District I '
1625 N. French Dr , Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department



Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Mb

Form C-144 June 16, 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 Tank, or
Proposed Alternative Method Permit or Closure Plan Application

JUL - 7 2008 **OCD-ARTESI**A

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

Instructions: Please submit one application (Form C-144) per in	ndividual pit, closed-loop system, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of lie	
	ply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: Tandem Energy Corporation	
Address: P O Box 1559 Midland, TX 79702	
Facility or well name: <u>Ballard Grayburg San Andres #5G</u> (12-5)	
API_Number: .30-015-36202	OCD Permit Number:
U/L or Qtr/Qtr D Section 8 Township 18S	Range 29E County: Eddy
Center of Proposed Design: Latitude 32.7684254	Longitude <u>104.1015420</u> NAD: ⊠1927 ☐ 1983
Surface Owner: Federal State Private Tribal Trust or Indian	Allotment
Pit: Subsection F or G of 19.15.17.11 NMAC	Closed-loop System: Subsection H of 19.15.17.11 NMAC
Temporary: Drilling Workover PIT BEFULE	☐ Drying Pad ☐ Tanks ☐ Haul-off Bins ☐ Other
Permanent Emergency Cavitation	☐ Lined ☐ Unlined
☐ Lined ☐ Unlined	Liner type: Thickness mil
Liner type: Thickness 12 mil LLDPE HDPE PVC	☐ Other
Other String-Reinforced	Seams: Welded Factory Other
Seams: Welded Factory Other	Volume:bblyd³
Volume: <u>300</u> bbl Dimensions: L <u>90'</u> x W <u>50'</u> x D <u>5'</u>	Dimensions: Lengthx Width
Below-grade tank: Subsection I of 19.15.17.11 NMAC	Fencing: Subsection D of 19.15.17.11 NMAC
Volume:bbl	☐ Chain link, six feet in height, two strands of barbed wire at top
Type of fluid:	Four foot height, four strands of barbed wire evenly spaced between one and
Tank Construction material	four feet
Secondary containment with leak detection	Netting: Subsection E of 19.15.17.11 NMAC
☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	☐ Screen ☐ Netting ☐ Other
☐ Visible sidewalls and liner	☐ Monthly inspections
☐ Visible sidewalls only	Signs: Subsection C of 19.15.17.11 NMAC
☐ Other	12'x24', 2' lettering, providing Operator's name, site location, and
Liner type: Thicknessmil HDPE PVC	emergency telephone numbers
Other	☐ Signed in compliance with 19.15.3.103 NMAC
Alternative Method: Submittal of an exception request is required. Exceptions must be	Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to
submitted to the Santa Fe Environmental Bureau office for consideration	19.15.17 NMAC for guidance.
of approval.	Please check a box if one or more of the following is requested, if not leave
	blank: Administrative approval(s): Requests must be submitted to the
	appropriate division district or the Santa Fe Environmental Bureau office for
	consideration of approval. Exception(s): Requests must be submitted to the Santa Fe
	Environmental Bureau office for consideration of approval.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.	ſ		
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 watercourse, 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	ļ	☐ Yes ⊠ No ☐ NA	
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		☐ Yes ☐ No ☑ 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. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	n.	☐ 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	
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 19.15.17.15 NMAC □ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.15 NMAC □ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC □ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC □ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC □ Closure Plan - 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: 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			
mattached. Geologic and Hydrogeologic Data (required for on-site closure) - based upon the requirements of Paragraph (3) of Subsection Siting Criteria Compliance Demonstrations (required for on-site closure) - based upon the appropriate requirements of 19.15.1 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 - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	B of	19.15.17.15	
Previously Approved Design (attach copy of design) API Number:			

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 19.15.17.15 NMAC				
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC				
Climatological Factors Assessment				
Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC				
Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC				
☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC				
Quality Control/Quality Assurance Construction and Installation Plan				
☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC				
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.12 NMAC				
Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan				
Emergency Response Plan				
☐ Oil Field Waste Stream Characterization				
Monitoring and Inspection Plan				
Erosion Control Plan				
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC				
Proposed Closure: 19.15.17.13 NMAC				
Type: Drilling Workover Emergency Cavitation Permanent Pit Below-grade Tank Closed-loop System	Alternative			
Proposed Closure Method: Waste Excavation and Removal				
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)			
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	n			
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. Justifications 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.	Yes No			
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	│ □ NA			
County water is between 50 and 100 feet below the bettern of the buried waste	U Var U 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☐ NA			
NIVI Office of the State Engineer - TWATERS database search, 0303, Data obtained from hearby wens	□ IVA			
Ground water is more than 100 feet below the bottom of the buried waste.	☐ Yes ☐ No			
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ NA			
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake	☐ Yes ☐ No			
(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.	☐ Yes ☐ No			
- 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	☐ Yes ☐ No			
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				
The series of the proposed blooms and the proposed blooms are proposed blooms.				
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	☐ Yes ☐ No			
adopted pursuant to NMSA 1978, Section 3-27-3, as amended.				
- Written confirmation or verification from the municipality; Written approval obtained from the municipality				
Within 600 Cart Countries				
Within 500 feet of a wetland.	☐ Yes ☐ No			
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site				
Within the area overlying a subsurface mine.	☐ Yes ☐ No			
- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	L 162 LINO			
Within an unstable area.				
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	☐ Yes ☐ No			
Society; Topographic map				
Within a 100-year floodplain.	☐ Yes ☐ No			
- FEMA map	1			

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					
Waste Removal Closure For Closed-loop Systems That Utilize 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.					
Disposal Facility Name: Disposal Facility Permit Number:					
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 and Design of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation, Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved) Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC					
Operator Application Certification:					
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): CHESTER SACKETT Title: EXECUTIVE BERGGTOR HSSE					
Signature: Cl. Date: 30 Time 2008					
é-mail address: CSACRETT @ DUATEMERAY. COM Telephone: 361 574 0180					
OCD Approval: Permit Application (including closure plan) Closure Plan (only)					
OCD Representative Signature: Approval Date: 7/7/08					
Title: Number: 020834					
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Closure Completion Date:					
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC					
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Closure Completion Date: Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method					
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method If different from approved plan, please explain. 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 Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)					
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method If different from approved plan, please explain. 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 Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results 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					
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method If different from approved plan, please explain. 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 Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results 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:					
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method If different from approved plan, please explain. 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 Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results 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.					

Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768 Phone (432) 366-0043 Fax (432) 366-0884

June 27, 2008

NMOCD Attn: Mike Bratcher 1301 W. Grand Ave Artesia, NM 88210

Re: Closure Plan for Tandem Energy – Ballard Grayburg San Andres #5G (12-5)

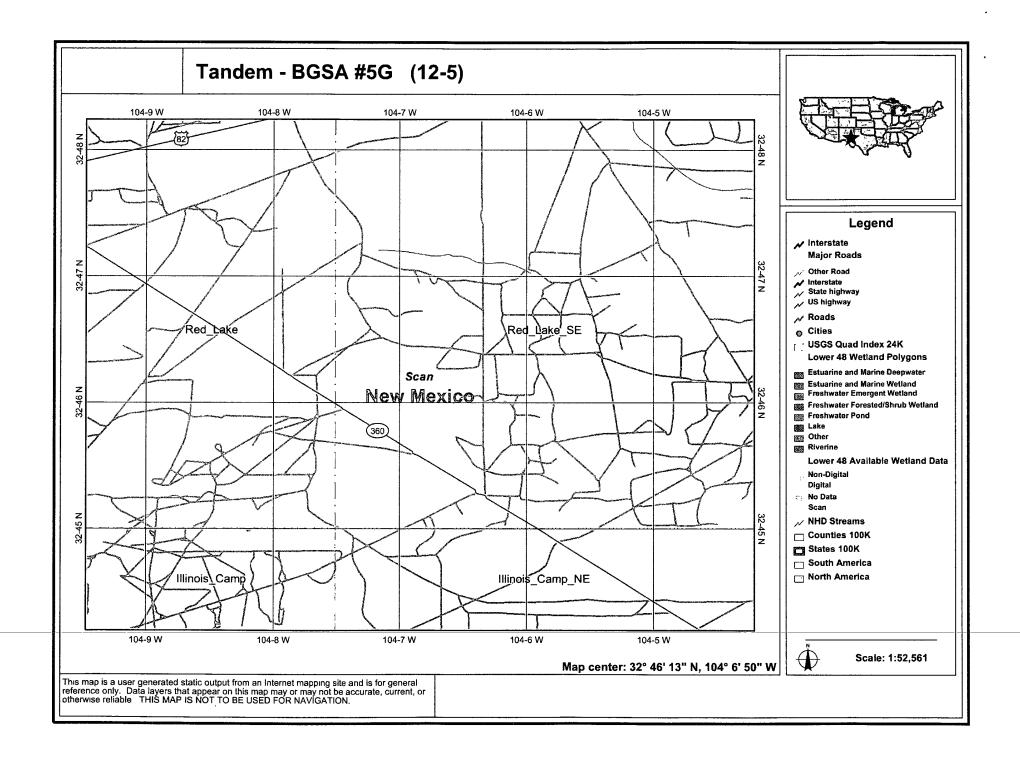
Mr. Bratcher,

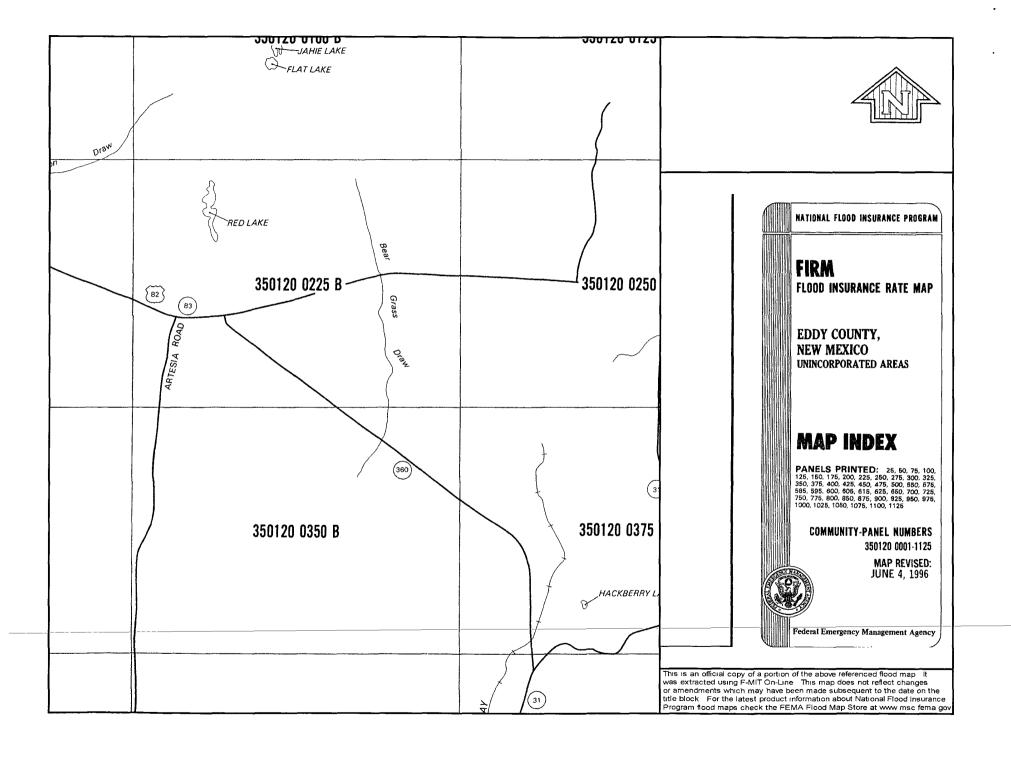
The proposed closure for the above well is waste excavation and removal. All excess fluids will be removed and disposed at a division-approved facility. The drilling mud and liner will be excavated and hauled to Lea Land Disposal (Permit # WM-1-035). After all drilling mud and liner have been removed, the pit bottoms will be sampled in six points and analyzed for TPH, total BTEX, Benzene, Chlorides and the DRO and GRO combined fractions. The levels will not exceed 0.2 mg/kg of Benzene, 50 mg/kg of total BTEX, 2,500 mg/kg of TPH, 500 mg/kg of combined fraction GRO/DRO, 500 mg/kg of Chlorides. If samples exceed these levels a C-141 will be submitted.

Once backfill is approved the site will be backfilled with clean native soil and a minimum of 1' of topsoil will be placed on the site to promote revegetation. The site will be reseeded with BLM Seed Mixture #2. A final report will be attached to the Final C-144 once closure is commenced.

Thanks, Logan Anderson

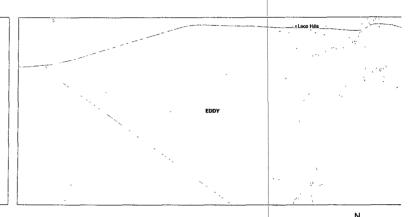






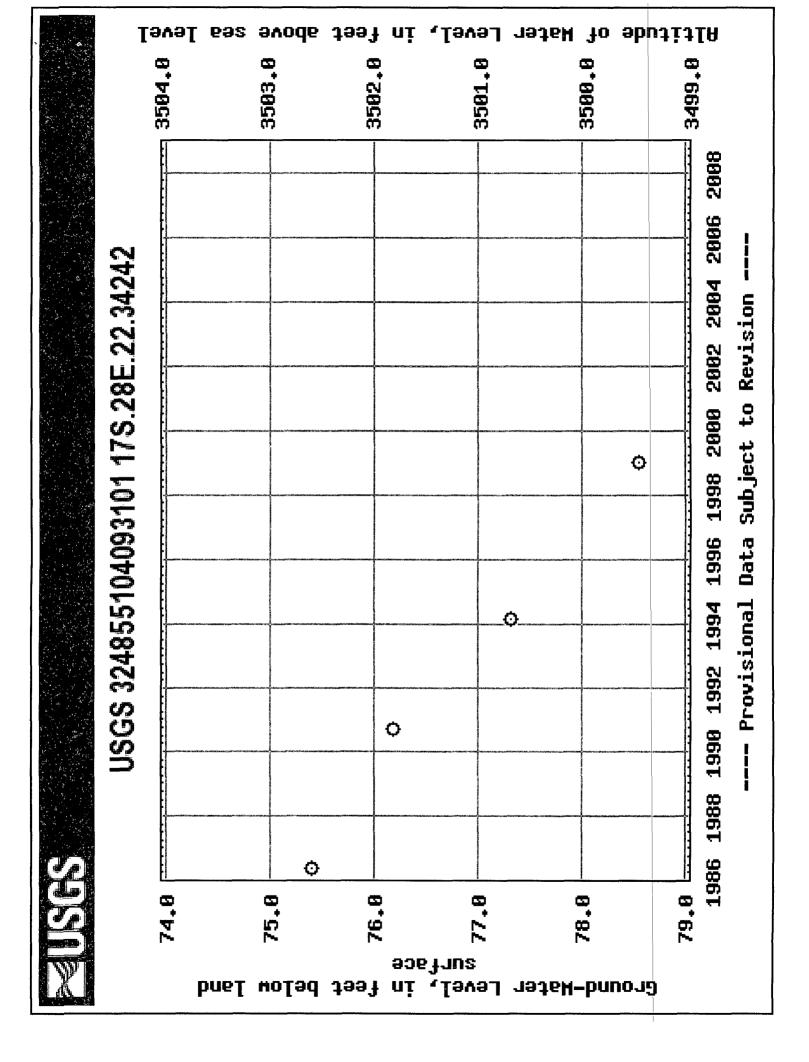
Tandem - BGSA #5G (12-5)

Mines,	Mills & Quarries Commodity Groups
Δ	Aggregate & Stone Mines
•	Coal Mines
*	Industrial Minerals Mines
•	Industrial Minerals Mills
	Metal Mines and Mill Concentrate
	Potash Mines & Refineries
was und	Smelters & Refinerv Ops.









New Mexico Office of the State Engineer POD Reports and Downloads

Township: 18S Range	29E Sections:			
NAD27 X: Y:	Zone:	Search Radius	::	
County: Basin:		Number:	Suffix:	
Owner Name: (First)	(Last)	- ○ Non-Domestic	C Domestic • All	
POD / Surface Data Report Avg Depth to Water Report Water Column Report				
Clear Form IWATERS Menu Help				

AVERAGE DEPTH OF WATER REPORT 06/27/2008

Bsn Tws Rng Sec Zone X Y Wells Min Max Avg

No Records found, try again