District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III

1000 Rio Brazos Road, Aztec, NM 87410

Operator: Four

Energy Minerals and Natural Resources - Department Of Conservation Division 1220 South St. Francis Dr. 1220 S. St. Francis Dr., Santa Fe, NM 8750 2010 MBR PMSanta2Be, NM 87505

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office. For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD

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

State of New Mexico

<u>Propo</u>	sed Alternative Method	Permit or Closure Plan Application	
Type of action: below-grade tank	Closure of a pit, closed-loop Modification to an existing p	for an existing permitted or non-permitted pit, clo	emethod
Instructions: Please submit	one application (Form C-144) per is	individual pit, closed-loop system, below-grade tank or	alternative request
Please be advised that approval of this re environment. Nor does approval relieve	quest does not relieve the operator of lia the operator of its responsibility to com	liability should operations result in pollution of surface wate mply with any other applicable governmental authority's rule	r, ground water or the es, regulations or ordinances.
I. Operator: Four Star Oil & Gas Con	npany	OGRID #: 131944	

Address: P.O. Box 36366 Houston, TX 77236
Facility or well name: J.Q. Marshall #1
API Number: <u>30-045-06772</u> OCD Permit Number:
U/L or Qtr/Qtr Otr/Qtr N Section 1 Township 27N Range 9W County: San Juan
Center of Proposed Design: Latitude 36 599808° Longitude 107 743914° NAD: 1927 1983
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
2.
Pit: Subsection F or G of 19.15.17.11 NMAC
Temporary: Drilling Workover
Permanent Emergency Cavitation P&A
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
3.
Closed-loop System: Subsection H of 19.15.17.11 NMAC
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other
Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other
Liner Seams: Welded Factory Other Other
4.
Below-grade tank: Subsection I of 19.15.17.11 NMAC
Volume: 5 bbl Type of fluid: Recycled Oil
Tank Construction material: _Galvanized
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☑ Visible sidewalls only ☐ Other
Liner type: Thickness mil
5.

Alternative Method:

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, institution or church)	hospitąl, +						
Four foot height, four strands of barbed wire evenly spaced between one and four feet							
Alternate. Please specify Four foot, pipe frame with square wire mesh.							
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)							
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							
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for						
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approoffice or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system. Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.	priate district pproval.						
- Please reference hydrogeologic report and printout from iWATERS database.	☐ 162 ☑ 140						
 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). Please reference the attached topographic map with distance rings. In addition, a field visit was conducted by Envirotech in July 2008 certifying that, at the time, there were no watercourses within the distance specified above. 	☐ 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) - Please reference the attached aerial photo. In addition, a field visit was conducted by Envirotech in July 2008 certifying that, at the time, there were no referenced buildings within the distance specified above.	Yes No						
 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) Please reference the attached aerial photo. In addition, a field visit was conducted by Envirotech in July 2008 certifying that, at the time, there were no referenced buildings within the distance specified above. 	☐ Yes ☐ No ☑ NA						
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - Please reference the attached iWATERS printout. In addition, a field visit was conducted by Envirotech in July 2008 certifying that, at the time, there were no wells or springs within the distances specified above.	☐ 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. The site is not within any known incorporated municipal boundaries, please reference the attached topographic map.	☐ Yes ☒ No ☐ Yes ☒ No						
Within 500 feet of a wetland. - Please reference the attached topographic map with distance rings. In addition, a field visit was conducted by Envirotech in July 2008 certifying that, at the time, there were no wetlands within the distance specified above	☐ Yes ☒ No						
Within the area overlying a subsurface mine. - Please reference the attached topographic map	☐ Yes ☑ No						
 Within an unstable area. Please reference the attached topographic map which includes FEMA flood map data. The map indicates the well site is outside of any known 100 year floodplains. 	Yes No						
Within a 100-year floodplain.							

Temporary Pits, Emergency Pits, and Below-grade Tanks Instructions: Each of the following items must be attached attached. Hydrogeologic Report (Below-grade Tanks) - based upon Hydrogeologic Data (Temporary and Emergency Pits) - Siting Criteria Compliance Demonstrations - based upon Design Plan - based upon the appropriate requirements of Operating and Maintenance Plan - based upon the appropriate Closure Plan (Please complete Boxes 14 through 18, if a and 19.15.17.13 NMAC Previously Approved Design (attach copy of design)	on the requirements of Paragraph (4) of Sub-based upon the requirements of Paragraph on the appropriate requirements of 19.15.17. of 19.15.17.11 NMAC opriate requirements of 19.15.17.12 NMAC applicable) - based upon the appropriate requirements of 19.15.17.12 NMAC	psection B of 19.15.17.9 NMAC (2) of Subsection B of 19.15.17.9 NMAC 10 NMAC quirements of Subsection C of 19.15.17.9 NMAC
Closed-loop Systems Permit Application Attachment Chec Instructions: Each of the following items must be attached a attached. Geologic and Hydrogeologic Data (only for on-site close Siting Criteria Compliance Demonstrations (only for one Design Plan - based upon the appropriate requirements Operating and Maintenance Plan - based upon the appropriate Closure Plan (Please complete Boxes 14 through 18, if and 19.15.17.13 NMAC	to the application. Please indicate, by a characteristic character	graph (3) of Subsection B of 19.15.17.9 requirements of 19.15.17.10 NMAC
Previously Approved Design (attach copy of design)	API Number:	
Previously Approved Operating and Maintenance Plan above ground steel tanks or haul-off bins and propose to imple	API Number:	
growna steet tanks or main off othis and propose to imple		
Permanent Pits Permit Application Checklist: Subsection Instructions: Each of the following items must be attached attached. ☐ Hydrogeologic Report - based upon the requirements of Siting Criteria Compliance Demonstrations - based upon Climatological Factors Assessment ☐ Certified Engineering Design Plans - based upon the appoint Police Protection and Structural Integrity Design - based Leak Detection Design - based upon the appropriate red Liner Specifications and Compatibility Assessment - based Quality Control/Quality Assurance Construction and In Operating and Maintenance Plan - based upon the appropriate or Hazardous Odors, including H₂S, Preventic Emergency Response Plan ☐ Oil Field Waste Stream Characterization ☐ Monitoring and Inspection Plan ☐ Erosion Control Plan ☐ Closure Plan - based upon the appropriate requirements	of Paragraph (1) of Subsection B of 19.15.17 on the appropriate requirements of 19.15.17.11 NMA dupon the appropriate requirements of 19.15.17.11 NMAC assed upon the appropriate requirements of 19.15.17.11 NMAC assed upon the appropriate requirements of 19.15.17.12 NMAC on the appropriate requirements of 19.15.17.19 nmac on the appropriate requirements of 19.15.17.19 nm Plan	7.9 NMAC .10 NMAC AC 5.17.11 NMAC 9.15.17.11 NMAC 7.11 NMAC
In-place Burial	val p systems only) y for temporary pits and closed-loop system On-site Trench Burial	v-grade Tank
Waste Excavation and Removal Closure Plan Checklist: (closure plan. Please indicate, by a check mark in the box, th Protocols and Procedures - based upon the appropriate a Confirmation Sampling Plan (if applicable) - based upon Disposal Facility Name and Permit Number (for liquids Soil Backfill and Cover Design Specifications - based upon Re-vegetation Plan - based upon the appropriate require Site Reclamation Plan - based upon the appropriate require	(19.15.17.13 NMAC) Instructions: Each of hat the documents are attached. requirements of 19.15.17.13 NMAC on the appropriate requirements of Subsections, drilling fluids and drill cuttings) upon the appropriate requirements of Subsequents of Subsection I of 19.15.17.13 NMA	on F of 19.15.17.13 NMAC etion H of 19.15.17.13 NMAC

16. Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.)	D NMAC)					
Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if facilities are required.	more than two					
Disposal Facility Name: Disposal Facility Permit Number:						
Disposal Facility Name: Disposal Facility Permit Number:						
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future ser Yes (If yes, please provide the information below) No	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 of Subsection H of 19.15.17.13 NMA 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	C					
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 sou provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate distributed an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Just demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	trict 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					
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					
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					
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No					
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No					
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No					
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality						
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					
18.						
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure p by a check mark in the box, that the documents are attached.	lan. Please indicate,					
 ☐ 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 19.15.17.13 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 G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC						

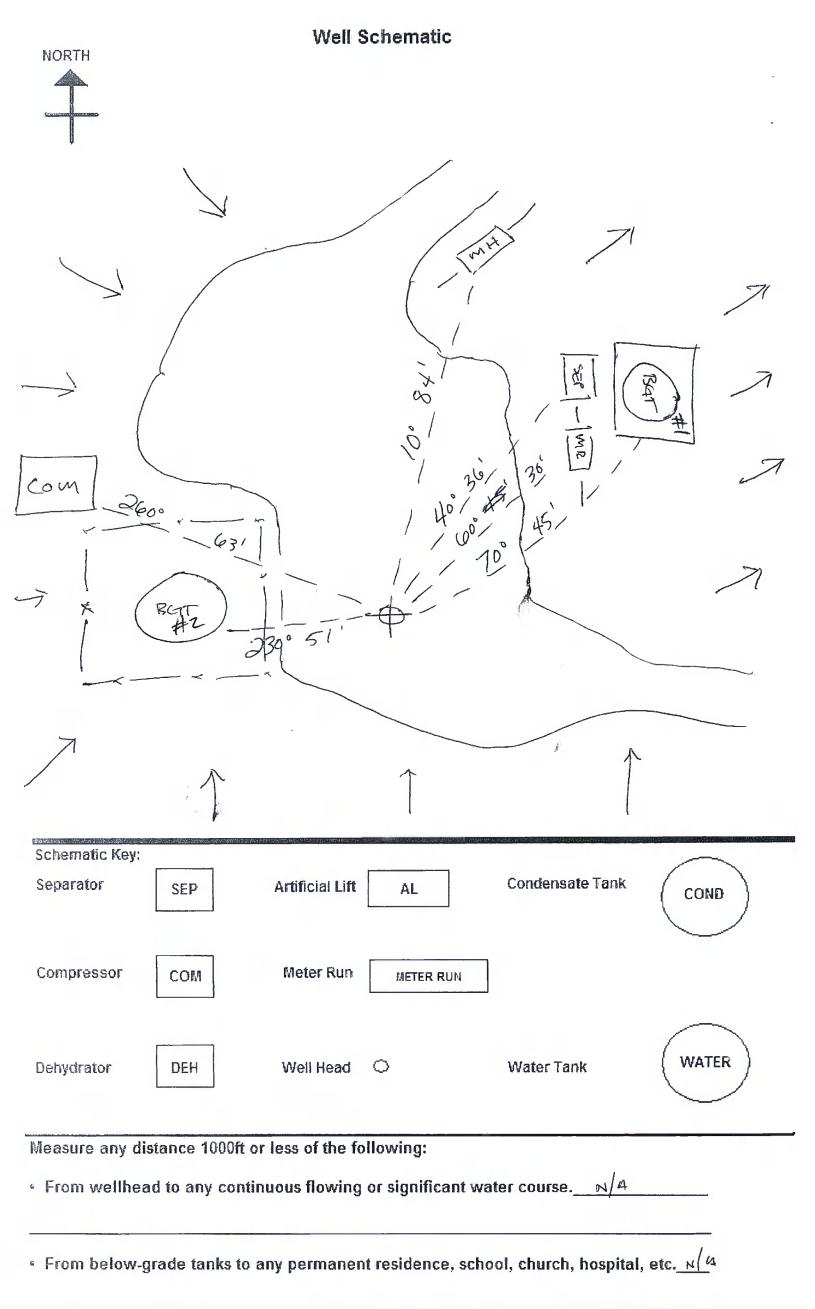
19.		
Operator Application Certification:		
I hereby certify that the information submitted with this application	on is true accounts and complete t	o the best of my knowledge and ballof
r necessive that the information submitted with this applicant	on is true, accurate and complete to	o the best of my knowledge and benef.
Name (Print): Rodney Bailey	Title: W	aste & Water Group Lead
Signature: The Books		
Signature:	Date: <u>M</u>	arch 1, 2010
e-mail address: Bailerg@chevron.com	Telephon	e: <u>(432)</u> 687 7123
20		
OCD Approval: Permit Application (including closure plan)	Closure Plan (only) \(\subseteq 0	CD Conditions (see attachment)
<u>gas rappies.</u>		ob Conditions (see attachment)
OCD Representative Signature:		Approval Date:
Title:	OCD Permit Nu	ımber:
21. Closure Report (required within 60 days of closure completion	Subsection K of 10 15 17 12 7	SIMAC
Instructions: Operators are required to obtain an approved close		
The closure report is required to be submitted to the division with	hin 60 days of the completion of t	he closure activities Please do not complete this
section of the form until an approved closure plan has been obta		
	_	
	Closure Co	mpletion Date:
22.		
Closure Method:		
Waste Excavation and Removal On-Site Closure Metho	d	od Waste Removal (Closed-loop systems only)
If different from approved plan, please explain.		
23.		
Closure Report Regarding Waste Removal Closure For Closed		
Instructions: Please indentify the facility or facilities for where	the liquids, drilling fluids and dri	ll 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 p		
Yes (If yes, please demonstrate compliance to the items bel		for be used for future service and operations:
	· -	
Required for impacted areas which will not be used for future serv	rice 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 Control of the	the following items must be attack	had to the election warners. Plance indicate his a sheek
mark in the box, that the documents are attached.	ne jouowing tiems must be uttaçi	neu to the closure report. Fleuse indicate, by a check
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 o	n-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:		
	of at the first	
I hereby certify that the information and attachments submitted with all or plicable of the state of the stat		
belief. I also certify that the closure complies with all applicable of	nosure requirements and condition	is specified in the approved closure plan.
Name (Print):	Title:	
Signature:	Date:	
-		
e-mail address:	Telephone:	=
		-

Well Name & Number: J.Q. MARSHALL # | DATE: 7/21/08 API#: 3004506772 Initials: 128 Lease #: Jom! Quarter/Quarter: N Section: 1 Township: 27N Range: Lat: 1316.599808 Long: 10107.743914 Pit Tank #1: Manufacturer:___ Serial #:_____ DOM:____ Size bbl o If N/A – Dimensions: Diameter 2.9 Height 3 Steel____ Galvanized____ Material: Fiberglass X Tank Configuration: Double Wall Single Wall X (Buried or Exposed X Walls) Contents: Produced Water X Condensate Recycled Oil Tank Top Covering: Solid/Cone-top____ Netting X (Solid_Fiber_) STRING Secondary Containment: Yes X No Fencing around berm: Yes____ No 📉 o Fence Type: Cattle Panel____ Field Fence___ Barbwire___ Pit Tank #2: Manufacturer: HW BRANO Serial #:______ DOM:_____ Size bbl O If N/A - Dimensions: Diameter 8' COVNO Height 2 Steel____ Galvanized____ Fiberglass____ Material: Tank Configuration: Double Wall Single Wall (Buried or Exposed X Walls) Contents: Produced Water ___ Condensate ___ Recycled Oil X Tank Top Covering: Solid/Cone-top___ Netting X (Solid_ Fiber_) (HOLLER WIDE Secondary Containment: Yes X No____ Fencing around berm: Yes_X No____ o Fence Type: Cattle Panel____ Field Fence X Barbwire Above-Ground Tank #1: Manufacturer: Serial #: DOM:____ Size____bbl If N/A – Dimensions: Diameter_____ Height____ Material: Steel____ Galvanized__ Fiberglass____ Contents: Produced Water___ Condensate___ (State #_____) Recycled Oil___ Secondary Containment: Yes No Above-Ground Tank #2: Manufacturer: DOM: Serial #:____ __ Size____bbl o If N/A – Dimensions: Diameter_____ Height____ Material: Steel____ Galvanized____ Fiberglass Contents: Produced Water____ (State #_____) Recycled Oil____ Secondary Containment: Yes____ No___ Above-Ground Tank #3: Manufacturer: Serial #:______ DOM:_____ Size____bbl ○ If N/A – Dimensions: Diameter____ Height____

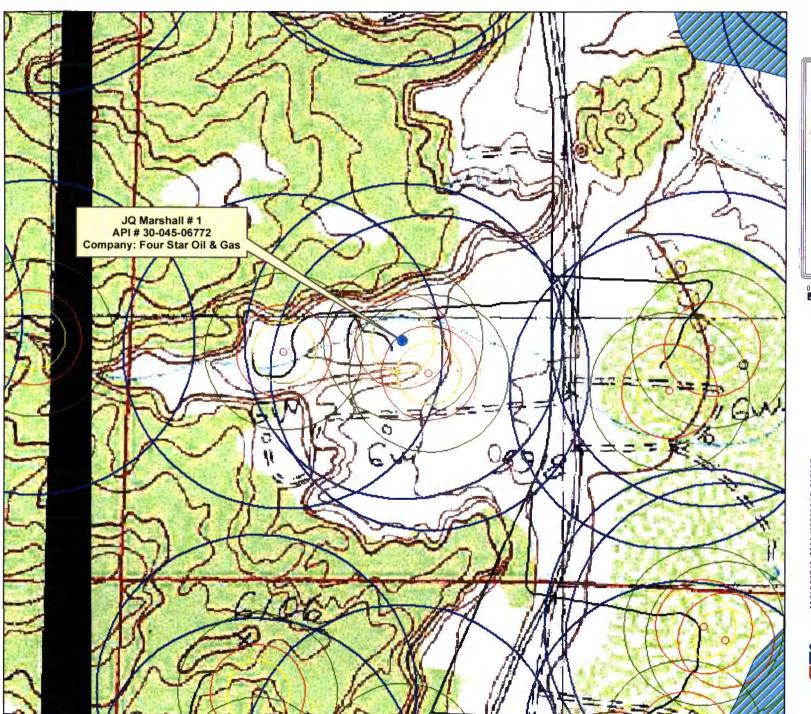
 Material:
 Steel_______
 Galvanized_______
 Fiberglass_______

 Contents:
 Produced Water______
 Condensate________
 (State #________)
 Recycled Oil_______

 Secondary Containment: Yes____ No____



JQ Marshall # 1 API # 30-045-06772





Dacisimer. Date presented in the maps has been obtained or modified from date available from many different environmental programs, nothing date purchased from regional from regional beamingloss by Environch, Inc., person

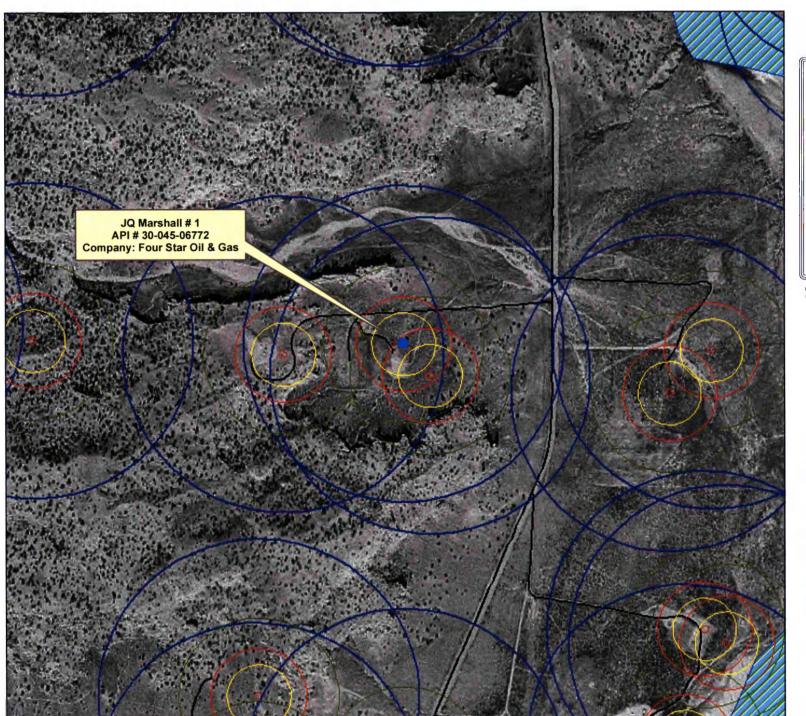
Owing in accountment of your insulant investigation is wreathly. Policial boundment many diversity. Divingly, immorphisman of other retiration is ent's crusice consent change in ellipsets of a self-accountment of an ellipsets of ellipsets

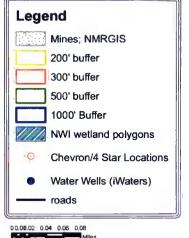
ANY DATA OR INFORMATION PROVIDED BY THESE MAPS S
"As IS" WITHOUT WARRANTY OF ANY WAY, ETHER
EXPRESSED OR MAILEO, INCLUDING, BUT NOT LISTED TO
THE INPULED WARRANTY OF ANY WAY, BUT NOT THE WITHOUT OF ANY WAY,
THE INPULED WARRANTES OF MERCHAMPAILTY AND
THE INPULED WARRANTES OF MERCHAMPAILTY AND
OWNED BY THE INPUL OF TH





JQ Marshall # 1 API # 30-045-06772





Dactairms: Data presented in the maps has been obtained or modified from date a veilible in the many different environmental programs, including dailing gathered from regional observations by Envirolled, Tic., personnel, Outside distances enclude the and (TSS), Whater Database, USGS 7.5 Minute Quadrangle Missis, 1959.

Profiled boundaries may change. Chropit, precipilation and Other and environmental condition. As a both his soft micror provided in these maps is only visid for the sine product in which it is added in these maps is only visid for the sine product in which it is exclusive, as the information is occurring, the presented, is only as occurries in the sources from which it was presented, if only as occurries as the sources from which is exclusive, as presented, is only as occurring the information profiled first objurnable in page occurring. The source page out should be interested. The information portrayed on these maps should not inplace first objurnable in the object of the contract of the object of the obj

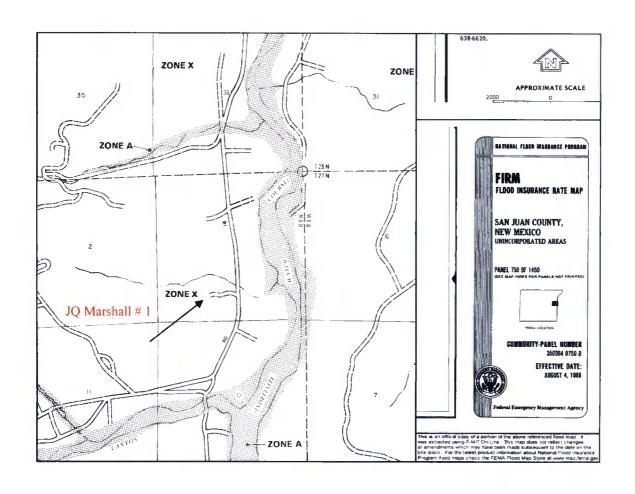
ANY DATA OR HOMOMETION POPULIED BY THESE MAPS IS
"AS IS" WITHOUT WARRANTY OF ANY WIND, ETHER
EXPRESSED OR MAPPE, INCLUDING, BUT NOT LIBRED TO,
THE MAPLED WARRANTES OF MERCHANTASITY AND
ETHESS FOR A MAPLECULAN PROPERCY. But as or invention
for the property of the property of the property of the
wars to be risk, and the libre gines to redominy and hold homeles
wars to be risk, and the property of the
wars to be risk, and the
wars to be risk, and the
wars to be a property of the
wars to be risk, and the
wars to be
wars



Human Energy W



JQ Marshall # 1 API # 30-045-06772 SE ½ SW ½ Sec. 1 T27N R9W

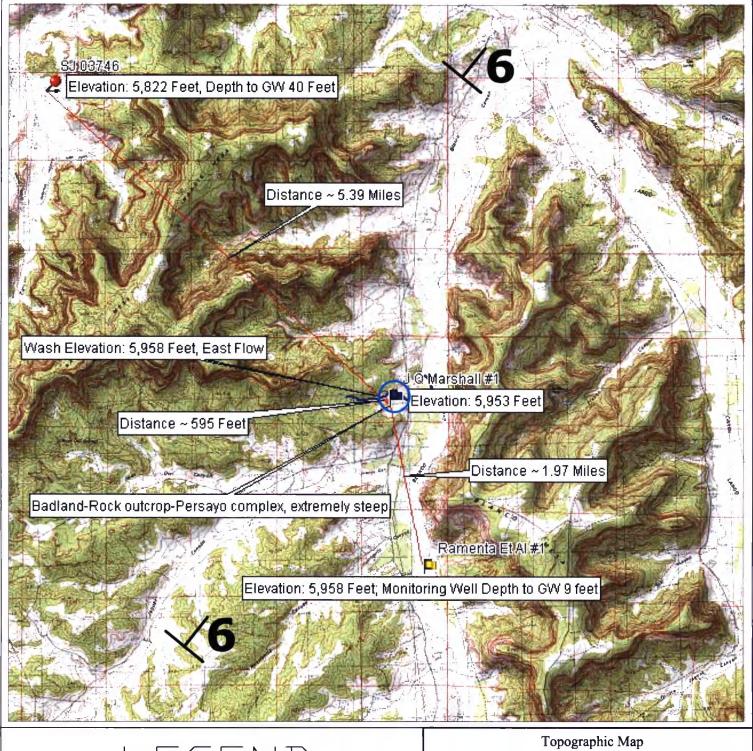


J Q Marshall #1 Groundwater Statement

The attached iWATERS database search and topographic map shows a water well approximately 5.39 miles to the north-west with a depth to groundwater of 40 feet. This water well is labeled on the topographic map with a red point. As evidenced on the attached topographic map, the water well is at an elevation approximately 131 feet lower than the J Q Marshall #1 well site, which is represented by a blue flag on the topographic map. The attached monitoring well data for a monitoring well on the Ramenta Et Al #1 well site, owned and operated by Energen Resources Corporation, shows that groundwater levels are approximately nine (9) feet below ground surface. This monitoring well data was collected in March of 2002. The Ramenta Et Al #1 well site is located approximately 1.97 miles to the south-east of the J Q Marshall #1 well site at an elevation approximately 5 feet higher than the J Q Marshall well site. The Ramenta Et Al #1 well site is represented on the map with a yellow flag. The soil type at the J Q Marshall #1 well site is a Badland-Rock outcrop-Persayo complex, extremely steep. This is a well drained soil, characterized by residuum weathered from shale with bedrock, with a very low available water capacity. The nearest surface water is approximately 595 feet to the north-west of the J Q Marshall #1 well site at an elevation of 5,958 feet. This is an east flowing wash that only exists during periods of heavy precipitation. This wash is a first order tributary of Blanco Wash. The J Q Marshall #1 well site lies in the Nacimiento Formation Aquifer which dips at 6 degrees to the north-east (Frenzel, 1983); see Topographic Map for aquifer dip direction. The Nacimiento Formation lies at the surface in a broad belt at the western and southern edges of the central basin and dips beneath the San Jose Formation in the basin center. (Frenzel, 1983). These findings indicate that the depth to groundwater may not be greater than 50 feet from the bottom of the BGT at the J Q Marshall #1 well site. All above information, excluding the aquifer dip, was confirmed by a visual inspection performed by Envirotech, Inc.

The Nacimiento Formation (Tn) is Paleocene in age and grades laterally into the Animas Formation (Tka) around Dulce, New Mexico thickening considerably around Durango, Colorado. The Animas occurs at the same stratigraphic interval as the Nacimientos (Fassett and Hinds, 1971, p. 34). The Nacimiento sits unconformably to conformably below the San Jose Formation, outcrops in a broad band inside the southern and western boundaries of the central basin and rises structurally as a narrow band along the west side of the Nacimiento Uplift (Baltz, 1967, p. 35). The Nacimiento is the surface formation in the eastern third of the San Juan Basin, and being nonresistant, erodes to low rounded hills or the formation of badlands-type physiography distinctive from the much more resistant overlying San Jose Formation. The Nacimiento Formation is present in only the southern two-thirds of the Basin where it conformably both overlies and intertongues with the much thinner Ojo Alamo Sandstone (Fassett, 1974, p. 229). Thickness ranges from 800 feet in the southern part to nearly 2232 feet (Stone, et al., 1983, p. 30) in the subsurface of the northern part. In the eastern outcrops, the thickness is less than 500 feet to nearly 1400 feet due to folding and erosion (Baltz, 1967, p. 1). In general, the total thickness of the Nacimiento thickens from the basin margins towards the basin center. The Nacimiento in the southern area is comprised predominantly of drab interbedded black and gray claystones and siltstones with some discontinuous

relatively unconsolidated white, medium to coarse-grained arkosic sandstone with a few interbedded resistant sandstone strata (Stone, etal, 1983, p.30). To the north, the Naciemento Formation contains a much greater proportion of sandstone, and at some localized places more than 50 percent (Baltz, 1967, p. 1), although most of the sandstones extend only a few thousand feet (Brimhall, 1973, p. 201). Overall, the environment of deposition is predominantly lake deposits and to a lesser extent localization in stream channels (Brimhall, 1973, p. 201).



LEGEND

Topographic Map J Q Marshall #1 Sec 1, Twp 27N, Rge 9W San Juan County, New Mexico

6 Dip



(, Ephemeral Wash



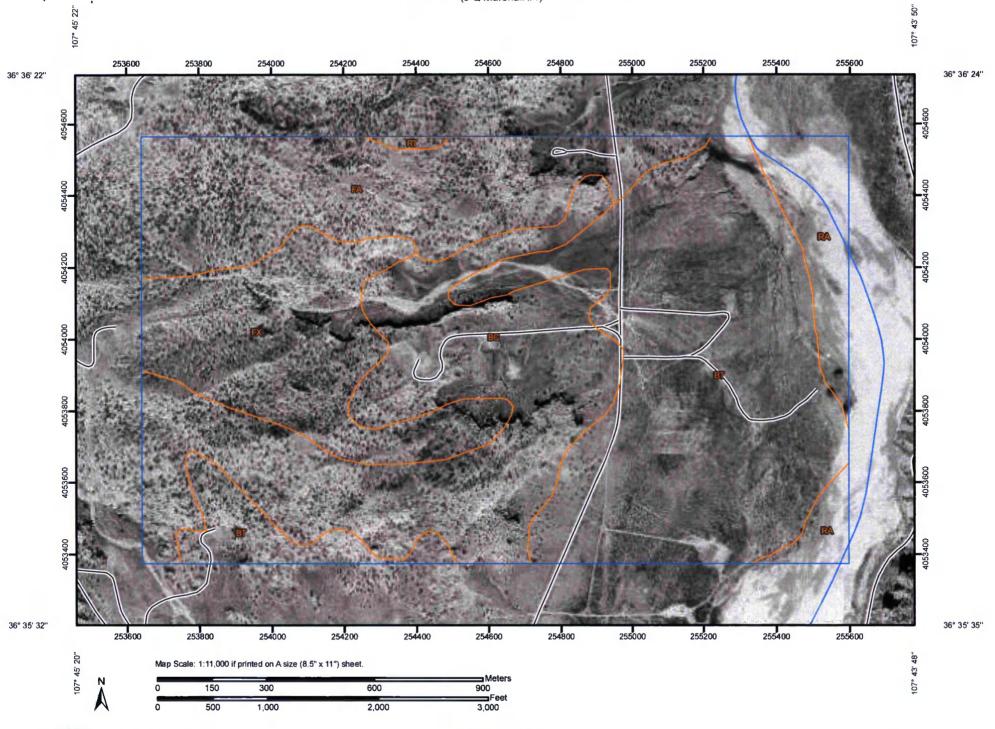
Well Area Soil Type



SCA	LE: NT	rs		FIGUR	REV				
PRO	JECT NO	92270-	-0342		FIGURE NO. 1				
				REVISI	ONS				
NO.	DATE	BY		-	DESCRIPTION	ON			
\vdash	DRWN	JPM		DATE	7/6/09				
						·			



5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Units

Special Point Features

Blowout

Borrow Pit X

Ж Clay Spot

Closed Depression

Gravel Pit ×

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot

Other

Special Line Features

Gully

Short Steep Slope

Other

Political Features

Cities

Water Features

Oceans

Streams and Canals

Transportation

1.1.1

Rails Interstate Highways



US Routes



Major Roads



Local Roads

MAP INFORMATION

Map Scale: 1:11,000 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:63,360.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov Coordinate System: UTM Zone 13N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: San Juan County, New Mexico, Eastern Part Survey Area Data: Version 9, Feb 20, 2009

Date(s) aerial images were photographed: 10/13/1997

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

San Juan County, New Mexico, Eastern Part (NM618)						
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI			
BC	Badland-Rock outcrop-Persayo complex, extremely steep	156.2	27.2%			
ВТ	Blancot-Notal association, gently sloping	201.6	35.1%			
FA	Farb-Persayo-Rock outcrop complex, moderately steep	99.3	17.3%			
FX	Fruitland-Persayo-Sheppard complex, hilly	83.4	14.5%			
RA	Riverwash	32.7	5.7%			
RT	Rock outcrop-Travessilla-Weska complex, extremely steep	1.5	0.3%			
Totals for Area of Interest		574.7	100.0%			

San Juan County, New Mexico, Eastern Part

BC—Badland-Rock outcrop-Persayo complex, extremely steep

Map Unit Setting

Elevation: 4,800 to 6,400 feet

Mean annual precipitation: 6 to 10 inches

Mean annual air temperature: 51 to 55 degrees F

Frost-free period: 140 to 160 days

Map Unit Composition

Badland: 35 percent Rock outcrop: 30 percent

Persayo and similar soils: 20 percent

Description of Badland

Setting

Landform: Breaks

Landform position (three-dimensional): Side slope

Down-slope shape: Convex Across-slope shape: Convex Parent material: Shale

Properties and qualities

Slope: 30 to 50 percent

Depth to restrictive feature: 0 to 2 inches to paralithic bedrock Capacity of the most limiting layer to transmit water (Ksat): Very low

to moderately high (0.00 to 0.20 in/hr)

Calcium carbonate, maximum content: 5 percent

Gypsum, maximum content: 5 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 4.0 mmhos/

cm)

Sodium adsorption ratio, maximum: 5.0

Available water capacity: Very low (about 0.0 inches)

Interpretive groups

Land capability (nonirrigated): 8e

Typical profile

0 to 60 inches: Bedrock

Description of Rock Outcrop

Properties and qualities

Slope: 40 to 70 percent

Depth to restrictive feature: 0 inches to lithic bedrock

Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 in/hr)

4.5

Interpretive groups

Land capability (nonirrigated): 8s



Typical profile

0 to 60 inches: Bedrock

Description of Persayo

Setting

Landform: Breaks

Landform position (three-dimensional): Side slope

Down-slope shape: Convex Across-slope shape: Convex

Parent material: Residuum weathered from shale

Properties and qualities

Slope: 30 to 40 percent

Depth to restrictive feature: 5 to 20 inches to paralithic bedrock

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Very low

to moderately high (0.00 to 0.20 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 2 percent

Gypsum, maximum content: 2 percent

Maximum salinity: Nonsaline to slightly saline (0.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water capacity: Very low (about 2.9 inches)

Interpretive groups

Land capability (nonirrigated): 7e

Ecological site: Shale Hills (R035XA130NM)

Typical profile

0 to 2 inches: Gravelly clay loam

2 to 16 inches: Silt loam 16 to 20 inches: Bedrock

Data Source Information

Soil Survey Area: San Juan County, New Mexico, Eastern Part

Survey Area Data: Version 9, Feb 20, 2009



New Mexico Office of the State Engineer 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) (In feet)

	Sub		THE STATE OF	Q	Q	Q					The war	Depth D	epth Wa	ater
POD Number	basin	Use	County	64	16	4	Sec	Tws	Rng	X	Y	_	/aterCol	
SJ 00018		IND	SJ	4	1	3	20	28N	09W	248105	4059161*	135	71	64
SJ 02800		DOM	SJ	3	2	4	24	28N	09W	255555	4058960*	200		
SJ 03746 POD1		STK	SJ	3	2	1	20	28N	09W	248330 Aver	4059955* age Depth to	190 Water:	40 55 fee t	150

Minimum Depth: 40 feet

Maximum Depth: 71 feet

Record Count: 3

PLSS Search:

Township: 28N Range: 09W

BELOW GRADE TANK (BGT) DESIGN AND CONSTRUCTION PLAN

SUBMITTED TO:

ENVIRONMENTAL BUREAU,

NEW MEXICO OIL CONSERVATION DIVISION

ON BEHALF OF:

CHEVRON USA INC., CHEVRON MIDCONTINENT, L.P., AND FOUR STAR OIL & GAS

COMPANY
P.O. Box 730

AZTEC, NEW MEXICO 87410

(505) 333-1901

Chevron San Juan Basin Below Grade Tank Design and Construction Plan

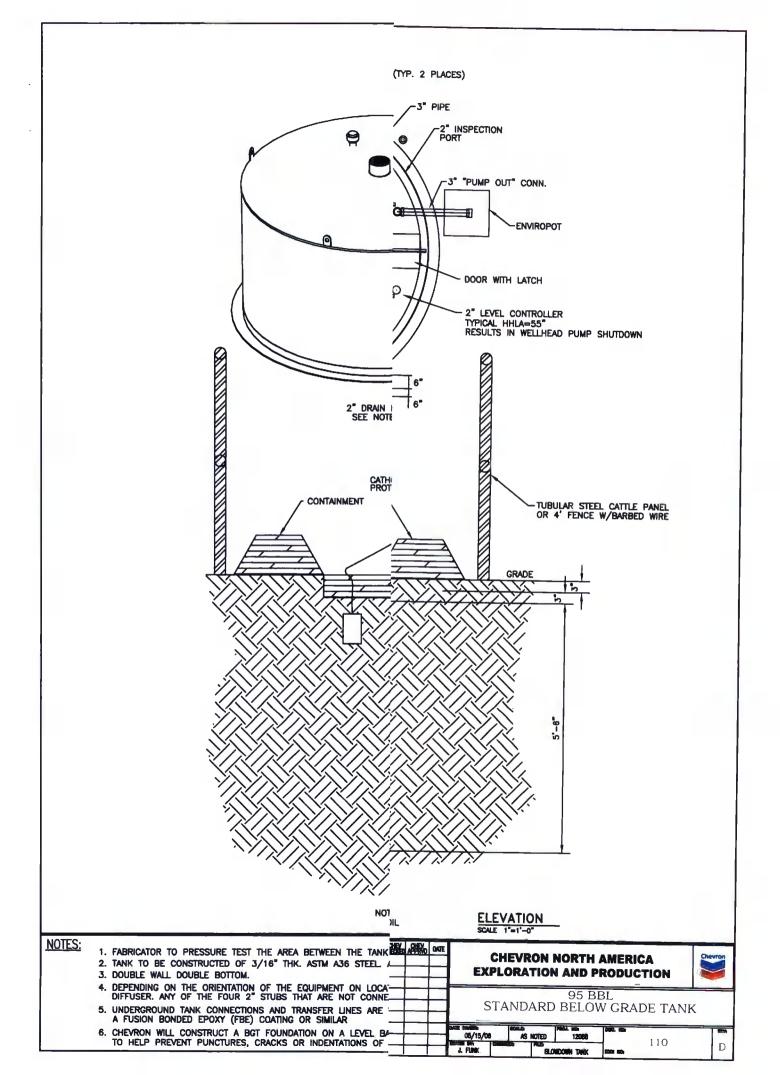
INTRODUCTION

In accordance with NMAC §§ 19.15.17.9(B)(4) and 19.15.17.11 Chevron (representing Chevron USA Inc, Chevron Midcontinent, L.P., and Four Star Oil & Gas Company) submits this Design and Construction Plan for below grade tanks (BGTs) in New Mexico. This Plan contains standard conditions that attach to multiple BGTs.

- 1. Chevron will design and construct a BGT to contain liquids and solids, prevent contamination of fresh water, and protect public health and the environment. NMAC § 19.15.17.11(A).
- 2. Chevron will post an upright sign not less than 12 inches by 24 inches with lettering not less than two inches in height in a conspicuous place on the fence surrounding the BGT, unless the BGT is located on a site where there is an existing well, signed in compliance with NMAC § 19.15.16.8, that is operated by Chevron. Chevron will post the sign in a manner and location such that a person can easily read the legend. The sign will provide the following information: Chevron's name; the location of the site by quarter-quarter or unit letter, section, township and range; and emergency telephone numbers. NMAC § 19.15.17.11(C).
- 3. Chevron will fence or enclose a BGT in a manner that prevents unauthorized access and will maintain the fences in good repair. Fences are not required if there is an adequate surrounding perimeter fence that prevents unauthorized access to the well site or facility, including the BGT. NMAC § 19.15.17.11(D)(1).
- 4. Chevron will fence or enclose a BGT located within 1000 feet of a permanent residence, school, hospital, institution or church with a chain link security fence, at least six feet in height with at least two strands of barbed wire at the top. Chevron will close and lock all gates associated with the fence when responsible personnel are not on-site. NMAC § 19.15.17.11(D)(2).
- 5. Chevron will fence BGTs to exclude livestock with a four foot fence that has at least four strands of barbed wire evenly spaced in the interval between one foot and four feet above ground level. NMAC § 19.15.17.11(D)(3). Chevron may install tubular steel cattle panels, as it determines appropriate (photo of cattle

- panel fence submitted to NMOCD, 24 June 2009). As illustrated on the attach photo.
- 6. Chevron will screen the permanent opening on the tank top with expanding steel mesh in order to render it non-hazardous to wildlife, including migratory birds. NMAC § 19.15.17.11(E).
- 7. Chevron's BGTs will be constructed with the design features illustrated on the attached drawing.
- 8. Only double-walled, double-bottomed BGTs will be installed.
- 9. Chevron will use 3/16" carbon steel which is resistant to the anticipated contents and resistant to damage from sunlight. NMAC § 19.15.17.11(I)(1).
- 10. Chevron will construct a BGT foundation on a level base free of rocks, debris, sharp edges or irregularities to help prevent punctures, cracks or indentations of the liner or tank bottom. NMAC § 19.15.17.11(I)(2).
- 11. Chevron will construct a BGT to prevent overflow and the collection of surface water run-on. NMAC § 19.15.17.11(I)(3). Chevron, or a contractor representing Chevron, will install a level control device to help prevent overflow from the BGT and will use berms and/or a diversion ditch to prevent surface run on from entering the BGT. NMAC §§ 19.15.17.11(I)(3), 19.15.17.12(A)(7), and 19.15.17.12(D)(1).
- 12. All BGTs, in which the side walls are not open for visible inspection for leaks, will be double walled with leak detection capability. NMAC § 19.15.17.11(I)(4)(b).
- 13. Chevron, as the operator of a below-grade tank constructed and installed prior to June 16, 2008 that does not meet all the requirements in Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC and is not included in Paragraph (6) of Subsection I of 19.15.17.11 NMAC, is not required to equip or retrofit the below-grade tank to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC so long as it demonstrates integrity. If the existing below-grade tank does not demonstrate integrity, the operator shall promptly remove that below-grade tank and install a below-grade tank that complies with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC, as illustrated in the approved drawing. Chevron shall comply with the operational requirements of 19.15.17.12 NMAC.

14. Chevron, as the operator of a below-grade tank constructed and installed prior to June 16, 2008 that is single walled and where any portion of the tank sidewall is below the ground surface and not visible, shall equip or retrofit the below-grade tank to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC, or close it, within five years after June 16, 2008. If the existing below-grade tank does not demonstrate integrity, Chevron shall promptly remove that below-grade tank and install a below-grade tank that complies with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC, as illustrated in the approved drawing. Chevron shall comply with the operational requirements of 19.15.17.12 NMAC.



BELOW GRADE TANK (BGT) OPERATING AND MAINTENANCE PLAN

SUBMITTED TO:

ENVIRONMENTAL BUREAU, NEW MEXICO OIL CONSERVATION DIVISION

ON BEHALF OF:

CHEVRON USA INC., CHEVRON MIDCONTINENT, L.P., AND FOUR STAR OIL & GAS COMPANY

P.O. Box 730

AZTEC, NEW MEXICO 87410

(505) 333-1901

Chevron

San Juan Basin

Below Grade Tank Operating and Maintenance Plan

INTRODUCTION

In accordance with NMAC §§ 19.15.17.9(B)(4) and 19.15.17.12 Chevron (representing Chevron USA Inc, Chevron Midcontinent, L.P., and Four Star Oil & Gas Company) submits this Operating and Maintenance Plan (O&M Plan) for below grade tanks (BGTs) in New Mexico. This O&M Plan contains standard conditions that attach to multiple BGTs. If needed for a particular BGT, a modified O&M Plan will be submitted to the New Mexico Oil Conservation Division (NMOCD or the division) for approval prior to implementation.

GENERAL PLAN:

- 1. Chevron, or a contractor representing Chevron, will operate and maintain a BGT to contain liquids and solids to prevent contamination of fresh water and to protect public health and environment. NMAC § 19.15.17.12(A)(1).
- 2. Chevron will not discharge into or store any hazardous waste in a BGT. NMAC § 19.15.17.12(A)(3).
- 3. If a BGT develops a leak or is penetrated below the liquid surface, Chevron will remove liquid above the damage within 48 hours, notify the appropriate division district office within 48 hours of discovery and will promptly repair the BGT. If a BGT develops a leak Chevron will remove liquid above the damage within 48 hours, notify the appropriate division district office within 48 hours of discovery and will promptly repair or replace the BGT. If replacement is required, the BGT will meet all specification included in the attached approved design drawing and comply with 19.15.17.11(I)(1-4).
- 4. If Chevron as an operator of a below-grade tank that was constructed and installed prior to June 16, 2008 that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC and discovers that the below-grade tank does not demonstrate integrity or that the below-grade tank develops any of the conditions identified in Paragraph (5) of Subsection A of 19.15.17.12 NMAC, then Chevron or their representative shall close the existing below-grade tank pursuant to the closure requirements of 19.15.17.13 NMAC and install a below-grade tank that complies with the requirements of Paragraphs

- (1) through (4) of Subsection I of 19.15.17.11 NMAC. NMAC § 19.15.17.12(D)(5). If replacement is required, the BGT will meet all specification included in the attached approved design drawing.
- 5. If Chevron as the operator of the below-grade tank that was constructed and installed prior to June 16, 2008 that does not comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC and equips or retrofits the existing tank to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC, then Chevron or their representative shall visually inspect the area beneath the below-grade tank during the retrofit and document any areas that are wet, discolored or showing other evidence of a release on form C-141. Chevron shall demonstrate to the division whether the evidence of contamination indicates that an imminent threat to fresh water, public health, safety or the environment exists. If the division determines that the contamination does not pose an imminent threat to fresh water, public health, safety or the environment, the operator shall complete the retrofit or the replacement of the below-grade tank. If Chevron or division determines that the contamination poses an imminent threat to fresh water, public health, safety or the environment, then Chevron shall close the existing below-grade tank pursuant to the closure requirements of 19.15.17.13 NMAC prior to initiating the retrofit or replacement. NMAC § 19.15.17.12(D)(6). If replacement is required, the BGT will meet all specification included in the attached approved design drawing.
- 6. Chevron, or a contractor representing Chevron, will use berms and/or diversion ditches to prevent surface run-on from entering the BGT by diverting surface water run-on away from the bermed area. NMAC §§ 19.15.17.12(A)(7) and 19.15.17.12(D)(1).
- 7. Chevron, or a contractor representing Chevron, will not allow a BGT to overflow and will maintain adequate freeboard on existing BGTs by routine inspections utilizing pumper trucks whose routes are timed based on known production rates. Fluid is pumped out on this schedule. For newly constructed BGTs Chevron, or a contractor representing Chevron, will maintain adequate freeboard by installing level control devices that automatically shut off inflow to alleviate potential overtopping. NMAC § 19.15.17.12(D)(1) and 19.15.17.12(D)(4).
- **8.** Chevron, or a contractor representing Chevron, will remove a visible or measurable layer of oil from the fluid surface of a BGT. NMAC § 19.15.17.12(D)(2).
 - 9. Chevron, or a contractor representing Chevron, will inspect the BGT to assess compliance with NMAC § 19.15.17.12, Operational Requirements, at least once monthly and maintain a written record of each inspection for at least five (5) years. The approved inspection form is attached.

Chevron: New Mexico Inspection Form for Below Grade Tanks

Inspection	Date:	

3el	ow Grade Tank (BGT) Location:		
	Does the BGT have adequate freeboard to prevent overflow;	yes	no
	Does the tank have visible leaks or sign of corrosion;	yes	no
	Do tank valves, flanges and hatches have visible leaks;	yes	no
	Is there evidence of significant spillage of produced liquids;	yes	no
	Is this a single of double wall tank;		
	Are berms and/or diversion ditches in place to prevent surface		
	run-on from entering the BGT;	yes	no
	Have visible or measurable layers of oil been removed from		
	liquid surface fluid;	yes	no

BELOW GRADE TANK (BGT) CLOSURE PLAN

SUBMITTED TO:

ENVIRONMENTAL BUREAU,

NEW MEXICO OIL CONSERVATION DIVISION

ON BEHALF OF:

CHEVRON USA INC., CHEVRON MIDCONTINENT, L.P., AND FOUR STAR OIL & GAS

COMPANY
P.O. Box 730

AZTEC, NEW MEXICO 87410

(505) 333-1901

Chevron San Juan Basin Below Grade Tank Closure Plan

INTRODUCTION

In accordance with NMAC §§ 19.15.17.9(B)(4) and 19.15.17.13, Chevron (representing Chevron USA Inc, Chevron Midcontinent, L.P., and Four Star Oil & Gas Company) submits this Closure Plan for below grade tanks (BGTs) in New Mexico. This Closure Plan contains standard conditions that attach to multiple BGTs. If needed for a particular BGT, a modified Closure Plan for a proposed alternative closure will be submitted to the New Mexico Oil Conservation Division (NMOCD or the division) for approval prior to closure.

CLOSURE PLAN PROCEDURES AND PROTOCOLS (NMAC §§ 19.15.17.9(C) and 19.15.17.13).

- 1) Chevron, or a contractor acting on behalf of Chevron, will close a BGT within the time periods provided in NMAC § 19.15.17.13(A), or by an earlier date required by NMOCD to prevent an imminent danger to fresh water, public health, or the environment. NMAC § 19.15.17.13(A).
- 2) Chevron, or a contractor acting on behalf of Chevron, will close an existing BGT that does not meet the requirements of NMAC § 19.15.17.11(I)(1 through 4) or is not included in NMAC § 19.15.17.11(I)(5) within five years after June 16, 2008, if not retrofitted to comply with § 19.15.17.11(I)(1 through 4). NMAC § 19.15.17.13(A)(4).
- 3) Chevron shall close an existing below-grade tank that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC, if not retrofitted to comply with Paragraphs 1) through (4) of Subsection I of 19.15.17.11 NMAC, prior to any sale or change of operator pursuant to 19.15.9.9 NMAC.
- 4) Chevron, or a contractor acting on behalf of Chevron, will close a permitted BGT within 60 days of cessation of the BGT's operation or as required by the transitional provisions of NMAC § 19.15.17.17(B) in accordance with a closure plan that the appropriate division district office approves. NMAC §§ 19.15.17.13(A)(9) and 19.15.17.9(C).
- 5) In accordance with NMAC § 19.15.17.13(J)(1), Chevron will notify the surface owner by certified mail, return receipt requested, of its plans to close a BGT prior to beginning closure activities. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records is sufficient to demonstrate compliance. Chevron will also notify the appropriate division district office verbally or by other means at least 72 hours, but not more than one week, prior to any closure operation. The notice shall include the operator's name and the location to be closed by unit letter, section, township and range. If the closure is associated with a particular well, then the notice shall also include the well's name, number and API number. NMAC § 19.15.17.13(J)(2).

- 6) Chevron, or a contractor acting on behalf of Chevron, will remove liquids and sludge from a BGT prior to implementing a closure method and will dispose of the liquids and sludge in a division approved facility. NMAC § 19.15.17.13(E)(1). A list of Chevron currently approved disposal facilities is included at the end of this document.
- 7) The proposed method of closure for this Closure Plan is waste excavation and removal. NMAC §§ 19.15.17.13 (E)(1).
- 8) Chevron, or a contractor acting on behalf of Chevron, 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. When required, prior approval for disposal will be obtained. NMAC § 19.15.17.13(E)(2). Documentation regarding disposal of the BGT and its associated liner, if any, will be included in the closure report.
- 9) Waste generated during closure will be handled and disposed of in accordance with applicable laws. NMAC § 19.15.35.8(C)(1)(m) provides that plastic pit liners may be disposed at a solid waste facility without testing before disposal, provided they are cleaned well.
- 10) Chevron, or a contractor acting on behalf of Chevron, will remove on-site equipment associated with a BGT unless the equipment is required for some other purpose. NMAC § 19.15.17.13(E)(3).
- 11) Chevron, or a contractor acting on behalf of Chevron, will test the soils beneath the BGT to determine whether a release has occurred. At a minimum, 5 point composite samples will be collected along with individual grab samples from any area that is wet, discolored, or showing other evidence of a release. 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 EPA method that the division approves, does not exceed 0.2mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, does not exceed 250mg/kg; or the background concentration, whichever is greater. Chevron, or a contractor acting on behalf of Chevron, will notify the NMOCD Division District office of its results on form C-141. NMAC § 19.15.17.13(E)(4).
- 12) If Chevron or the division determines that a release has occurred, Chevron will comply with NMAC §§ 19.15.29 and 19.15.30, as appropriate. NMAC § 19.15.17.13(E)(5).
- 13) If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in NMAC § 19.15.17.13(E)(4), Chevron will backfill the excavation with compacted, non-waste containing, earthen materials; construct a division prescribed soil cover; re-contour and re-vegetate the site. The division-prescribed soil cover, recontouring and re-vegetation requirements shall comply with NMAC § 19.15.17.13)(G, H and I). NMAC § 19.15.17.13(E)(6).

- 14) As per NMAC § 19.15.17.13(G)(1), once Chevron has closed a BGT or is no longer using the BGT or an area associated with the BGT, Chevron will reclaim the BGT location and all areas associated with it including associated access roads not needed by the surface estate owner to a safe and stable condition that blends with the surrounding undisturbed area. Chevron will substantially restore impacted surface area to the condition that existed prior to its oil and gas operations by placement of soil cover as provided in NMAC § 19.15.17.13(H) (see below), recontour the location and associated areas to a contour that approximates the original contour and blends with the surrounding topography, and re-vegetate according to NMAC § 19.15.17.13(I). NMAC § 19.15.17.13(G)(1).
- 15) Chevron may propose an alternative to the re-vegetation requirement of NMAC § 19.15.17.13(G)(1) if it demonstrates that the proposed alternative effectively prevents erosion, and protects fresh water, human health and the environment. The proposed alternative must be agreed upon in writing by the surface owner. Chevron will submit the proposed alternative, with written documentation that the surface owner agrees to the alternative, to the division for approval. NMAC § 19.15.17.13(G)(2).
- 16) Soil cover for closures where Chevron has removed the pit contents or remediated the contaminated soil to the division's satisfaction will consist of the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater. NMAC § 19.15.17.13(H)(1).
- 17) Chevron will construct the soil cover to the site's existing grade and prevent ponding of water and erosion of the cover material. NMAC § 19.15.17.13(H)(3).
- 18) As per NMAC § 19.15.17.13(I)(1) and 19.15.17.13(G)(2), Chevron will seed or plant disturbed areas during the first growing season after it is no longer using a BGT or an area associated with the BGT including access roads unless needed by the surface estate owner as evidenced by a written agreement with the surface estate owner, if any and written approval by NMOCD.
- 19) Seeding will be accomplished by drilling on the contour whenever practical or by other division approved methods. Chevron will obtain vegetative cover that equals 70% of the native perennial vegetative cover (un-impacted by overgrazing, fire or other intrusion damaging to native vegetation) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. During the two growing seasons that prove viability, Chevron will not artificially irrigate the vegetation. NMAC § 19.15.17.13(I)(2).
- 20) Chevron will notify the division when it has seeded or planted and when it successfully achieves re-vegetation. NMAC § 19.15.17.13(I)(5).
- 21) Seeding or planting will be repeated until Chevron successfully achieves the required vegetative cover. NMAC § 19.15.17.13(I)(3).

- 22) When conditions are not favorable for the establishment of vegetation, such as periods of drought, the division may allow Chevron to delay seeding or planting until soil moisture conditions become favorable or may require Chevron to use additional cultural techniques such as mulching, fertilizing, irrigating, fencing or other practices. NMAC § 19.15.17.13(I)(4).
- 23) As per NMAC § 19.15.17.13(K), within 60 days of closure completion, Chevron will submit a closure report containing the elements required by NMAC § 19.15.17.13(K) including:
 - i) Confirmation sampling results,
 - ii) A plot plan,
 - iii) Details on back-filling, capping and covering, where applicable, including revegetation application rates and seeding technique,
 - iv) Proof of closure notice to the surface owner, if any, and the division,
 - v) Name and permit number of disposal facility, and
 - vi) Photo documentation.
- 24) The closure report will be filed on NMOCD Form C-144. Chevron will certify that all information in the closure report and attachments is correct and that it has complied with all applicable closure requirements and conditions specified in the approved closure plan. NMAC § 19.15.17.13(K).
- 25) As requested, the following are the current Chevron approved Waste Disposal Sites for the identified waste streams:

Soils and Sludges

i) Envirotech Inc. Soil Remediation Facility, Permit No. NM-01-0011

Solids

ii) San Juan County Regional Land Fill (NMAC § 19.15.35.8 items only, with prior NMOCD approval when required)

Liquids

- i) Key Energy Disposal Facility, Permit No. NM-01-0009
- ii) Basin Disposals Facility, Permit No. NM-01-005.
- 26) These waste disposal sites are subject to change if their certification is lost or they are closed or other more appropriate, equally protective sites become available. Chevron will provide notice if such a change is affected.