District I State of New Mexico 1625 N. French Dr., Hobbs, NM 88240 E V E District II Department 1301 W. Grand Avenue, Artesta, NM 88240 E V E Department District III 0100 Rio Brazos Road, Aztec, NM 87410 F 1220 S. St. Francis Dr., Santa Fe, NM 87505 F 123 1220 South St. Francis Dr. 1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 Santa Fe, NM 87505	Form C-144 July 21, 2008 For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office. For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.
Pit, Closed-Loop System, Below-Grade T	
Proposed Alternative Method Permit or Closure P	lan Application
Type of action: Permit of a pit, closed-loop system, below-grade tank, on Closure of a pit, closed-loop system, below-grade tank, on Modification to an existing permit Closure plan only submitted for an existing permitted or below-grade tank, or proposed alternative method	or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop syste	em, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable go	n pollution of surface water, ground water or the wernmental authority's rules, regulations or ordinances.
1. Operator: <u>Four Star Oil & Gas Company</u> OGRID #: <u>1</u>	31944
Address: <u>P.O. Box 36366 Houston, TX 77236</u>	
Facility or well name: <u>Chavez H2 #3</u>	
API Number: <u>30-045-33438</u> OCD Permit Number:	
U/L or Qtr/Qtr <u>Qtr/Qtr O</u> Section <u>2</u> Township <u>31N</u> Range <u>13W</u>	
Center of Proposed Design: Latitude <u>36_92338°</u> Longitude <u>108_168617°</u>	
Surface Owner: 🗌 Federal 🗋 State 🗌 Private 🗌 Tribal Trust or Indian Allotment	
Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Ot String-Reinforced String-Reinforced Unline Factory Other Volume: bbl	
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 whi intent)	ich require prior approval of a permit or notice of
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	
4.	
Volume: <u>95 bbl</u> Type of fluid: <u>Produced Water</u>	
Tank Construction material:	
Secondary containment with leak detection 🗌 Visible sidewalls, liner, 6-inch lift and automatic ov	erflow shut-off
Visible sidewalls and liner Visible sidewalls only Other	
Liner type: Thicknessmil 🔲 HDPE 🗋 PVC 🗋 Other	
5.	
Alternative Method:	
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environment	ntal Bureau office for consideration of approval.

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)

Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)

Four foot height, four strands of barbed wire evenly spaced between one and four feet

Alternate. Please specify Self supporting, cattle panel

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

Screen Netting Other Solid

7

Monthly inspections (If netting or screening is not physically feasible)

Signs: Subsection C of 19.15.17.11 NMAC

12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

Signed in compliance with 19.15.3.103 NMAC

Administrative Approvals and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval.

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

10. Siting Criteria (regarding permitting): 19.15.17.10 NMAC

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 acception of the second former and the second form	
material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appro	
office 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	pproval. ing pade or
above-grade tanks associated with a closed-loop system.	ing paus of
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - Please reference hydrogeologic report and printout from iWATERS database.	🗌 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). 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 X 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
 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 floodalain	

Within a 100-year floodplain. - FEMA map

-	11. 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. Image: Mydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Image: Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Image: Sting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Image: Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Image: Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Image: Design Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC Image: Design Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Image: Previously Approved Design (attach copy of design) APl Number:
	12. Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC Previously Approved Design (attach copy of design) AP1 Number: AP1 Number: (Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
	13. Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection and Structural Integrity 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 19.15.17.11 NMAC Regregency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC
	14. Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
	 15. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.

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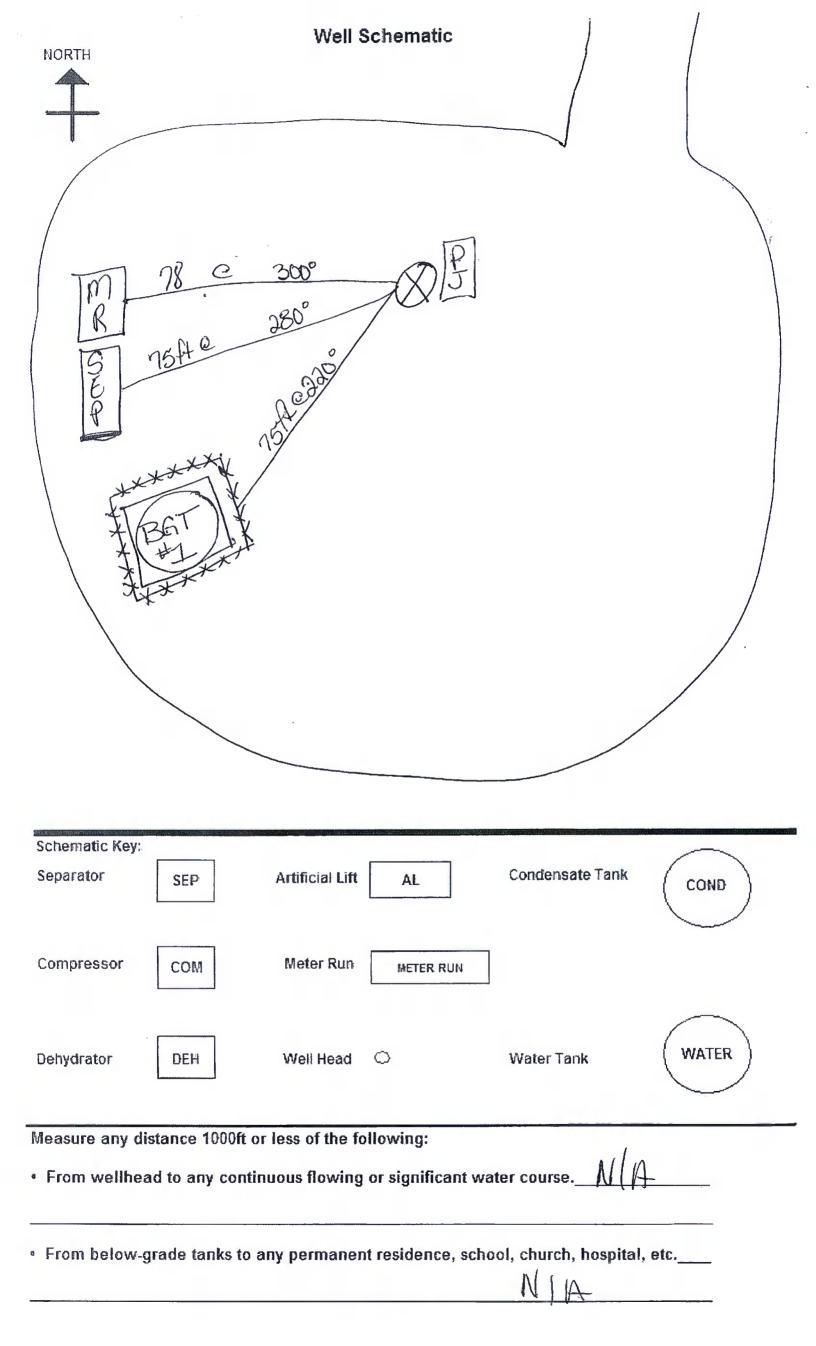
^{16.} Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC) Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.								
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 service and operations? Yes (If yes, please provide the information below) No								
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 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	С							
^{17.} Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sou provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate dis considered 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 ☐ NA							
 Ground water is between 50 and 100 feet below the bottom of the buried waste NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 	Yes No							
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 	Yes No							
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗋 Yes 🗌 No							
 Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	🗌 Yes 🗌 No							
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	Yes No							
Within a 100-year floodplain. - FEMA map	Yes No							
 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. 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 19.15.17.13 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 Subsection F of 19.15.17.13 NMAC Confirmation 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 can Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC 	.15.17.11 NMAC							

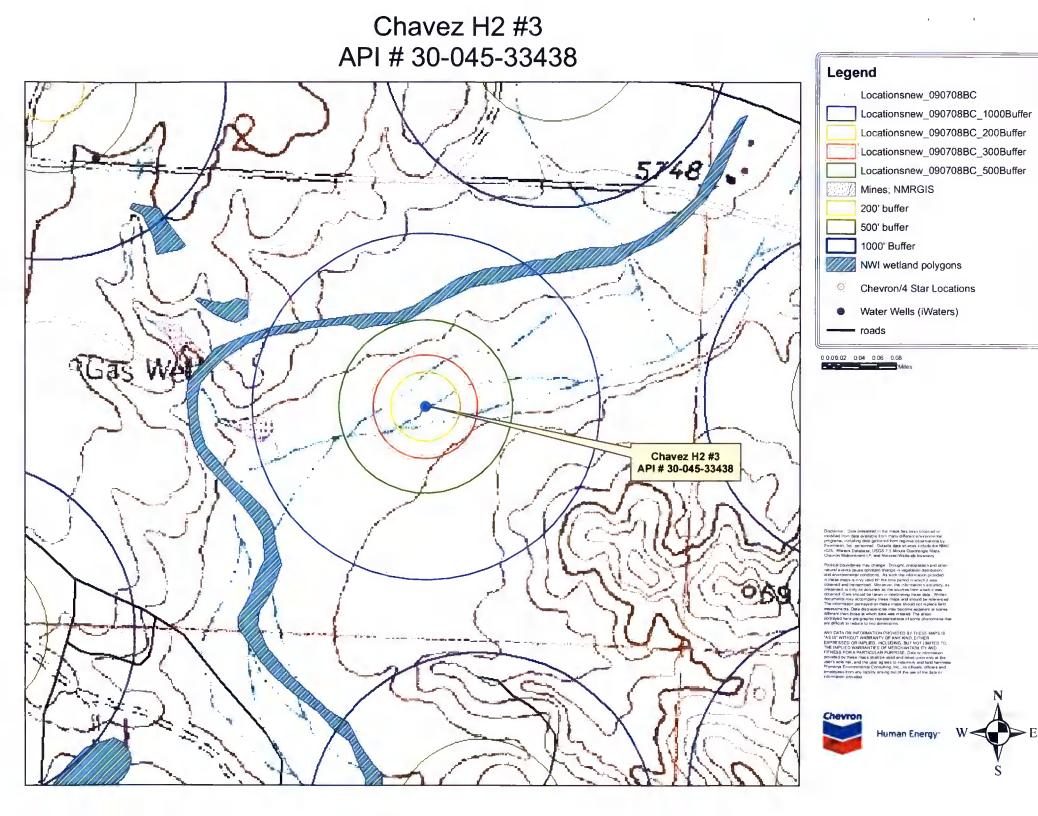
Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
 Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

I hereby certify that the information submitted with this application is trate, accurate and cemplete to the best of my knowledge and heliaf. Name (Print): <u>Bodnew Baller</u> Signature: Signature: Signature: Signature: Signature: Signature: Signature: Signature: Signature: Signature: Signature: Signature: Signature: S	19. Operator Application Certification:	
Signature:	I hereby certify that the information submitted with this application	is true, accurate and complete to the best of my knowledge and belief.
e-mail address: Ealerprojection ** OL Doptoral: ** OCD Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature:	Name (Print): <u>Rodney Bailey</u>	Title: Waste & Water Group Lead
e-mail address: Ealerprojection ** OL Doptoral: ** OCD Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature:		
** OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature:	Signature:	Date: March 1, 2010
QCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) QCD Representative Signature:	e-mail address: Bailerg@chevron.com	Telephone: (432) 687 7123
Title:		Closure Plan (only) OCD Conditions (see attachment)
21 Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Instructions: Operators are required to balain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities may be been completed. Closure Method: Closure Completion Date:	OCD Representative Signature:	Approval Date:
Closure Report (required within 60 days of closure completion): Subsection K of [9,15,17,13 NMAC Instructions: Operators are required to botain an approved closure plan prior to implementing any closure activities and submitting the closure report is required to be submitted to the division within 60 days of the completion of the closure activities have been completed. Image: Closure Completion Date: Image: Closure Completion Date: Image: Closure Report Regarding Waste Removal Closure For Closure Method Atternative Closure Method: Waste Removal (Closed-loop systems only) Image: Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Abave Ground Steel Tanks or Haul-off Bins Only: Image: Closure Completion Date: Image: Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Abave Ground Steel Tanks or Haul-off Bins Only: Image: Closure Completion Steel Closure Haul-off Bins Only: Instructions: Please indentify the facility or facilities for where the fiquids, drilling fluids and drill cutings were disposed. Use attachment if more than two facilities were utilized. Stee attachment if more than two facilities and sosciated attivities performed on or in areas: that will not be used for future service and operations? Very (If yes, place demonstrate compliance to the items below) No Required for impacted areas which will not be used for future service and operations? Stee Closure Contents and associated attivities performed on or in areas: tha will not be used for future service and operations? Stee	Title:	OCD Permit Number:
22 Closure Method: On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only) 17 different from approved plan, please explain. 23 23 Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Instructions: Please indientify the facility or facilities for where the liquids, drilling fluids and drill curtings were disposed. Use attachment if more than two facilities were utilized. 24 Disposal Facility Name: Disposal Facility Permit Number: 25 Were the closed-loop system operations and associated activities performed on or in areas that will nor be used for future service and operations? 26 Vere the closed-loop system operations and associated activities performed on or in areas that will nor be used for future service and operations? 27 Ves (If yes, please demonstrate compliance to the items below) No 28 Coure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the back, that the documents are and check. 29 Proof of Deed Notice (required for on-site closure) Disposal Facility Name and Permit Number 20 Soft Backfilling and Cover Installation Revegetation Application Rates and Seeding Technique 24 Closure Report Attachment Checklist: Instructions: Each of the following items must be attache	<u>Closure Report (required within 60 days of closure completion):</u> Instructions: Operators are required to obtain an approved closur The closure report is required to be submitted to the division within	re plan prior to implementing any closure activities and submitting the closure report. in 60 days of the completion of the closure activities. Please do not complete this ned and the closure activities have been completed.
Closure Method: Atternative Closure Method Waste Removal (Closed-loop systems only) If different from approved plan, please explain. Proceeding and the proved plan, please explain. It Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Instructions: Please indentify the facility of facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized. Disposal Facility Name:	22.	
Chosure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Hau-off Bins Only: Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized. Disposal Facility Name:	Closure Method: Waste Excavation and Removal On-Site Closure Method	Alternative Closure Method Waste Removal (Closed-loop systems only)
Disposal Facility Name:	<u>Closure Report Regarding Waste Removal Closure For Closed-</u> Instructions: Please indentify the facility or facilities for where the	loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: The liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than
Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations? No Required for impacted areas which will not be used for future service and operations: No Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique 24. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation (Photo Documentation) On-site Closure Location: Latitude Longitude NAD: [1927] 1983 25 Perior Closure Certification: Introduce complex with all applicable closure requirements and conditions specified in the approved closure plan. Name (Print): Title: Signature: Date:	Disposal Facility Name:	Disposal Facility Permit Number:
Yes (If yes, please demonstrate compliance to the items below) No Required for impacted areas which will not be used for future service and operations: Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique 24. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached. 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) Out Plan (for on-site closures and temporary pits) Soil Backfilling and Cover Installation Revegatation Application Rates and Seeding Technique Soil Backfilling and Cover Installation Soil Backfilling and Cover Installation Longitude NAD: [1927] 1983 25 Operator Closure Certification: Longitude NAD: [1927] 1983 25 Operator Closure complex with all applicable closure requirements and conditions specified in the approved closure plan. Name (Print): Signature: Date:	Disposal Facility Name:	Disposal Facility Permit Number:
Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique 24. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached. 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) Communication and Application Rates and Seeding Technique Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude Longitude NAD: [1927] 1983 28. Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. 1 also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan. Name (Print): Title: Signature: Date:		
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Oced Notice (surface owner and division) Proof of Oced Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude Longitude NAD: [1927] 1983 25. Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. 1 also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan. Name (Print):	 Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation 	ce and operations:
25. Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan. Name (Print):	Closure Report Attachment Checklist: Instructions: Each of the mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on- Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)	site closure)
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan. Name (Print):		Longitude NAD: []1927 [] 1983
Signature: Date:	Operator Closure Certification: I hereby certify that the information and attachments submitted with	
	Name (Print):	Title:
e-mail address: Telephone:	Signature:	Date:
	e-mail address:	Telephone:

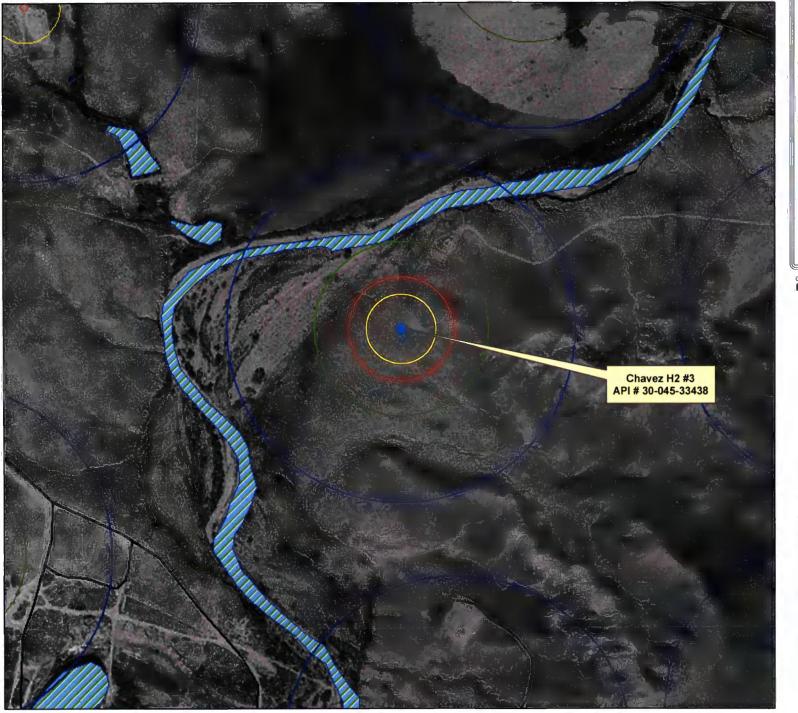
0	Well Name & Number: Maren H2 #3 DATE: 7/23/0
	API #: 3004633438 Initials: 305
e	Lease #:
e	Quarter/Quarter: O Section: A Township: 3/11 Range: 1300
•	Lat: N.36.923338 Long: 10-108.168617
0	Pit Tank #1: Manufacturer: <u>Eagle Welcling</u>
	Size J bbi
	• If N/A – Dimensions: Diameter $\frac{10^{14}}{12^{14}}$ Height $\frac{13^{14}}{12^{14}}$
•	Material: Steel Galvanized Fiberglass
•	Tank Configuration: Double Wall X Single Wall (Buried or Exposed Walls)
0	Contents: Produced Water A Condensate Recycled Oil
0	Tank Top Covering: Solid/Cone-top 🔨 Netting (Solid 🏹 Fiber_)
•	Secondary Containment: Yes <u>V</u> No
0	Fencing around berm: Yes No
	• Fence Type: Cattle Panel X Field Fence Barbwire
•	Pit Tank #2: Manufacturer:
•	Serial #: DOM: Sizebbl
	 If N/A – Dimensions: Diameter Height
0	Material: Steel Galvanized Fiberglass
•	Tank Configuration: Double Wall Single Wall(Buried or ExposedWalls)
0	Contents: Produced Water Condensate Recycled Oil
	Tank Top Covering: Solid/Cone-top Netting (Solid Fiber)
•	Secondary Containment: Yes No
0	
	• Fence Type: Cattle Panel Field Fence Barbwire
•	• Fence Type: Cattle Panel Field Fence Barbwire
•	• Fence Type: Cattle Panel Field Fence Barbwire Above-Ground Tank #1: Manufacturer:
•	 Fence Type: Cattle Panel Field Fence Barbwire Above-Ground Tank #1: Manufacturer: Serial #: DOM: Sizebbl
•	 Fence Type: Cattle Panel Field Fence Barbwire Above-Ground Tank #1: Manufacturer: Serial #: DOM: Sizebbl If N/A – Dimensions: Diameter Height
	 Fence Type: Cattle Panel Field Fence Barbwire Above-Ground Tank #1: Manufacturer: Serial #: DOM: Sizebbl If N/A – Dimensions: Diameter Height Material: Steel Galvanized Fiberglass
•	 Fence Type: Cattle Panel Field Fence Barbwire Above-Ground Tank #1: Manufacturer: Serial #: DOM: Sizebbl If N/A – Dimensions: Diameter Height
8	 Fence Type: Cattle Panel Field Fence 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
8	 Fence Type: Cattle Panel Field Fence Barbwire Above-Ground Tank #1: Manufacturer: Size Serial #: DOM: Size If N/A – Dimensions: Diameter Height Material: Steel Galvanized Fiberglass Contents: Produced Water Condensate (State #) Recycled Oil Secondary Containment: Yes No
8	 Fence Type: Cattle Panel Field Fence Barbwire Above-Ground Tank #1: Manufacturer: Size bbl 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:
8	 Fence Type: Cattle Panel Field Fence Barbwire Above-Ground Tank #1: Manufacturer: Size Serial #: DOM: Size If N/A – Dimensions: Diameter Height Material: Steel Galvanized Fiberglass Contents: Produced Water Condensate (State #) Recycled Oil Secondary Containment: Yes No
8 0 0	 Fence Type: Cattle Panel Field Fence 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 Above-Ground Tank #2: Manufacturer: Serial #: DOM: Size o If N/A – Dimensions: Diameter Height Material: Steel Galvanized Fiberglass
8 9 9 9 9	 Fence Type: Cattle Panel Field Fence Barbwire Above-Ground Tank #1: Manufacturer: Size bbl 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: Size bbl If N/A – Dimensions: Diameter Height
	• Fence Type: Cattle Panel Field Fence Barbwire Above-Ground Tank #1: Manufacturer: Size
	 Fence Type: Cattle Panel Field Fence 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: Serial #: DOM: Size bbl If N/A – Dimensions: Diameter Height Material: Steel Galvanized Fiberglass Contents: Produced Water Condensate (State #) Recycled Oil
	 Fence Type: Cattle Panel Field Fence Barbwire Above-Ground Tank #1: Manufacturer: Sizebbl If N/A - Dimensions: Diameter Height Material: Steel Galvanized Fiberglass Contents: Produced Water Condensate (State #) Recycled Oil Secondary Containment: Yes Material: Steel DOM: Sizebbl If N/A - Dimensions: Diameter Height Serial #: DOM: Fiberglass Contents: Produced Water Condensate (State #) Recycled Oil Secondary Containment: Yes No Above-Ground Tank #3: Manufacturer:
	 Fence Type: Cattle Panel Field Fence Barbwire Above-Ground Tank #1: Manufacturer: 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: Size bbl If N/A – Dimensions: Diameter Height Material: Steel Galvanized Fiberglass Contents: Produced Water Condensate (State #) Recycled Oil Secondary Containment: Yes No
	 Fence Type: Cattle Panel Field Fence Barbwire Above-Ground Tank #1: Manufacturer: 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: 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 #3: Manufacturer:

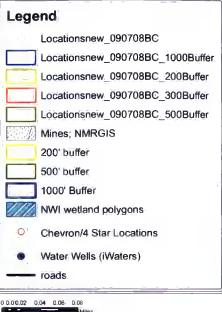
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Chavez H2 #3 API # 30-045-33438





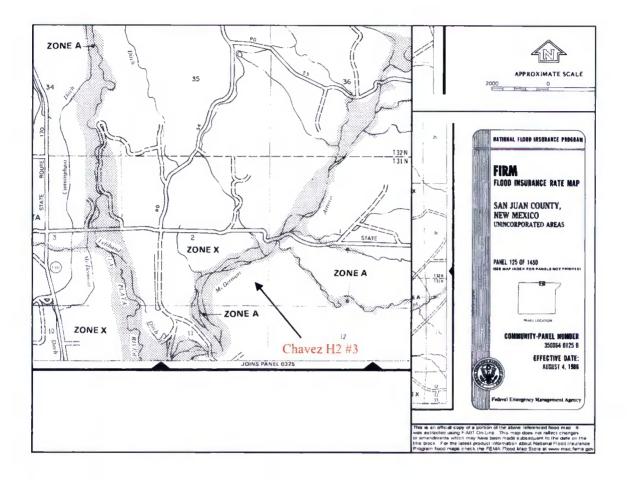
actaines. Data presented in the major line been obtained or odded from data evaluative form many different environmental ognimis, including data gethered from regional collar visitions by violation, inc. preformer: Oxider data sources visitious the by violation data preformer: Oxider data sources visitious the by House Database (USGS 7.5 Minute Oxideringia Majo, anyon Middontiment I.P. mit Matorial Waterials Invention;

To local boundaries may change in Developing methods and other studies are write cause constant to hing in regatation damatan. If an environment constant to hing in regatation damatan. Statemark and there are also and the statemark of the statemark and thereads. Moreover, the information's assumption that an environment constant of the statemark of the statemark of the statemark. The statemark of the statemark

are unavoir of results to the committees. Any CARL CAR (INFORMATION IPROVIDED BY THESE MAP'S IS' "AS IS' WITHOUT WARRIANT OF ANY VIND, ETTHER EXPRESSION OF MAYER, ED INCLORED, BUT HAT LABORTD TO, THE INFORMED WARRIANT IS OF MERCHARTABLE TY AND DEVIDED WARRIANT IS OF MERCHARTABLE TY AND Devided by them both bit hat used are but there used in the warr's able mak, and the use regimes to informing and hold harming antiopages is form any liability antiog out of bus used of hold marmonages is form any liability antiog out of bus used if he date or information provided by:



Chavez H2 #3 API # 30-045-33438 SE ¼ SE ¼ Sec. 2 T31N R13W



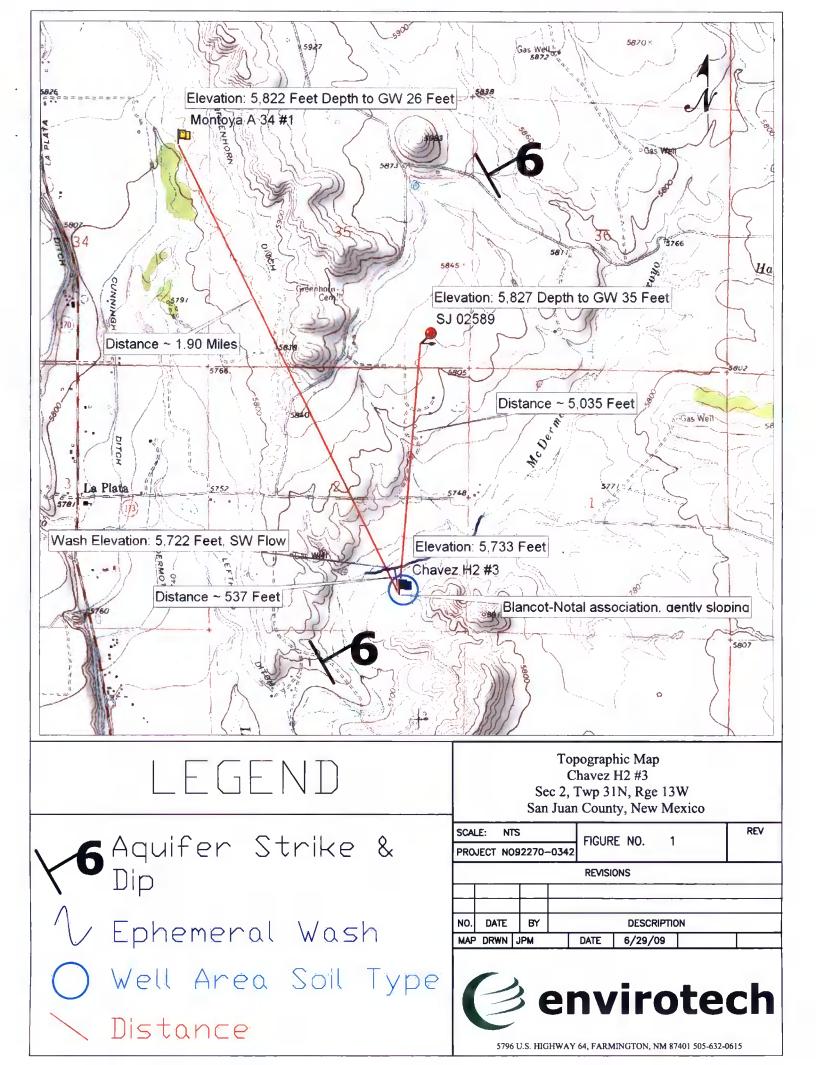
Chavez H2 #3 Groundwater Statement

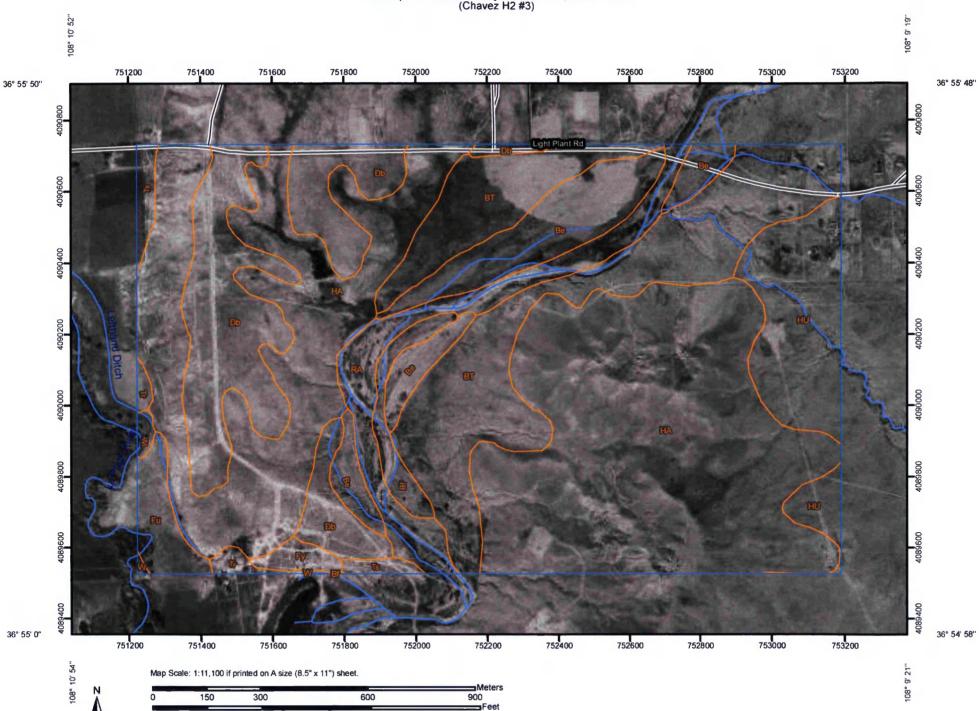
The attached iWATERS database search and topographic map shows a water well approximately 5,035 feet to the north with a depth to groundwater of 35 feet. This water well is labeled on the topographic map with a red point. As evidenced on the attached topographic map, the water well is at an elevation approximately 94 feet higher than the Chavez H2 #3 well site, which is represented by a blue flag on the topographic map. The attached cathodic well data sheet for a cathodic well drilled in 1990 for the Montoya A-34 #1 well site shows that groundwater was encountered at 26 feet. This cathodic well data sheet is stamped as being accepted by the OCD in January of 1991. The Montoya A-34 #1 well site is approximately 1.90 miles north-west of the Chavez H2 #3 well site at an elevation approximately 89 feet higher than the Chavez H2 #3 well site. The Montova A-34 #1 well site is labeled on the topographic map with a yellow flag. The soil type at the Chavez H2 #3 well site is a Blancot-Notal association, gently sloping. This is a well drained soil, characterized by stream and fan alluvium derived from sandstone and shale, with a high to low water capacity. The nearest wash is approximately 537 feet to the north-west of the Chavez H2 #3 well site at an elevation of 5,722 feet. This is a southwest flowing ephemeral wash which only flows during periods of heavy precipitation. This wash is the McDermott Arroyo. The Chavez H2 #3 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 Chavez H2 #3 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, etal, 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).

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USDA Natural Resources Conservation Service

500

1,000

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Web Soil Survey 2.2 National Cooperative Soil Survey

3,000

2,000

6/29/2009 Page 1 of 3

Soil Map—San Juan County, New Mexico, Eastern Part (Chavez H2 #3)

	MAP L	.EGEND		MAP INFORMATION						
Area of l	nterest (AOI)	Ø	Very Stony Spot	Map Scale: 1:11,100 if printed on A size (8.5" × 11") sheet.						
	Area of Interest (AOI)	¥	Wet Spot	The soil surveys that comprise your AOI were mapped at 1:63,360						
Soils	Soil Map Units		Other	Please rely on the bar scale on each map sheet for accurate map						
		Special	Line Features	measurements.						
specia (1)	Blowout	<u></u>	Gully	Source of Map: Natural Resources Conservation Service						
×	Borrow Pit	je je Leta	Short Steep Slope	Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov Coordinate System: UTM Zone 12N NAD83						
⊠ ※	Clay Spot	12	Other	This product is generated from the USDA-NRCS certified data as o						
		Political F	Features	the version date(s) listed below.						
٠	Closed Depression	•	Cities	Soil Survey Area: San Juan County, New Mexico, Eastern Part						
×	Gravel Pit	Water Fea	atures	Survey Area Data: Version 9, Feb 20, 2009						
	Gravelly Spot		Oceans	Date(s) aerial images were photographed: 10/13/1997						
0	Landfill	~	Streams and Canals	The orthophoto or other base map on which the soil lines were						
A Lava Flow		Transport	tation	compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shiftin						
علد	Marsh or swamp	+	Rails	of map unit boundaries may be evident.						
*	Mine or Quarry	sin and a second	Interstate Highways							
0	Miscellaneous Water	~	US Routes							
۲	Perennial Water		Major Roads							
~	Rock Outcrop	~	Local Roads							
+	Saline Spot									
:-:	Sandy Spot									
	Severely Eroded Spot									
٥	Sinkhole									
\$	Slide or Slip									
ø	Sodic Spot									
11	Spoil Area									
٥	Stony Spot									
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Map Unit Legend

San Juan County, New Mexico, Eastern Part (NM618)									
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI						
Be	Beebe loamy sand	42.4	7.2%						
Bf	Beebe variant loamy sand	8.5	1.4%						
BT	Blancot-Notal association, gently sloping	102.7	17.5%						
Db	Doak loam, 1 to 3 percent slopes	73.7	12.6%						
Fu	Fruitland loam, 1 to 3 percent slopes	10.3	1.8%						
Fy	Fruitland-Slickspots complex, 0 to 3 percent slopes	3.8	0.6%						
HA	Haplargids-Blackston-Torriorthents complex, very steep	261.7	44.7%						
HU	Huerfano-Muff-Uffens complex, gently sloping	40.9	7.0%						
RA	Riverwash	30.8	5.3%						
Tr	Turley clay loam, 1 to 3 percent slopes	3.2	0.5%						
Ts	Turley clay loam, 3 to 5 percent slopes	5.8	1.0%						
W	Lakes, rivers, reservoirs	0.5	0.1%						
Wr	Werlog loam	1.3	0.2%						
Totals for Area of Inte	rest	585.5	100.0%						



San Juan County, New Mexico, Eastern Part

BT—Blancot-Notal association, gently sloping

Map Unit Setting

Elevation: 5,600 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

Blancot and similar soils: 55 percent Notal and similar soils: 25 percent

Description of Blancot

Setting

Landform: Fan remnants Landform position (three-dimensional): Tread Down-slope shape: Convex Across-slope shape: Convex Parent material: Fan alluvium derived from sandstone and shale

Properties and qualities

Slope: 0 to 5 percent Depth to restrictive feature: More than 80 inches Drainage class: Well drained Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 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 very slightly saline (0.0 to 4.0 mmhos/ cm) Sodium adsorption ratio, maximum: 2.0 Available water capacity: High (about 9.7 inches)

Interpretive groups

Land capability (nonirrigated): 6c Ecological site: Loamy (R035XB001NM)

Typical profile

0 to 2 inches: Loam 2 to 15 inches: Sandy clay loam 15 to 60 inches: Clay loam

Description of Notal

Setting

Landform: Stream terraces Landform position (three-dimensional): Talf Down-slope shape: Linear

USDA

Across-slope shape: Linear Parent material: Stream alluvium derived from sandstone and shale

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Rare
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 5 percent
Maximum salinity: Very slightly saline to slightly saline (4.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 10.0
Available water capacity: Low (about 5.4 inches)

Interpretive groups

Land capability classification (irrigated): 3s Land capability (nonirrigated): 7c Ecological site: Salt Flats (R035XB005NM)

Typical profile

0 to 3 inches: Silty clay loam 3 to 60 inches: Clay

Data Source Information

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

30-045-24399

DIST 3

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO (Submit 3 copies to OCD Aztec Office)

Operator UNOCAL Location: Unit Sec. 34 Twp 32 Rng 13

Name of Well/Wells or Pipeline Serviced Montoya Well No. 1-A34

Elevation ____Completion Date 12-15-90 Total Depth 200' Land Type* P

Casing, Sizes, Types & Depths '40' deep with 6" dimeter schedule 40 PVC casing pipe.

If Casing is cemented, show amounts & types used NA=NONE

If Cement or Bentonite Plugs have been placed, show depths & amounts used NA=NONE

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc.26' to 36' deep=10' thick zone of water, gravel

and rocks (cased from 0' to 40' deep).

Depths gas encountered: NA=NONE

200' deep with carbo 40=99.9% carbon coke= Type & amount of coke breeze used: 1,400 lbs.

Depths anodes placed: 130', 140', 150', 160', 170', 180'

Depths vent pipes placed: 0' to 200' deep

Vent pipe perforations: From 100¹ to 200¹ deep - laser slotted

Remarks:_____

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

may be shown: or Indian, add	F-Federal; I-Indian; Lease Number.	S-State; P-Fee.	
		JAN 3 0 1991	
		OIL CON. DIV	



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

(quarters are 1=NW 2=NE 3=SW 4=SE)														
			(quarte				llest	to larg	est)	(NAD83 UTM			(In fee	
POD Number	Sub	lise	County		Q 16		Sec	Tws	Rng	x			Depth V WaterC	
SJ 00339	24011	DOM	SJ	1	1	4	22	32N	13W	216027	4096502*	50	12	38
SJ 00340		IRR	SJ	3	1	4	22		13W	216027	4096302*	50	12	38
SJ 00736		DOM	SJ	J	-	4	22		13W	216128	4096403*	40	15	25
SJ 00906 X		DOM			4	3	22	32N	13W	215702	4096009*	86	26	60
SJ 00922		DOM		4	1	3	22		13W	215415	4096322*	27	12	15
SJ 01079		DOM	SJ	-	3	3	34		13W	215206	4092785*	100	30	70
SJ 01187		DOM		4	4	3	10		13W	215200	4099125*	24	9	15
SJ 01285		MON	SJ	4	1	3	28		13W		4094770*	27	Ũ	10
SJ 01253		DOM		-	3	4	10		13W		4099216*	21	38	
SJ 01439		DOM			3	4	10		13W	216219	4099216*	45	25	20
SJ 01549		DOM			1	2	15		13W		4098819*	47	28	19
SJ 01943		IRR	SJ		'	4	34		13W		4092951*	8	3	5
SJ 02068		DOM				2	15		13W	216407	4098623*	45	16	29
SJ 02350		DOM		1	3	2	15		13W	216105	4098521*	26	10	20
SJ 02558		DOM		4		3	15		13W		4097928*	41	23	18
SJ 02577		DOM			4	4	34		13W	216409	4092731*	30	15	15
SJ 02589		DOM		2	3	3	35		13W	216909	4092811*	60	35	25
SJ 02704		DOM	SJ	2	4	1	22	32N	13W	215840	4096916*	25	12	13
SJ 02705		DOM		2	4	1	22		13W	215840	4096916*	25	12	13
SJ 02783		DOM	SJ	4	3	3	35	32N	13W	216909	4092611*	62	48	14
SJ 02847		MIN	SJ	1	4	4	22	32N	13W	216408	4096089*	1255	0	1255
SJ 02848		MIN	SJ	3	4	2	22	32N	13W	216444	4096695*	608	50	558
SJ 02865		DOM	SJ	2	3	2	15	32N	13W	216305	4098521*	44	29	15
SJ 02890		DOM	SJ	2	1	4	15	32N	13W	216299	4098116*	55	30	25
SJ 02901		DOM	SJ	2	2	4	34	32N	13W	216523	4093246*	50		
SJ 02918		DOM	SJ	2	4	3	22	32N	13W	215801	4096108*	51	30	21
SJ 02934		DOM		1			15		13W	216099	4098116*	34	18	16
SJ 02985		DOM	SJ	2	1	2	15	32N	13W	216311	4098918*	47	25	22
SJ 03037		DOM	SJ	3	4	1	34	32N	13W	215524	4093478*	100		
W location was derived from	PLSS - see	Help												

*UTM location was derived from PLSS - see Help

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

POD Number	Sub basin Us	e County		Q 16		Sec	Tws	Rng	x		Depth De Well W	-	
SJ 03066	ST	K SJ	2	2	2	34	32N	13W	216545	4094053*	41	28	13
SJ 03090	DO	VI SJ	1	1	3	35	32N	13W	216725	4093232*	59	47	12
SJ 03111	DO	VI SJ	4	1	2	22	32N	13W	216270	4097108*	19	6	13
SJ 03123	DO	vi SJ	1	4	3	27	32N	13W	215543	4094485*	30		
SJ 03256	DO	VÎ SJ	2	4	1	34	32N	13W	215724	4093678*	21	6	15
SJ 03524	ST	K SJ	1	4	3	27	32N	13W	215543	4094485*	33	10	23
SJ 03525	ST	K SJ	1	3	4	27	32N	13W	215948	4094470*	71	12	59
SJ 03635	DO	M SJ	4	2	4	34	32N	13W	216523	4093046*	44	35	9
									Aver	age Depth t	o Water:	21 fe	eet
										Minimur	0 fe	et	
										Maximur	n Depth:	50 fe	et

Record Count: 37

PLSS Search:

Township: 32N Range: 13W

*UTM location was derived from PLSS - see Help

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

(In feet)

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

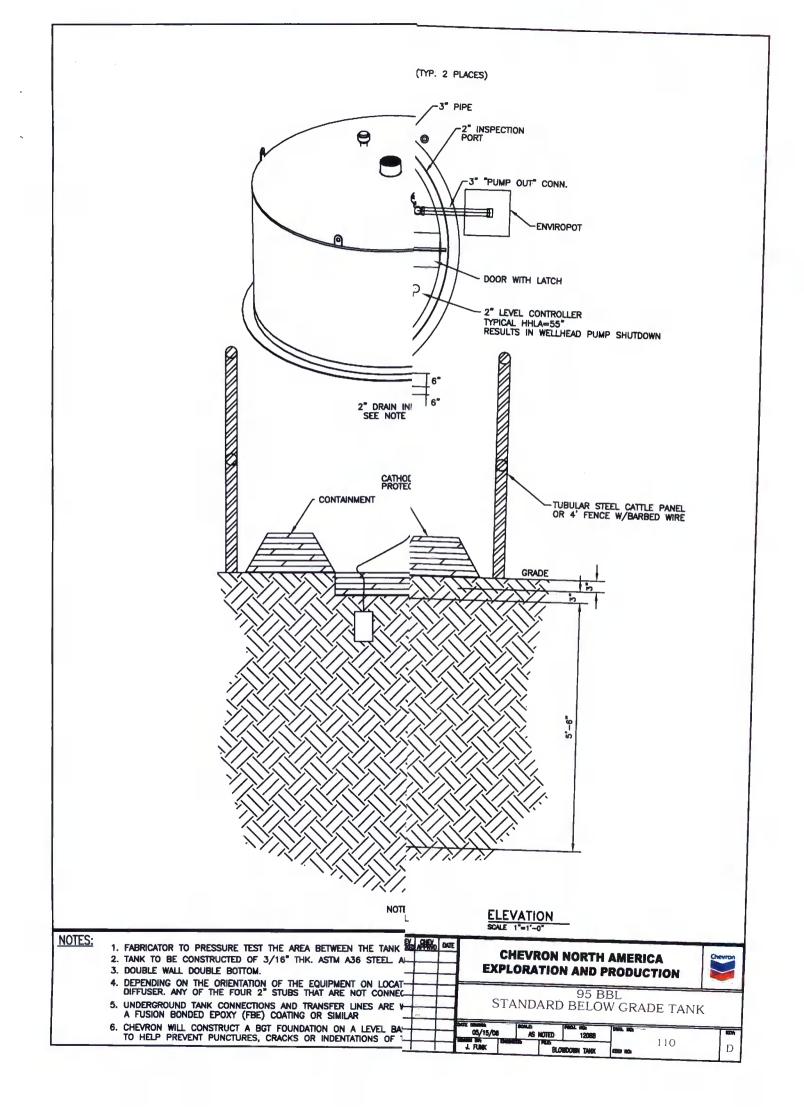
In accordance with NMAC §§ 19.15.17.9(B)(4) and 19.15.17.11 Chevron (representing Chevron USA Inc, Chevron Midcontinent, L.P., and Four Star Oil & Gas Company) submits this Design and Construction Plan for below grade tanks (BGTs) in New Mexico. This Plan contains standard conditions that attach to multiple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

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:_____

Below 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 0.2mg/kg; and the division approves, does not exceed 50mg/kg; the TPH concentration, as determined by 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

<u>Solids</u>

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

<u>Liquids</u>

- 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.