State of New Mexico Energy Minerals and Natural Resources Department

-servation Division with St. Francis Dr. U Santa Fe, NM 87505

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.

Form C-144

July 21, 2008

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-Loon System Below-Grade Tank or

Proposed Alternative Method Permit or Closure Plan Application
Type of action: Existing BGT 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.
1.
Operator: XTO Energy, Inc. OGRID #: 5380
Address: #382 County Road 3100, Aztec, NM 87410
Facility or well name: Abrams J CDP #1
API Number: 3004525521 OCD Permit Number:
U/L or Qtr/Qtr 1 Section 29 Township 29N Range 10W County: San Juan
Center of Proposed Design: Latitude 36.69431 Longitude 107.90265 NAD: □1927 ☑ 1983
Surface Owner: Tederal 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: Thicknessmil LLDPE HDPE PVC Other
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
3. Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other Liner Seams: Welded Factory Other
4. ■ Below-grade tank: Subsection I of 19.15.17.11 NMAC
Volume: 95 bbl Type of fluid: Produced Water
Tank Construction material: Steel
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☒ Other Visible sidewalls, vaulted, automatic high-level shut off, no liner

Alternative Method:

Liner type: Thickness

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

	-
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church)	nospital,
Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify_Four foot height, steel mesh field fence (hogwire) with pipe top railing	
7.	
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
Screen Netting Other Expanded metal or solid vaulted top	
Monthly inspections (If netting or screening is not physically feasible)	_
8.	
Signs: Subsection C of 19.15.17.11 NMAC	
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
⊠ Signed in compliance with 19.15.3.103 NMAC	
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau of consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate 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 drying above-grade tanks associated with a closed-loop system.	oriate district oproval. ng pads or
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	X 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
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
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	☐ 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 19.15.17.9 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:
Previously Approved Operating and Maintenance Plan 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 Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Erosion Control Plan Erosion Control 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 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)
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 Above Ground S Instructions: Please indentify the facility or facilities for the disposal of liquids, d facilities are required.								
	Disposal Facility Permit Number:							
	Disposal Facility Pennit Number:							
Will any of the proposed closed-loop system operations and associated activities occ Yes (If yes, please provide the information below) No								
Required for impacted areas which will not be used for future service and operation Soil Backfill and Cover Design Specifications based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requirements of Subsection	requirements of Subsection H of 19.15.17.13 NMAC of 19.15.17.13 NMAC	C						
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the comprovided below. Requests regarding changes to certain siting criteria may require considered an exception which must be submitted to the Santa Fe Environmental demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for	administrative approval from the appropriate dist Bureau office for consideration of approval. Justi	rict 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								
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other sign lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	ificant watercourse or lakebed, sinkhole, or playa	Yes No						
Within 300 feet from a permanent residence, school, hospital, institution, or church - Visual inspection (certification) of the proposed site; Aerial photo; Satellite		☐ Yes ☐ No						
Within 500 horizontal feet of a private, domestic fresh water well or spring that less watering purposes, or within 1000 horizontal feet of any other fresh water well or sp. NM Office of the State Engineer - iWATERS database; Visual inspection (or	ring, in existence at the time of initial application.	Yes No						
Within incorporated municipal boundaries or within a defined municipal fresh water adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approva		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 Society; Topographic map	& Mineral Resources; USGS; NM Geological	Yes No						
Within a 100-year floodplain FEMA map		☐ Yes ☐ No						
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Protocols and Procedures - based upon the appropriate requirements of 19.15. Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Sisposal Facility Name and Permit Number (for liquids, drilling fluids and Psocial Cover Design - based upon the appropriate requirements of Subsection Figure 19.15 - Site Reclamation Plan - based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requirements of Subsection I	irements of 19.15.17.10 NMAC Subsection F of 19.15.17.13 NMAC propriate requirements of 19.15.17.11 NMAC d) - based upon the appropriate requirements of 19. 17.13 NMAC irements of Subsection F of 19.15.17.13 NMAC subsection F of 19.15.17.13 NMAC ill cuttings or in case on-site closure standards cannot of 19.15.17.13 NMAC of 19.15.17.13 NMAC	15.17.11 NMAC						

Operator Application Certification:	on is two sequents and semulat	a to the boot of any knowledge and ballof
I hereby certify that the information submitted with this application		
Name (Print): Kim Champlin	Intle:	Environmental Representative
Signature: Rm Champlin	Date:	11/24/08
e-mail address: kim_champlin@xtoenergy.com	Telephone	:(505) 333-3100
20.		OCD COLLEGE (COLLEGE)
OCD Approval: Permit Application (including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)
OCD Representative Signature:		Approval Date:
Title:	OCD Permit	Number:
Closure Report (required within 60 days of closure completion Instructions: Operators are required to obtain an approved clos The closure report is required to be submitted to the division with section of the form until an approved closure plan has been obtain	ure plan prior to implementing hin 60 days of the completion o nined and the closure activities	any closure activities and submitting the closure report. f the closure activities. Please do not complete this have been completed.
	Closure	Completion Date:
Closure Method: Waste Excavation and Removal On-Site Closure Metho If different from approved plan, please explain.	d Alternative Closure Me	ethod Waste Removal (Closed-loop systems only)
23. Closure Report Regarding Waste Removal Closure For Closed Instructions: Please indentify the facility or facilities for where two facilities were utilized.		
Disposal Facility Name:	Disposal Facil	lity Permit Number:
Disposal Facility Name:	Disposal Facil	lity Permit Number:
Were the closed-loop system operations and associated activities partial. Yes (If yes, please demonstrate compliance to the items below)		"I not be used for future service and operations?
Required for impacted areas which will not be used for future services. Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	vice and operations:	
24. Closure Report Attachment Checklist: Instructions: Each of a mark in the box, that the documents are attached.	the following items must be atto	ached to the closure report. Please indicate, by a check
Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for one 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		NAD: □1927 □ 1983
25.		
Operator Closure Certification: I hereby certify that the information and attachments submitted wibelief. I also certify that the closure complies with all applicable of	th this closure report is true, according to the condition of the conditio	curate and complete to the best of my knowledge and ions specified in the approved closure plan.
Name (Print):	Title:	
Signature:	Date:	
e-mail address:	Telephon	e;

STATE OF NEW MEXICO EHGY AND MINERALS DEPARTMENT

VIL CUNSERVATION DIVISION

P. O. UOX 2086 SANTA FE, NEW MEXICO 87501 form C-107 keylsed 10-1-78

All distances must be from the cuter boundaries of the Section.

	AMOCO PRO	DUCTION COMPAN	ſΥ	ABRAMS GAS GOM "I" Well No. 1						
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Sec. Postume Fromentian Pool E.+ E.+ Deficited Accessed 100/40 Access 100/40 Acces			- 			54				
1. Outline the accessed addicated to the subject well by colored pencil or heachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the awnership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all awners been consolidated by communitization, unitization, force-pooling, etc? 3. If more than one lease of different ownership is dedicated to the well, have the interests of all awners been consolidated by communitization, unitization, force-pooling, etc? 3. If more than one lease of different ownership is dedicated to the well, have the interests of all awners been consolidated (by communitization, unitization, inforced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. 3. CERTIFICATION 4. In this place was plotted from field named have to leave the first the information contained have to leave and complete to the fact of my horselege and bellet. 4. Ames D.H. SIDEMAKER Position District ENGINEER Company AMOCO PRODUCTION COMPANY Date NOVEMBER 12, 1982 1. American descriptions and that the same is true and complete to the best of my lowering and bellet. 4. American description, and that the same is true and complete to the best of my lowering and bellet. 4. Among D.H. SIDEMAKER Position District ENGINEER Company AMOCO PRODUCTION COMPANY Date November 11, 3982 Related a notical Experses ANOVEMBER 12, 1982					5 100	t from the				
1. Outline the acreage dedicated to the subject well by colored pencil or hackure marks on the plat below. 2. If more than one lease is dedicated to the well, autline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? Yes	-			4	ليط field Chacr	a/Armen		160/40		
interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? Yes No If answer is "yes," type of consolidation Abrams Cas Com "I" No. 1 Communitization Abrams "J" No. 1 NO Gallup		the acreage dedic	ated to the subject	well by o	colored pencil	or hachure	marks on the	plat below.		
dated by communitization, unitization, force-pooling, etc? Yes No If answer is "yes," type of consolidation Abrams Gas Com "I" No. 1 Communitization Abrams "J" No. 1 NO Gallup			s dedicated to the we	ell, outli	ne each and ide	entify the	ownership ther	eof (both as to working		
If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I haveby carrify that the information contained have in its true and complete to the best of my knowledge and belief. Name D.H. SHOEMAKER Position DISTRICT ENCINEER Company AMOCO PRODUCTION COMPANY Date NOVEMBER 12, 1982 I hereby carrify that the well location shown on this plat was plotted from field notes of decided surveys mode by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveysd November 11, 1982 Resplatives Protessional Engineer Movember 11, 1982			•	_		have the	interests of a	Il awners been consoli-		
If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form in facessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify their the information contention bear of my homeledge and belief. Name DISTRICT ENGINEER Company AMOCO PRODUCTION COMPANY Date NOVEMBER 12, 1982 I hereby cartify their the well facetion shown on this plat was platted from field naives of actual surveys mode by me or under my supervision, and that the same is true and correct to the best of my homeledge and belief. Chacra Chacra Chacra Chacra Chacra	Yes Yes	☐ No If a	answer is "yes," type	of conso	lidation Abra	ms Gas (Com "I" No.	1 Communitizati		
this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Name D. H. SHOEMAKER Fosition DISTRICT ENGINEER Company AMOCOO PRODUCTION COMPANY Date NOVEMBER 12, 1982 I hereby certify that the well facation about an this plat was plotted from field notes of cetual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed November 11, 1982 Registedge Professional Engineer and Carreer of Surveyer November 11, 1982 Registedge Professional Engineer and Carreer of Surveyer Output Date Gurveyer November 11, 1982 Registedge Professional Engineer and Carreer of Surveyer Output Date Gurveyer November 11, 1982 Registedge Professional Engineer and Carreer of Surveyer Output Date Gurveyer November 11, 1982	If answer	r is "no" list the	owners and tract des	scription						
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Gallup Gallup Gallup I hereby certify that the information contained herein is true and complete to the best of my knowledge and beltef. Name D.H. SHOEMAKER Position DISTRICT ENGINEER Company AMOCO PRODUCTION COMPANY Dote NOVEMBER 12, 1982 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and carrect to the best of my knowledge and beltef. Date Surveyed November 11, 1982 Registifed Professional Engineer and Land Surveyor										
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D.H. SHOEMAKER Position DISTRICT ENGINEER Company AMOCO PRODUCTION COMPANY Date NOVEMBER 12, 1982 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed November 11, 1982 Registefed Protessional Engineer and Land Surveyor Chacra Chacra		1		** **	1		Jak 17	Ahren hier		
DISTRICT ENGINEER Company AMOCO PRODUCTION COMPANY Date NOVEMBER 12, 1982 I hereby certify that the well location shown on this plot was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed November 11, 1982 Registefed Professional Engineer and Land Surveyor Fred 3. Kerr Jr.		· 		`	1			EMAKER		
AMOCO PRODUCTION COMPANY Date NOVEMBER 12, 1982 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed November 11, 1982 Registefed Professional Engineer and Land Surveyor The Chacra		1			l	1		ENGINEER		
Gallup I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed November 11, 1982 Registefed Protessional Engineer and Land Surveyor A Land Surveyor The Chacra		1		· .				DOUCTION COMPANY		
Gallup I hereby certify that the well location shown on this plot was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed November II, 1982 Registered Professional Engineer and Land Surveyor Chacra Chacra		ı S	ec.		1		Date			
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A	±	Dia Damaia	Client:	XTO Energy
Lodestar Service	es, Inc.	Pit Permit	Project:	Pit Permits
PO Bar 4465, Duran	po, CO 81302	Siting Criteria	Revised:	17-Nov-08
V		Information Sheet	Prepared by:	Devin Hencmann
API#:		3004525521	USPLSS:	29N, 10W, 291
Name:	Al	BRAMS J CDP #1	Lat/Long:	36.69431/-107.90265
Depth to groundwater:		< 50'	Geologic formation:	Naciemento
Distance to closest continuously flowing watercourse:		to the 'San Juan River'		et er er i de direkte om ette er eller 124 filleber
Distance to closest significant watercourse, lakebed, playa lake, or sinkhole:	327' W to	Creighton Canyon wash		
	gt - wie it septi	Company of the State of the Sta	Soil Type:	Entisols
Permanent residence, school, hospital, institution or church within 300'	238 SE t	o permanent structure		
			Annual Precipitation:	Bloomfield: 8.71", Farmington: 8.21", Otis: 10.41"
Domestic fresh water well or spring within 500'		No	Precipitation Notes:	Historical daily max: Bloomfield (4.19")
Any other fresh water well or spring within 1000'		o well SJ-03777 POD1- vater depth 50'		
	se n m A	Park the state of		A ST A SOUTH OF THE A STATE OF THE STATE OF
Within incorporated municipal boundaries		No	Attached Documents:	i-Waters report pdf
Within defined municipal fresh water well field		No		Topo map pdf, Aerial pdf, Mines and Quarries Map pdf, Waters Ground Water Data Map pdf, FEMA flood zone map pdf
	g Tour gain			the state of the s
Wetland within 500'		No	Mining Activity:	None
Within unstable area		No		
Within 100 year flood plain	No	o-FEMA Zone 'X'		
Additional Notes:		the state of the s	entropia de la composición del composición de la composición de la composición del composición del composición de la composición del composición de la composición del c	and the second s
		IE to concrete lined		

ABRAMS J CDP #1 Below Ground Tank Siting Criteria and Closure Plan

Well Site Location

Legals: T29N, R10W, Section 29I

Latitude/Longitude: approximately 36.69431, -107.90265

County: San Juan County, NM

General Description: near the San Juan River

General Geology and Hydrology

The San Juan Basin is a typical Rocky Mountain basin with a gently dipping southern flank and a steeply dipping northern flank. Asymmetrically layered Tertiary sandstones and shales, along with Quaternary alluvial deposits dominate surficial geology (Dane and Bachman, 1965). The proposed below ground tank location will be near Creighton Canyon, just south of Bloomfield and the San Juan River. The Nacimiento Formation of Tertiary Age is exposed, along with Quaternary alluvial and aeoloian sands within dry washes and arroyos.

Cretaceous and Tertiary sandstones, as well as Quaternary alluvial deposits serve as the primary aquifers in the San Juan basin (Stone et al., 1983). In most of the proposed area, the Nacimiento Formation lies at the surface. Thickness of the Nacimiento ranges from 418 to 2232 feet (Stone et al., 1983). Aquifers within the coarser and continuous sandstone bodies of the Nacimiento Formation are between 0 and 1000' deep in this section of the basin (Stone et al., 1983). Groundwater within these aquifers flows toward the nearby San Juan River and its tributaries.

The prominent soil type at the proposed site is entisols, which are defined as soils that do not show any profile development. Soils are basically unaltered from their parent rock. Miles of arroyos, washes and intermittent streams exist as part of the drainage network towards the La Plata River (www.emnrd.state.nm.us). These features often cut into soil and other unconsolidated materials, contributing to sedimentation downstream. The sudden influx of water from storm events easily erodes soils that cover the area.

The climate of the region is arid, averaging just over 8 inches of rainfall annually. As is typical of the southwestern United States monsoonal weather patterns, most precipitation falls from August through October. The heaviest rainfall occurs in the summer in isolated, intense cloudbursts. November through June is relatively dry. Snow generally falls from December to mid-February and averages less than one-half inch in depth. However, most recharge occurs during the winter months during snowmelt periods from the upper elevations (Western Regional Climate Center www.wrcc.dri.edu).

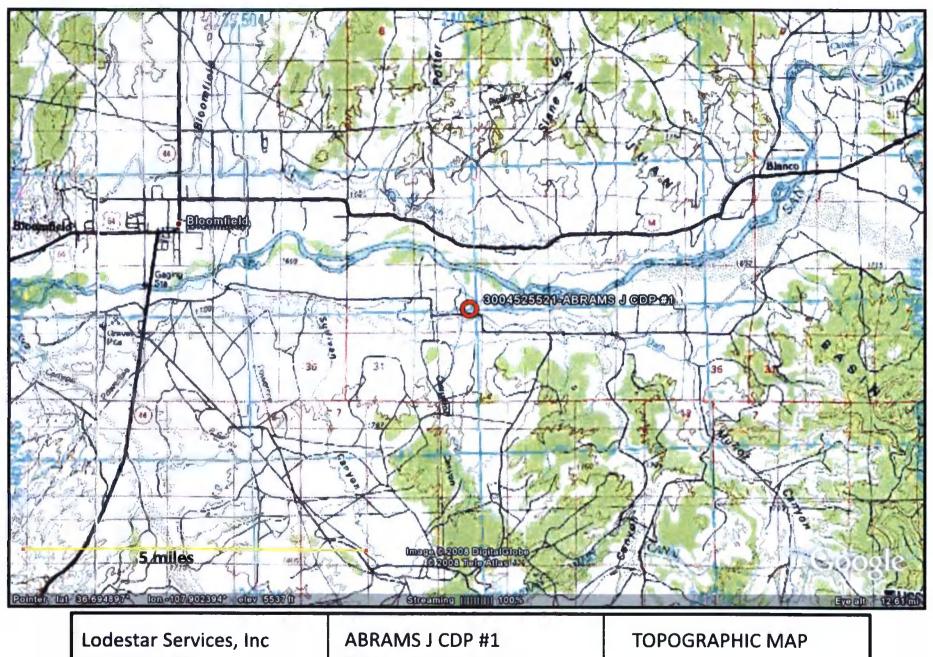
The predominant vegetation is sagebrush and grasses with a more restricted pinon-juniper association (Dick-Peddie, 1993).

Site Specific Hydrogeology

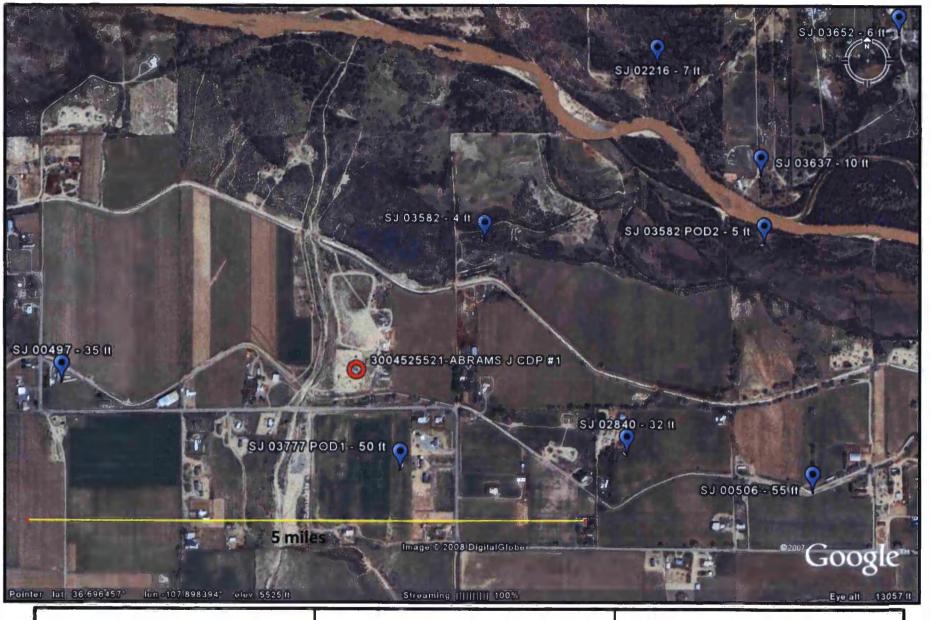
Depth to groundwater is estimated to be less than 50 feet. This estimation is based on data from Stone and others, 1983 and depth to groundwater data published on the New Mexico State Engineer's iWaters Database website. Local topography and proximity to surface hydrologic features are also taken into consideration.

Local aquifers include sandstones within the Nacimiento Formation, which ranges from 0 to 1000 feet deep in this area, as well as shallow aquifers within Quaternary alluvial deposits (Stone et al., 1983). The 1000-foot depth range for Nacimiento aquifers covers an area over 20 miles wide, and depth decreases towards the margin of the San Juan Basin. The site in question is more centrally located, and depth to the aquifer is expected to be closer to 1000 feet. It is well known that groundwater close to the San Juan River can be shallow, as the Quaternary deposits near the river itself form shallow aquifers. The proposed site is situated 3,000 feet to the southwest of the San Juan River, and is approximately 50 feet higher in elevation (Google Earth).

Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. A map showing the location of wells in reference to the proposed pit location is also included. Pinpoints show locations of wells and the labels for each pinpoint indicate depth to groundwater in feet. Wells are clustered to the north of the proposed site along the San Juan River. Depth to groundwater within the nearby wells ranges from 6 feet to 186 feet below ground surface. The closest well to the proposed site is located approximately 1,000 feet to the southeast, and has a slightly higher topographic elevation than the proposed site (Google Earth). Depth to groundwater within the well is 50 feet below ground surface. Another well to the northeast is about 35 feet lower in elevation then the proposed site, and has a depth to groundwater of 4 feet.



ABRAMS J CDP #1 T29N, R10W, S29I San Juan county, NM



ABRAMS J CDP #1 T29N, R10W, S29I San Juan county, NM i-Waters Ground Water Data Map

New Mexico Office of the State Engineer POD Reports and Downloads

WATER COLUMN REPORT 10/20/2008

	(quarter	s are	1=	NW	2=	NE	3=SW 4=SE)	1							
	(quarter	B are	bi	gge	est	to	smallest)				Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng	Sec	q	q	q	Zone	X		Y	Well	Water	Column		
SJ 00867	29N	11W	07	4							77	55	22		
SJ 01302	29N	117	07	4	1						250	210	4.0		
SJ 01891	29N	LIW	07	4	1	3					157				
SJ 01851	29N	11W	10	4	4						125	4.8	77		
SJ 02466 S	29N	117	11	4	3	3					65				
SJ 02466	29N	11W	11	4	3	3					€€				
SJ 02991	29N	11W	13	3	4	2					€0				
SJ 03136	29N	1110	13	3	4	4					2.0				
SJ 00987	29N	11W	13	4							415	300	115		
SJ 01426	29N	11W	14	1	4						155	10	145		
SJ 00007	29N	111	14	2	2	3					752				
SJ 03550	29N	11W	14	3	2	Ť					10				
SJ 01774	29N	21W	14	3	4	2					82	6	76		
SJ 03360	29N	110	14	3	4	2					40				
SJ 03175	29N	11W	14	4	2	1					€0	24	36		
SJ 03164	2 9N	LIW	14	4	2	1					75	5€	19		
SJ 03733 POD1	2 9 N	11W	15	4	2	1					64	20	44		
SJ 02378	29N	11W	15	4	3	2					75	12	63		
SJ 03579	29N	11W	15	4	4	1					8:3	30	53		
SJ 02141	29N	1177	16	4	3	4					110	40	70		
SJ 02926	29N	11W	17	2	4	3					375	80	295		
SJ 03399	29N	11W	17	4	2						100				
SJ 00487	29N	11W	17	4	4						60	6	54		
SJ 02868	29N	117	17	4	4	4					50				
SJ 01641	291	11W	19	2	2	3					120	55	65		
SJ 02026	29N	11W	19	3	1		4400	000	207770	Ü	27	€	21		
SJ 02970	25N	11W	19	43	3	2					100	18	82		
SJ 01250	2 937	11W	19	4	4						€0	20	40		
SJ 02869	29N	11W	20	2	2	3					50				
SJ 00583	291	LIW	20	3	3	2					150	30	120		

SJ 01355	29N	1117	20	4	1	3€	3	33
SJ 00452	29N	llW	21			42	10	32
SJ 01969	29N	11W	21	2		65	55	10
SJ 00701 CLW312190	29N	11W	21	2 :	2	70	14	56
SJ 00701	29N	11W	21	2 :	1	73		
SJ 03350	29N	11W	21	2 :	3	50		
SJ 01090	29N	11W	21	2	1	31	12	19
SJ 02863	29N	11W		2 -	1 1	52	20	32
SJ 03659	29N	11W	21	3 :	2 2	45	10	35
SJ 01888	29N	11W		4	2 2	47	8	39
SJ 02200	29N	11W				60	22	38
SJ 01557	25N	11W			2	70	11	59
SJ 00796	29N	11W			2	50	8	42
SJ 00704	29N	TIM			2	55	20	35
SJ 01703	29N	11W			2	€ 8	3	65
SJ 03747 POD1	29N	11W			2 3	47	27	20
SJ 02813	29%	110	22	1 :	3	59	16	43
SJ 01214	29N	11W	22	1	3	49	12	37
SJ 00484	29N	11W	22	1	3 1	37	10	2.7
SJ 00320	29N	11W	22	1.	3 1	38	10	28
SJ 03532	29N	117		1 .	3 3	49	14	35
SJ 00151	29N	11W	22		3 4.	45	18	27
SJ 02721	29N	11W			á.		59	
SJ 03503	29N	llW			3 3	72	18	54
SJ 02578	29N	11W			3 3	59	24	34
SJ 03093	29N	11W			3 4	42	22	20
SJ 03189	29N	11W			2 1	45	20	25
SJ 03188	29N	11W			2 2	45	11	34
SJ 02020	29N	11W			3	27	€	21
SJ 02138	29N	11W			2	40	7	33
SJ 02529	29N	110			3	30	5	21
SJ 03479	29N	11W			2 3	43	4	39
SJ 03049	29N	liw			2 4	33	1.0	23
SJ 00696	291	110			3	34	12	22
SJ 01974	29N	11W			3 3	47	11	36
SJ 03567	29W	11W			2 3	\$0	22	28
SJ 03557	25N	11W			3 1	50	15	35
SJ 03558_	29N	11W			3 1	50	15	35
SJ 03559	29%	11W			3 4	45	15	30
SJ 00812	2937	11W	23	1	4	44		

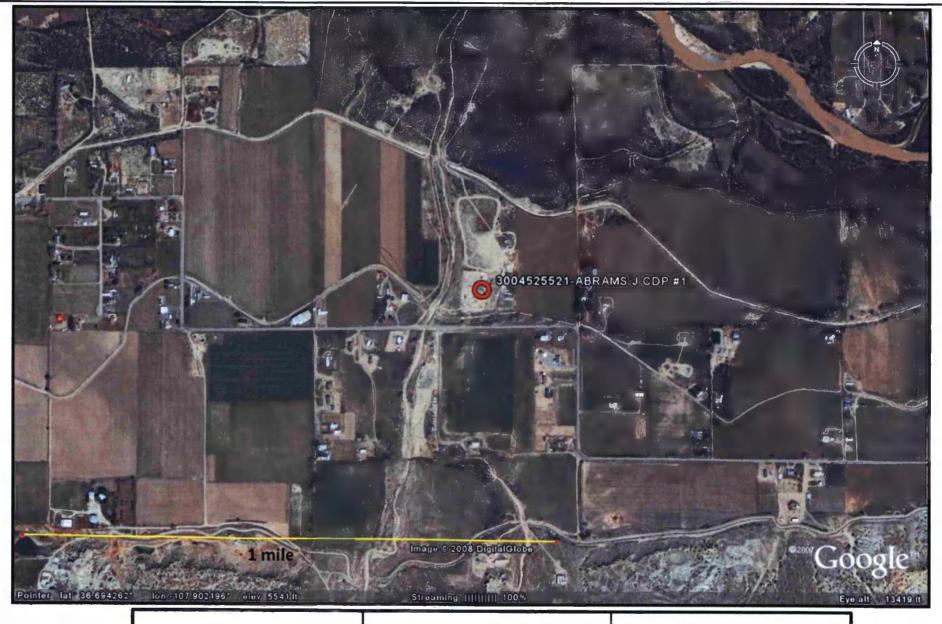
SJ 03546	29%	11W 23	1	4	2			50	15	35
SJ 03591	29N	11W 23	1	4	4			55	20	35
SJ 01870	2918	11W 23	2					58	30	28
SJ 03130	29N	11W 23	2	1	3			50	30	20
SJ 03201	29N	11W 23	2	1	3			€0	30	30
SJ 03353	29N	11W 23	2	1	3			45	25	20
SJ 01610	29N	11W 23	2	2				52	25	27
SJ 01573	29N	11W 23	2	3				41	21	20
SJ 03073	29N	11W 23	2	3	1			30		
SJ 03286	29N	11W 23	3	3	1			38	28	10
SJ 02799	29N	11W 23	4	1	1			3€	15	41
SJ 03548	29N	11W 23	4	1	1			3.0	15	35
SJ 01962	29N	110 24	1	2	2			45	12	33
SJ 03343	29N	11W 24	1	4	1			35	18	17
SJ 00804	29N	11W 25	1	4				37	25	12
SJ 01808 0-5	29N	11W 26	3	I	1			52	43	9
SJ 02121	29N	11W 27	1	1				30	6	24
SJ 02210	29N	117 27	1	1				3.2	8	24
SJ 03588	29N	11W 27	1	1	2					
SJ 02227	29N	119 27	1	1	4			27	€	21
SJ 00700	29N	11W 27	1	3	3			20	7	13
SJ 01808 0-4	29N	117 27	2	3	3			32	25	7
SJ 01808 0-1	29N	11W 27	2	4	2			25	17	8
SJ 01808 0-2	29%	11W 27	2	4	3			27	19	8
SJ 01808 0-3	2.9N	11W 27	2	4	4			3.9	34	5
SJ 02664	29N	11W 27	3	2				40	26	14
SJ 02664 S	29N	11W 27	3	2				38	23	15
SJ 02664 S-2	29N	11W 27	3	2				34	19	15
SJ 02664 S-3	29N	11W 27	3	2				4.1	30	11
SJ 02664 S-9	29N	11W 27	3	2				3.3	19	14
SJ 02664 S-4	29N	11W 27	3	-2				42	30	12
SJ 02664 S-10	29N	11W 27	3	2				33	15	14
SJ 02664 S-5	29%	11W 27	3	2				41	30	11
SJ 02664 S-6	29N	11W 27	3	2				40	28	12
SJ 02664 S-7	29%	110 27	3	2				37	23	14
SJ 02664 S-8	29N	11W 27	3	2				35	25	10
SJ 02148	2911	11W 27	4	2				30'5	186	119
SJ 01808 0-6	29%	11W 27	4	2	1			50		
SJ 03762 POD1	29N	11W 28	1	1		267348	2075529	27	15	12
SJ 03476	29N	11W 28	1	1	2			€5		

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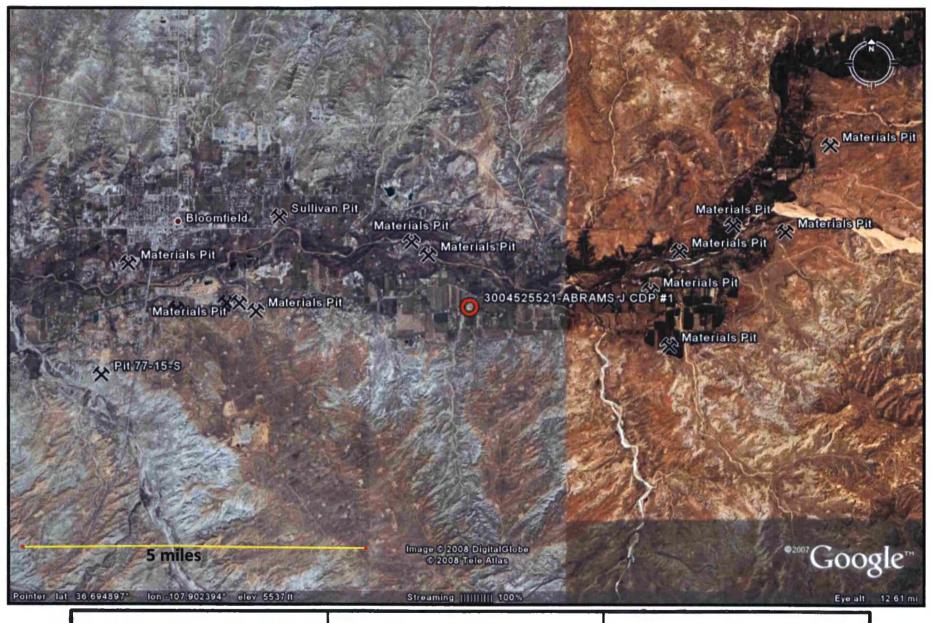
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SJ 03415	29N	11W 2	2.8	1 2	2 1				60	20	40	
SJ 02559	29N		28		2 4				15	7	8	
SJ 02330	29N	11W 2	28	2	L				128	115	13	
SJ 03021	29N	11W 2		2					16	5	11	
SJ 01606	29%	11W 2	8	2 2	2				35	a	27	
SJ 03468	29N	11W 2	28	2 .	4	367704	207	3506	50			
SJ 03469	29N	11W 2	28		4 3				50			
SJ 02713	29N	11W 2	2.8	3	1 1				2€	12	14	
SJ 02958	29N	11W 2	2.8	3 :	1 3				40			
SJ 02714	29N	11W 2	28	3 :	2				43	28	15	
SJ 02708	29N	11W 2	2.8	3 :	2				2 €	12	14	
SJ 03149	29N	110 2	2.6	4 3	2 2				€0	35	25	
SJ 03475	25N	110 2	29	1	1 3				40	2.0	20	
SJ 00292	29N	110 2	2.9	2	1 4				24	9	15	
SJ 01554	29N	21W 2	29	2 :	2				35	19	17	
SJ 02038	29N	11W 2	2.9	4	1				14	4	10	
SJ 03298	29N	11W 2	2.9	4	<u> </u>				70	€	€4	
SJ 02023	25N	11W 2	2.5	4 :	2				24	7	17	
SJ 02182	29N	11W 2	2.9	4 :	2				27	11	16	
SJ 00822	2 9 N	11W 2	2.5	4 :	3				34	15	19	
SJ 03421	29N	117/ 2	2.9	_	4 3				5.0	28	22	
SJ 01391	29N	11W 3	30	2					40	25	15	
SJ 03348	29N		30		1 3				€0			
SJ 01260	29N		30		2				42	16	26	
SJ 01264	29N		30		2				27	12	15	
SJ 01328	29N	11W 3			2				28	15	13	
SJ 01821	29N	11W 3		2 -	1				7.0	€	€4	
SJ 00875	25N		30	_	I				37	2.0	17	
SJ 02922	29N		31		2 2				75			
SJ 03795 POD1	29N		31		2 4	266438	206	7001	7.5	45	30	
SJ 03541	29N	11M 3			4 1				8.0	40	40	
SJ 00441	29N	11W 3		2 3	2							
SJ 00103	29N		32	4	4 4				2€3			
SJ 00103 S	29N	11W 3		4	1 4				254			
SJ 03666	29N	11M 3	33	2	1 3				49	30	19	

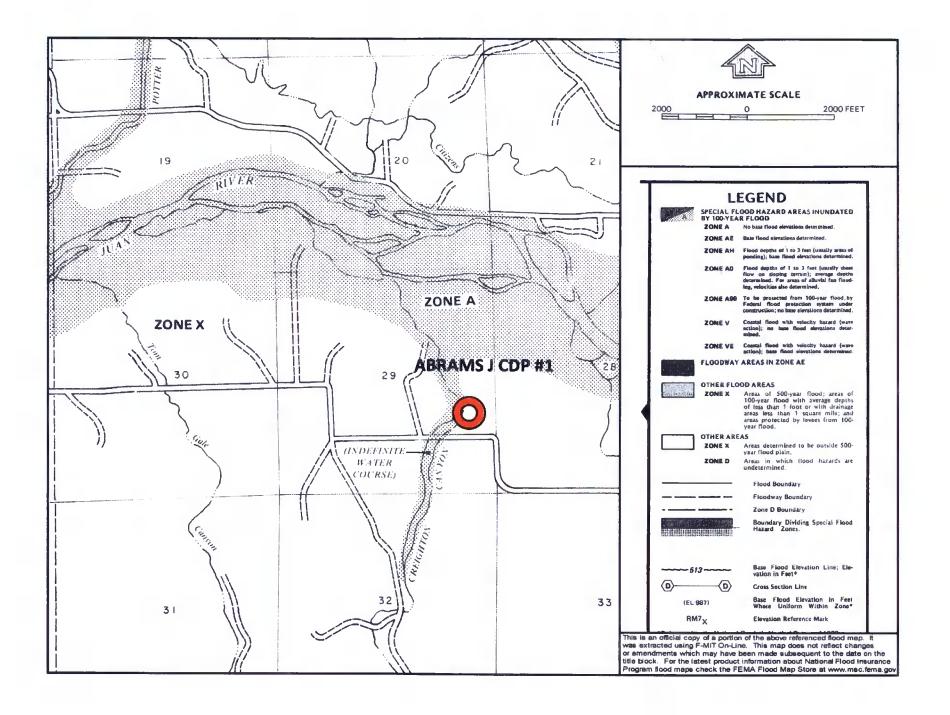


ABRAMS J CDP #1 T29N, R10W, S29I San Juan county, NM **AERIAL PHOTOGRAPH**



ABRAMS J CDP #1 T29N, R10W, S29I San Juan county, NM

Mines and Quarries Map



XTO Energy Inc. San Juan Basin (Northwest New Mexico) General Design and Construction Plan For Below-Grade Tanks

In accordance with Rule 19.15.17.11 NMAC the following information describes the design and construction of below-grade tanks on XTO Energy Inc. (XTO) locations. This is XTO's standard procedure for all below-grade tanks. A separate plan will be submitted for any below-grade tank which does not conform to this plan.

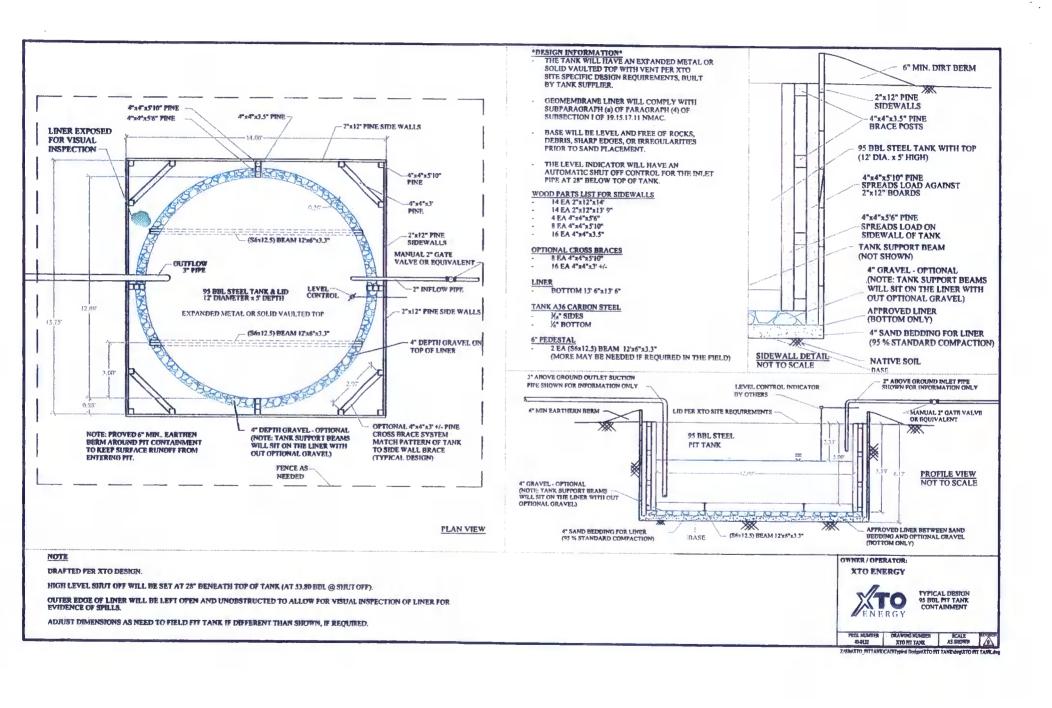
General Plan

- 1. XTO will design and construct below-grade tanks to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- 2. XTO will post a well sign, in compliance with 19.15.3.103 NMAC, on the existing well site operated by XTO where the existing below-grade tank is located. The sign will list the Operator on record as the operator, the location of the well site by unit letter, section, township, range, and emergency telephone numbers.
- 3. XTO is requesting approval of an alternative fencing to be used on below-grade tank locations. Below-grade tank locations will be fenced utilizing 48" steel mesh field-fence (hogwire) with pipe railing along the top. A 6' chain link fence will be utilized around the well pad if the well site is within a city limits or ½ mile of a permanent residence, school, hospital, institution or church. Below-grade tanks located within 1000' of a permanent residence, school, hospital, institution or church will be fenced by 6' chain link fence with at least two strands of barbed wire at the top. All gates associated with below-grade tanks will remain closed and locked when responsible individuals are not on site.
- 4. XTO shall construct below-grade tanks with an expanded metal covering or solid vaulted top on the top of the below-grade tank.
- 5. XTO will ensure that below-grade tanks are constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight. Tanks will be constructed of A36 carbon steel with 3/16" sides and ¼" bottom. (See attached drawing).
- 6. The below-grade tank system will have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom. Sand bedding (4") will be placed on top of a level foundation to ensure prevention of punctures, cracks or indentations of the liner or tank bottom.
- 7. XTO will construct a berm and/or diversion ditch in a manner that prevents the collection of surface water run-on. Below-grade tanks will be equipped with automatic high level shut-off devices as well as manually operated shut-off valves. (See attached drawing).
- 8. XTO will construct and use below-grade tanks that do not have double walls. The below-grade tank sidewalls will be open for visual inspection for leaks. The sidewalls of the cellar will be constructed with 2" X 12" pine sidewalls and 4" X 4" pine brace posts. The below-grade tank

XTO Energy Inc.
San Juan Basin (Northwest New Mexico)
General Design and Construction Plan
For Below-Grade Tanks
Page 2

bottom will be elevated a minimum of 6" above the underlying ground surface and the belowgrade tank will be underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected. (See attached drawing).

- 9. XTO will equip below-grade tanks designed in this manner with a properly functioning automatic high-level shut-off control device and manual controls to prevent overflows. (See attached drawing).
- 10. XTO will demonstrate to the OCD that the geomembrane liner complies with the specifications of Subparagraph (a) of Paragraph (4) of Subsection I of 19.15.17.11 NMAC and obtain approval from OCD prior to the installation of the design. The geomembrane liner shall have a hydraulic conductivity no greater than 1 x 10-9 cm/sec. The geomembrane liner shall be composed of an impervious, synthetic material that is resistant to petroleum hydrocarbons, salts and acidics and alkaline solutions. The liner material shall be resistant to ultraviolet light. Liner compatibility shall comply with EPA SW-846 method 9090A. (See attached drawing).
- 11. The general specifications for design and construction are attached.



XTO Energy Inc. San Juan Basin (Northwest New Mexico) General Maintenance and Operating Plan For Below-Grade Tanks

In accordance with Rule 19.15.17.12 NMAC the following information describes the operation and maintenance of below-grade tanks on XTO Energy Inc. (XTO) locations. This is XTO's standard procedure for all below-grade tanks. A separate plan will be submitted for any below-grade tank which does not conform to this plan.

General Plan

- 1. XTO will operate and maintain below-grade tanks to contain liquids and solids, maintain the integrity of the liner and secondary containment system, prevent contamination of fresh water and protect public health and the environment. Fluid levels will be monitored weekly and high levels will be removed as necessary. Monthly inspections will be conducted to monitor integrity of below-grade tank systems and below-grade tanks will be equipped with automatic high-level shut-off devices.
- 2. XTO will not allow below-grade tanks to overflow and will use berms and/or diversion ditch to prevent surface run on to enter the below-grade tank. Below-grade tanks will be equipped with automatic high-level shut-off control devices as well as manually operated shut-off valves. See attached drawing for vault design and placement of diversion berms and shut-off devices.
- 3. XTO will continuously remove any visible or measurable layer of oil from the fluid surface of below-grade tanks in order to prevent significant accumulation of oil.
 - 4. XTO will inspect the below-grade tank monthly and maintain written records for five years. Monthly inspections will consist of documenting the following: (see attached template),

Well Name
API #
Sec., Twn., Rng.
XTO Inspector's name
Inspection date and time
Visible tears in liner
Visible signs of tank overflow
Collection of surface run on
Visible layer of oil
Visible signs of tank leak
Estimated freeboard

- 5. XTO will maintain adequate freeboard to prevent over topping of the below-grade tank. High level shut-off devices control the freeboard at an average of 28" beneath the top of the tank.
- XTO will not discharge into or store any hazardous waste in any below-grade tank.
- 7. If a below-grade tank develops a leak, or if any penetration of a below-grade tank occurs below the liquids surface, XTO will remove all liquids above the damage or leak line within 48 hours,

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notify the appropriate division district office within 48 hours of the discovery and repair the damage or replace the below-grade tank. If an existing below-grade tank does not meet current requirements of Paragraphs 1-4 of Subsection I of 19.15.17.11 NMAC the tank will be modified or retrofitted to comply. If compliance can not be achieved XTO will implement the approved closure plan.

		MONT	HLY BELO	W GRADE TANK	INSPECTIO	N FORM		
Well Nan	ne:				API No.:			
Legals	Sec:		Township:		Range:			
XTO Inspector's Name	Inspection Date	Inspection Time	Any visible liner tears (Y/N)	Any visible signs of	Collection of surface	Visible layer	Any visible signs	Freeboard
Name	Date	Time	lears (Y/N)	tank overflows (Y/N)	run on (Y/N)	of oil (Y/N)	of a tank leak (Y/N)	Est. (ft)
							(
Notes:	Provide De	tailed Descri	ption:					
								
Misc:								

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

General Plan

- XTO will close below-grade tanks within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the division requires because of imminent danger to fresh water, public health or the environment
- 2. XTO will close a below-grade tank that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years after June 16, 2008, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC.
- 3. XTO will close a permitted below-grade tank within 60 days of cessation of the below-grade tank's operation or as required by the transitional provisions of Subsection B of 19.15.17.17 NMAC in accordance with a closure plan that the appropriate division district office approves. The closure report will be filed on form C-144.
- 4. XTO will remove liquids and sludge from below-grade tanks prior to implementing a closure method and will dispose of the liquids and sludge in a division-approved facility. Approved facilities and waste streams include:

Envirotech Permit No. NM01-0011 and IEI Permit No. NM 01-0010B Soil contaminated by exempt petroleum hydrocarbons Produced sand, pit sludge and contaminated bottoms from storage of exempt wastes

Basin Disposal Permit No. NM01-005 Produced water

- 5. XTO will remove the below-grade tank and dispose of it in a division approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office has approved prior to removal. Any associated liners will be removed, properly cleaned and disposed of per 19.15.9.712 NMAC at San Juan County Landfill. Documentation of the final disposition will be included in the closure report.
- 6. XTO will remove any on-site equipment associated with a below-grade tank unless the equipment is required for some other purpose.
- 7. XTO will test the soils beneath the below-grade tank to determine whether a release has occurred. At a minimum 5 point composite sample 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

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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 0.2 mg/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 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. XTO will notify the division of its results on form C-141.

- 8. If XTO or the division determines that a release has occurred, XTO will comply with 19.15.3.116 NMAC and 19.15.1.19NMAC as appropriate.
- 9. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, XTO will backfill the excavation with compacted, non-waste containing, earthen material; construct a division prescribed soil cover; recontour and re-vegetate the site.
- 10. Notice of Closure operations will be given to the Aztec Division District III office between 72 hours and one week prior to the start of closure activities via email or verbally. The notification will include the following:
 - i. Operator's name
 - ii. Well Name and API Number
 - iii. Location by Unit Letter, Section, Township, and Range

The surface owner shall also be notified prior to the implementation of any closure operations of below-grade tanks as per the approved closure plan using certified mail, return receipt requested.

- 11. Re-contouring of location will match fit, shape, line, form and texture of the surrounding area. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be placed 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.
- 12. A minimum of 4 feet of cover shall be achieved and the cover shall include 1 foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater. Soil cover will be constructed to the site's existing grade and ponding of water and erosion of the cover material will be prevented with drainage control, natural drainages and silt traps where needed.
- 13. XTO will seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM or Forest Service stipulated seed mixes will be used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) 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. Repeat seeding or planting will be continued until successful vegetative growth occurs.

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- 14. All closure activities will include proper documentation and be available for review upon request and will be submitted in closure report form to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on form C-144 and incorporate the following:
 - i. Proof of closure notice to division and surface owner;
 - ii. Details on capping and covering, where applicable;
 - iii. Inspection reports;
 - iv. Confirmation sampling analytical results;
 - v. Disposal facility name(s) and permit number(s);
 - vi. Soil backfilling and cover installation;
 - vii. Re-vegetation application rates and seeding techniques, (or approved alternative to re-vegetation requirements if applicable);
 - viii. Photo documentation of the site reclamation.

