District 1
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 provide a copy to the appropriate NMOCD District Office.

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

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	Type of action:    Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method   Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method   Modification to an existing permit   Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method
Vironment, 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	Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request
Departor:McElvain Oil & Gas Properties, Inc	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.
Address:1050 17th Street , Suite 1800 Denver, CO_80265	1. Operator:McElvain Oil & Gas Properties, IncOGRID #:22044
API Number:	Address:1050 17 <sup>th</sup> Street , Suite 1800, Denver, CO 80265
County: SAN JUAN   County: State San Juan   County: San Juan   Count	Facility or well name: _WIEDEMER 3
Center of Proposed Design: Latitude36.52919 N Longitude107.8768 W NAD:1927 \[   1927 \[   1928 \]   1927 \[   1928 \]   1927 \[   1928 \]   1927 \[   1928 \]   1928 \[   1927 \[   1928 \]   1928 \[   1927 \[   1928 \]   1928 \[   1927 \[   1928 \]   1928 \[   1927 \[   1928 \]   1928 \[   1927 \[   1928 \]   1928 \[   1927 \[   1928 \]   1928 \[   1927 \[   1928 \]   1928 \[   1928 \]   1928 \[   1928 \[   1928 \]   1928 \[   1928 \[   1928 \]   1928 \[   1928 \[   1928 \]   1928 \[   1928 \[   1928 \]   1928 \[   1928 \[   1928 \]   1928 \[   1928 \]   1928 \[   1928 \[   1928 \]   1928 \[   1928 \[   1928 \]   1928 \[   1928 \[   1928 \]   1928 \[   1928 \[   1928 \]   1928 \[   1928 \[   1928 \]   1928 \[   1928 \[   1928 \]   1928 \[   1928 \[   1928 \]   1928 \[   1928 \[   1928 \]   1928 \[   1928 \[   1928 \]   1928 \[   1928 \[   1928 \]   1928 \[   1928 \]   1928 \[   1928 \[   1928 \]   1928 \[   1928 \[   1928 \]   1928 \[   1928 \[   1928 \[   1928 \]   1928 \[   1928 \[   1928 \]   1928 \[   1928 \[   1928 \]   1928 \[   1928 \[   1928 \]   1928 \[   1928 \[   1928 \]   1928 \[   1928 \[   1928 \]   1928 \[   1928 \[   1928 \]   1928 \[   1928 \[   1928 \]   1928 \[   1928 \[   1928 \]   1928 \[   1928 \[   1928 \]   1928 \[   1928 \[   1928 \]   1928 \[   1928 \[   1928 \]   1928 \[   1928 \[   1928 \]   1928 \[   1928 \[   1928 \[   1928 \]   1928 \[   192	API Number:30-045-25385OCD Permit Number:
Surface Owner:   Federal   State   Private   Tribal Trust or Indian Allotment    Pit: Subsection F or G of 19.15.17.11 NMAC   Femporary:   Drilling   Workover     Permanent   Emergency   Cavitation   P&A     Lined   Unlined Liner type: Thickness   mil   LLDPE   HDPE   PVC   Other     String-Reinforced     Liner Seams:   Welded   Factory   Other   Volume:   bbl Dimensions: L   x W   x D     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     Cliner Seams:   Welded   Factory   Other   Milling Applies to activities which require prior approval of a permit or notice of Intention   Drying Pad   Above Ground Steel Tanks   Haul-off Bins   Other     Cliner Seams:   Welded   Factory   Other   Milling Applies   Drying Pad   Above Ground Steel Tanks   Haul-off Bins   Other     Cliner Seams:   Welded   Factory   Other   Milling Applies   Drying Pad   Above Ground Steel Tanks   Haul-off Bins   Other     Cliner Seams:   Welded   Factory   Other   Drying Pad   Above Ground Steel Tanks   Haul-off Bins   Other     Cliner Seams:   Welded   Factory   Other   Drying Pad   Above Ground Steel Tanks   Haul-off Bins   Other	U/L or Qtr/Qtr _ I Section34 Township27N Range10W County:SAN JUAN
Pit: Subsection F or G of 19.15.17.11 NMAC	Center of Proposed Design: Latitude36.52919 N Longitude107.8768 W NAD: ☐1927 ☒ 1983
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   Closed-loop System: Subsection H of 19.15.17.11 NMAC     Cype of Operation:   P&A   Drilling a new well   Workover or Drilling (Applies to activities which require prior approval of a permit or notice of netent)     Drying Pad   Above Ground Steel Tanks   Haul-off Bins   Other     Lined   Unlined Liner type: Thickness mil   LLDPE   HDPE   PVC   Other	Surface Owner:  Federal State Private Tribal Trust or Indian Allotment
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   Closed-loop System: Subsection H of 19.15.17.11 NMAC     Cype of Operation:   P&A   Drilling a new well   Workover or Drilling (Applies to activities which require prior approval of a permit or notice of netent)     Drying Pad   Above Ground Steel Tanks   Haul-off Bins   Other     Lined   Unlined Liner type: Thickness mil   LLDPE   HDPE   PVC   Other	2.
Permanent   Emergency   Cavitation   P&A     Lined   Unlined   Liner type: Thickness   mil   LLDPE   HDPE   PVC   Other     String-Reinforced     Liner Seams:   Welded   Factory   Other   Volume:   bbl   Dimensions: L   x W   x D     Closed-loop System: Subsection H of 19.15.17.11 NMAC     Sype 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   Thickness   mil   LLDPE   HDPE   PVC   Other     Lined   Unlined Liner type: Thickness   mil   LLDPE   HDPE   PVC   Other     Lined   Welded   Factory   Other   DECEIVED     Sep 2008   Sep 2	Pit: Subsection F or G of 19.15.17.11 NMAC
Lined   Unlined Liner type: Thicknessmil   LLDPE   HDPE   PVC   Other  String-Reinforced Liner Seams:   Welded   Factory   Other Volume:bbl Dimensions: Lx Wx D    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   Drillined   Unlined Liner type: Thicknessmil   LLDPE   HDPE   PVC   Other   Drilliner Seams:   Welded   Factory   Other   Drilliner Seams:   Welded   Factory   Other   Drilliner Seams:   Subsection Lef 10.15.17.11 NMAC	Temporary: Drilling Workover
String-Reinforced	_
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D  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	· · · · · · · · · · · · · · · · · · ·
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 Intent Unlined Liner type: Thickness Intent LLDPE HDPE PVC Other  Liner Seams: Welded Factory Other  The Relay grade to by Subsection Lef 10.15.17.11 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  The seams of the search of the Subsection Left 10 15 17 H DIMAG.	Liner Seams: Welded Factory Other Volume: bbl Dimensions: Lx Wx D
ntent)  Drying Pad	3.  Closed-loop System: Subsection H of 19.15.17.11 NMAC
Palary grada tasky. Subsection Left 10 15 17 H NIMAC	intent)
Palary grada tasky. Subsection Left 10 15 17 11 NIMAC.	☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other
Palary grada tasky. Subsection Left 10 15 17 H NIMAC	Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
Polony goods to by Subsection Lef 10 15 17 11 NMAC	Liner Seams: Welded Factory Other
	4. CER 200
/olume:90bbl Type of fluid:Water	
Cank Construction material:Fiberglass	Volume: 90 bbl Type of fluid: Water 1 UIL CUNS. DIV. UISL 3
	Tank Construction material:Fiberglass
Secondary containment with leak detection U Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	Secondary containment with leak detection  Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
_ Visible sidewalls and liner ⊠ Visible sidewalls only [ ] Other	
iner type: Thickness mil   HDPE   PVC   Other	Liner type: Thicknessmil
	5. Alternative Method:
Atternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	

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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 OtherClosed Top  Monthly inspections (If netting or screening is not physically feasible)	
Signs: Subsection C of 19.15.17.11 NMAC  ☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers  ☐ Signed in compliance with 19.15.3.103 NMAC	
Administrative Approvals and Exceptions:  Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.  Please check a box if one or more of the following is requested, if not leave blank:  Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval.  Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approoffice 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 dry above-grade tanks associated with a closed-loop system.	ppriate 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 図 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
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	☐ 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 19.15.17.12 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: or Permit Number:
12.
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.  Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC  Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design)  API Number:
Previously Approved Operating and Maintenance Plan API Number:
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.  Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  Climatological Factors Assessment  Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC  Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC  Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC  Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC  Quality Control/Quality Assurance Construction and Installation Plan  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  Nuisance or Hazardous Odors, including H <sub>2</sub> S, Prevention Plan  Emergency Response Plan  Oil Field Waste Stream Characterization  Monitoring and Inspection Plan  Erosion Control Plan  Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative
Proposed Closure Method: Waste Excavation and Removal  Waste Removal (Closed-loop systems only)  On-site Closure Method (Only for temporary pits and closed-loop systems)  In-place Burial On-site Trench Burial  Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
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

Disposal Facility Permit Number:								
Disposal Facility Name: Disposal Facility Permit Number: Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations? Yes (If yes, please provide the information below) No								
requirements of Subsection H of 19.15.17.13 NMAC of 19.15.17.13 NMAC	C							
administrative approval from the appropriate dist Bureau office for consideration of approval. Justi	rict office or may be							
obtained from nearby wells	Yes No							
obtained from nearby wells	☐ Yes ☐ No ☐ NA							
obtained from nearby wells	☐ Yes ☐ No ☐ NA							
ificant watercourse or lakebed, sinkhole, or playa	Yes No							
	☐ Yes ☐ No							
<ul> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> <li>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.</li> <li>NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site</li> </ul>								
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								
inspection (certification) of the proposed site	☐ Yes ☐ No							
and Mineral Division	Yes No							
& Mineral Resources; USGS; NM Geological	Yes No							
	☐ Yes ☐ No							
rements of 19.15.17.10 NMAC Subsection F of 19.15.17.13 NMAC ropriate requirements of 19.15.17.11 NMAC d) - based upon the appropriate requirements of 19. 17.13 NMAC rements of Subsection F of 19.15.17.13 NMAC ubsection F of 19.15.17.13 NMAC Il cuttings or in case on-site closure standards cannot of 19.15.17.13 NMAC of 19.15.17.13 NMAC	15.17.11 NMAC							
The state of the s	requirements of Subsection H of 19.15.17.13 NMAC of 19.15.17.13 NMAC on G of 19.15.17.13 NMAC  closure plan. Recommendations of acceptable sour endministrative approval from the appropriate distinguard office for consideration of approval. Justing Bureau office for consideration of approval. Justing obtained from nearby wells obtained from nearby wells obtained from nearby wells inficant watercourse or lakebed, sinkhole, or playa in existence at the time of initial application. Image than five households use for domestic or stock oring, in existence at the time of initial application. Pertification of the proposed site well field covered under a municipal ordinance.							

19.	<del></del>
Operator Application Certification:  I hereby certify that the information submitted with this application is true, accur	rate and complete to the best of my knowledge and belief.
Name (Print): Deborah K Powell	Title: _Engineering Tech Supervisor
Signature: Dehlk Phil	Date: 9-10-08
e-mail address:DebbyP@McElvain.com	Telephone:303-893-0933
OCD Approval: Permit Application (including closure plan) Closure P  OCD Representative Signature:  Deputy Oil & Gas Inspector,  Title:  District #3	
21. Closure Report (required within 60 days of closure completion): Subsection Instructions: Operators are required to obtain an approved closure plan prior The closure report is required to be submitted to the division within 60 days of section of the form until an approved closure plan has been obtained and the closure plan ha	to implementing any closure activities and submitting the closure report. the completion of the closure activities. Please do not complete this
22. Closure Method: Waste Excavation and Removal On-Site Closure Method Alternation If different from approved plan, please explain.	ative Closure Method
Closure Report Regarding Waste Removal Closure For Closed-loop Systems Instructions: Please indentify the facility or facilities for where the liquids, drift two facilities were utilized.  Disposal Facility Name:  Disposal Facility Name:  Were the closed-loop system operations and associated activities performed on or  Yes (If yes, please demonstrate compliance to the items below)  No  Required for impacted areas which will not be used for future service and operate  Site Reclamation (Photo Documentation)  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique	Disposal Facility Permit Number:  Disposal Facility Permit Number:  in areas that will not be used for future service and operations?
Closure Report Attachment Checklist: Instructions: Each of the following its 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	ems must be attached to the closure report. Please indicate, by a check  ude NAD:   1927   1983
Operator Closure Certification:  I hereby certify that the information and attachments submitted with this closure I	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 requiren  Name (Print):	
, ,	
e-mail address:	Telephone:

Form C-144

Fried Inc.

STATE OF HEW PARKICO LINERSY FOO REMEMBLES OFFICEREMENT	ν. (	V / (   O   ( ) E O DOX 2048 IJCW MCKICO	0 87501		Services in
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	-nut 12	NIEDEMER   Range	County		
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1700 feet from the Sout	<b>h</b>	790		Fact	
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55114 Fruitland Co	al	Basin			320
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this form if necessary.)  No allowable will be assigned to forced-pooling, or otherwise) or un sion.	the well until all in til a non-standard u	terests have been nit, climinating a	n consolida such interes	ted (by com	munitization, unitization approved by the Commi
	REC	E VE		Draf of my	erilly that the information co- ein is true and complete to the howledge and helipt
Sec.		CON. DIV.		Operation Dirtis J. Company	Little Oil & Gas
Montes for See.  Montes for the Company of the Comp	Augun Bodeitie Me Adama Will 1110-252 - Moored Sand: 2/12/58 Augus Bat Billey	182 8	790'	shown on the notes of our order my so the street on the treet on the treet on the treet of the t	3
M. Admin buside. 2 990'ESL-1850' FALL TOCKING Soid: Soid: 675'58 110:55 102407 Dayle And Editof A. A. Character First Police Conglish 100 400 400 1220 1020 1020 2310		1000 1000	•••	Fred B Goninedo He 3950	Kerv Jr.

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

Township: 26N	Range: 10W Sections:						
NAD27 X:	Y: Zone: Search Radius:						
County: Basi	n: Number: Suffix:						
Owner Name: (First)	(Last) Non-Domestic Domestic All						
POD // Surface Data Repor	Avg Depth to Water Report Water Column Report						
Clear Form							
	WATER COLUMN REPORT 08/29/2008						
(quarters a	re 1=NW 2=NE 3=SW 4=SE)						

Zone

X

Depth

Well

2287

2105

Y

Depth

500

500

Water

Water (in

Column

1787

1605

(quarters are biggest to smallest)

Tws Rng Sec qqq

10W 13 4 2

10W 25 4 1

26N

26N

Record Count: 2

POD Number

SJ 00193

SJ 00194

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

27N Range: 10W Sec	tions:
Y: Z	one: Search Radius:
Basin:	Number: Suffix:
(Last)	Non-Domestic Domestic All
Report Avg Dep	h to Water Report Water Column Report
Clear Form	ATERS:Menu : Help:
	Y: Zo  Basin:  (Last)  Report:  Avg Dept

### WATER COLUMN REPORT 08/29/2008

	(quarter (quarter							•		Depth	Depth	Water	(in
POD Number	Tws	Rng	Sec	đ	đ	đ	Zone	x	Y	Well	Water	Column	
SJ 00032	27N	10W	80	2	2	3				235	60	175	
SJ 00033	27N	10W	80	2	2	3				204			
SJ 00034	27N	10W	80	2	2	3				235	170	65	

Record Count: 3

8/29/2008

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

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

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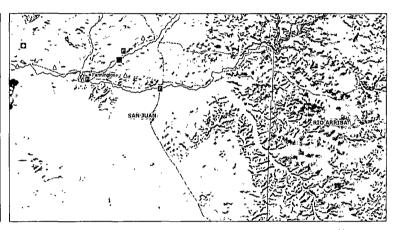
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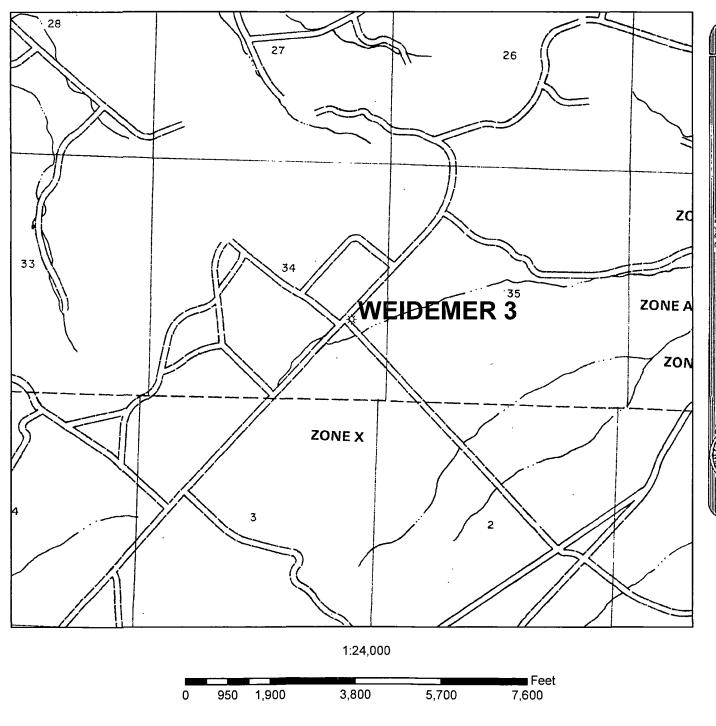
# San Juan Mines, Mills And Quarries Web Map

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	
2	Smelters & Refinery Ops.	
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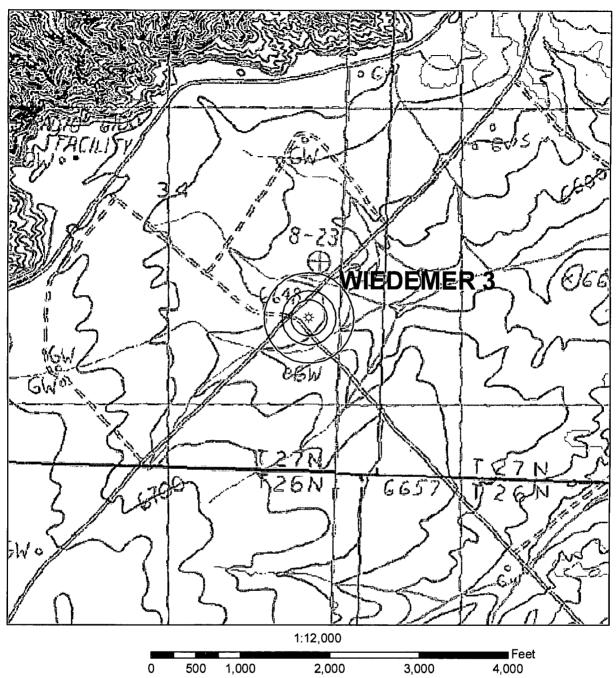








NATIONAL FLOOD INSURANCE PROGRAM FIRM FLOOD INSURANCE RATE MAP SAN JUAN COUNTY, **NEW MEXICO** UNINCORPORATED AREAS PANEL 725 OF 1450 (SEE MAP INDEX FOR PANELS NOT PHINTED) PANEL LOCATION COMMUNITY-PANEL NUMBER 350064 0725 B EFFECTIVE DATE: **AUGUST 4, 1988** Federal Emergency Management Agency



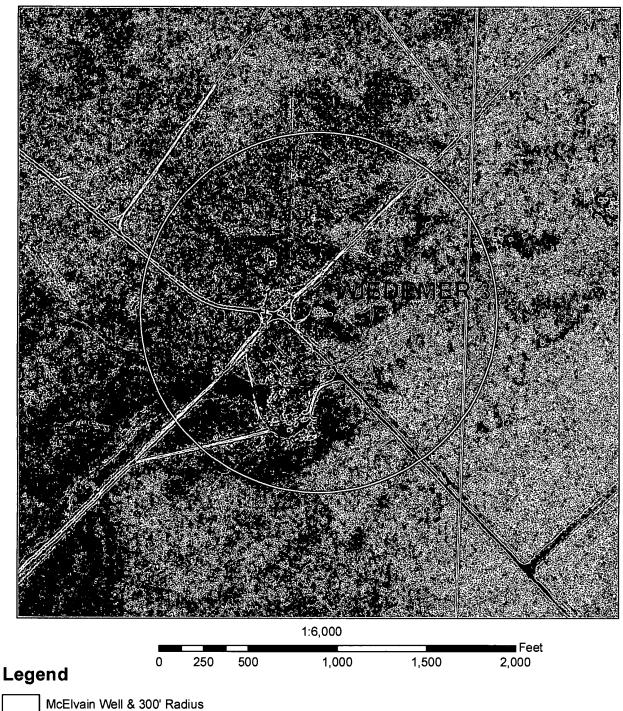
### Legend

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 27N 10W Section 34

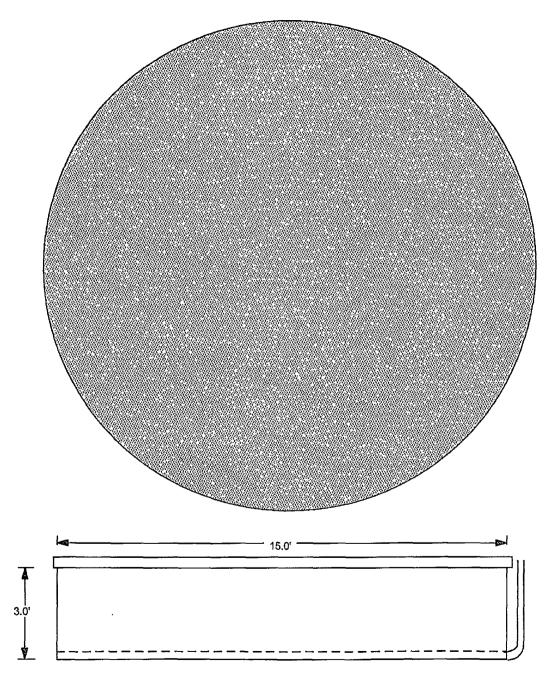


McElvain Well & 300' Radius

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 27N 10W Section 34





15' X 3' 90 BBL Single wall double bottom steel Pit Tank with leak detection and closed top

9-4-2008

### **Siting Criteria Compliance Demonstrations**

Wiedemer #3 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) Wiedemer #3 well located in the NESE of Sec 34, T27N, 10W.

### As-built Installation:

- 1. The existing tank pit consists of an approximate 17 foot by 17 foot by 2 foot earth walled hole into which a 15 foot by 3 foot single walled, double bottom, steel, 90 bbl tank with leak detection is placed.
- 2. The tank walls are open for visual inspection to identify the occurrence of leaks.
- 3. The below grade tank has a closed top.
- 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 Wiedemer #3 well located in the NESE of Sec 34, T27N, 10W.

### 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 Wiedemer #3 well located in the NESE of Sec 34, T27N, 10W.

### **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

### Wiedemer #3

#### Surface Formation:

Nacimiento Formation

### Regional and Local Geology

The Tertiary Nacimiento Formation is a fluvial deposit of Paleocene age (Baltz, 1967). The Nacimiento is present at the surface in a wide swath inside the western margin of the basin from the Colorado-New Mexico state line to the south where the exposure area thins along the southern margin of the basin towards the town of Cuba, NM. From Cuba and north along the eastern margin of the basin, the Nacimiento is present at the surface as a very thin outcrop along the Nacimiento Uplift.

Much of the Nacimiento consists of shale, siltstone, and to a lesser extent limited fine- to medium-grained sandstone similar to the Cretaceous rocks of nearby regions and presumably derived by erosion from these rocks (Baltz, 1967). The Nacimiento is mainly composed of beds of clays and silts deposited in a low energy environment such as still or slowly moving water (Brimhall, 1973) or in lake-settings (Fassett, 1974). The Nacimiento's sandstone units were deposited in an environment of small, localized stream beds. Most of the sandstones extend only a few thousand feet. The Nacimiento is a non-resistant unit and typically erodes to low, rounded hills or forms badlands topography (Craigg, 2001). The mudstones display popcorn weathering, characteristic of swelling clays. The slope-forming sediments are made up of poorly-consolidated sandstone, instead of shale as previously thought, possibly attributing a greater percentage of sand to the formation than previously considered (Stone et al., 1983).

The Nacimiento conformably overlies and intertongues with the Tertiary Ojo Alamo Formation in this area. Where buried, the contact of the Nacimiento with the overlying Tertiary San Jose Formation is an erosional and angular unconformity (Fassett, 1974).

### **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).

Nacimiento and Animas sandstone "aquifers" are neither generally continuous over large distances nor do they all crop out. They grade laterally into clays and silts (Brimhall, 1973). Transmissivity for the San Jose, Nacimiento and Animas Formations is minimal. A low yield (10 gallons per minute or less) can be expected for Nacimiento and Animas Formations. However, these formations may have relatively high transmissivities in areas of small extent (Stone et al., 1983). Reported or measured discharge from 79 water wells completed in the the San Jose, Nacimiento and/or Animas Formations ranges from 1-61 gallon per minute, median 6 gpm. The specific capacity of 12 of these 79 tests ranges from 0.03 to 2.30 gpm per foot of drawdown (Levings et al., 1990). The aquifers of Tertiary rocks yield water that is characteristically high in ions of sodium and sulfate. The removal of iron may be required (Stone et al., 1983).

### Hydrology & Conclusion

A records search of the NM Office of the State Engineer iWaters database was conducted in a nine-section search centered on the section in which lies the Wiedemer #3 well location, 27N 10W section

34. No wells were located. A search of the 27N 10W and 26N 10W townships revealed four wells with depth to water records. The Wiedemer #3, is located on the edge of Kutz Canyon approx. 500' above the closest tributary in Kutz Canyon. Two wells, found in 26N 2W are also located above Kutz Canyon to the south of Wiedemer #3. Their depths to water were both 500'. Two wells, found in 27N 2W are located within Kutz Canyon, approx. 600' lower in elevation than the Wiedemer #3, and measured depth to water at 60' and 170'. Based on topography, elevation and surrounding water wells, it can be concluded that depth to water at the Wiedemer #3 well location is well over 100' and closer to 500'.

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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, 25<sup>th</sup> Field Conference, 404p.

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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

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