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

Form C-144 Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.

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

BGT 1	I
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Pit, Below-Grade Tank, or

JGT I	Proposed Alternative Method Permit or Closure Plan Application
	Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method
, i	Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request
lease be advised that nvironment. Nor do	approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the es approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
ı. Operator:John I	E. Schalk OGRID #:11996
Address:7415	E. Main Street Farmington, NM 87402
	me:Schalk 29-4 #004
	OCD Permit Number:
U/L or Qtr/Qtr	DSection32Township29NRange4WCounty:Rio Arriba
Center of Proposed	Design: Latitude36.68600 Longitude107.28275 NAD83
Surface Owner:	Federal State Private Tribal Trust or Indian Allotment
2.	
Pit: Subsection	on F, G or J of 19.15.17.11 NMAC
Temporary: \square Dr	rilling Workover
Permanent I	Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no
Lined Unli	ined Liner type: Thicknessmil
☐ String-Reinford	ped .
Liner Seams: 🔲 V	Velded Factory Other volume: bbl Dimensions: Lx Wx D
1	
⊠ Below-grade ta	ank: Subsection I of 19.15.17.11 NMAC
Volume: 95	bbl Type of fluid:Produced Water
	material: Fiberglass
	ntainment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
	alls and liner Visible sidewalls only Other
	nessmil
4.	
Alternative Mo	ethod:
Submittal of an exc	ception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.
5. Fencing: Subsecti	on D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)
	feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital,
institution or churc	sh)
573	t, four strands of barbed wire evenly spaced between one and four feet
Alternate. Plea	se specify_ Four Foot height with mesh T-Post

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j			
Dago 7	Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)		
	 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 		
	Variances 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: Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.		
	9. Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.		
	General siting		
	Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - □ NM Office of the State Engineer - iWATERS database search; □ USGS; □ Data obtained from nearby wells	☐ Yes ☑ No ☐ NA	
	Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	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. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No	
	Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No	
	 Within an unstable area. (Does not apply to below grade tanks) 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. (Does not apply to below grade tanks) - FEMA map	Yes No	
	Below Grade Tanks		
	Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☑ No	
	Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☑ No	
44 DA	Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)		
.00.10000	Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No	
7/15//	Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ No	
OCD.	- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		
Jud bourie	Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No	
Roc	Form C-144 Oil Conservation Division Page 2 of C	5	

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map;	Topographic map; Visual inspection (certification) of the p	proposed site Yes No			
Temporary Pit Non-low chloride drilling	fluid				
Within 300 feet of a continuously flowing watercourse, or or playa lake (measured from the ordinary high-water mar - Topographic map; Visual inspection (certification					
	ital, institution, or church in existence at the time of initial	application.			
Within 500 horizontal feet of a spring or a private, domest watering purposes, or 1000 feet of any other fresh water w	Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site				
Within 300 feet of a wetland US Fish and Wildlife Wetland Identification map.	Topographic map; Visual inspection (certification) of the	proposed site			
Permanent Pit or Multi-Well Fluid Mana	ngement Pit				
Within 300 feet of a continuously flowing watercourse, or lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification)	200 feet of any other significant watercourse, or lakebed, s) of the proposed site	sinkhole, or playa			
Within 1000 feet from a permanent residence, school, hos - Visual inspection (certification) of the proposed s	pital, institution, or church in existence at the time of initial ite; Aerial photo; Satellite image	l application.			
initial application.	Il used for domestic or stock watering purposes, in existence abase search; Visual inspection (certification) of the propos				
Within 500 feet of a wetland.	Topographic map; Visual inspection (certification) of the				
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC					
☐ Previously Approved Design (attach copy of design)	API Number: or Permit Nu	ımber:			
attached. Design Plan - based upon the appropriate requiremed Operating and Maintenance Plan - based upon the a A List of wells with approved application for permed Closure Plan (Please complete Boxes 14 through 18 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements Siting Criteria Compliance Demonstrations - based	ned to the application. Please indicate, by a check mark in ents of 19.15.17.11 NMAC appropriate requirements of 19.15.17.12 NMAC	of Subsection C of 19.15.17.9 NMAC			
Google Porm C-144	Oil Conservation Division	Page 3 of 6			

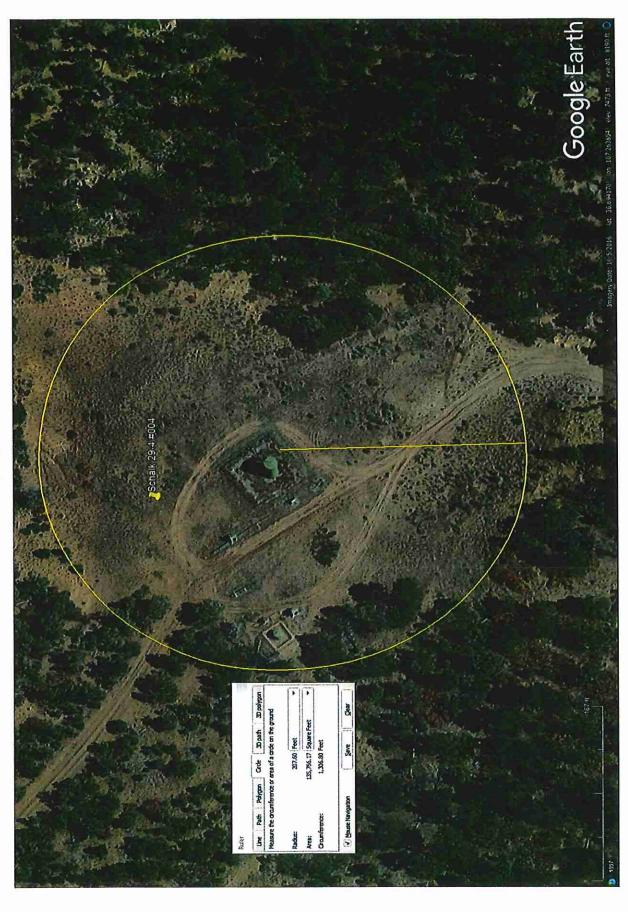
C		
Dagg 4 o	Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the auttached.	locuments are
	☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC ☐ Climatological Factors Assessment	
	Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC	
	Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan	
	☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC	
	Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan	
	Oil Field Waste Stream Characterization Monitoring and Inspection Plan	
	Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
13	13.	
	<u>Proposed Closure</u> : 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 Multi-well Fl	uid Management Pit
	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	
	Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be a 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 C 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 H of 19.15.17.13 NMAC □ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
	15. Stiling Cuitouis (responding on site alcours mothed early), 10 15 17 10 NIMAC	
	Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. F 19.15.17.10 NMAC for guidance.	
	Ground water is less than 25 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 25-50 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 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
MAG NA-00-1	Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
		☐ Yes ☐ No
0000/5	Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application.	☐ Yes ☐ No
. 7/1	- NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	
OCI	Written confirmation or verification from the municipality; Written approval obtained from the municipality Within 300 feet of a wetland.	☐ Yes ☐ No
ny po	US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
ocoin.	Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	S. S
0	Form C-144 Oil Conservation Division Page 4 o	f 6

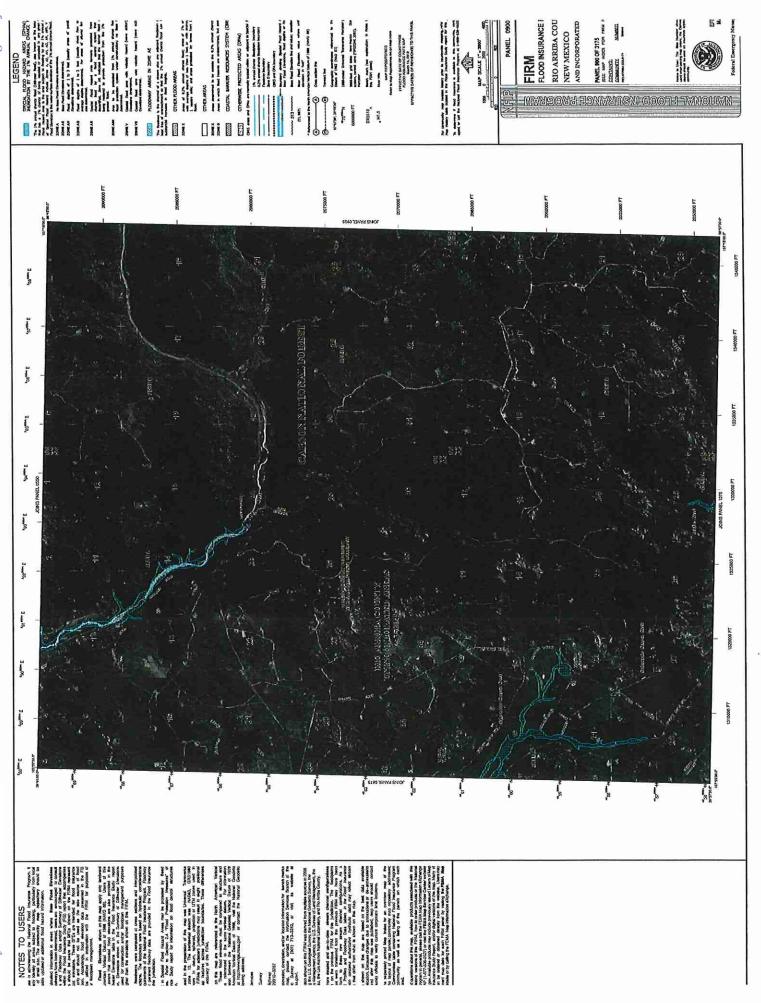
Form C-144 Page 4 of 6 Oil Conservation Division

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adopted pursuant to NMSA 1978, Section 3-27-3, as amended Written confirmation or verification from the municip	d. pality; Written approval obtained from the municipality	☐ 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; N Society; Topographic map	NM Bureau of Geology & Mineral Resources; USGS; NM Geological		
Within a 100-year floodplain FEMA map		☐ Yes ☐ No	
On-Site 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. 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 E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K 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 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements 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 H of 19.15.17.13 NMAC			
Operator Application Certification: I hereby certify that the information submitted with this application: Name (Print):	ication is true, accurate and complete to the best of my knowledge and l Title:Regulatory Compliance ManagerAgent/Repr		
e-mail address:vanessa@walsheng.net	Telephone:505-787-9100		
18	plan) Closure Plan (only) OCD Conditions (see attachment)	:	
18. OCD Approval: Permit Application (including closure p	plan) X Closure Plan (only)	0/2020	
18	plan) X Closure Plan (only))/2020	
OCD Approval: Permit Application (including closure processing the processing of the processing that the processing the processing of the	plan) Closure Plan (only) OCD Conditions (see attachment) Approval Date: 7/20 OCD Permit Number:	ing the closure report.	
18. OCD Approval: Permit Application (including closure possible) OCD Representative Signature: Title: Environmental Specialist 19. Closure Report (required within 60 days of closure complete Instructions: Operators are required to obtain an approved The closure report is required to be submitted to the divisions section of the form until an approved closure plan has been closure Method:	plan) Closure Plan (only) OCD Conditions (see attachment) Approval Date: 7/20 OCD Permit Number:	ing the closure report. not complete this	
18. OCD Approval: Permit Application (including closure port of Closure Method: Title: Environmental Specialist 19. Closure Report (required within 60 days of closure complete Instructions: Operators are required to obtain an approved The closure report is required to be submitted to the divisions section of the form until an approved closure plan has been 20. Closure Method: The Closure Method:	Closure Plan (only) OCD Conditions (see attachment) Approval Date: 7/20 OCD Permit Number:	ing the closure report. not complete this d-loop systems only)	
18. OCD Approval: Permit Application (including closure processes of the	Closure Plan (only) OCD Conditions (see attachment) 7/20 Approval Date: 7/20	ing the closure report. not complete this d-loop systems only)	

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Distance is not within 100' of water course or within 200' feet of a spring of a fresh water well used for livestock or human consumption Schalk 29-4 004







Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

PLSS Search:

Section(s): 32

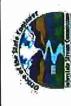
Township: 26N

Range: 04W

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.

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WATER COLUMN/ AVERAGE DEPTH TO WATER



Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

PLSS Search:

Section(s): 33

Township: 26N Range

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.

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WATER COLUMN/ AVERAGE DEPTH TO WATER



Water Column/Average Depth to Water

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

(NAD83 UTM in meters) (quarters are smallest to largest)

No records found.

PLSS Search:

31

Section(s):

Township: 26N

Range: 04W

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.

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WATER COLUMN/ AVERAGE DEPTH TO WATER



Water Column/Average Depth to Water

(NAD83 UTM in meters) (quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

No records found.

PLSS Search:

32

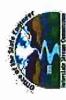
Section(s):

Township: 25N

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.

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WATER COLUMN/ AVERAGE DEPTH TO WATER



Water Column/Average Depth to Water

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

(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

PLSS Search:

Section(s): 32

Township: 23N Range: 04W

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.

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WATER COLUMN/ AVERAGE DEPTH TO WATER

John E Schalk San Juan Basin

Lease Name: Schalk 29-4 #004

API No.:30-039-21139

Unit D, Section 32, Township 29N, Range 04W, Rio Arriba County

The Schalk 29-4 #004 is in the Carson National Forest with a referenced elevation of 7474' feet. An administrative and site review was conducted and determined that the depth to ground water is greater than 51' and a closure criterion is requested at the below closure based on the following information.

51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 CI B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

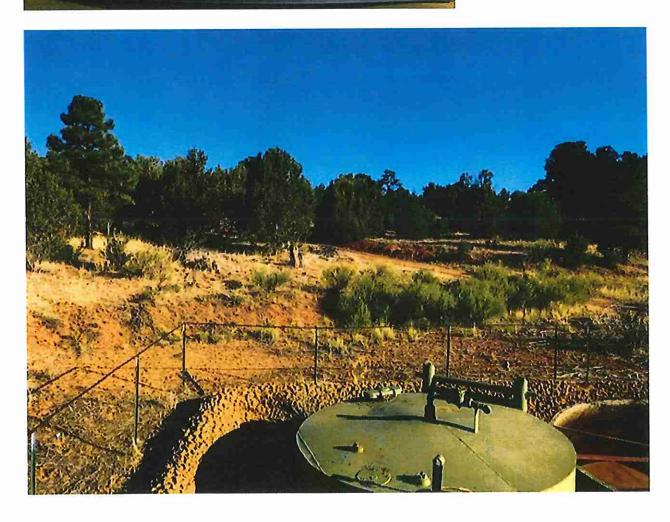
Distance is not within 100' of water course or within 200' of a spring of fresh water well used for livestock or human consumption.

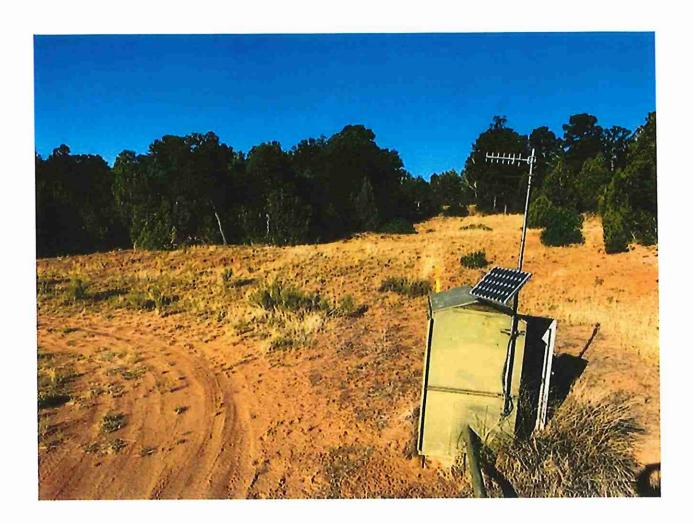
A review was conducted in the New Mexico State Engineers water data base in sections 32, 33 and 34 29N and 04W and was determined to bring back no results of water well referees. As well a well file was review was conducted to determine if any other BGT registrations were identified and all referenced registrations had groundwater that was determined to be above 50'. Referenced site utilized was the San Juan 29-4 Unit #201 API 30-039-25372 with depth to ground water per cathodic report attached is greater than 100'. The referenced distance between the sites is 1.13 miles.

Based on a review of the FIRM & FEMA Map the area is not in a flood plain. The nearest spring is the Cedar Spring t ½ mile to the East of the Schalk 29-4 #004 with an elevation of 7083' with a difference of elevation of 391'. No other springs nor surface water was noted in the referenced topo map.

A site inspection was conducted of the area as well and there are no noted water sources in a half mile radius of the site.

JOHN E. SCHALK SCHALK 29-4#4 1100' FNL & 790' FWL SEC. 32 T-29N R-4W LSE. # NM 18328 ELEV. 7386' RIO ARRIBA CO. N.M.







DATA SHEET FOR DEEP GROUND BED CATHODIC. PROTECTION WELLS NORTHWESTERN NEW MEXICO

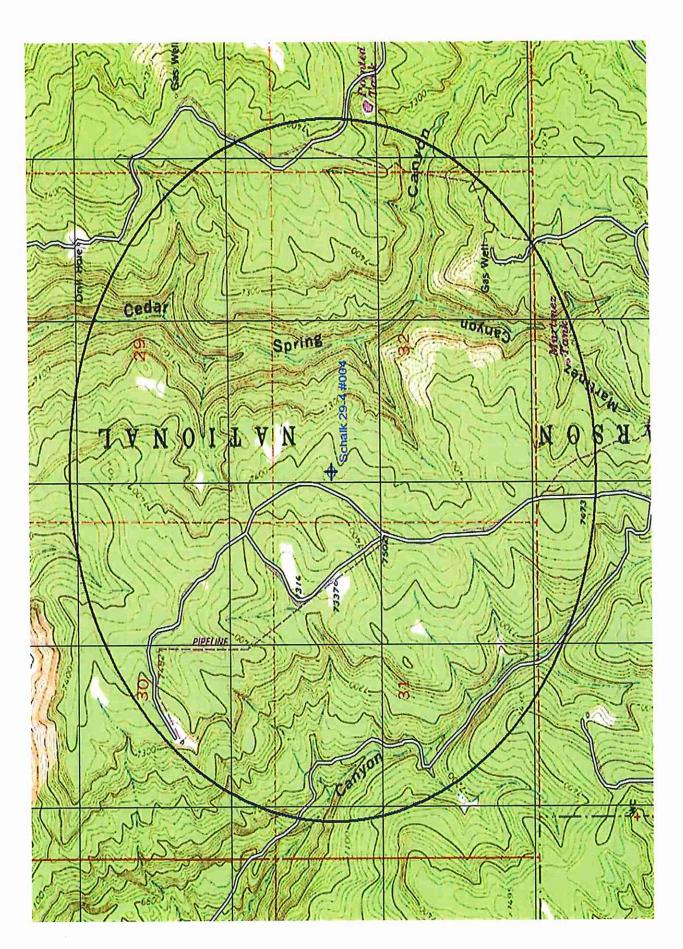
Operator Meridian Oil INC. Location: Un	
in.	it H Sec. 3/ Twp 27 Rng 04
Name of Well/Wells.or Pipeline Serviced	* ,
SAN JUAN 29-4 201	
Elevation Completion Date Total Depth	
Casing Strings, Sizes, Types & Depths 3/2/ Sel	98 of 8 PVC CASING.
NO GAS, WATER, OF BOULders Were ENCOUNTE	
If Casing Strings are cemented, show amounts & to	
W17H 20 SACKS.	The second second
If Cement or Bentonite Plugs have been placed, s	on the saldsachames of a
12 Cement of Bentonite Pings have been placed, s	now depens a amounes used
L. A. C.	
Depths & thickness of water zones with descripti	on of water: Fresh, Clear,
Salty, Sulphur, Etc. DAMP 140	
Depths gas encountered: NO	
Ground bed depth with type & amount of coke bree	20 used: 443 cleep
with 5,700 lbs Loresco Type Sw	
the design of the second of th	202 2/12 22 12 25 12 5 125 12 5 1
Depths anodes placed: 416,380,355,305,295,285,276	,250,240, 231,205,195,185,175,16
Depths vent pipes placed: 443	Ind for Its Fig. II Frag to
Vent pipe perforations: borrow 300'	pegerven
Remarks:	UU JAN 1 1 1996 LY
Remarks:	OIL CORL DAY.
	DIST. 3
	1-11 01611

y OCD: 7/15/20,

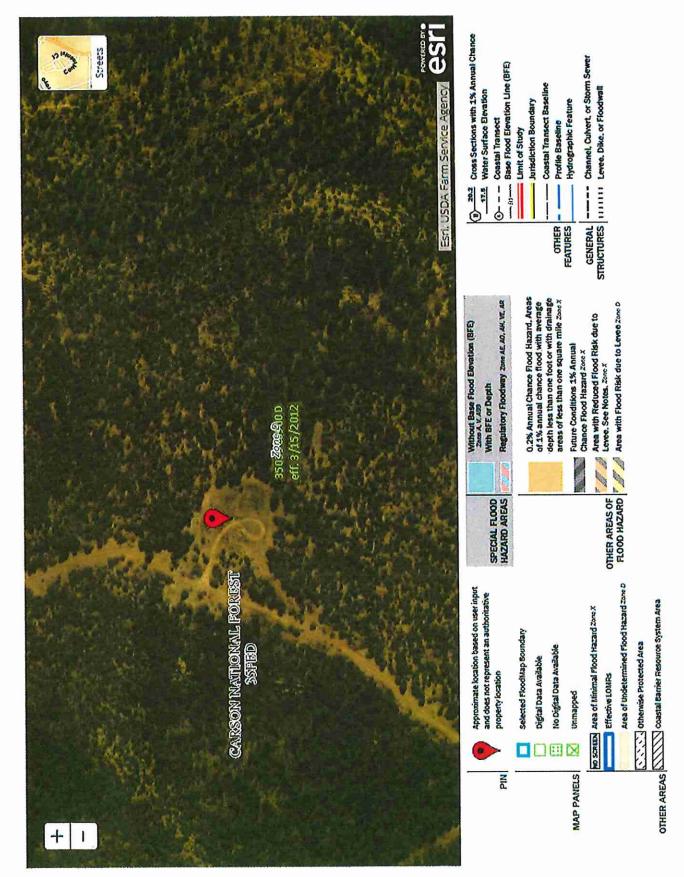
If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.

Schalk 29-4 #004 Topo Map



Schalk 29-4 #004 FEMA MAP 30-039-21139





John E Schalk San Juan Basin Below Grade Tank Closure Plan

Lease Name: Schalk 29-4 #004 API No.: 30-039-21139

Description: Unit D, Section 32, Township 29N, Range 04W, Rio Arriba County

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure requirements of below-grade tanks on John E Schalk locations. This is John E Schalk standard procedure for all below-grade tanks. A separate plan will be submitted for any below-grade tank which does not conform to this plan.

General Plan

- 1. JOHN E SCHALK will obtain approval of this closure plan prior to commencing closure of the below grade tank at this location pursuant to 19.15.17.13.C (1) NMAC
- 2. JOHN E SCHALK will notify the surface owner by certified mail, return receipt requested, that the John E Schalk plans closure operations at least 72 hours, but no more than one week, prior to any closure operation. Notice will include:
 - a. Well Name
 - b. API#
 - c. Well Location
- 3. JOHN E SCHALK will notify the NMOCD Aztec Office by email that the John E Schalk plans closure operations at least 72 hours, but no more than one week, prior to any closure operation. Notice will include:
 - a. Well Name
 - b. API#
 - c. Well Location
- 4. Within 60 days of cessation of operations, JOHN E SCHALK will remove liquids and sludge from below-grade tanks prior to implementing a closure method and will dispose of the liquids and sludge in a division-approved facility. Approved facilities and waste streams include:
 - a. Soils, tank bottoms, produced sand, pit sludge and other exempt wastes impacted by petroleum hydrocarbons will be disposed of at: Envirotech: Permit #NM01-0011 and IEI: Permit # NM01-0010B
 - b. Produced Water will be disposed of at:

 Basin Disposal: Permit # NM01-005 and JOHN E SCHALK owned saltwater Disposal

 Facilities

- 5. Within six (6) months of cessation of operations, JOHN E SCHALK will 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. If there is any equipment associated with a below-grade tank, then the John E Schalk shall remove the equipment, unless the equipment is required for some other purpose.
- 6. JOHN E SCHALK will collect a closure sample of the soil beneath the location of the below grade tank that is being closed. The closure sample will consist of a five-point composite sample to include any obvious stained or wet soils, or other evidence of contamination. The closure sample will be analyzed for all constituents listed in Table I below, including DRO+GRO, Chlorides, TPH, benzene and BTEX.

Table I				
	Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**	
≤ 50 feet	Chloride***	EPA 300.0 or SM4500 Cl B	600 mg/kg	
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg	
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg	
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg	
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	10,000 mg/kg	
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg	
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg	
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg	
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg	
>100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	20,000 mg/kg	
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg	
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg	
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg	
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg	

- 7. If any contaminant concentration is higher than the parameters listed in Table I of 19.15.17.13 NMAC, the division may require additional delineation upon review of the results and the John E Schalk must receive approval before proceeding with closure. If all contaminant concentrations are less than or equal to the parameters listed in Table I of 19.15.17.13 NMAC, then the John E Schalk can proceed to backfill the pit, pad, or excavation with non-waste containing, uncontaminated, earthen material.
- 8. After closure has occurred, JOHN E SCHALK will reclaim the former BGT area, if it is no longer being used for extraction of oil and gas, by substantially restoring the impacted surface area to the condition that existed prior to oil and gas operations. JOHN E SCHALK will construct the soil cover to the site's existing grade and prevent ponding of water and erosion of the cover materials. The soil cover shall consist of the background thickness of topsoil, or one foot of suitable materials to establish vegetation at the site, whichever is greater. All areas will be reclaimed as early as practicable, and as close to their original condition or land use as possible. They shall be maintained in a way as to control dust and minimize erosion.
- 9. JOHN E SCHALK will complete reclamation of all disturbed areas no longer in use when the ground disturbance activities at the site have been completed. The reseeding shall take place during the first favorable growing season after closure. Reclamation activities will be considered completed when a uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent (50%) of predisturbance levels, and a total percent plant cover of at least seventy percent (70%) of pre-disturbance levels, excluding noxious weeds.
 - *Re-vegetation and reclamation obligations imposed by other applicable federal, state or tribal agencies on lands managed by those agencies shall supersede the above requirements, provided they provide equal or better protection of fresh water, human health and the environment.
- 10. JOHN E SCHALK will notify the Aztec Office of the NMOCD by email when reclamation and closure activities are completed.
- 11. Within 60 days of closure, JOHN E SCHALK will submit a closure report to the Aztec office of the NMOCD, filed on Form C-144. The report will include the following:
 - a. Proof of closure notice to NMOCD and surface owner
 - b. Confirmation sampling analytical results
 - c. Soil backfill and cover installation information
 - d. Photo documentation of site reclamation