District I 1625 N. French Dr., Hobbs, NM 88240 District II
1301 W. Grand Avenue, Artesia, NM 88210 District III
1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and the control of the same pitch and the control of the same pitch and the control of the same pitch and the same pit

provide a copy to the appropriate NMOCD District Office.

Proposed Alternative Method Permit or Closure Plan Application Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit
Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
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 nvironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator:McElvain Oil & Gas Properties, Inc OGRID #:22044
Address:1050 17 th Street , Suite 1800, Denver, CO 80265
Facility or well name: _MILLER B 6
API Number:30-039-21584 OCD Permit Number:
U/L or Qtr/QtrGSection12 Township24N Range7W County:RIO ARRIBA
Center of Proposed Design: Latitude N36.33047Longitude W_107.52620NAD: ⊠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: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
☐ String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
Liner Seams: Welded Factory Other Volume:bbl Dimensions: Lx Wx D
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
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)
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
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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. Selow-grade tank: Subsection I of 19.15.17.11 NMAC Welvers Of Difference of fluids Oil & Wester
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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 Drying Pad Unlined Liner type: Thickness mil LLDPE HDPE PVC Other Drying Pad Factory Other Drying Pad Selow-grade tank: Subsection I of 19.15.17.11 NMAC Drying Pad Selow-grade tank: Subsection I of 19.15.17.11 NMAC Drying Pad Construction material: Fiberglass Drying Pad Construction material: Fiberglass Drying Pad Construction of Intention I of Intention
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 Drying Pad Unlined Liner type: Thickness mil LLDPE HDPE PVC Other Liner Seams: Welded Factory Other Other Drying Pad Subsection I of 19.15.17.11 NMAC Oil CONS. Div. Dist. 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 A. Melow-grade tank: Subsection I of 19.15.17.11 NMAC Subsection I of 19.15.17.11 NMAC Oil & Water 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 S.
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

Fencing: Subsection D of 19.15.17 11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate Please specify4" hog wire w/ top rail = 4'	hospital,
Netting: Subsection E of 19 15.17 11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting OtherNylon Mesh Monthly inspections (If netting or screening is not physically feasible)	
Signs: Subsection C of 19 15.17.11 NMAC ☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers ☐ Signed in compliance with 19 15.3.103 NMAC	
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 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 accept material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate of fice or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying above-grade tanks associated with a closed-loop system.	priate district pproval.
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank - NM Office of the State Engineer - iWATERS database search, USGS; Data obtained from nearby wells	☐ Yes ☑ No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map, Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo, Satellite image	☐ Yes ☐ No ☐ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (Applies to permanent pits) - Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	☐ Yes ☐ No ☑ NA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality, Written approval obtained from the municipality	☐ Yes ☑ No
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map, Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☑ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources, USGS, NM Geological Society; Topographic map	☐ Yes ☑ No
Within a 100-year floodplain FEMA map	☐ Yes ☑ No

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Operating and Maintenance Plan API Number: (Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
14. Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if m 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 serving. Yes (If yes, please provide the information below) No							
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC							
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 provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifice demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	ict office or may be						
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA						
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA						
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA						
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes No						
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No						
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	Yes No						
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No						
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division							
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						
Dn-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC 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 19.1 Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC	5.17.11 NMAC						

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): Deborah K Powell Title: _Engineering Tech Supervisor
Signature: Date: 9-10-08
e-mail address:DebbyP@McElvain.com
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 6/54/2012 Deputy Oil & Gas Inspector, Title: District #3 OCD Permit Number:
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date:
22. Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only) If different from approved plan, please explain.
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized. Disposal Facility Name: Disposal Facility Permit Number: Disposal Facility Name: Disposal Facility Permit Number: Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) No Required for impacted areas which will not be used for future service and operations: Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude
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:

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New Mexico Office of the State Engineer **POD Reports and Downloads**

	Town	nship:	24N]	Range:	06W	Sections:					
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County:			Basin:	:			I.	Num	ber:	Suffix:	-
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(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are biggest to smallest)

Tws Rng Secqqq Zone X

Well Y

Depth Water (in Water

SJ 00681 14 24N 06W 24 4 3

Record Count: 1

POD Number

Column

Depth

127

New Mexico Office of the State Engineer POD Reports and Downloads

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

WATER COLUMN REPORT 08/29/2008

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

	(quarter	s are bi	ggest to	smallest)		Depth	Depth	Water (in
POD Number	Tws	Rng Sec	ववव	Zone X	Y	Well	Water	Column
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SJ 01131	24N	07W 19	4 1			1700	400	1300
SJ 01335	24N	07W 31	1			185		

Record Count: 4

New Mexico Office of the State Engineer POD Reports and Downloads

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WATER COLUMN REPORT 08/25/2008

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

POD Number

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No Records found, try again

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 24N Range: 06W Sections: 6,7,18 NAD27 X: Y: Zone: Search Radius: County: Basin: SJ(San Juan) Suffix: Number: Owner Name: (First) Non-Domestic Domestic All (Last) POD I Surface Data Report Avg Depth to Water Report Water Column Report Clear Form iWATERS Menu

WATER COLUMN REPORT 08/25/2008

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

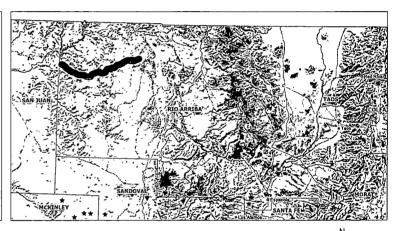
Depth Depth Water (in Well Water Column

No Records found, try again

POD Number

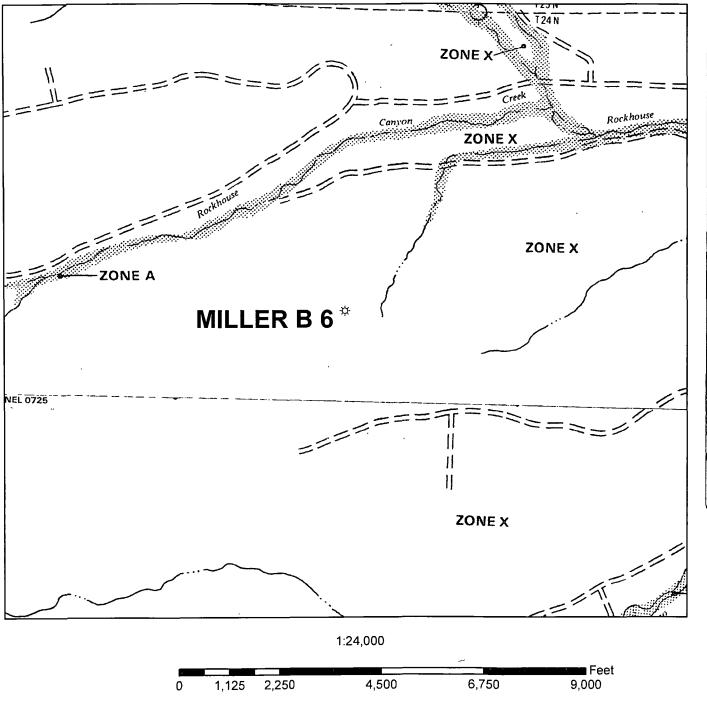
Rio Arriba Mines, Mills And Quarries Web Map

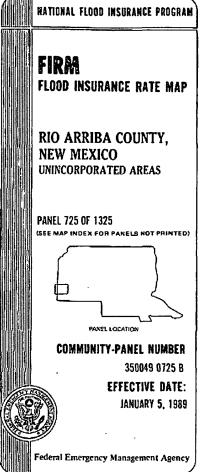
Mines, Mills & Quarries Commodity Groups							
Δ	Aggregate & Stone Mines						
•	Coal Mines						
*	Industrial Minerals Mines						
•	Industrial Minerals Mills						
Ø	Metal Mines and Mill Concentrate						
	Potash Mines & Refineries						
3	Smelters & Refinery Ops.						
*	Hranium Minee						

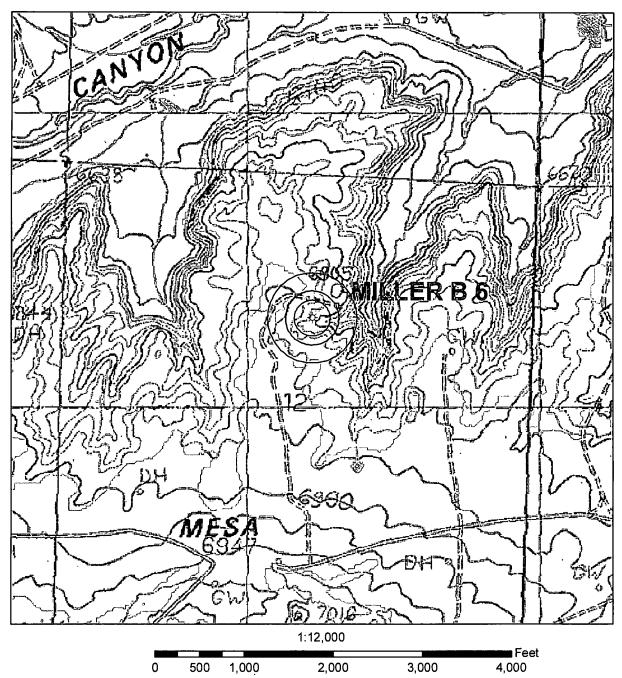












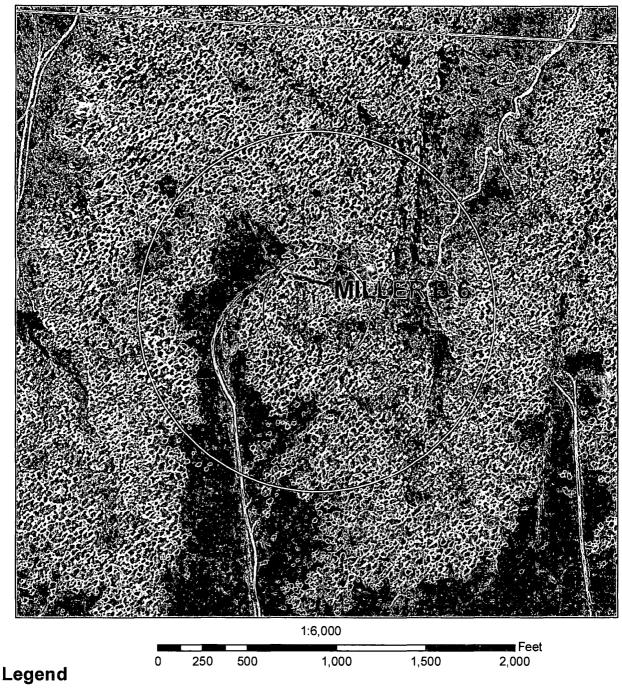
Legend

McElvain Well & 200' Radius

McElvain Well & 300' Radius

McElvain Well & 500' Radius

Source: USGS 1:24,000 Scale Topographic Map Series San Juan Basin New Mexico Township 24N 7W Section 12

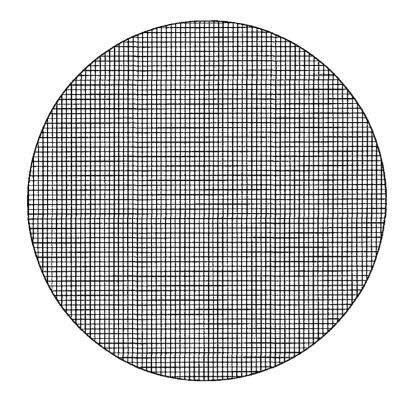


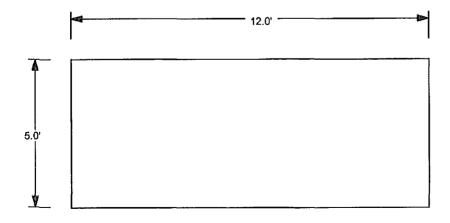
McElvain Well & 300' Radius

McElvain Well & 1000' Radius

Aerial Source: NM Resource Geographic Information System Program made available by the Univeristy of New Mexico and the State of New Mexico 2005-2006 vintage Digital Orthophoto Quarter-Quadrangles were derived from the New Mexico Statewide Orthophotography Project. Source imagery flown at 35,000' above average ground.

San Juan Basin **New Mexico** Township 24N 7W Section 12







12' X 5' 95 BBL Single wall Fiberglass Pit Tank with Wire Mesh cover

9-8-2008

Miller B #6

Siting Criteria Compliance Demonstrations

The Miller Gas Com B #6 well is not located in an unstable area. The location is not over a mine and is not on the side of a hill. The location of the excavated pit material is not located within 300' of any continuously flowing watercourse or 200' from any other water course.

McElvain Oil & Gas Properties, Inc. San Juan Basin Below Grade Tank Design and Construction

In accordance with Rule 19.15.17 NMAC the following describes the as-built construction of the Below Grade Tank on the McElvain Oil & Gas Properties, Inc (MOG) Miller Gas Com B #6 well located in the SWNE of Sec 12, T24N, 7W.

As-built Installation:

- 1. The existing tank pit consists of an approximate 15 foot by 2 foot earth walled hole into which a 12 foot by 5 foot fiberglass, single wall 95 bbl tank is installed.
- 2. The tank walls are open for visual inspection to identify the occurrence of leaks.
- 3. There is a Wire mesh covering on the top of the below grade tank.
- 4. The tank pit is surrounded by a 30ft X 30ft X 2ft berm that is contained within a 50 ft X 140 ft berm that encloses the tank battery to prevent overflow or surface water run-on.
- 5. A general location sign is displayed on site.
- 6. The pit tank is fenced with 4 foot field fence with a top rail.

McElvain Oil & Gas Properties, Inc. San Juan Basin Below Grade Tank Maintenance and Operating Plan

In accordance with Rule 19.15.17 NMAC the following describes the below grade tank operation and maintenance plan for the McElvain Oil & Gas Properties, Inc (MOG) on the Miller Gas Com B #6 well located in the SWNE of Sec 12, T24N, 7W.

General Plan:

- 1. MOG shall operate and maintain the below grade tank to contain liquids and solids and prevent contamination of fresh water to protect the public health and environment.
- 2. MOG shall not allow a below grade tank to overflow or allow surface water run-on to enter the below grade tank.
- 3. MOG shall continuously remove any visible or measurable layer of oil from the fluid surface of a below grade tank in an effort to prevent significant accumulation of oil over time.
- 4. MOG shall inspect the below grade tank monthly and maintain a written record of each inspection for five years.
- 5. MOG shall maintain adequate freeboard to prevent overtopping of the below grade tank.

McElvain Oil & Gas Properties, Inc. San Juan Basin Closure Plan

In accordance with Rule 19.15.17.1 NMAC the following procedure describes the closure plan for the McElvain Oil & Gas Properties, Inc (MOG) below grade tank on the Miller Gas Com B #6 well located in the SWNE of Sec 12, T24N, 7W.

Closure Requirements:

- 1. MOG shall close the below grade tank within the time periods provided in 19.15.17.13 NMAC or by an earlier date that the division requires because of imminent danger to fresh water, public health, or the environment.
- 2. MOG shall close an existing below grade tank that does not meet the requirements of Paragraph (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years after June 16, 2008 if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC.
- 3. MOG shall close a permitted below grade tank within 60 days of cessation of the below ground tank's operation or as required by the transitional provisions of Subsection B of 19.15.17.17 NMAC in accordance with a closure plan that the appropriate division district office approves. The closure report will be filed on C-144.
- 4. All liquids will be removed from the temporary permit prior to closure and the liquids disposed of in a division approved facility.
- 5. MOG shall remove the below grade tank and dispose of it in a division approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves.
- 6. MOG will remove any on-site equipment associated with the below grade tank unless the equipment is required for some other purpose.
- 7. MOG shall test the soils beneath the below grade tank to determine whether a release has occurred. MOG shall collect a five point composite sample and individual grab samples from any area that is wet, discolored, or showing other evidence of a release. The samples will be analyzed for BTEX, TPH, and chlorides to demonstrate that the benzene concentration as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration as determined by EPA method 418.1 or other EPA method that the division approves does not exceed 100 mg/kg; and the chloride concentration as determined by EPA

- method 300.1 or other EPA method that the division approves does not exceed 250 mg/kg or the background concentration, whichever is greater. MOG shall notify the division of its results on form C-141.
- 8. If MOG or the division determines that a release has occurred, then MOG shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC as appropriate.
- 9. If contamination is confirmed by field sampling. MOG will follow the Guidelines For Remediation Of Leaks, Spills, and Releases NMOCD August 1993 when remediating identified contaminants.
- 10. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, then MOG shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; re-contour, and re-vegetate the site.
- 11. Notice of closure will be given to the Aztec Division office between 72 hours and one week of closure via email or verbally. The notification of closure will include the following:
 - · Operator's name
 - · Location by Unit Letter, Section Township, and Range.
 - · Well name and API number
- 12. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the blow grade tank. The closure report will be filed on C-144 and incorporate the following:
 - · Details on capping and covering where applicable
 - · Inspection reports
 - · Sampling results
- 13. The site will be re-contoured to match the surrounding area. Natural drainages will be unimpeded and erosion control will be utilized where necessary.
- 14. MOG shall seed the disturbed areas the first growing season with a division approved seed mixture after pit closure. Seeding will be accomplished by drilling on the contour whenever possible or by other division approved methods. Repeat seeding or planting will be continued until successful vegetative growth occurs.
- 15. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the thickness of the topsoil native to the area, whichever is greater.

16. The surface owner shall be notified of MOG's closing of the below grade tank as per the approved closure plan using certified mail with return receipt requested.

Hydrogeological Report For

Miller B #6

RCVD NOV 26 '08 OIL CONS. DIV.

DIST. 3

Surface Formation:

San Jose Formation

Regional and Local Geology

The Tertiary San Jose Formation is a fluvial and alluvial deposit of Eocene age and is the youngest bedrock unit of the Tertiary in the San Juan Basin (Baltz, 1967). The San Jose is the surface formation in most of the central basin, to the eastern margin of the basin. Where it is buried, it is unconformably overlain by Quaternary sediments. It rests on an erosional surface over the Tertiary Nacimiento Formation south of the Colorado-New Mexico state line, and lies over the Cretaceous-Tertiary Animas north of the state line (Fassett, 1974). The San Jose has been differentially eroded, deeply in places, and has produced a varied to rugged physiography and a thickness range of less than 200' in the south to nearly 2700' in the eastern part of the basin (Stone et al., 1983).

The San Jose has been subdivided into four members (Baltz, 1967) for the eastern region of the basin but they are not easily discernable in this area. Instead, the San Jose exhibits a (sometimes intertonguing) sandy, muddy, sandy, muddy sequence in ascending order where the sandy zones are consolidated and can be considered an aquifer in some areas. The sandy zones are conglomeratic sandstone with numerous thin beds of clay, shale and mudstone. They were deposited in fluvial and alluvial environments. Overlying each of the two sandy members are sandy- to silty-mudstones containing thin lenses of poorly consolidated sandstone, claystone, and an abundance of swelling clays (Stone et al., 1983). The muddy zones act as a confinement layer over each sand zone.

Hydraulic Properties

Tertiary and Quaternary hydrologic properties, regional flow patterns and water quality do not vary significantly from unit to unit. Where pumping levels and drilling depths are economically feasible and where water quality is suitable, the San Jose, Nacimiento and Animas Formations are a source of water for public-supply, commercial, private-domestic and livestock use. Water in the San Jose, Nacimiento and Animas Formations occurs under both water table and artesian conditions. Recharge to the aquifers is from infiltration of precipitation and stream flow on outcrops, and from vertical upward leakage of water from underlying strata (Levings et al., 1990). Rates of such leakage, however, are very low except in areas of intense fracturing (Stone et al., 1983).

The sandier zones of the San Jose Formation are less interconnected in the eastern-most portion of the basin than in the area of this well; and therefore, would be more laterally extensive (fewer limited compartments). Stone et al. (1983) reported that one of the sandier zones to the east may yield 30 to 60 gallons per minute, with specific capacity of 0.23 gpm per foot of drawdown at 1 hour of pumping. The zone will yield water suitable for livestock and industrial use. Stone et al. (1983) also reported that the aquifers of Tertiary rocks yield water that is characteristically high in ions of sodium and sulfate. The removal of iron may be required.

Hydrology & Conclusion

A records search of the NM Office of the State Engineer iWaters database was conducted in a 4-township area centered on the section in which lies the Miller B #6 well location, 27N 4W section 12. Six wells with depth to water records were identified: 80', 127', 400', 500', 500', and 730'. Topography is responsible for great varying depths to water in this area. Two wells in 24N 7W were found with depth to water at 400' and 500'. Both wells were within 20'-80' of the valley floor in Crow Canyon, which lies at the base of Crow Mesa in the Escrito Field. One well in 25N 7W was located on Cibolo Mesa; its depth to water is 730'. In 25N 6W, a well in section 3, located on Gonzales Mesa, measured a depth to water at

500'. In section 21, however, a water well measured a depth to 80'. This well is located in Canyon Largo, a major, deep, ½ mile wide canyon/tributary. It is evident that shallower depths to water will be found where wells are lower in elevation, and closer to valley/canyon floors. In 24N 6W section 24, a water well measured depth to water at 127'. This well is located in Escrito Canyon, a 1/3 mile-wide canyon which drains into Canyon Largo, 100' lower in elevation. No water wells exist in section 12 24N 7W.

The Miller B #6 well site is located on Blue Mesa, over 100' higher than Rockhouse Canyon to the north and Rincon Largo canyon to the south, which also drain into Canyon Largo. It can be concluded that depth to water in the Miller B #6 is well over 100'.

References

Baltz, E.H., 1967, Stratigraphy and Regional Tectonic Implications of Part of Upper Cretaceous Rocks, East-Central San Juan Basin, New Mexico, USGS Professional Paper 552, 101p.

Fassett, J.E., 1974, Cretaceous and Tertiary Rocks of the Eastern San Juan Basin, in Guidebook of Ghost Ranch, Central-Northern New Mexico, New Mexico Geological Society, 25th Field Conference, 404p.

Levings, G.W., Craigg, S.D., Dam, W.L., Kernodle, J.M., and Thorn, C.R., 1990, Hydrogeology of the San Jose, Nacimiento, and Animas Formations in the San Juan Structural Basin, New Mexico, Colorado, Arizona, and Utah, USGS Hydrologic Investigations Atlas HA-720-A, 2 sheets.

Scholle, P.A., 2003, Geologic Map of New Mexico 1:500,000, NM Bureau of Geology and Mineral Resources, published in cooperation with the USGS, 2 sheets.

Stone, W.J., Lyford, F.P., Frenzel, P.F., Mizell, N.H., and Padgett, E.T., 1983, Hydrogeology and water resources of San Juan Basin, New Mexico, New Mexico Bureau of Mines and Mineral Resources, Hydrologic Report 6, 70p.

BGT Closure Sampling Required by NMOCD Components Method

Components	Method	Limit
Benzene	EPA SW-846 8021B or 8260B	0.2 mg/Kg
BTEX	EPA SW-846 8021B or 8260B	50 mg/Kg
TPH	EPA SW-846 418.1	100 mg/Kg
Chlorides	EPA 300.1	250 mg/Kg