District I 1625 № 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

Pit, Closed-Loop System, Below-Grade Tank, or

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.

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 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:McElvain Oil & Gas Properties, IncOGRID #:22044
Address:1050 17 th Street , Suite 1800, Denver, CO 80265
Facility or well name: _SOUTHERN UNION !
API Number:30-045-08854OCD Permit Number:
U/L or Qtr/Qtr _B Section3 Township29N Range13W County:SAN JUAN
Center of Proposed Design: Latitude36 45.591 N Longitude108 11.353 W 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: 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 Liner Unlined Liner type: Thickness mil LLDPE HDPE PVC Other RECEIVED
Selow-grade tank: Subsection I of 19.15.17.11 NMAC Volume:70
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							
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)							
8.							
Signs: Subsection C of 19.15.17.11 NMAC							
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers							
Signed in compliance with 19.15.3.103 NMAC							
9. Administrative Approvals and Exceptions:							
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.							
Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau of	office for						
consideration of approval.							
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.							
10.Siting Criteria (regarding permitting): 19.15.17.10 NMACInstructions: 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 approximately approximate							
Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dryi							
above-grade tanks associated with a closed-loop system.							
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - 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	☐ Yes 🛛 No						
lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site							
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes No						
(Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	⊠ NA						
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ No ☑ NA						
 (Applies to permanent pits) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	⊠ NA						
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock	☐ Yes 🛛 No						
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	☐ Yes ☒ No						
adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality							
	□ v∇.N.						
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.	☐ Yes ☒ No						
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 							
Within a 100-year floodplain FEMA map	☐ Yes ☒ No						

Form C-144 Oil Conservation Division Page 2 of 5

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 19.15.17.13 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 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 ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Errosion 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

Form C-144 Oil Conservation Division Page 3 of 5

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground State Instructions: Please indentify the facility or facilities for the disposal of liquids, a facilities are required.	Steel Tanks or Haul-off Bins Only: (19.15.17.13.1 drilling fluids and drill cuttings. Use attachment if	D NMAC) more than two					
l`	Disposal Facility Permit Number:						
Disposal Facility Name:							
	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?						
Required for impacted areas which will not be used for future service and operation Soil Backfill and Cover Design Specifications based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	requirements of Subsection H of 19.15.17.13 NMA I of 19.15.17.13 NMAC	С					
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the provided below. Requests regarding changes to certain siting criteria may require considered an exception which must be submitted to the Santa Fe Environmental demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for	e administrative approval from the appropriate dist. Bureau office for consideration of approval. Justi	rict 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 sign lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	nificant watercourse or lakebed, sinkhole, or playa	☐ Yes ☐ No					
Within 300 feet from a permanent residence, school, hospital, institution, or church - Visual inspection (certification) of the proposed site; Aerial photo; Satellite		☐ Yes ☐ No					
Within 500 horizontal feet of a private, domestic fresh water well or spring that less watering purposes, or within 1000 horizontal feet of any other fresh water well or spring - NM Office of the State Engineer - iWATERS database; Visual inspection (oring, in existence at the time of initial application.	☐ Yes ☐ No					
Within incorporated municipal boundaries or within a defined municipal fresh wate adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approve		☐ Yes ☐ No					
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visua	l 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 Society; Topographic map	& Mineral Resources; USGS; NM Geological	☐ 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 by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Construction/Design Plan of Burial Trench (if applicable) based upon the ap Construction/Design Plan of Temporary Pit (for in-place burial of a drying pa Protocols and Procedures - based upon the appropriate requirements of 19.15 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection Disposal Facility Name and Permit Number (for liquids, drilling fluids and described of Soil Cover Design - based upon the appropriate requirements of Subsection Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	sirements of 19.15.17.10 NMAC Subsection F of 19.15.17.13 NMAC propriate requirements of 19.15.17.11 NMAC ad) - based upon the appropriate requirements of 19. 17.13 NMAC sirements of Subsection F of 19.15.17.13 NMAC Subsection F of 19.15.17.13 NMAC fill cuttings or in case on-site closure standards cann H of 19.15.17.13 NMAC	15.17.11 NMAC					

Form C-144 Oil Conservation Division Page 4 of 5

19. Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.
Name (Print): 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: 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:
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.
is. 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 that two facilities were utilized. Disposal Facility Name:
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
5. Decretor Closure Cortification:
Operator Closure Certification: 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:

Form C-144

NEW MEXICO OIL CONSERVATION COMMISSION

Well Location and Acreage Dedication Plat

Section A.	Date November 11, 1959
Operator Leas	se Southern Union
Well No. 1 Unit Letter B Section 3	Township 29 North Range 13 West NMPM
Located 990 Feet From North Line, 150	O Feet From East Line
County San Juan G. L. Elevation 5610 Name of Producing Formation Dakota	Dedicated Acreage N321.08 Acres
1. Is the Operator the only owner* in the dedicated	
YesNo_	A/¥ ·
2. If the answer to question one is "no," have the in	iterests of all the owners been consolidated
by communitization agreement or otherwise? Yes Type of Consolidation Communitization Agree	
3. If the answer to question two is "no," list all th	
Owner	Land Description
Smashine Royalty Company	mit, vient 600. 3, T. 298., R. 1384,
Essethern Union One Company	1912 Sec. 3, Ta 298., Ra 1384
	OF IL PRO
Section. B	CI FIGURE
	(43)
	This is to positify the second
990	In ormalization in the factor is
	above is true and dompleto
	to the best of my knowledge
<u> </u>	and belief.
	Sunshine Repulty Company
	1000 78 to 17
	Left Moth
	(Representative)
	Box 5669; Reswell, M. M.
Sec.	Address
В	This is to constitute the
	well location them of the
	plat in Som a very process
	from field note to het unl
	surveys the ty do of the
	my super to the same is tr
<u> </u>	the best of bear and
	belief.
	Date Surveyed 04t. 7, 1959
	E NEIT
	Frank V. Oak hard
	Ernest V. Echohawk Registered Land Surveyor.
0 330 660 990 1320 1650 1980 2310 2640 2000 1500	Certificate No. 1545

New Mexico Office of the State Engineer POD Reports and Downloads

	Town	nship:	29N	Range:	13W	Sections:	2,3,4	1,9,10,	11		
	NAD27	X:		Y:		Zone:		i i	Search Radius	::	
County:		M	Basin	:			W.	Num	ber:	Suffix:	
Owner Na	ame: (Fir	st)			(Last)			0	Non-Domestic	ODomestic	@ All
Ensur Po	OD / Surfac	e Data	Report	<u> </u>	Avg	Depth to W	/ater F	Report		er Column Repor	<u>t</u>
Clear Form: iWATERS Menu Help.											

WATER COLUMN REPORT 08/25/2008

(qu	arter	s are	e 1=1	W	2=	NE :	3=SW 4=SE)						
(qu	arter	s are	e bi	gge	st	to	smallest)			Depth	Depth	Water	(in
POD Number	Tws	Rng	Sec	q	q	đ	Zone	x	Y	Well	Water	Column	
SJ 03272	29N	13W	02	1	3	3				140	35	105	
SJ 03273	29N	13W	02	3	2	1				120	20	100	
SJ_03288	29N	13W	02	3	4	1				120	90	30	
SJ 02412	29N	13W	02	4	2					48	28	20	
SJ 02750	29N	13W	02	4	2	4				59	18	41	
SJ 02751	29N	13W	02	4	2	4				58	17	41	
SJ 02281	29N	13W	02	4	3	4				59	30	29	
SJ 02328	29N	13W	04	3	3					40	10	30	
SJ 02899	29N	13W	04	3	3	3				45			
SJ 02730	29N	13W	04	3	3	3				40	16	24	
SJ 02912	29N	13W	04	3	3	3				50			
SJ 01333	29N	13W	09	1	1					38	20	18	
SJ 01038	29N	13W	09	1	1					42	10	32	
SJ 01487	29N	13W	09	1	1					26	10	16	
SJ 01556	29N	13W	09	1	1	3				27	10	17	
SJ 03457	29N	13W	09	1	1	3				29	9	20	
SJ 02386	29N	13W	09	1	1	4				30	10	20	
SJ 02594	29N	13W	09		1	4				44	17	27	
SJ 01779	29N	13W	09	1						31	11	20	
SJ 00512	29N	13W	09		4					41	15	26	
SJ 02209	29N	13W	09		4	1							
SJ 00957	29N	13W		4						74	20	54	
SJ 00894	29N	13W		4						30	15	15	
SJ 02712	29N	13W		4		3				90	50	40	
SJ 02367	29N	13W		4	3	4				50	20	30	
SJ 02052	29N	13W								68	22	46	
SJ 00775	29N	13W		2		4				36	14	22	
SJ 01271	29N	13W	10			4				60	30	30	
SJ 03404	29N	13W	10		_	4				42	22	20	
SJ 00852	29N	13W	10	2	4	2				50	24	26	
SJ 01317	29N	13W	10	2	4	2				50	23	27	
SJ 00314 X	29N	13W	10	2	4	2				58	38	20	

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SJ	01402	29N	13W 10	3	2		25	15	
SJ	03311	29N	13W 10	3	2	1	42	20) 22
SJ	03314	29N	13W 10	3	2	3	32	18	3 14
SJ	02935	29N	13W 10	3	2	4	100	10	90
SJ	03578	29N	13W 10	3	3	1	240	23	217
SJ	03297	29N	13W 10	3	3	2	29	9	20
SJ	00720	29N	13W 10	3	3	3	29	15	14
SJ	03332	29N	13W 10	4	2	3	60		
SJ	00776	29N	13W 10	4	4		25	10	15
SJ	02417	29N	13W 11	1	3	1	37	20	17
SJ	00955	29N	13W 11	1	4		59	3 (29
SJ	02333	29N	13W 11	2	2	1	40	10	30
SJ	02136	29N	13W 11	2	2	2	50	20	30
SJ	01951	29N	13W 11	2	3		39	3 9)
SJ	02001	29N	13W 11	2	3		20	10	10
SJ	00758	29N	13W 11	2	3		35	15	20
SJ	00310	29N	13W 11	2	3	1	45	11	. 34
SJ	00301	29N	13W 11	3				20)
SJ	02795	29N	13W 11	4	4	1	180		

Record Count: 51

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 3	0N Range: 13W	Sections: 33,3	34,35		
NAD27 X:	Y:	Zone:	Search Radi	us:	
County:	Basin:		Number:	Suffix:	
Owner Name: (First)	(Last)		○ Non-Domesti	c ODomestic	
POD / Surface Data F	Report	Depth to Water	Report Wa	ter Column Repor	t homosofic x d
	Clear Form	iWATERS Me	nu		
Marilla de de marine de 18 marine de communicación de de marine de marine de marine de marine de marine de mari	WATER	COLUMN REPOR	RT 08/25/2008	and the state of t	
	rs are 1=NW 2=NE :	-	Depth	Depth Wa	ter (in

Well

260

Water

200

Column

60

Record Count: 1

POD Number

SJ 02391

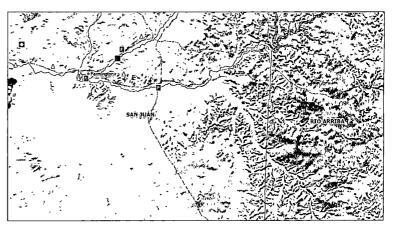
Rng Sec q q q

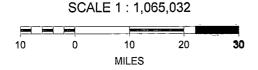
13W 35 1 1 1

30N

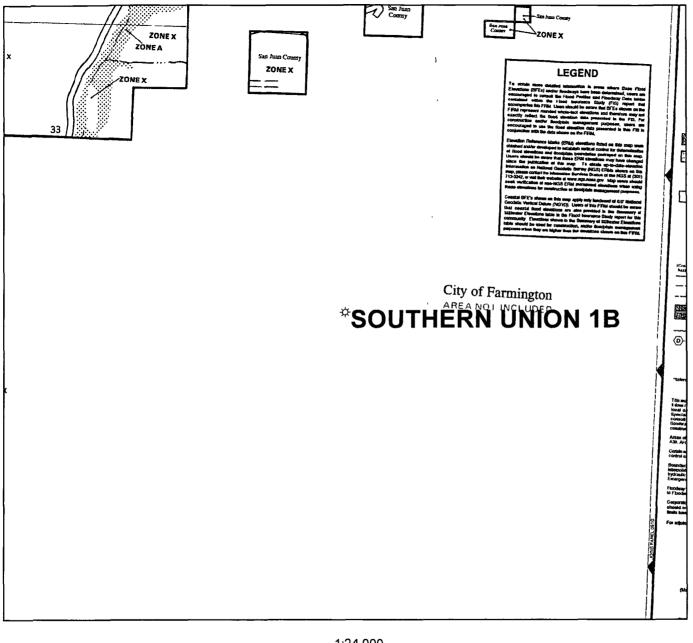
San Juan Mines, Mills And Quarries Web Map

Mines, Mills & Quarries Commodity Groups							
△ Aggregate & Stone Mines							
♦	Coal Mines						
*	Industrial Minerals Mines						
▼	Industrial Minerals Mills						
	Metal Mines and Mill Concentrate						
	Potash Mines & Refineries						
2	Smelters & Refinery Ops.						
*	Hranium Mines						







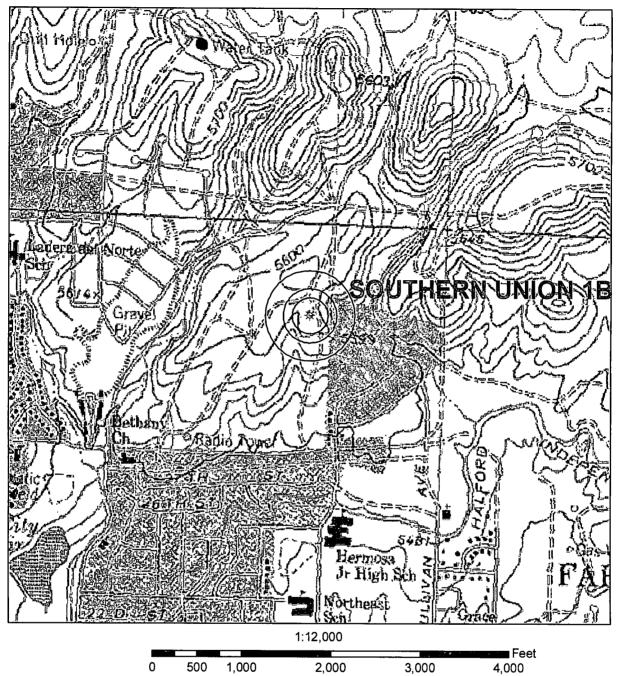


950 1,900

1:24,000 Feet 3,800 5,700 7,600

NATIONAL FLOOD INSURANCE PROGRAM FIRM FLOOD INSURANCE RATE MAP SAN JUAN COUNTY, NEW MEXICO. UNINCORPORATED AREAS PANEL 550 OF 1450 (SEE MAP INDEX FOR PANELS NOT PHINTED) J PANEL LOCATION COMMUNITY-PANEL NUMBER 350064 0550 B EFFECTIVE DATE: **AUGUST 4, 1988**

Federal Emergency Management Agency



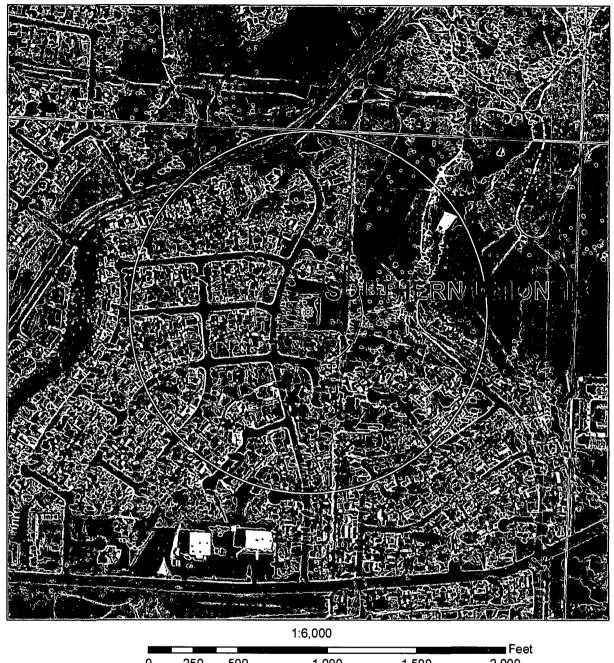
Legend

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 29N 13W Section 3



250 500 1,000 1,500 2,000

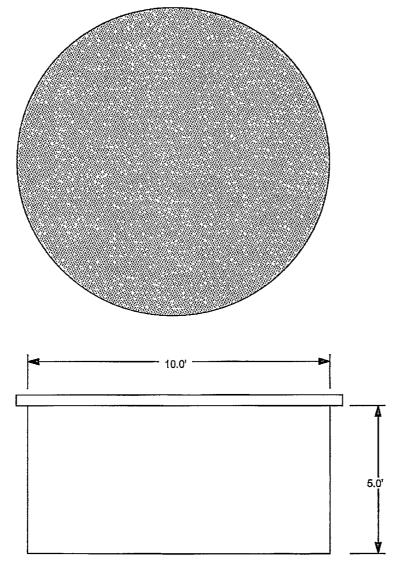
Legend

McElvain Well & 300' Radius

McElvain Well & 1000' Radius

Aerial Source: NM Resource Geographic Information System Program made available by the University 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 29N 13W Section 3





McElvain Oil & Gas Properties, Inc

10' X 5' 70 BBL Single wall Steel Pit Tank with Closed Top

9-4-2008

Southern Union#13

Siting Criteria Compliance Demonstrations

Southern Union #1B 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) Southern Union #1B well located in the NWNE of Sec 3, T29N, 13W.

As-built Installation:

- 1. The existing tank pit consists of an approximate 12 foot by 32 foot Wooden shored, earth walled, covered structure into which a 70 foot by 10 foot single walled, horizontal, 210 bbl steel tank is housed.
- 2. The tank walls are open for visual inspection to identify the occurrence of leaks.
- 3. The below grade horizontal tank is enclosed on three sides with wooden framing and covered with a wooden roof.
- 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 6 foot chain link.

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) Southern Union #1B well located in the NWNE of Sec 3, T29N, 13W.

As-built Installation:

- 1. The existing tank pit consists of an approximate 15 foot by 15 foot by 2 foot earth walled excavation into which a 10 foot by 5 foot single walled, steel, 70 bbl tank is placed.
- 2. The tank walls are open for visual inspection to identify the occurrence of leaks.
- 3. The below grade tank has an expanded metal cover.
- 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 6 foot chain link.

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 Southern Union #1B well located in the NWNE of Sec 3, T29N, 13W.

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 Below Grade Tank Maintenance and Operating Plan

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- 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 Southern Union #1B well located in the NWNE of Sec 3, T29N, 13W.

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.

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 Southern Union #1B well located in the NWNE of Sec 3, T29N, 13W.

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
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- 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
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- 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.

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Hydrogeological Report For

Southern Union #1B

Surface Formation:

Kirtland Formation

Regional and Local Geology

The late Cretaceous Kirtland Formation is of Mesozoic age and represents an upper coastal or alluvial-plain deposit landward of the Fruitland coal swamp environment. The Kirtland Formation conformably overlies the Fruitland Formation, and in most of the San Juan Basin is unconformably overlain by the Tertiary Ojo Alamo. In this area, where buried, the Ojo Alamo interfingers with the Tertiary Nacimiento; therefore, both the Ojo Alamo and Nacimiento come in contact with the Kirtland Formation (Baltz, 1967). The Kirtland Formation outcrops along almost the entire inner margin of the San Juan Basin. In the north and east the formation outcrops in a thin band, but in a much wider swath to the south and west.

Fassett & Hinds (1971) divided the Kirtland into three members: the lower shale member, the Farmington Sandstone Member, and the upper shale member. The lower shale is a continental flood plain deposit consisting predominantly of shale containing a few thin interbeds of siltstone and sandstone. The Farmington and upper shale are composed of a series of interbedded, small, channel sandstone beds and flood plain shales. In this area, local conglomeratic beds and shales occur in the Farmington and upper shale. Little carbonaceous shale or coal is present in the Kirtland, distinguishing it from the underlying Fruitland Formation which was also deposited in a fluvial environment.

The Farmington Sandstone Member of the Kirtland Formation predominantly contains water but has produced gas and oil from small stratigraphic traps yielding low reserves.

Hydraulic Properties

In the northwest, west and south the Kirtland is mapped separately from the Fruitland. In the northeast and eastern regions of the San Juan Basin the Kirtland is mapped with the Fruitland in an undivided unit (Fassett and Hinds, 1971). The Kirtland and Fruitland have similar hydrologic properties. Stone et al. (1983) stated the transmissivity of the "Kirtland Shale-Fruitland Formation" to be less than 10 ft²/d with a specific conductance averaging over 5000 μ mhos (Stone et al., 1983). The Kirtland and Fruitland Formations are also important because they are the principal "aquifers" disturbed by mining of coal in the Fruitland Formation (Stone et al., 1983).

Hydrology & Conclusion

A records search of the NM Office of the State Engineer iWaters database was conducted on a 9-section area centered on the section in which lies the Southern Union #1B well location, 29N 13W section 3. 30 wells with depth to water records were identified. The range of 'average depth to water' is great due to drastic changes in elevation in the area.

The water wells located near the Halford Independent Ditch (as it is named on topography maps) have an average depth to water of 23' at an elevation of 5480' (water table elevation calculates to 5457'). The one well located to the north of the Southern Union #1B at a higher elevation of 5700' records 200' depth to water (water table elevation calculates to 5500').

The water table elevation shows a very gradual change in water table elevation allowing the following calculation: the wells located around the Halford Independent Ditch are 130' lower in ground elevation than the Southern Union #1B. The Southern Union #1B ground elevation is 5610'; the difference

between the two elevations, plus the depth to water/water table calculates to a depth to water of 153' at the Southern Union #1B location.

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., and Hinds, J.S., 1971, Geology and Fuel Resources of the Fruitland Formation and Kirtland Shale of the San Juan Basin, New Mexico and Colorado, USGS Professional Paper 676, 76p.

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