District I
1625 N French Dr , Hobbs, NM 88240
District II
811 S First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S St Francis Dr , Santa Fe, NM 87505

Alternative Method:

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

Pit, Closed-Loop System, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application
Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system,
below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator Jicarilla Apache Energy Corp (JAECO) OGRID # 11589
Address P.O Box 710 Dulce, New Mexico 87528
Facility or well name Apache JVA 3C
API Number To be assigned 30-039-31099 OCD Permit Number
U/L or Qtr/Qtr F Section 21 Township 27N Range 2W County Rio Arriba
Center of Proposed Design. ~92' S 52 deg W of Latitude 36 deg 32' 29" Longitude 107 deg 03' 03" NAD ⊠1927 ☐ 1983
Center of Proposed Design. ~92' S 52 deg W of Latitude 36 deg 32' 29" Longitude 107 deg 03' 03" NAD \(
2. Pit: Subsection F or G of 19 15 17 11 NMAC Pit: Subsection
Temporary. \(\subseteq \text{Drilling } \subseteq \text{Workover} \)
Permanent Emergency Cavitation P&A
M Lined Unlined Liner type Thickness 20 mil M LI DPE HDPE PVC Other Co. Oll CONS. III
Strmg-Reinforced
☐ Strmg-Reinforced Liner Seams: ☐ Welded ☐ Factory: ☐ Other Volume
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
Liner Seams.
<u>+</u>
Below-grade tank: Subsection I of 19.15 17 11 NMAC
Volumebbl Type of thud
Tank Construction material.
Secondary contamment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other
Liner type: Thicknessmil
5.

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval

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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) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate Please specify 4' hogwire fence with a single strand of barbed wire on top	hospital,				
Netting: Subsection E of 19 15 17 11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)					
Signs: Subsection C of 19 15 17.11 NMAC ☐ 12"x 2-4", 2" lettering, providing Operator's name, site location, and emergency telephone numbers ☐ Signed in compliance with 19 15.16 8 NMAC					
9. Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15 17 NMAC for guidance Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s) Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau 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 acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.					
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank - NM Office of the State Engineer - iWATERS database search, USGS, Data obtained from nearby wells	☐ Yes ⊠ No				
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) - Topographic map, Visual inspection (certification) of the proposed site	☐ Yes ☑ No				
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site, Aerial photo; Satellite image	☐ Yes ☑ No ☐ NA				
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits)	☐ Yes ☑ No ☐ NA				
 Visual inspection (certification) of the proposed site, Aerial photo, Satellite image Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search, Visual inspection (certification) of the proposed site 	☐ Yes ☑ No				
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality, Written approval obtained from the municipality	☐ Yes ☑ No				
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map, Topographic map, Visual inspection (certification) of the proposed site	☐ Yes ☑ No				
Within the area overlying a subsurface mine - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division					
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				

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15 17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19 15 17 9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19 15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17 10 NMAC Design Plan - based upon the appropriate requirements of 19 15.17 12 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19 15.17 12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15 17 9 NMAC and 19 15 17.13 NMAC
Previously Approved Design (attach copy of design) API Number or Permit Number
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15 17 9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19 15 17 9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19 15 17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17 11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19 15.17 12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15 17.9 NMAC and 19 15.17 13 NMAC Previously Approved Design (attach copy of design) API Number: (Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
Permanent Pits Permit Application Checklist: Subsection B of 19 15 17 9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15 17 10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19 15 17 11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19 15 17 11 NMAC 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 Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Eroston 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
Waste Excavation and Removal Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19 15.17 13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC

Maste Removal Closure For Closed-loop Systems That Utilize Alove Ground Steel Tanks or Hands of Biol 2019; (19 15 17 13 D NNAC) Instructions: Please indentify the facility of facilities for the disposal of liquids, drilling failude and drill cuttings. Less attachment if sucre than two facilities are required. Disposal Facility Name	16.						
Desposal Facility Name	Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if	D NMAC) more than two					
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 No greated many which will not be used for future service and operations: Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection 10 in 19 15 17 13 NMAC Re-regulation Plan - based upon the uppropriate requirements of Subsection 10 in 19 15 17 13 NMAC Sites Criteria fregarding on-site closure methods only): 19 15 17 10 NMAC Sites Criteria fregarding on-site closure methods only): 19 15 17 10 NMAC Sites Criteria fregarding on-site closure methods only): 19 15 17 10 NMAC Sites Criteria fregarding on-site closure methods only): 19 15 17 10 NMAC Sites Criteria fregarding on-site closure methods only): 19 15 17 10 NMAC Sites Criteria fregarding on-site closure methods only): 19 15 17 10 NMAC Sites Criteria fregarding on-site closure methods only): 19 15 17 10 NMAC Instructions: Each string criteria requires a demonstration of confidence in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain string criteria may require administrative approval from the uppropriate district of provided below. Requests regarding changes to certain string criteria may require administrative approval from the uppropriate district of provided below. Requests regarding changes to certain string criteria may require administrative approval from the uppropriate district of the state finance of the State finance. Plant Title Addabase search, USGS, Data obtained from nearby wells No Mothe of the State finance - i-MATIERS database search, USGS, Data obtained from nearby wells Within 300 feet of a continuously flowing waterourse, or 200 feet of any other segnificant waterourse or lakebed, sinkhole, or play a late (measured from the orthinary high-water mark) Yes No No Mothe of the State	•						
Yes [If yes, please provide the information below] No							
Gol Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection 1 of 19 15.1713 NMAC	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?						
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 source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Stant or Environmental Bureau office for consideration of approval. Instifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance. 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 Ground water is brewen 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 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 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. Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. NM Office of the State Engineer - IWATERS database; Visual inspection (certification) of the proposed site. Within 500 feet for a partial, other state Engineer - IWATERS database; Visual inspection (certification) of the proposed site. Within 500 feet of a welland. US Fish and Wildlife Wetland Identification map, Topographic map, Visual inspection (certification) of the proposed site. Within 500 feet of a welland. US Fish and Wildlife Wetland Identification map, Topographic map, Visual inspection (certification)	☐ 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						
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- US Fish and Wildlife Wetland Identification map, Topographic map, Visual inspection (certification) of the proposed site Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division Within an unstable area. - Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS; NM Geological Society, Topographic map Within a 100-year floodplain - FEMA map 18. On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17 13 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of 19 15 17 13 NMAC Construction/Design Plan of Burnal Trench (if applicable) based upon the appropriate requirements of 19.15.17 11 NMAC Construction/Design Plan of Temporary Pit (for in-place burnal of a drying pad) - based upon the appropriate requirements of 19.15.17 11 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17 13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17 13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)	adopted pursuant to NMSA 1978, Section 3-27-3, as amended.	☐ Yes ⊠ No					
Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division Within an unstable area. - Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS; NM Geological Society, Topographic map Within a 100-year floodplain - FEMA map Yes No No No No No No No No		☐ Yes ☑ No					
- Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS; NM Geological Within a 100-year floodplain - FEMA map 18. On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17.10 NMAC. Proof of Surface Owner Notice - based upon the appropriate requirements of 19 15 17 13 NMAC. Construction/Design Plan of Temporary Pit (for in-place burnal of a drying pad) - based upon the appropriate requirements of 19.15.17 11 NMAC. Protocols and Procedures - based upon the appropriate requirements of Subsection F 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)		☐ 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 plan. Please indicate, by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17.10 NMAC. Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC. Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17 11 NMAC. Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15 17 11 NMAC. Protocols and Procedures - based upon the appropriate requirements of 19 15.17.13 NMAC. Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC. Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17 13 NMAC. Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)	- Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS; NM Geological	☐ Yes ☑ No					
On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of 19 15 17 13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17 11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15 17 11 NMAC Protocols and Procedures - based upon the appropriate requirements of 19 15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17 13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)		☐ Yes ☑ No					
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC							

,						
Operator Application Certification: Description of the state of the						
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief						
Name (Print) JESSE EVANS Title CEO+PRESIDENT. Signature Ful Warn Date October 24, 2011						
e-mail address Jevans 232000 cyahoo, com Telephone 575-159-3224						
20. OCD Approval: Permit Application (including closure plan) Closure Plan (only) COCD Conditions (see attachment)						
OCD Representative Signature: Approval Date: 1/5/2011						
Closure Report (required within 60 days of closure completion): Subsection K of 19 15 17 13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.						
Closure Completion Date:						
Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only) If different from approved plan, please explain						
23. Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:						
Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more that two facilities were utilized.						
Disposal Facility Name Disposal Facility Permit Number						
Disposal Facility Name Disposal Facility Permit Number:						
Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) No						
Required for impacted areas which will not be used for future service and operations:						
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) ☐ 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						
Operator Closure Certification:						
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.						
Name (Print) Title						
Signature Date						
e-mail addressTelephone						

Hydro-Geological report for JAECO's: Apache JVA 3C

Regional Hydro-Geological Report:

The San Jose Formation of Eocene age occurs in New Mexico and Colorado, and its outcrop forms the land surface over much of the eastern half of the central basin. It overlies the Nacimiento Formation in the area generally south of the Colorado-New Mexico State line and overlies the Animas Formation in the area generally north of the State line. The San Jose Formation was deposited in various fluvial-type environments. In general, the unit consists of an interbedded sequence of sandstone, siltstone, and variegated shale. Thickness of the San Jose Formation generally increases from west to east (200 feet in the west and south to almost 2,700 feet in the center of the structural basin). Ground water is associated with alluvial and fluvial sandstone aquifers. Thus, the occurrence of ground water is mainly controlled by the distribution of sandstone in the formation. The distribution of such sandstone is the result of original depositional extent plus any post-depositional modifications, namely erosion and structural deformation. Transmissivity data for San Jose Formation are minimal. Values of 40 and 120 feet squared per day were determined from two aquifer tests (Stone et al, 1983, table 5). The reported or measured discharge from 46 water wells completed in San Jose Formation ranges from 0.15 to 61 gallons per minute and the median is 5 gallons per minute. Most of the wells provide water for livestock and domestic use.

The San Jose Formation is a very suitable unit for recharge from precipitation because soils that form on the unit are sandy and highly permeable and therefore readily adsorb precipitation. However, low annual precipitation, relatively high transpiration and evaporation rates, and deep dissection of the San Jose Formation by the San Juan River and its tributaries all tend to reduce the effective recharge to the unit.

Reference:

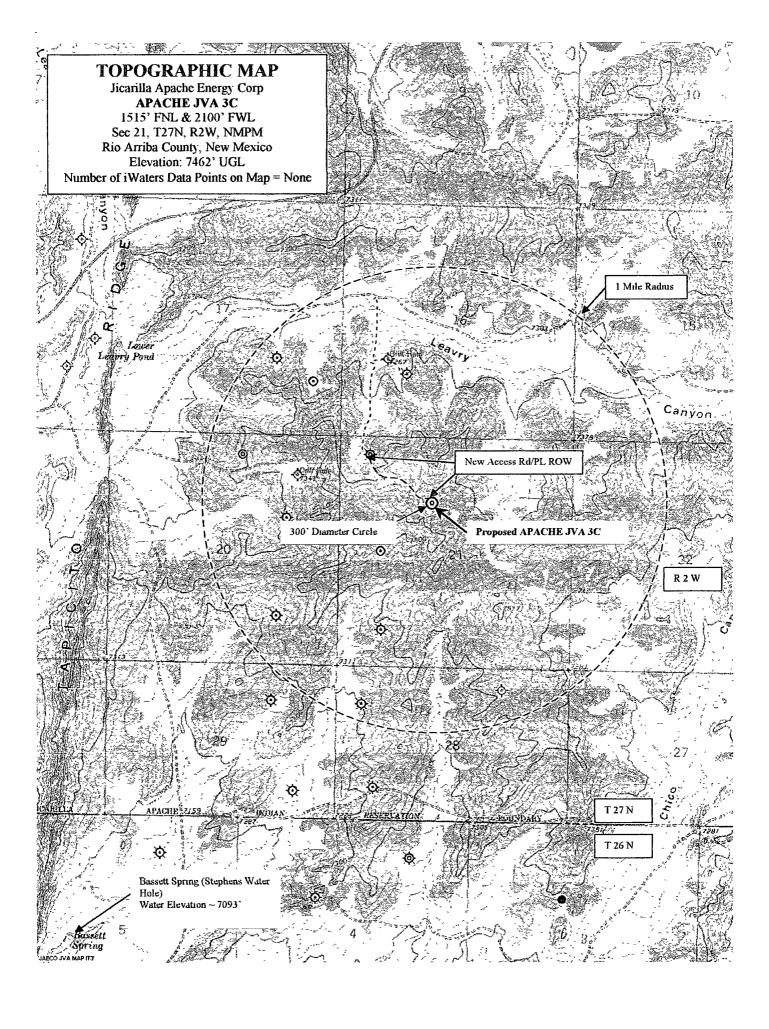
Stone et al., 1983, Hydrogeology and Water Resources of the San Juan Basin, New Mexico: Socorro, New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p.

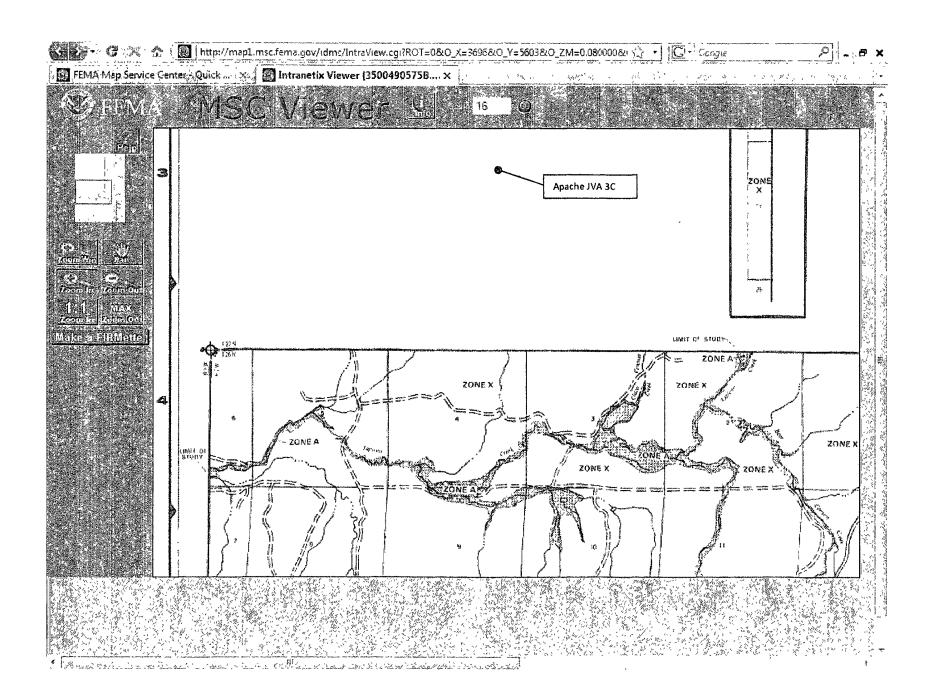
<u>Depth to Groundwater</u>: Depth to groundwater is estimated at 115+ feet bgs. There are no iWaters wells with recorded groundwater depth within a one-mile radius of the pit. However, a visual water survey of the area located a natural fed spring (water hole) approximately 11,820 feet S 43 deg W of the location with a Topo water surface elevation of 7093'. The Apache JVA 3C well is at an elevation of 7462', adjusting for the differences in surface elevations, puts depth to groundwater ~ 369 feet (see Topographic Map).

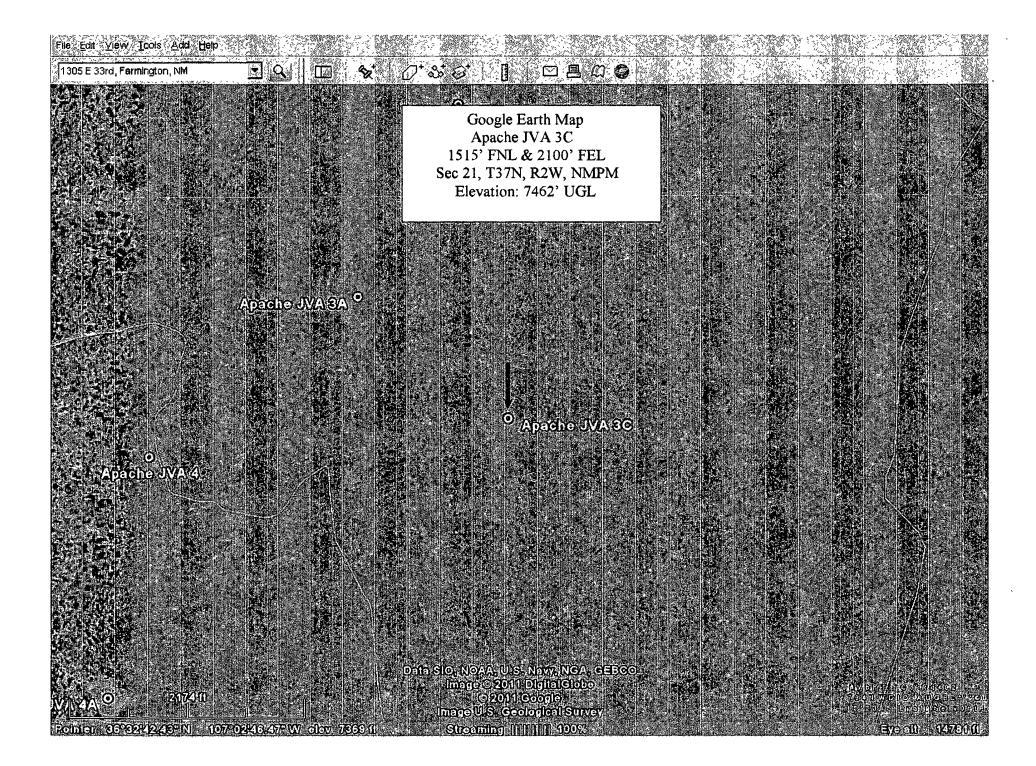
Siting Criteria Compliance Demonstration & Hydro Geologic Analysis

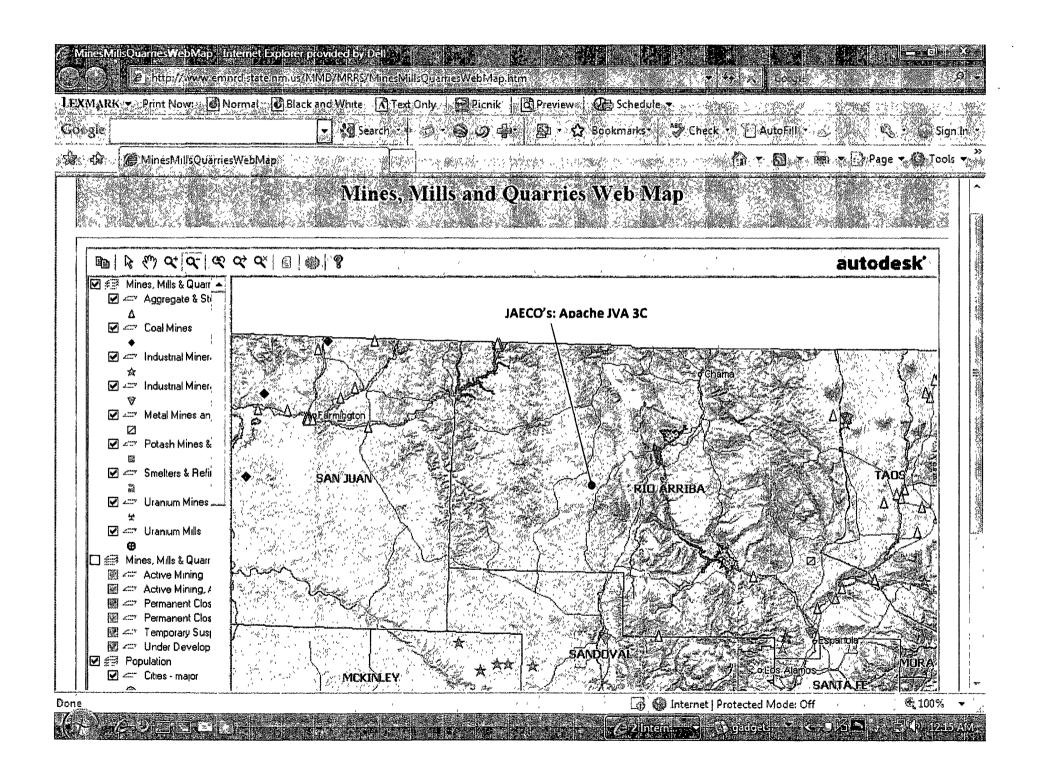
JAECO's Apache JVA 3C well is not located in an unstable area. The location is not over a mine and is not on the side of a steep hill as indicated on the Mines, Mills and Quarries Map and Topographic Map. The well is not located within 300' of any continuously flowing watercourse or 200' from any other significant watercourse, as indicated on the Topographic Map. The location is not within a 100-year floodplain area as indicated on the FEMA Map as this location is within the Jicarilla Apache Reservation, FEMA maps are not available for this site; however, visual siting, topographic map and Google Earth pictures indicate that the location is not in a floodplain. This location is not within 500' of any wetlands. The pit is not within 500 feet of any private, domestic fresh water well or spring or within 1000 feet of any other fresh water well or spring in existence at the time of initial application. The location is not within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. The pit will not be within any incorporated municipal boundaries or defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Sec 3-27-3, as amended. All available evidence considered, ground water depth is greater than 115'. There are no i WATERS data points located in T27N, R2W as indicated on the TOPO Map. The hydro geologic analysis indicates the groundwater depth and the San Jose formation will create a stable area for this new location.











District I
1625 N. French Dr., Hobbs, NM 68240
District II
1301 V. Grand Avenue, Artesia, NM 68216
District III
1000 Rio Brazos Rd., Aztec, NM 67410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

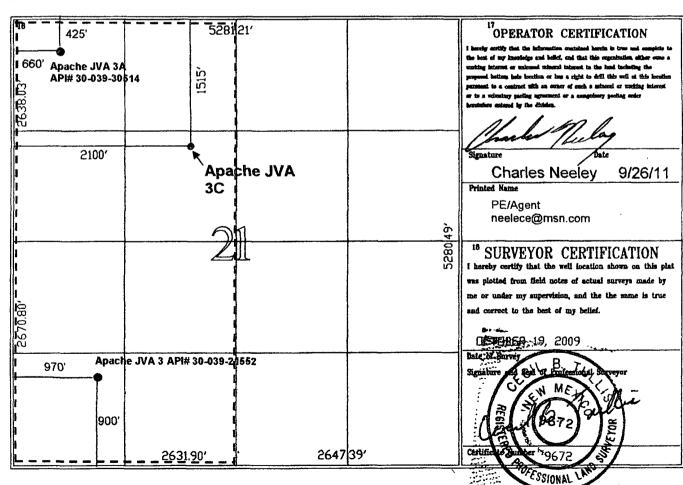
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

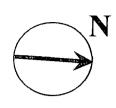
Form C-102 Revised October 12, 2005 Submit to Appropriate Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

			METT 1	LUCATIO	IN AIND ACE	EAGE DEDIC	ALIUN PLAI		
¹ API Number				*Pool Code 72319			³ Pool Name Blanco Mesa	verde	
	Property Code Property Name 6415 APACHE JVA						Well Number 3C		
7 OGEED N 118							Revation 7462		
					10 Surface Lo	cation			
UL or Lot no.	Section	Township	Range	Lot Idn	feet from the	North/South line	Feet from the	East/Vest line	County
F	21	27N	5 M		1515	NORTH	2100	WEST	RIO ARRIBA
			11B	ottom Hole	Location If Di	fferent From Surf	ace		
UL or Lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Rest/Vest line	County
^u Dedicated Acres 1		nt or Infill	14 Consolida	tion Code us	Order No.			**************************************	

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

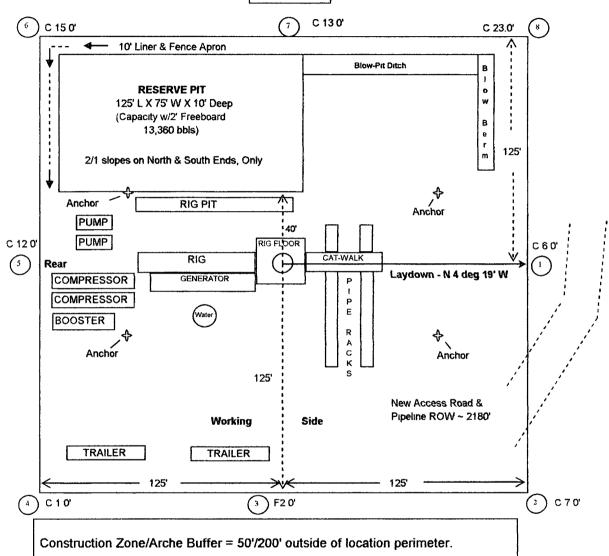






Neeley Consulting Service, LLC 3001 Northridge Dr., Farmington, NM 505-486-0211

SCALE 1" = 50'



JAECO

Wellsite Layout Plat with Cut & Fills APACHE JVA 3C

1515' FNL & 2100' FWL Sec 21, T27N, R2W, NMPM Rio Arriba Co., New Mexico Elevation: 7462' UGL

Jicarilla Apache Energy Corporation Pit Design and Construction Plan

In accordance with Rule 19.15.17 the following information describes the design and construction of temporary pits on Jicarilla Apache Energy Corporation (JAECO) locations. This is JAECO's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this plan.

General Plan:

- JAECO will design and construct a properly sized and approved temporary pit which wilt contain liquids and solids
 and should prevent contamination of fresh water and protect public health and environment
- 2 Prior to constructing the prt. topsoil will be stockpiled in the construction zone for later use in restoration
- 3 JAECO will sign the well location in compliance with 19.15.3.103 NMAC
- 4 JAECO shall construct all new fences around the temporary pit utilizing 48" steel mesh field-fence (hogwire) on the bottom with a single strand of barbed wire on top. T-posts shall be installed every 12 feet and corners shall be anchored utilizing a secondary T-post. Temporary pits will be fenced at all times excluding drilling or workover operations, when the front side of the fence will be temporarily removed for operational purposes
- 5 JAECO shall construct the temporary pit so that the foundation and interior slopes are firm and free of rocks, debris, sharp edges or irregularities to prevent liner failure
- 6 JAECO shall construct the pit so that the slopes are no steeper than two horizontal feet to one vertical foot
- 7 Pit walls will be walked down by a crawler type tractor following construction
- 8 All temporary pits will be lined with a 20-mil, string reinforced. LLDPE liner, complying with EPA SW-846 method 9090A requirements
- 9 Geotextile will be installed beneath the liner when rocks, debris, sharp edges or irregularities cannot be avoided
- 10 All liners will be anchored in the bottom of a compacted earth-filled trench at least 18 inches deep.
- 11 JAECO will minimize liner seams and orient them up and down, not across a slope. Factory seams will be used whenever possible. JAECO will ensure all field seams are welded by qualified personnel. Field seams will be overlapped four to six inches and will be oriented parallel to the line of maximum slope. JAECO will minimize the number of field seams in corners and irregularly shaped areas.
- 12 The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides, or a manifold system
- 13 The pit shall be protected from run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit in some cases
- 14 The volume of the pit shall not exceed 10 acre-feet, including freeboard
- 15. Temporary blow pits will be constructed to allow gravity flow to discharge into lined drill pit.
- 16. The lower half of the blow pit (nearest lined pit) will be lined with a 20-mil, string reinforced, LLDPE liner. The upper half of the blow pit will remain unlined as allowed in Rule 19 15 17.11 F.11.
- 17 JAECO will not allow freestanding liquids to remain on the unlined portion of a temporary blow pit

Jicarilla Apache Energy Corp (JAECO) Temporary Pit

Maintenance and Operating Plan

In accordance with Rule 19.15.17 the following information describes the operation and maintenance of temporary pits on JAECO locations. This is JAECO's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this plan.

General Plan:

- JAECO will operate and maintain a temporary pit to contain liquids and solids and maintain the integrity of the liner and liner system to prevent contamination of fresh water and protect public health and environment.
- JAECO will conserve drilling fluids by transferring liquids to pits ahead of the rigs whenever possible.
 All other drilling fluids will be disposed at TNT Environmental, permit # NM-0008-001 or Basin Disposal Inc., permit # NM-01-005.
- 3. JAECO will not discharge or store any hazardous waste in any temporary pit.
- 4. If any pit liner's integrity is compromised, or if any penetration of the liner occurs above the liquid's surface, then JECO shall notify the Aztec Division office by phone or email within 48 hours of the discovery and repair the damage or replace the liner.
- 5. If a leak develops below the liquid's level, JAECO shall remove all liquids above the damaged liner within 48 hours and repair the damage or replace the liner. JAECO shall notify the Aztec Division office by phone or email within 48 hours of the discovery for leaks less than 25 barrels. JAECO shall notify the Aztec Division office as required pursuant to Subsection B of 19.15.3.116 NMAC shall be reported within twenty-four (24) hours of discovery of leaks greater than 25 barrels. In addition, immediate verbal notification pursuant to Subsection B, Paragraph (1), and Subparagraph (d) of 19.15.3.116 NMAC shall be reported to the division's Environmental Bureau Chief.
- 6. The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides, or a manifold system.
- 7 The pit shall be protected from run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit in some cases.
- 8. JAECO shall immediately remove any visible layer of oil from the surface of the temporary pit after cessation of a drilling or workover operation. Oil absorbent booms will be utilized to contain and remove oil from the pit's surface. An oil absorbent boom will stored on-site until closure of pit.
- Only fluids generated during the drilling or workover process may be discharged into a temporary pit.
- 10. JAECO will maintain the temporary pit free of miscellaneous solid waste or debris.
- 11. During drilling operations, JAECO will inspect the temporary pit at least once daily to ensure compliance with this plan. Inspections will be logged in the Drilling reports. JAECO will file this log with the Aztec Division office upon closure of the pit.
- 12 After drilling operations, JAECO will inspect the temporary pit weekly so long as liquids remain in the temporary pit. A log of the inspections will be stored at JAECO's office electronically and will be filed with the Aztec Division office upon closure of the pit.
- 13. JAECO shall maintain at least two feet of freeboard for a temporary pit.
- 14. JAECO shall remove all free liquids from a temporary pit within 30 days from the date the operator releases the drilling rig.

Jicarilla Apache Energy Corp (JAECO)

Temporary Pit Closure Plan

In accordance with Rule 19.15.17.12 NMAC the following information describes the closure requirements of temporary pits on Jicarilla Apache Energy Corporation locations. This is JAECO's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this plan.

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

- Details on Capping and Covering, where applicable.
- Plot Plan (Pit Diagram)
- Inspection Reports
- Sampling Results
- C-105



General Plan:

- 1. All free standing liquids will be removed at the start of the pit closure process from the pit and disposed of in a division-approved facility or recycle, reuse or reclaim the liquids in a manner that the appropriate division district office approves. The disposal facilities which JAECO plans to use will be TNT Environmental (Permit #NM-01-008) or Basin Disposal (Permit #NM-01-005).
- 2. The preferred method of closure for all temporary pits will be in-place burial, assuming that all the criteria listed in sub-section (B) of 19.15.17.13 are met
- The surface owner shall be notified of JAECO's closing of the temporary pit prior to closure as per BLM MOU.
- 4. Within 6 months of the Rig Off status occurring JAECO will ensure that temporary pits are closed, re-contoured, and reseeded.
- Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and
 one week via email, or verbally. The notification of closure will include the following:
 Operator's name, Location: by Unit Letter, Section, Township, and Range. Well name and API
 number.
- 6. Liner of temporary pit shall be removed above the "mud level". Removal of liner will consist of manually or mechanically cutting liner at mud level and removing all remaining liner that is above mud level. Care will be taken to remove "All" of the liner i.e., edges of liner entrenched or buried. All excessive liner will be disposed of at a permitted Landfill.
- 7. Pit contents shall be mixed with non-waste containing, earthen material in order to achieve the stabilization process. The stabilization process will be accomplished using a combination of natural drying and mechanically mixing. Pit contents will be mixed with non-waste, earthen material to a consistency that will support the pit's final cover. The mixing ratio shall not exceed 3 parts clean soil to 1 part pit contents.
- 8. A five point composite sample will be taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17.13(B)(1)(b). JAECO shall notify the division of the results on form C-141. If standard testing fails under the specific depth to groundwater permitted criteria, all contents will be handled per Subparagraph (a) of Paragraph (1) of Subsection B of 19.15.17.13 Dig and haul. After doing such, confirmation sampling will be conducted to ensure a release has not occurred.

8.	Continued:	Components	Tests Method	Limit (mg/kg)	Results
		Benzene	EPA SW-846 8021B or 8260B	0.2	
		BTEX	EPA SW-846 8021B or 8260B	50	
		TPH	EPA SW-846 418 1	2500	
		GRO/DRO	EPA SW-846 8015M	500	
		Chlorides	EPA 300.1	1000/500	

- 9 Upon completion of stabilization and testing standards being passed, the pit area will be backfilled with compacted, non-waste containing, earthen material. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.
- 10. During the stabilization process, if the liner is ripped by equipment the Aztec OCD office will be notified within 48 hours and the liner will be repaired if possible. If the liner can not be repaired then all contents will be excavated and removed.
- 11. Dig and Haul Material will be transported to a division-approved facility. The disposal facilities which JAECO plans to use will be TNT Environmental (Permit #NM-01-008) or Envirotech (Permit #NM-01-011).
- 12. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Reshaping will include drainage control, prevent ponds, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 13. Notification will be sent to OCD when the reclaimed area is seeded.
- 14. JAECO shall seed the disturbed areas the first growing season after the pit is closed. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. APD stipulated seed mixtures will be used on Jicarilla Apache Tribal Lands. Vegetative cover will equal 70% of the native perennial vegetative cover; that said re-vegetation shall be agreed to, completed and accepted by the SMA. Reseeding will be maintained for 2 successive growing seasons.
- 15 The temporary pit will be located with a steel marker, no less than four inches in diameter, cemented in a hole three feet deep in the center of the onsite burial upon the abandonment of all the wells on the pad. The marker will be flush with the ground to allow access of the active well pad and for safety concerns. The marker will include a threaded collar to be used for future abandonment. The top of the marker will contain steel 12" square plate that indicates the onsite burial of the temporary pit. The plate will be removable and a four foot tall riser will be threaded into the top of the collar marker and welded around the base with the operator's information at the time of all wells on the pad are abandoned. The operator's information will include the following: Operator Name, Lease Name, Well Name and number, Unit Number, Section, Township, Range and an indicator that the marker is a reserve pit burial location.