District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., 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

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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.

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
Justing Plaga submit on a application (Form C 144) per individual pit closed loop system below and d tank as alternative second
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.
i. Operator: <u>SG Interests I, LTD</u> OGRID #: <u>20572</u>
Address: P. O. Box 2677 Durango, CO 81302
Facility or well name:
API Number: 30-045-35430 OCD Permit Number:
U/L or Qtr/Qtr <u>H</u> Section <u>24</u> Township <u>21N</u> Range <u>8W</u> County: <u>San Juan</u>
Center of Proposed Design: Latitude <u>36.04065</u> Longitude <u>107.62845</u> NAD: 1927 1983
Surface Owner: 🛛 Federal 🗌 State 🗋 Private 🗋 Tribal Trust or Indian Allotment
2. RCVD APR 24'13
$Temporary: \square Drilling \square Workover $
Permanent Emergency Cavitation P&A
IXILINED LILININED LINETTYNE: Thickness 20 mil IXILLDPET FHDPET FPV(CLITO)
String-Reinforced
□ String-Reinforced
X Lined Unlined Liner type: Thickness 20mil X LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded X Factory Other Volume: 1675bbl Dimensions: L65x W40x D8 3.
X Lined [] Unlined Liner type: Thickness0 mil X LLDPE [] PVC [] Other String-Reinforced Liner Seams: [] Welded X Factory [] Other Volume:0 bbl Dimensions: L05x W40x D8 3. Closed-loop System: Subsection H of 19.15.17.11 NMAC
X Lined Unlined UnlinedUnlined Unlined Unlined Unlined
X LinedUnlined
LinedUnlined Liner type: Thickness20mil X LLDPEHDPEPVCOther String-Reinforced Liner Seams: Welded ⊠ FactoryOther Volume:1675bbl Dimensions: L_65 _ x W_40 _ x D_8
X Lined Unlined Liner type: Thickness 20 mil X LLDPE _ HDPE _ PVC _ Other
X Lined Unlined Liner type: Thickness 20 mill X LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: 1675 bbl Dimensions: L_65 x W_40 x D_8 3.
X Lined Unlined Liner type: Thickness 20mil X LLDPE PVC Other J Liner Seams: Welded X X X J Closed-loop System: Subsection H of 19.15.17.11 NMAC Yolume: J Closed-loop System: Subsection H of 19.15.17.11 NMAC Yolume:
X Lined Unlined Liner type: Thickness 20 mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: 1675 bbl Dimensions: L_65_x W_40_x D_8 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 Line Seams: Welded Factory Other
X Lined Unlined Liner type: Thickness 20 mil X LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other
K Lined Unlined Liner type: Thickness 20 mil K String-Reinforced Liner Seams: Welded Factory Other Volume: 1675 bbl Dimensions: L 65 x W 40 x D 8 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
X Lined Unlined Liner type: Thickness
String-Reinforced Liner Seams: Welded Factory Other Volume:

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 <u>4' hogwire fencing with 2 strands of barbed wire on top</u>

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

Screen 🗌 Netting 🗋 Other

10.

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 19.15.16.8 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 office for consideration of approval.

Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.

 Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. 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
 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

11. <u>Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist</u> : Subsection B of 19.15.17.9 NMAC <i>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.</i>	
 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 19.15.17.10 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 NMA and 19.15.17.13 NMAC 	٩C
Previously Approved Design (attach copy of design) API Number: or Permit Number:	
12. <u>Closed-loop Systems Permit Application Attachment Checklist</u> : Subsection B of 19.15.17.9 NMAC <i>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.</i>	
 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 NM 	AC
Previously Approved Design (attach copy of design) API Number:	
Previously Approved Operating and Maintenance Plan API Number:	
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)	
attached.	
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 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) Internative	
 ^{15.} Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC 	

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16. Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks	or Haul-off Bins Only: (19.15.17.13.E) NMAC)
Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids facilities are required.	and drill cuttings. Use attachment if n	nore than two
Disposal Facility Name: Disposal Fac	ility Permit Number:	
Disposal Facility Name: Disposal Fac	ility Permit Number:	
Will any of the proposed closed-loop system operations and associated activities occur on or in a Yes (If yes, please provide the information below) No	reas that will not be used for future serv	vice and operations?
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 Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15	3 of Subsection H of 19.15.17.13 NMAC .13 NMAC 5.17.13 NMAC	2
^{17.} Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. provided below. Requests regarding changes to certain siting criteria may require administratic considered an exception which must be submitted to the Santa Fe Environmental Bureau offic demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	Recommendations of acceptable sour live approval from the appropriate distr ce for consideration of approval. Justij	ce material are vict office or may be fications and/or
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 fro	m 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 fro	m 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 fro	m nearby wells	⊠ Yes □ No □ NA
 Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant water lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	course or lakebed, sinkhole, or playa	🗌 Yes 🛛 No
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	at the time of initial application.	🗌 Yes 🛛 No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five ho watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in exist - NM Office of the State Engineer - iWATERS database; Visual inspection (certification)	useholds use for domestic or stock tence at the time of initial application. of the proposed site	🗌 Yes 🛛 No
 Within incorporated municipal boundaries or within a defined municipal fresh water well field coadopted pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtained fr 	overed under a municipal ordinance om 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 F Society; Topographic map 	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 following it	ame must be attached to the closure of	m Plansa indicata
by a check mark in the box, that the documents are attached.		m. Tieuse maicaile,

Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC

Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC

Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC

Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
 Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC

Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

1 hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief. Name (Primt) Mike L. Mankin Signature:
Name (Print):
Signature: July July July e-mail address: mgcattle@yahoo.com Telephone: 503-634-6209 /595-654-6393 Jm OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: OCD Hermit Number: Approval Date: 5/6/2013 Title: OCD Permit Number: Approval Date: 5/6/2013 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. 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 Method: Closure Completion Date: Closure Completion Date: 20. Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: 11 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 different from approved plan, please explain. 33. 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 facilit
e-mail address: mgcattle@vahoo.com Telephone:
¹⁰ OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature:
Title: OCD Permit Number: 21. Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities. 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 Completion Date: 22. Closure Completion Date: 22. Closure Report Regarding Waste Removal On-Site Closure Method Alternative 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. Za. 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 Name: Disposal Facility Permit Number: Disposal Facility Permit Number: Disposal Facility Permit Number: Disposal Facility Permit Number: Disposal Facility Name: Disposal Facility Permit Number: Disposal Facility Name: Disposal Facility Permit Number: Disposal Facility Perm
21. Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Method: Closure Completion Date: 12. Closure Report Regarding Waste Removal On-Site Closure Method Waste Closure Method 13. Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: 13. 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: 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 Reclanation (Photo Documentation) Site Reclanation (Application Rates and Seeding Technique No
22. Closure Method: Waste Excavation and Removal On-Site Closure Method 3. 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 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: Soil Backfilling and Cover Installation Revegetation Application Rates and Seeding Technique 24. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.
 23. 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:
Disposal Facility Name: Disposal Facility Permit Number: Disposal Facility Name: Disposal Facility Permit Number: Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) No Required for impacted areas which will not be used for future service and operations: Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique 24. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.
Disposal Facility Name:
Were the closed-loop system operations and associated activities performed on or in areas that <i>will not</i> be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) No Required for impacted areas which will not be used for future service and operations: Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique 24. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.
Required for impacted areas which will not be used for future service and operations: Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique 24. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.
^{24.} <u>Closure Report Attachment Checklist</u> : Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.
 Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)
On-site Closure Location: Latitude Longitude NAD: 1927 1983
 25. Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.
Name (Print): Title:
Signature: Date:
e-mail address: Telephone:

RECEIVED

APR 23 2013

Farmington Field Office Bureau of Land Management

April 23, 2013

.,

Steven C. Willems Bureau of Land Management, DOI Farmington Field Office 6251 College Blvd., Suite A Farmington, NM 87402

RE: Federal 21-8-24 #1, API # 30-045-35430

Craig,

Provisions of the New Mexico Oil Conservation Rule 17 require notification to the surface owner of intent to open a temporary pit during drilling and completion operations.

This shall serve as notification of our intent to open a temporary drilling pit on the subject location. After drilling operations cease, SGI plans to close the temporary pit per the approved APD and the NMOCD rules.

Mile & Markins

Mike L. Mankin Agent for SG Interests.

HYDROGEOLOGIC DATA for the Federal 21-8-24 #1

The proposed well, Federal 21-8-24 #1 is located in the SENE quarter/quarter of S24-T21N-R8W. Ground level elevation at this site is at 6730'. The approximate elevation of the water bearing formation is 264'. No water wells within 500 feet of the proposed well were identified using the iWaters Database from the Office of the State Engineer.

The closest wells from the surrounding townships are approximately 5 miles to the west in section 20 and 28 of 21N 08W.

The aquifer in this area of the San Juan Basin primarily consists of the Ojo Alamo Sandstone. The top of the Ojo Alamo at this drill site is estimated to be approximately 205 feet below the surface. The Ojo Alamo is a permeable conglomerate and medium to very coarse sandstone interlayered with relatively impermeable shale. This aquifer contains fresh to moderately saline water. Dissolved-solids concentrations generally increase along the groundwater flow path from less than 1,000 milligrams per liter near recharge areas to about 4,000 as the formation is deeper into the basin.

Reference:

GROUND WATER ATLAS of the UNITED STATES Arizona, Colorado, New Mexico, Utah, HA 730-C, USGS, S.G. Robson and E.R. Banta, 1995

iWaters (Waters Database), New Mexico Office of the State Engineer, 2007



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)	, (quar (quar	ters	s are	e 1=l e sm	NW 2= allest	NE 3=SV	V 4=SE)) (NAD8	3 UTM in meters)	(In feet)
	POD		-		•			۰.			
	Sub-		Q	Q	Q				s'	Depth	Depth Water
POD Number	Code basin C	ounty	64	16	4 <u>S</u> e	ic Tw	s Rng	<u> </u>		Weil	Water Column
SJ 00832 O-1-EXPLOR		SJ	4	3	1 28	8 211	W80	257190	3989938* 🕤	53	
SJ 00832 O-5-EXPLOR		SJ	1	2	1.20) 211	W80	255860	3992216* 🌍	348	
									Average Depth	o Water:	
									Minimu	m Depth:	
									Maximur	n Depth:	**
Record Count: 2			-							• • •	

PLSS Search:

Township: 21N Range: 08W

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer Point of Diversion Summary

				(quart	ers are	1= e sr	NW 2=	NE 3= to lar	-SW 4=SE) (NAD83				
1	POD Number							Tws	Rng				Y	
:	SJ (0832 O-5-E	KPLOR	1	2	1	20	21N	08W	25586	60	399221	6* 🚱	2
Driller License	e: N	10-TE DRILL	ING, IN	C.	•		·							
Driller Name:														
Drill Start Date	e: 1	1/20/1978	Dri	ll Fini	sh Da	te	:	1 1/:	22/1978	PI	ug	Date:		
Log File Date:	Log File Date: 12/18/1978 PCW Rcv Dat									Sc	bui	rce:	/	Artesian
Pump Type:			Pip	e Dis	charg	e S	Size:			Estimated Yield:				
Casing Size:	Casing Size: 4.50 Depth Well:							348	feet	De	ept	th Water	:	
Wa	ter I	Bearing Stra	tificatio	ns:	То	р	Botte	om	Descrip	tion				
					26	i4	3	21	Sandsto	ne/Grav	vel	/Conglon	nerati	Э
		Casing Pe	erforatio	ons:	То	р	Botte	om						
					25	9	3	39						

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)	(quar (quar	ters	s ai s ai	re i	1=N\ smal	W 2=N	VE 3=SW b largest)	' 4=SE) (NAD8	33 UTM in meters)		(In feet)
	POD												
	Sub-		Q	Q	Q						Depth	Depth	Water
POD Number	Code basin C	ounty	64	16	4	Sec	: Tws	Rng	X	Y	Well	Water	Column
SJ 01824		SA	3	3	1	07	21N	07W	263575	3994603* 🔿	100		
SJ 03562		SA	3	3	1	07	21N	07W	263575	3994603* 🕥	680	240	440
										Average Depth to	o Water:	240 fe	et
										Minimun	n Depth:	240 fe	eet
										Maximun	n Depth:	240 fe	eet
Record Count: 2		•									• •		

PLSS Search:

Township: 21N Range: 07W

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer Point of Diversion Summary

		(quarte	ers are 1=	NW 2≃	NE 3=)				
		(quar	ters are s	mallest	to larg	(NAD83 U)			
PC	D Number	Q64 (Q16 Q4	Sec	Tws	Rng	X	۱	<i>,</i>	
SJ	03562	3	3994603	·6						
Driller License:	COYOTE DRILLI	NG, INC.								
Driller Name:	LOPEZ, CLIFFO	RD								
Drill Start Date:	03/24/2005	Drill Finis	sh Date	:	03/2	26/2005	Plu	g Date:		
Log File Date:	07/18/2005	PCW Rcv		Sou	Shallow					
Pump Type:		Pipe Disc	harge \$	Size:			Estimated Yield: 25			
Casing Size:	ing Size: 4.00 Depth Well:					feet	th Water:	ter: 240 feet		
Wate	r Bearing Stratific	cations:	Тор	Bott	om	Descrip	tion			
		640	(680	Sandsto	ne/Grave	I/Conglom	erate		
	orations:	Тор	Bott	om						
		580	(660						

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Federal 21-8-24 #1

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I, Mike Mankin certify that I have visually inspected the above well location and that the proposed temporary drilling pit is not:

-within 300 feet of a continuously flowing water course or 200 feet of any other significant water course or lake bed, sinkhole or playa lake.

-within 300 feet of a permanent residence, school, hospital, institution or church.

-within 500 feet of a private domestic water well.

-within incorporated municipal boundaries.

I, Mike Mankin certify that I have visually inspected the above well location and that there are no wetlands located within a 500 foot radius. There is no data available from the U S Fish and Wildlife identification map as to the existence of a wetland.

its & Mankin

Mike L. Mankin Dated: 4-23-2013





San Juan, NM



SG Interests I Ltd Federal 21-8-24 HI San Juan 1 NM



www.source3.com



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Pit to be lined with 20 mil LLDPE Material

Liner will be anchored in anchor ditch

SG Interests I, Ltd.

Temporary Pit Design & Construction Plan

Re: Federal 21-8-24 #1

- 1 SG Interests will design and construct a temporary pit to contain liquids, solids, prevent contamination of fresh water, and protect public health and environment.
- 2 Prior to constructing the pit, topsoil will be stockpiled per APD for later use in reclamation.
- 3 SGI will have sign on location in compliance with 19.15.3.103 NMAC.
- 4 SGI shall construct all new fences utilizing 48" hog wire on bottom with a single strand of barbed wire on top. T-posts will be installed a minimum of every 12 feet and corners will be braced. Temporary pits will be fenced at all times except during drilling or workover operations when the rig side of the fence will be temporarily removed for operational purposes.
- 5 SGI shall construct the temporary pit so the foundation and interior slopes are compact, free of rocks, debris, sharp edges and irregularities to prevent liner failure.
- 6 SGI shall construct the pit so the slopes are no steeper than two horizontal feet to one vertical foot. Any other design will be submitted for administrative approval.
- 7 All temporary pits will be lined with a 20 mil string reinforced, LLDPE liner, complying with EPA SW-846 method 9090A requirements.
- 8 Geo-textile will be installed beneath the liner if integrity will be compromised from sharp edges or irregularities.
- 9 Liner will be anchored in the bottom of a compacted earth filled trench at least eighteen inches deep.
- 10 Liner seams will be minimized and oriented up and down, not cross slope. Factory seams will be used wherever possible. Field seams will be overlapped four to six inches and welded by qualified personnel. Seams will be minimized in corners and irregularly shaped areas.
- 11 The liner shall be protected from any fluid force through the use of mud pit slides or a manifold system.
- 12 Diversion ditches and berms will be used to prevent natural runoff from entering pit.
- 13 Pit volume will not exceed 10 acre feet, including freeboard.
- 14 Temporary blow pits will be constructed to allow fluid discharged to unlined pit, as allowed by Rule 19.15.17.11.F.11, to gravity flow into lined pit.
- 15 Freestanding liquids will not be allowed in unlined portion of a temporary blow pit.

SG Interests I, Ltd.

Temporary Pit - Maintenance & Operating Plan

Re: Federal 21-8-24 #1

- 1 SG Interests will design and construct a temporary pit to contain liquids, solids, prevent contamination of fresh water, and protect public health and environment.
- 2 SGI will dispose of drilling fluids at Basin Disposal Inc., Permit # NM-01-005.
- 3 SGI will not dispose of or store any hazardous waste in any temporary pit.
- 4 If the pit liner's integrity is compromised, or if any penetration of the liner occurs above the liquid surface, the NMOCD Aztec Division office will be notified by phone or e-mail within forty eight hours.
- 5 If a leak develops below the liquid level SGI shall remove all liquids above the damaged liner within forty eight hours and repair the damage to the liner. For leaks less than 25 Bbls SGI shall notify the NMOCD Aztec office within forty eight hours of the discovery. For leaks greater than 25 Bbls SGI shall notify the NMOCD Aztec office within twenty four hours of the discovery. In addition verbal notification shall be given to the divisions Environmental Bureau Chief.
- 6 The liner shall be protected from any fluid force through the use of mud pit slides or a manifold system.
- 7 Diversion ditches and berms will be used to prevent natural runoff from entering pit.
- 8 SGI shall immediately remove any visible layer of oil from the surface of the temporary pit. An oil absorbent boom will be used to contain and remove oil from the pits surface. An oil absorbent boom will be kept on-site until closure of pit.
- 9 Only fluids generated during the drilling or completion process will be discharged into a temporary pit.
- 10 The pit will be kept free of miscellaneous solid waste and or debris.
- 11 During drilling or completion operations, SGI will inspect the temporary pit at least once daily to insure compliance with this plan. Inspections will be logged in the IADC reports and SGI daily drilling reports. These reports will be filed with the NMOCD Aztec Division office upon closure of the pit.
- 12 After drilling or completion operations, SGI will inspect the temporary pit at least once weekly so long as liquids are present in the pit. Inspections will be logged as a continuation of the SGI daily drilling report and will be filed with the NMOCD Aztec Division office upon closure of the pit.
- 13 The temporary pit shall always maintain a minimum of two feet of freeboard.
- 14 Freestanding liquids will be removed from a temporary pit within 30 days from the date the drilling rig is released and removed as needed thereafter until the pit is closed.
- 15-SGI will remove all freestanding liquids from a cavitation pit within 48 hours after completing a cavitation. SGI may request additional time to remove liquids from the NMOCD Aztec Division office if SGI is not able to remove liquids in 48 hours.

SG Interests I, Ltd.

Temporary Pit - Closure Plan

Re: Federal 21-8-24 #1

All closure activities will include proper documentation and be available for review upon request and will be submitted to the NMOCD Aztec Division office within 60 days of pit closure. Closure report will be filed on form C-144 and incorporate the following:

- Details on capping and covering (where applicable)
- Plot Plan (Pit Diagram)
- Inspection Reports
- Sampling Results
- C-105
- 1 All freestanding liquids will be removed at the start of the pit closure process from the pit and disposed of in a division approved facility or recycle, re-use or reclaim the liquids in a manner that the appropriate division district office approves. SGI plans to dispose of drilling fluids at Basin Disposal Inc., Permit # NM-01-005, unless otherwise noted.
- 2 The method of closure for all temporary pits will be on-site burial as long as all the criteria listed in sub-section B of 19.15.17.13 NMAC are met.
- 3 The surface owner shall be notified of SGI closure plan using a means that provides proof of notice i.e., certified mail, return receipt requested or electronic mail with read receipt.
- 4 Temporary pits will be closed, re-contoured, and re-seeded 6 months after drilling rig is released.
- 5 "Notice of Closure" will be given to the NMOCD Aztec Division office within 72 hours of closure via electronic mail or verbally. The "Notification of Closure" will include:
 - i. Operators Name
 - ii. Location by Unit Letter, Section, Township, and Range
 - iii. Well Name and API number.
- 6 A five point composite sample will be taken of the pit using sampling tools and tested per 19.15.17.13.B.1.b. NMAC. Maximum limits for on-site burial are listed below:

Components	Test Method	Limit (mg/kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW 846 8021B or 8260B	50
TPH	EPA SW 846 418.1	2500
GRO/DRO	EPA SW 846 8015M	500
Chlorides	EPA 300.1	1000

In the event the criteria are not met all contents and remediation will be handled per 19.15.17.13.B.1 NMAC. If ground water is 50'-100' below the bottom of the buried waste all limits are the same except the chloride limit is reduced to 500 mg/kg. The sampling can be taken prior to mixing but if the contents exceed the parameters then contents must be sampled after mixing and meet the criteria before closure.

- 7 Pit contents shall be mixed with non waste containing earth material in order to achieve the solidification process. The solidification process will be accomplished using a combination of natural drying and mechanical mixing. Pit contents will be mixed with non waste, earth material to a consistency that is deemed safe and stable. The mixing ratio shall not exceed 3 parts clean soil to 1 part pit contents.
- 8 Liner of temporary pit will be removed above "mud level" after stabilization. Liner will be cut and all excessive liner will be removed and taken to a licensed disposal facility.
- 9 Upon completion of solidification and satisfactory test results the pit area will be backfilled and compacted with non-waste earth material. A minimum of four feet of cover with the top foot (or background thickness of topsoil whichever is greater) suitable to establish vegetation at the site.
- 10 The pit cover will be re-contoured and re-vegetated complying with subsections G, H, & I of 19.15.17.13 NMAC.
- 11 Notification will be sent to NMOCD Aztec Division office when reseeding is completed.
- 12 SGI will seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished by drilling on the contour whenever practical or by other division approved methods. APD stipulated seed mixes will be used on Federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds. Seed cover will be maintained thru two consecutive growing seasons. Repeat seeding or planting will be continued until successive vegetative growth occurs.
- 13 The closed temporary pit will have a steel marker no less than four inches in diameter, extending four feet above mean ground level, extending and cemented in a hole three feet deep, in the center of the onsite burial upon completion of the closing. The marker will be permanently welded, stamped or engraved to include the operator name, lease name, well name and number, unit number, section, township, range, and indicator that the marker is an onsite burial location. SGI reserves the right to install a temporary flat plate marker, one foot by two feet, with the same information if it is deemed necessary for safe operation on the wellsite during the productive life of the well. A full size marker will then be installed upon final abandonment.

Mankin Land Company, LLC 15 Road 3120 Aztec, NM 87410 505-634-6393

> RCVD MAY 6 '13 OIL CONS. DIV.

May 2, 2013

DIST.3

Mr. Jonathan D. Kelly Compliance Officer Oil Conservation Divison-EMNR 1000 Rio Brazos Aztec, NM 87410

RE: Federal 21-8-24 #1 API #30-045-35430 Temp Pit Permit #11193

Dear Mr. Kelly,

Attached is the C-102 with well pad diagram that was inadvertently left out of the C-144 pit application package. Please let me know if you have any further questions or concerns.

and the second sec

Thank you,

Not I Martin

Mike L. Mankin

Enclosures

RCVD MAY 6'13 OIL CONS. DIV. DIST. 3

District I

1625 N. French Dr, Hobbs, NM 88240 Phone: (575)393-6161 Fax: (575)393-0720 District II

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

□ AMENDED REPORT

1010. (505) 110 \$		V	VELL L	OCATIC	ON AND ACF	REAGE DEDIC	ATION PLA	Т	
·····	API Number			² Pool Code			³ Pool N	ame	Edu Sur-
⁴ Property Co	de				s Propert	y Name 21-8-24			• Well Number
⁷ OGRID N 20572	lo.				* Operator SG INTERES	Name STS I, LTD.			⁹ Elevation 6730
					¹⁰ Surface I	Location			
UL or Lot No. H	Section 24	Township 21 N	Range 8 W	Lot Idn.	Feet from the 1350	North/South Line	Feet from the 650	East/West Line	County San Juan

Bottom Hole Location If Different From Surface									
UL or Lot No.	Section	Township	n Range	Lot Idn.	Feet from the	North/South Line	Feet from the	East/West Line	County
¹² Dedicated Acres ¹³ Joint or Infill		14 Consolidation	n Code 15 (Order No.					

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16	N 89	°40' W	79.9	91 Ch.		¹⁷ OPERATOR CERTIFICATION Thereby certify that the information contained herein is true and complete to	
00 Ch.				1350'	80.99 Ch.	the best of my knowledge and belief, and that this organization either owns a working interest or anleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsary pooling order heretofore entered by the division.	
81.	- ····		Lat. 36.040 Long. 107.	067° N 62858° W		Signature Date	
	ł					Printed Name	
		Sec.				E-mail Address	
			24			¹⁸ SURVEYOR CERTIFICATION	
						I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by	
						ine or under my supervision, and that the same is true	
						and correct to the best of my belief.	
1. 1					ы С	30F./I.NA2012	
0.2					0°1:	Date of Survey NMEY	
Z					Ν	Signature Sur or Protessional Surveyor	
						# \$466	
						William E. Mahoke II	
N 89 ⁹ 37' W			80.17 Ch.			Certificate NumbrofES8768	

Bearings from GLO PLat



C-C'

6730	 	 	77/7/7/	