-7-08
Title:	Approval Date: 8-7-03 OCD Permit Number: 0208265
	OCD Fermit Number: UDO 200
21. <u>Closure Report (required within 60 days of closure completion)</u> : Subsection K	
Instructions: Operators are required to obtain an approved closure plan prior to The closure report is required to be submitted to the division within 60 days of th	
section of the form until an approved closure plan has been obtained and the clo	
	Closure Completion Date:
22. Closure Method: Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternat ☐ If different from approved plan, please explain.	ive Closure Method Waste Removal (Closed-loop systems only)
23. Closure Report Regarding Waste Removal Closure For Closed-loop Systems T	hat Utilize Ahove Ground Steel Tanks or Haul-off Rins Only
Instructions: Please indentify the facility or facilities for where the liquids, drilli 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 Yes (If yes, please demonstrate compliance to the items below) \(\subseteq \text{No} \)	n areas that will not be used for future service and operations?
Required for impacted areas which will not be used for future service and operatio Site Reclamation (Photo Documentation)	ns:
☐ Soil Backfilling and Cover Installation	
Re-vegetation Application Rates and Seeding Technique	
 24. Closure Report Attachment Checklist: Instructions: Each of the following item 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) 	ns must be attached to the closure report. Please indicate, by a check
☐ 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 Longitu	de NAD: 🔲 1927 🔲 1983
25. Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure rep belief. I also certify that the closure complies with all applicable closure requireme	port is true, accurate and complete to the best of my knowledge and ints and conditions specified in the approved closure plan.
Name (Print):	Title:
Signature:	Date:

e-mail address:

Telephone: _

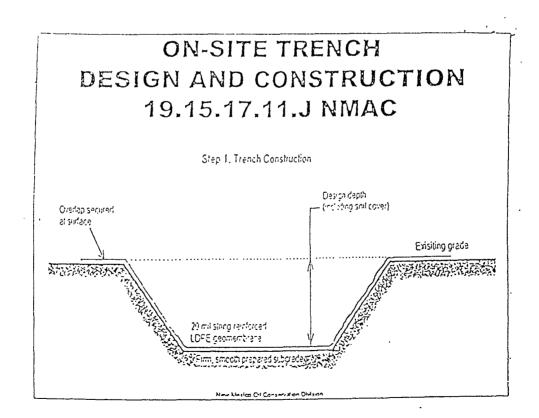
MCKAY OIL CORPORATION – LOOKOUT C FED #8 990' FEL & 2310' FNL, SE'/4NE'/4, Unit H, SEC9, T6S, R22E API: 30-005-*

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

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 40' X 60' 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.



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MCKAY OIL CORPORATION – LOOKOUT C FED #8 990' FEL & 2310' FNL, SE¼NE¼, Unit H, SEC9, T6S, R22E API: 30-005-*

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

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.

MCKAY OIL CORPORATION – LOOKOUT C FED #8 990' FEL & 2310' FNL, SE¼NE¼, Unit H, SEC9, T6S, R22E API: 30-005-*

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

PIT CLOSURE PLAN (19.15.17.13)

Onsite Trench burial Closure Method

- 1. Operator will remove all liquid contents in 40' X 60' pit and allow to the bottom of pit to dry.
- 2. Dig trench 2 (<u>east</u> 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.

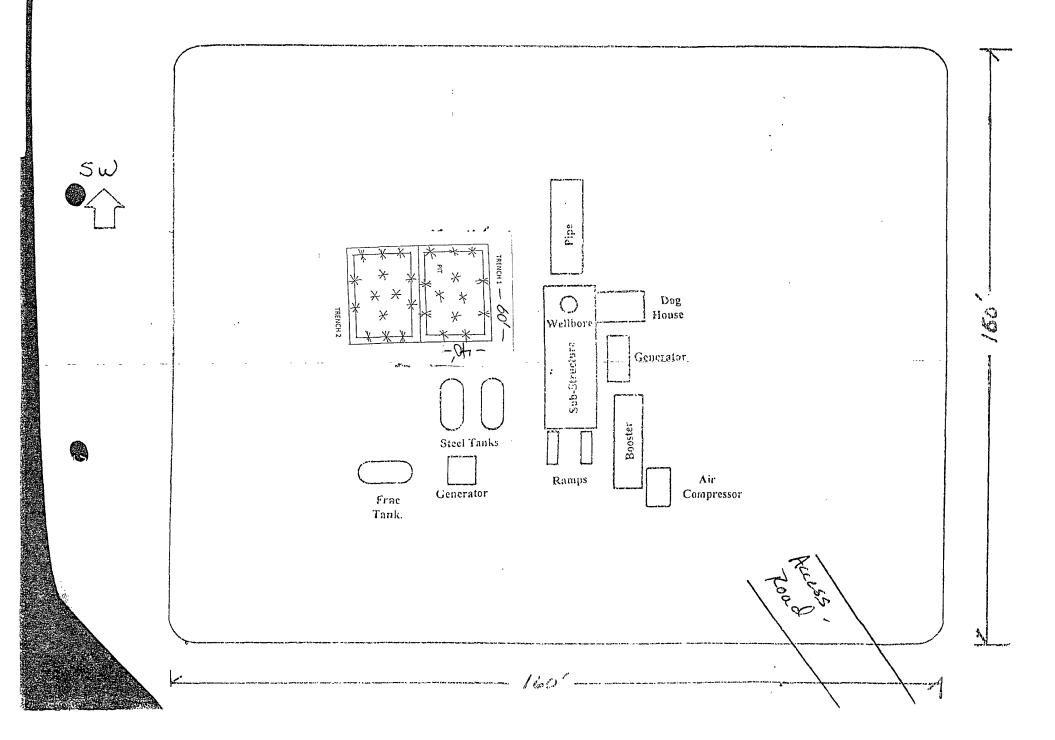
Quality Control

- 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 – LOOKOUT C FED #8 990' FEL & 2310' FNL, SE¼NE¼, Unit H, SEC9, T6S, R22E API: 30-005-*

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 40' X 60' pit and allow the bottom of pit to dry.
- 2. Pile cuttings and original pit liner in Roll-off Box on east 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 – LOOKOUT C FED #8 990' FEL & 2310' FNL, SE¼NE¼, Unit H, SEC9, T6S, R22E API: 30-005-*

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 3160-3 (August 2007)

UNITED STATES

FORM APPROVED OMB No 1004-0137 Expires July 31, 2010

DEPARTMENT OF THE BUREAU OF LAND MAI	INTERIOR			5 Lease Serial No. NM 36192		
APPLICATION FOR PERMIT TO				6 If Indian, Alloted	or Tribe	Name
la. Type of work: DRILL REENT	TER			7 If Unit or CA Agr	eement, Na	ime and No.
lb. Type of Well: Oil Well Gas Well Other	 ✓ si	ingle Zone 🔲 Multi	ple Zone	8. Lease Name and Lookout C Federa		
2 Name of Operator McKay Oil Corporation				9 API Well No.		
3a. Address PO Box 2014 Roswell, NM 88202-2014	3b Phone No 575-623-4	0. (include area code) 735		10 Field and Pool, or W. Pecos ABO Sk	•	у
4. Location of Well (Report location clearly and in accordance with a	nty State requiren	nents *)		11. Sec., T. R. M. or I	31k. and Su	rvey or Area
At surface 2310' FNL & 990' FEL				Unit H, Sec. 9, T6	S, R22E	
At proposed prod. zone						
14 Distance in miles and direction from nearest town or post office* Approximately 25 miles				12. County or Parish Chaves		13. State NM
15 Distance from proposed* 990' location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of a 2400.00	acres in lease	17 Spacin 160'	ng Unit dedicated to this	well	
18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft	19 Propose 4300'	d Depth	20 BLM/I	BIA Bond No. on file		
21 Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approxi	mate date work will sta	rt*	23. Estimated duration	n	
4331'	06/15/200	08	_	7-10 days		
·	24. Atta	chments	*			
The following, completed in accordance with the requirements of Onsho	ore Oil and Gas	Order No.1, must be a	ttached to th	is form:		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office) 	ı Lands, the	Item 20 above). 5 Operator certific	cation	ns unless covered by an	·	
25 Signature July	I	(Printed/Typed) es L. Schultz	·		Date 05/15/2	2008
Title Agent						
Approved by (Signature)	Name	(Printed/Typed)			Date	
Title	Office	:			<u> </u>	
Application approval does not warrant or certify that the applicant hol-	ds legal or equi	itable title to those righ	ts in the sub	ject lease which would	entitle the a	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.

MCKAY OIL CORPORATION - LOOKOUT C FED #8 990' FEL & 2310' FNL, SE1/4NE1/4, Unit H, SEC9, T6S, R22E API: 30-005-*

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

PIT SITING REQUIREMENTS (19.15.17.10)

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.	
 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 	☐ Yes ☑ No
 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 	☐ Yes ⊠ No
 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 	⊠ Yes □ No
 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 	☐ Yes ⊠ No
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	☐ Yes ⊠ No
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	☐ Yes ⊠ No
 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 	☐ Yes ☐ No ☑ NA
 h. Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	☐ Yes ⊠ No
 i. Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	☐ Yes ⊠ No
 j. Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ⊠ No
k. Within a 100-year floodplain FEMA map	☐ Yes ⊠ No

McKay Oil Corporation Lookout C Federal #8 SEC 9, T6S, R22E

- 1. Per BLM Hydrologist dated July 2008, Ground Water Depth = 750'
- 2 Per 'Declaration Owner of Underground Water Right No TRN-245907', dated 6/5/92 (*near SEC 11 for comparison) Ground Water Depth = 350' below land surface.

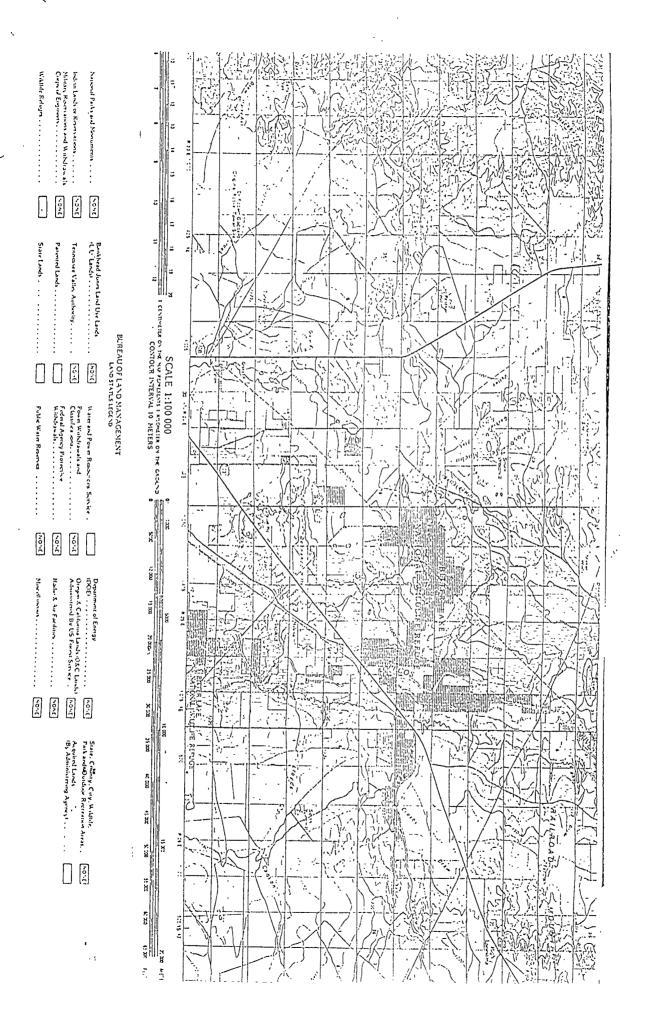
 *Note: No records established in NM State Engineer's office specific to SEC34, as of July 2008.

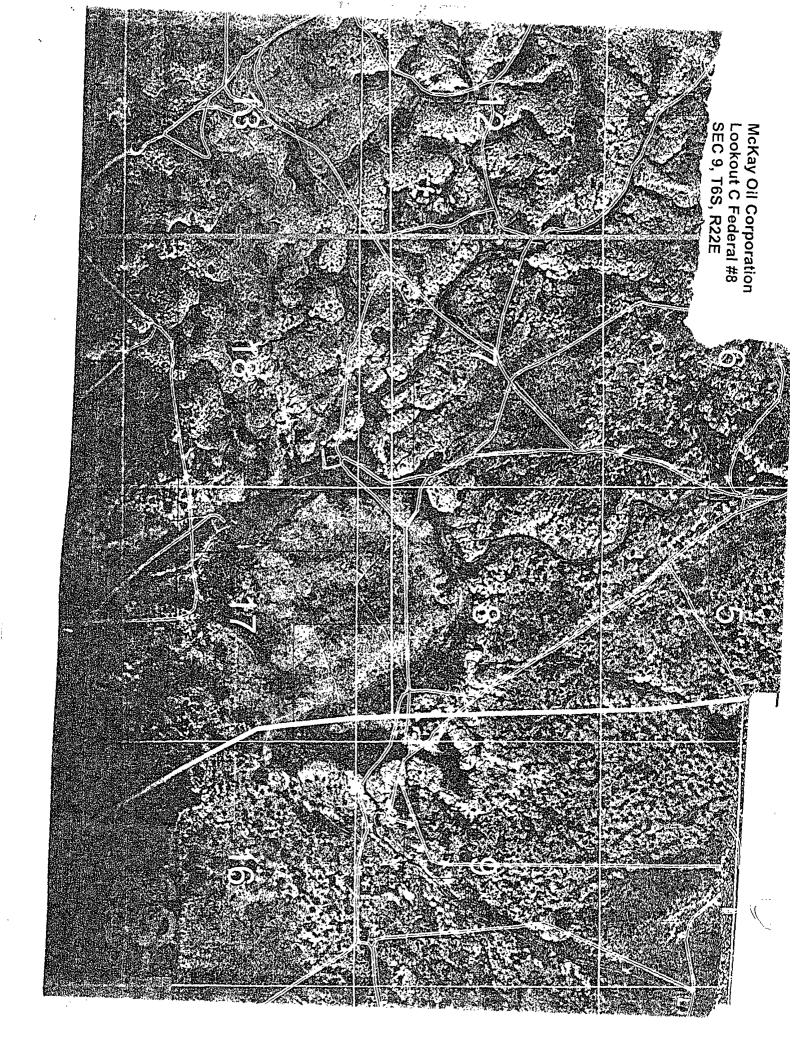
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30	29	28	27	26	25
31	32	33	36	35	36

Declaration of Owner of Underground Water Right

,		Gint 1	BASIN NAME	<u> </u>	1.45 M	
Declaration No.	-93 133 R	A-8373			5, 1992	
_						
			STATEMENT			
	ant <u>Betty J</u>					
	s PO Box 847					
					co 88201	
2. Source of water	supply Sh	allow Water	Aquifer artesian or sha	llow water aquife	er)	
 Describe well loc: 	ition under one of the	following subheadi	ings:			
	%NW % _ es			Twp6S	Rge23E	_ N.M.P.M., it
b. Tract No	of Map	No	of the			
					m	
	d by					Grant.
A Description of	rially data drilled	About 1913	driller	unknorm	depth146 '	feet
outside diamet	er of casing 6	_inches; original	capacity_unl	cnown gal. per n	nin.; present capacity.	20
gal. per min.; p	oumping lift_350_	_feet; static wate	er level <u>350</u>	feet (a)qqqe) (b	elow) land surface;	,
make and type	of pump 115 HP	electric su	ıbmersible	2		
Fractitional or	percentage interes	t claimed in well.	100%			
5. Quantity of wat	er appropriated and	beneficially used				·····
Livest	rock and dom	estis :	(acre fe	et per acre)	(acre feet per an	num)
		-				
6. Acreage actual	ly irrigated()	acres, located	and described	l as follows (des	cribe only lands actua	lly irrigated)
				Acres	•	
	Subdivision	Sec. Tw	vp. Range	Irrigated	Owner	
						
						
				-		
				·····	· · · · · · · · · · · · · · · · · · ·	
Ť	lote: location of well			'	on reverse side.)	Δ
7. Water was first	applied to benefici	al use about	: 1913 · d	av	year and s	Hee the Stime
					e above described	opses Except
as follows:					<u> </u>	7 2
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s. Additional state	ements or explanation					; 6
		_	_		rked over the	rears to
		curre	ent depth	of 5931.		
						· · · · · · · · · · · · · · · · · · ·
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, AFTT.	1 110076	<		ı	odao Com John mana	
depose and say	that the above is a	tull and complet	e statement pi	epared in accord	eing first duly swom u	ions on the re
verse side of th	is form and submitt	ed in evidence of	ownership of	a valid undergro	und water right, that I	have careful.
read each and a	ll of the items cont	ained therein and	that the same	are true to the b	pest of my knowledge a	and belief.
,			12	· The In	Doats	, declarant
			by:			
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My commission exp	ores <u>10-19-</u>	-73		orica f	Notary	/ Public
-			רוון יוונן			

McKay Oil Corporation Lookout C Federal #8 SEC 9, T6S, R22E

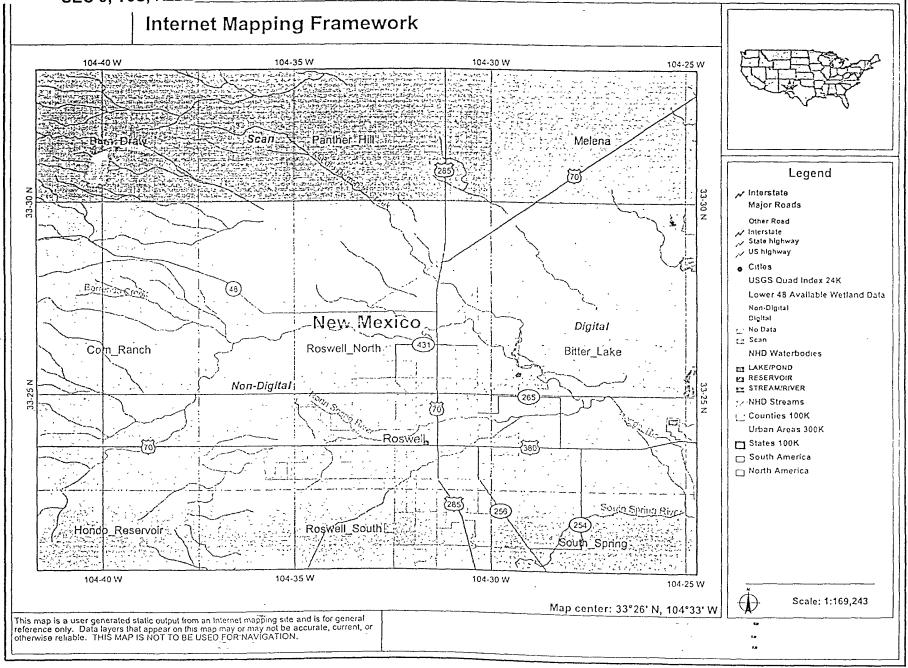


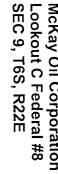


	New Mexico Office of the State Engineer POD Reports and Downloads	
	Township 05S Range 21E Sections 34	
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	County, CH 🔛 Basin 🖼 Number Suffix:	ic 9
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	POD / Surface Data Report Avg Depth to Water Report Water Column Report	6S,
4.	Clear Form WATERS Menu Holp	edei R22
27 1		era 2E
g - E -	POD / SURFACE DATA REPORT 07/30/2008 (quarters are 1=NW 2=NE 3=SW 4=SE)	1#8
DB File Nbr	(acre ft per annum) (quarters are biggest to smallest X Y are in Four Diversion Owner POD Number Source Two Rng Sec q q g Zone X	eet 1

McKay Oil Corporation Lookout C Federal #8 SEC 9, T6S, R22E____









- A Mosaic Potash Carlsbad 1361 Potash Mines Rd, Carlsbad, NM - (575) 887-2871
- C Highlands Gas 260 Potash Mines Rd. Loving, NM - (575) 745-2315
- E Intrepid Potash 6283 Hobbs Hwy, Carlsbad, NM - (575) 885-3134
- B Intrepid Potash East 210 Red Cloud, Carlsbad, NM - (575) 887-1117
- D Intrepid Potash 1996 Potash Mines Rd, Carlsbad, NM - (575) 887-5591

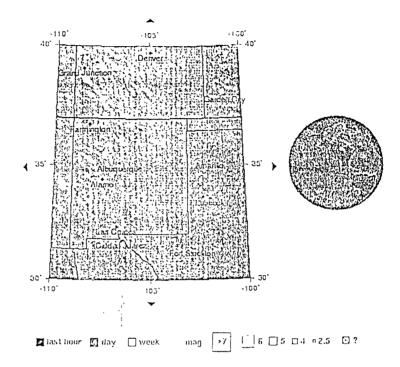
No mining activity in Chaves County, New Mexico





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 re st 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 cur rent 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

<u>U.S. Department of the Interior | U.S. Geological Survey</u>

URL: http://earthquake.usgs.gov/eqcenter/recenteqsww/Maps/degree10/255_35.php

Page Contact Information: EHP Web Team

Page Last Modified: September 04, 2007 22:31:33 UTC





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

Page Contact Information: EHP Web Team

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

New Mexico Page 1 of 2



Earthquake Hazards Program

New Mexico

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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 cause 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 Sabainal.

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

New Mexico Page 2 of 2

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 fel over the same area. An earthquake, measured at 3.8, on November 28, 1970, awakened thousands at Albuquerque. The sheak had a felt area of 3,000 square kilometers. The roof of a barn collapsed and a rooftop airconditioner 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

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

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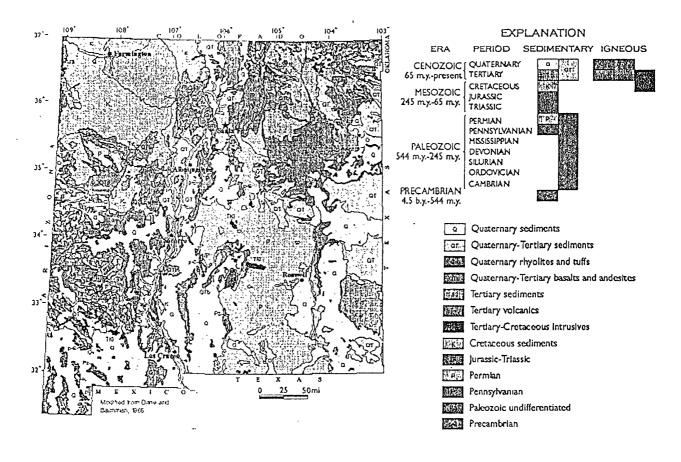
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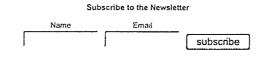
Geologic Map of New Mexico Geologic Maps of the U.S. States

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GENERALIZED GEOLOGIC MAP of NEW MEXICO



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- Tectonics & Deep Earth
- ossils, Time & Evolution

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- What Is Geology?
- Identify Rocks

Recent Helicorder Displays New Mexico Seismic Network

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

 $\begin{array}{c} 07/14/2008\ (00)\ |\ 07/13/2008\ (00)\ |\ 07/12/2008\ (00)\ |\ 07/11/2008\ (00)\ |\ 07/10/2008\ (00)\ |\\ 07/09/2008\ (00)\ |\ 07/08/2008\ (00)\ |\ 07/07/2008\ (00)\ |\ 07/06/2008\ (00)\ |\ 07/05/2008\ (00)\ |\\ 07/04/2008\ (00)\ |\ 07/01/2008\ (00)\ |\ 06/30/2008\ (00)\ |\ 06/29/2008\ (00) \end{array}$

BMT EHZ SC: Bear Mountains

CAR EHZ SC: Carthage

CARB BHE SC: Carthage Broadband Z

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CARB BHN SC: Carthage Broadband N

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CARB BHZ SC: Carthage Broadband E

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CBET EHZ SC: Carlsbad East Tower

CBKS BHZ US: Cedar Bluffs, KS

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

 $\frac{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) | 07/01/2008 (00) | 07/01/2008 (00) | 06/29/2008 (00) | 06/29/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 06/29/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/2008 (00) | 07/01/20$

GDL2 EHZ SC: Guadalupe Mountains

HTMS EHZ SC: Hat Mesa

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

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

LEM EHE SC: Lemitar E

LEM EHN SC: Lemitar N

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

SBY EHZ SC: South Baldy

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

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

SRH EHZ SC: Seven River Hills

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)

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

Y22D BHN TA: IRIS PASSCAL, Socorro, NM

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

S21A BHN TA: Coal Bank Pass, CO

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) |

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

121A BHE TA: Cook's Peak, NM

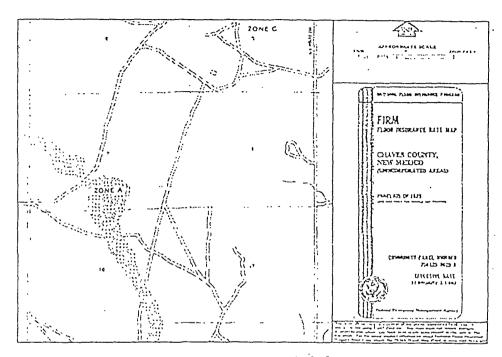
121A BHN TA: Cook's Peak, NM

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)

William MSC Viewer





	KEY TO MAP			
SPI	CIAL FLOOD HAZARO ZONE A.			
EX	PLANATION OF ZONE DESIGNATIONS			
ZONE	EXPLANATION			
A	A Areas of 100-year flood; base flood elevations and flood hazard factors not determined.			
С	Areas of minimal flooding. (No shading)			
D	Areas of undetermined, but possible, flood hazards.			
V	Areas of 100-year coastal flood with velocity (wave			

MCKAY OIL CORPORATION – LOOKOUT C FED #8 990' FEL & 2310' FNL, SE¼NE¼, Unit H, SEC9, T6S, R22E API: 30-005-*

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.

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.

RECEIVED AUG 0 1 2008

AUG - 1 2008

- 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