District I

1625 N French Dr , Hobbs, NM 88240

District II

1301 W Grand Ave , Artesia, NM 88210

District III

1000 Rio Brazos Rd , 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

July 21, 2008 For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office

Form C-144

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	
PO Box 4289, Farmington, NM 87499 Facility or well name: Johnston A 13N	
Facility or well name: Johnston A 13N API Number: 30-039-30389 OCD Permit Number: U/L or Qtr/Qtr: A(NENE) Section: 36 Township: 27N Range: 6W County: Rio Arriba Center of Proposed Design: Latitude: 36.53495' N Longitude: 107.41288' W NAD: 1927 X 1983 Surface Owner: Federal X State Private Tribal Trust or Indian Allotment	
X Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: X Drilling Workover Permanent Emergency Cavitation P&A X Lined Unlined Liner type: Thickness 20 mil X LLDPE HDPE PVC Other X String-Reinforced Liner Seams: X Welded X Factory Other Volume: 4400 bbl Dimensions 65' x W 45' x D 10'	
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	20,1374
Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: bbl Type of fluid: Tank Construction material. Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other Liner Type: Thickness mil HDPE PVC Other	1151677
5 Alternative Method:	

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

Fencing: Subsection D of 19.15.17 11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet X Alternate. Please specify 4' hogwire fence with a single strand of barbed wire on top. 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 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers X 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 of the Santa Fe Environmental Bureau office for consideration of approval.	deration of ap;	proval.					
10							
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	XNo					
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	XNo					
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo					
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	□NA	1					
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image							
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits)	Yes XNA	No					
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		_					
Within 500 horizonal 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.	Yes	X No					
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.							
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	X No					
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes	XNo					
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes	XNo					
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	Yes	XNo					
Society; Topographic map Within a 100-year floodplain - FEMA map	Yes	XNo					

Form C-144 Oil Conservation Division Page 2 of 5

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
X Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
X Design Plan - based upon the appropriate requirements of 19 15.17.11 NMAC
X Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
X 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 or Permit
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
Previously Approved Operating and Maintenance Plan API
13
Permanent Pits Permit Application Checklist: Subsection B of 19 15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
Hydrogeologic Report - based upon the requirements of Paragraph (I) 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 19.13.17.11 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 15.17.11 NMAC
Nuisance or Hazardous Odors, including H2S, 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
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type: X 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)
X On-site Closure Method (only for temporary pits and closed-loop systems)
X In-place Burial On-site Trench
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
15
Waste Excavation and Removal Closure Plan Checklist: (19.15.17 13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.
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 I of 19 15.17.13 NMAC
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17 13 NMAC

Гогт C-144

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel		realist on						
Instructions: Please identify the facility or facilities for the disposal of liquids, drilling for are required.	uias ana ariii cuitings. Ose anachmeni y more man two ji	icitities						
Disposal Facility Name	Disposal Facility Permit #-	 						
	Disposal Facility Permit #:							
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 No								
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specification - based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsect Site Reclamation Plan - based upon the appropriate requirements of Subsect	ion I of 19.15.17.13 NMAC	C						
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMAC Instructions. Each string criteria requires a demonstration of compliance in the closure plan Recertain string criteria may require administrative approval from the appropriate district office of for consideration of approval. Justifications and/or demonstrations of equivalency are required	may be considered an exception which must be submitted to the							
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 obtain	ned from nearby wells	Yes X No						
Ground water is between 50 and 100 feet below the bottom of the buried waste		Yes X No						
- NM Office of the State Engineer - tWATERS database search; USGS; Data obtain	ed from nearby wells	□N/A						
Ground water is more than 100 feet below the bottom of the buried waste.		X Yes No						
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtain	ed from nearby wells	□N/A						
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significa (measured from the ordinary high-water mark)	nt watercourse or lakebed, sinkhole, or playa lake	Yes X No						
- Topographic map; Visual inspection (certification) of the proposed site								
Within 300 feet from a permanent residence, school, hospital, institution, or church in ex Visual inspection (certification) of the proposed site; Aerial photo, satellite image	ustence at the time of initial application.	Yes X No						
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than purposes, or within 1000 horizontal fee of any other fresh water well or spring, in exister - NM Office of the State Engineer - iWATERS database; Visual inspection (certifica Within incorporated municipal boundaries or within a defined municipal fresh water well or spring that less than purpose the state of the sta	nce at the time of the initial application. tion) of the proposed site							
pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality, Written approval obtai		Yes XNo						
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map; Topographic map, Visual inspec		Yes X No						
Within the area overlying a subsurface mine.		Yes X No						
- Written confiramtion or verification or map from the NM EMNRD-Mining and Mi	neral Division							
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Min Topographic map	eral Resources; USGS; NM Geological Society;	Yes X No						
Within a 100-year floodplain FEMA map		Yes X No						
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of by a check mark in the box, that the documents are attached.	f the following items must bee attached to the closur	e plan. Please indicate,						
X Siting Criteria Compliance Demonstrations - based upon the appropriate	requirements of 19.15.17 10 NMAC							
X Proof of Surface Owner Notice - based upon the appropriate requirement	s 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		9.15.17.11 NMAC						
X Protocols and Procedures - based upon the appropriate requirements of 19	•							
Confirmation Sampling Plan (if applicable) - based upon the appropriate i	•							
X Waste Material Sampling Plan - based upon the appropriate requirements X Disposal Facility Name and Parmit Number (for liquids drilling fluids on		anot he achieved)						
 Disposal Facility Name and Permit Number (for liquids, drilling fluids an Soil Cover Design - based upon the appropriate requirements of Subsection 		mot de achieved)						
X Re-vegetation Plan - based upon the appropriate requirements of Subsecti X Site Reclamation Plan - based upon the appropriate requirements of Subsection X Site Reclamation Plan - based upon the appropriate requirements of Subsection X Site Reclamation Plan - based upon the appropriate requirements of Subsection X Site Reclamation Plan - based upon the appropriate requirements of Subsection X Site Reclamation Plan - based upon the appropriate requirements of Subsection X Site Reclamation Plan - based upon the appropriate requirements of Subsection X Site Reclamation Plan - based upon the appropriate requirements of Subsection X Site Reclamation Plan - based upon the appropriate requirements of Subsection X Site Reclamation Plan - based upon the appropriate requirements of Subsection X Site Reclamation Plan - based upon the appropriate requirements of Subsection X Site Reclamation	on I of 19.15.17.13 NMAC							

19	,			,
Operator Application				
l ' '	iformation submitted with this application is tru		•	
Name (Print)	Crystal Tafoya	Title.	Regulatory Technician	
Signature:	Constal Talo	<u>12 Date.</u>	10/3/08	
e-mail address.	crystal tafoya@conocophillips com	Telephone:	505/326-9837	
20				
OCD Approval:	Permit Application (including closure plan		OCD Conditions (see attachment))
OCD Representative S	Signature: Branchon	Nouvell.	Approval Date: //-	4-08
	siro/spec			7 0 0
Title:	siro/spec	OCD Perm	it Number:	
21 Cl. D				
	ired within 60 days of closure completion re required to obtain an approved closure plan			ort The closure
	abmitted to the division within 60 days of the co		**	
approved closure plan ha.	s been obtained and the closure activities have	been completed.		
		Closure	Completion Date:	
22 Closure Method:	•			•
Waste Excavation	and Removal On-site Closure Met	thod Alternative Closure	Method Waste Removal (Closed-loc	on systems only)
			Waste Removal (Closed-loc	op ayatema omy)
II different from a	approved plan, please explain.			
23				
	ng Waste Removal Closure For Closed-loop			
Instructions: Please ident were utilized.	tify the facility or facilities for where the liqui	as, aruting fluids and drill cutting	igs were disposed. Use attachment if more	e than two facilities
Disposal Facility Nam	e:	Disposal Facility	Permit Number	
Disposal Facility Nam		Disposal Facility		
•	system operations and associated activities perf			
·	e demonstrate compliane to the items below)	No	The special sp	
	areas which will not be used for future service	and operations:		
	(Photo Documentation)			
Soil Backfilling a	nd Cover Installation			
Re-vegetation Ap	plication Rates and Seeding Technique			
24				
	tachment Checklist: Instructions: Each of	the following items must be atta	ched to the closure report. Please indicate	, by a check mark in
the box, that the docu	ments are attached.		-	
	Notice (surface owner and division)			,
	otice (required for on-site closure)			
	-site closures and temporary pits)			
Confirmation Sa	impling Analytical Results (if applicable)			
Waste Material S	Sampling Analytical Results (if applicable)			
Disposal Facility	Name and Permit Number			
Soil Backfilling	and Cover Installation			
Re-vegetation A	pplication Rates and Seeding Technique			
Site Reclamation	(Photo Documentation)			
On-site Closure	Location: Latitude:	Longitude:	NAD	1983
25				
Operator Closure Cer	tification:			
	iformation and attachments submitted with this	closure report is ture, accurate	und complete to the best of my knowledge a	nd belief. I also certify that
	all applicable closure requirements and condu			
Name (Print)		Title:		
rame (rimi)		THE.		
Signature [.]		Date:		
e-mail address:		Telephone:		

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 27	N Range: 06W	Sections:		-
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	Clear Form [įWAŢĘŖŞ M	enu Help	

WATER COLUMN REPORT 10/02/2008

(quarters are 1=NW 2=NE 3=SW 4=SE)

	(quarter	s are	e bi	gge	est	t t	o smallest)			Depth	Depth	Wat∈
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SJ 02403	27N	06W	30	3	1	3				505	300	20
SJ 00213	27N	06W	32	1	4	4				1308	485	82
SJ 00062	27N	06W	32	3	3	3				452	7301	15
SJ 00061)	27N	06W	32	3	3	3				445	(301)	14

Record Count: 5

New Mexico Office of the State Engineer POD Reports and Downloads

1 02 Reports and Downloads								
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New Mexico Office of the State Engineer POD Reports and Downloads

	F						
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County:	Basin:		E.	Number	::	Suffix	::
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New Mexico Office of the State Engineer POD Reports and Downloads

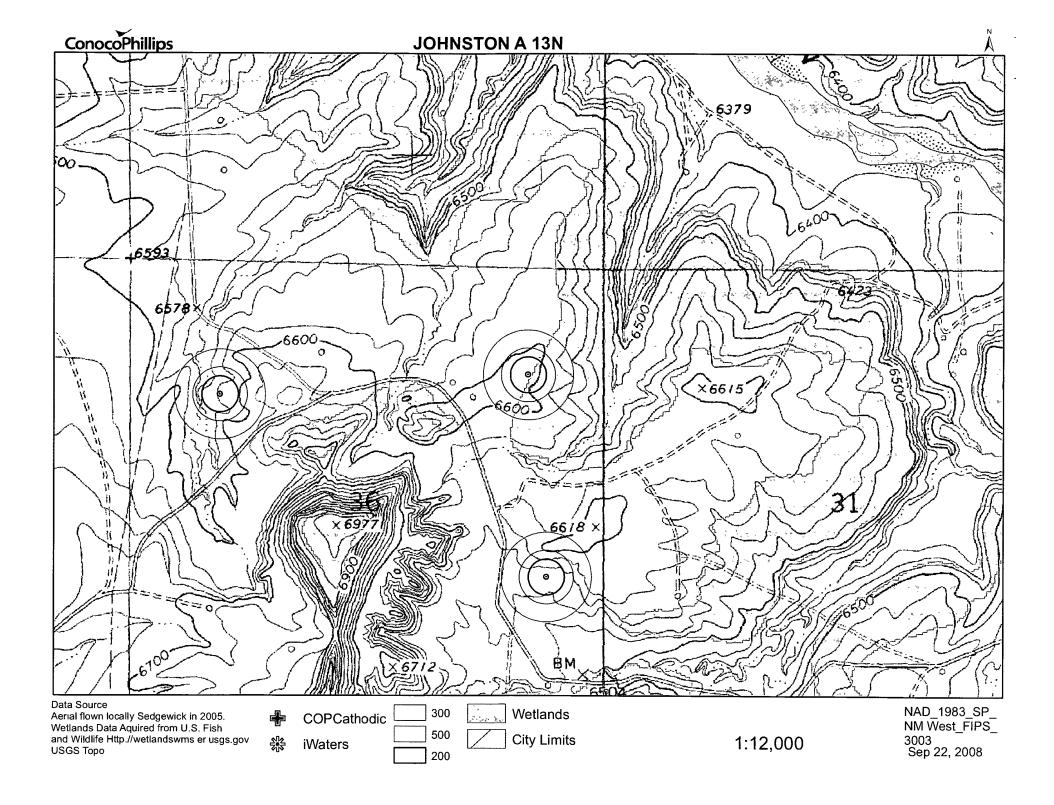
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NAD27 X:	Y: Zone:	Search Radius:	
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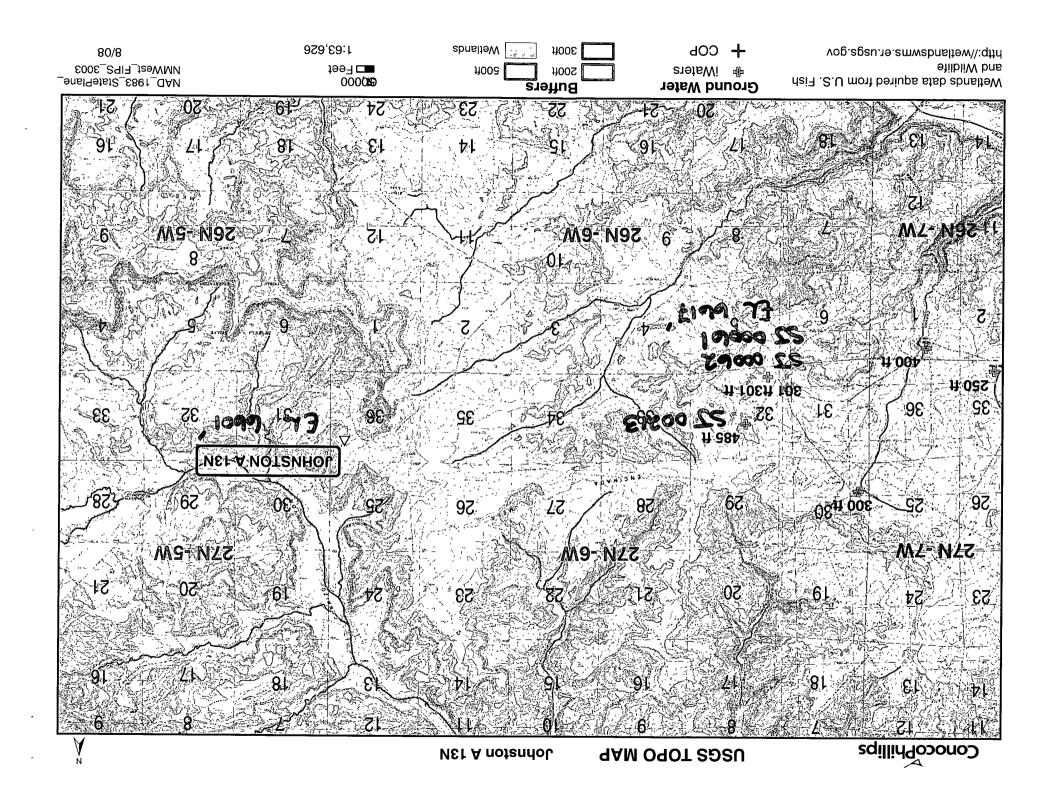
WATER COLUMN REPORT 10/02/2008

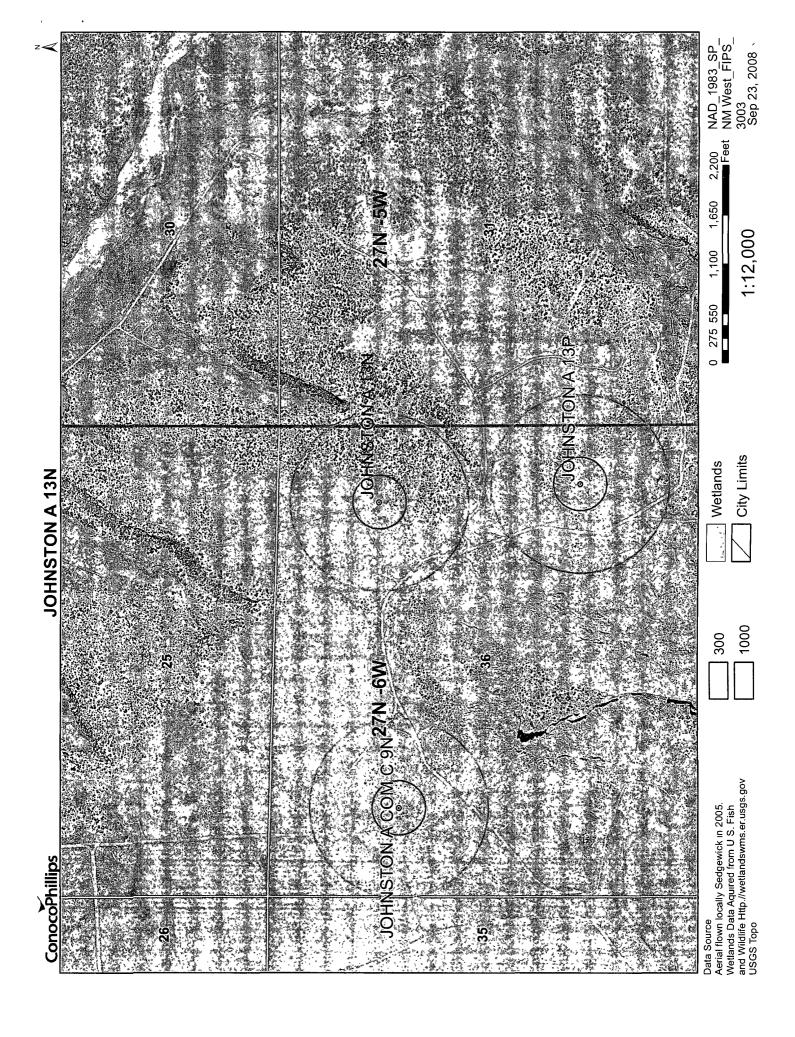
(quarters are 1=NW 2=NE 3=SW 4=SE)

	(quarte:	rs ar	e bi	gge	est	t to	smalles	t)		Depth	Depth	Wat∈
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SJ 00199	27N	05W	03	2	1					1840		
SJ 00046	27N	05W	04	4	4					506	260	24

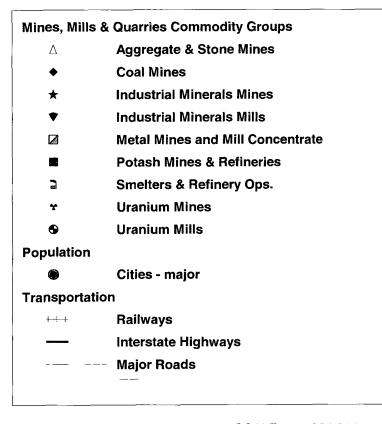
Record Count: 3

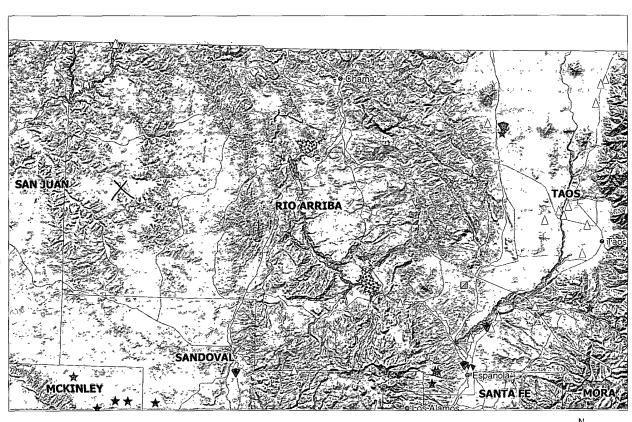






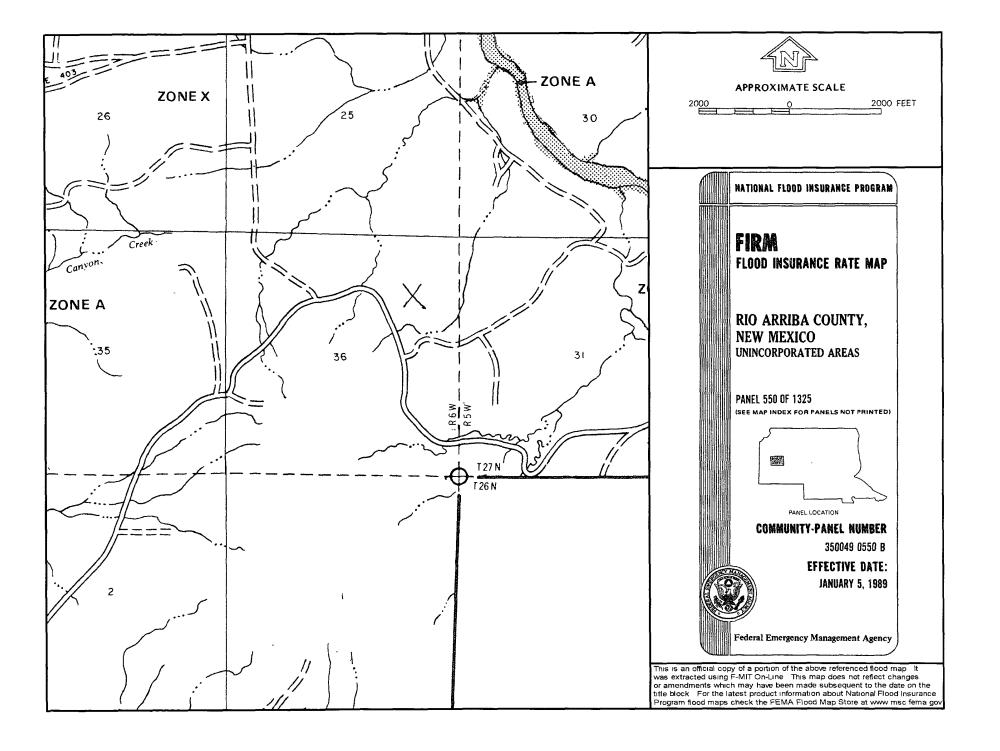
Johnston A 13N Mines, Mills and Quarries Web Map











Hydrogeological report for Johnston A 13N

Regional Hydrogeological context:

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.

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.

Siting Criteria Compliance Demonstration & Hydro Geologic Analysis

The Johnston A 13N is not located in an unstable area. The location is not over a mine and is not on the side of a hill as indicated on the Mines, Mills and Quarries Map and Topographic Map. The location of the excavated pit material will not be located within 300' of any continuously flowing watercourse or 200' from any other watercourse as indicated on the Topographic Map. The location is not within a 100-year floodplain area as indicated on the FEMA Map. The subject well has an elevation of 6601'. The iWATERS data points are located 32 and are SJ00213, SJ00062, and SJ00061 with depths of 485' and 301' as indicated on the TOPO Map. The iWATERS data provided the indication of groundwater depth is greater than 100'. 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, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 * Revised October 12, 2005

DISTRICT II 1301 W. Grand Avenue, Artesia, N.M. 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410 OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

☐ AMENDED REPORT

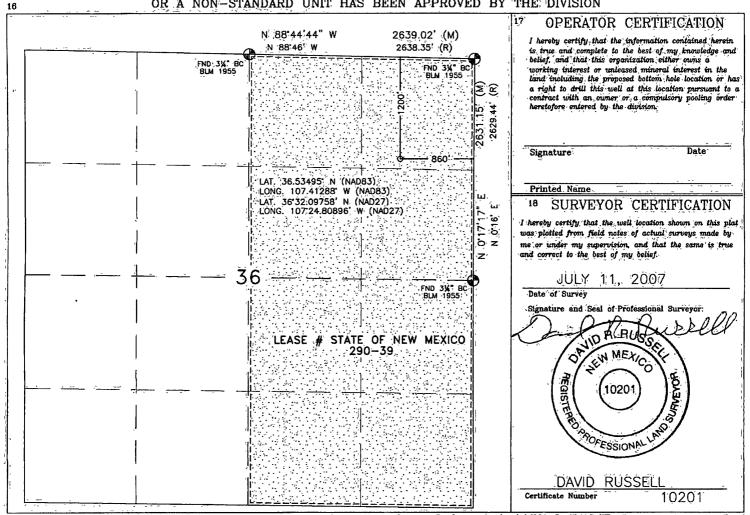
DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	⁸ Pool Code	Pool Name BASIN DAKOTA/BLANCO MESAVERDE
Property Code A747737 A747322	⁶ Property Name JOHNSTON A	* Wéll Number 1/3N
OGRID No.	*Operator Name BURLINGTON RESOURCES OIL AND GAS.	*Elevation 6601'

¹⁰ Surface Location North/South line UL or lot no. Township Lot Idn Feet from the Feet from the East/West line Section. Range County NORTH 6W 1200 860 EAST RIO ARRIBA 36 27N ¹¹Bottom Hole Location If Different From Surface North/South line UL or lot no. Section Township Lot Idn Feet from the Feet from the East/West line Range County 12 Dedicated Acres ¹⁵ Joint or Infill 14 Consolidation Code 15 Order No. 320.00 Acres - (E/2)

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



Burlington Resources Oil & Gas Company, LP San Juan Basin Closure Plan

In accordance with Rule 19.15.17.12 NMAC the following information describes the closure requirements of temporary pits on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR'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
- Copy of Deed Notice will be filed with County Clerk

General Plan:

- 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 facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011).
- 2. The preferred method of closure for all temporary pits will be on-site burial, assuming that all the criteria listed in sub-section (B) of 19.15.17.13 are met.
- 3. The surface owner shall be notified of BR's closing of the temporary pit prior to closure as per the approved closure plan via certified mail, return receipt requested.
- 4. Within 6 months of the Rig Off status occurring BR will ensure that temporary pits are closed, re-contoured, and reseeded.
- 5. 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:
 - i. 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 "mud level" after stabilization. Removal of liner will consist of manually or mechanically cutting liner at mud level and removing all remaining liner. 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 the San Juan County Landfill located on CR 3100.
- 7. Pit contents shall be mixed with non-waste containing, earthen material in order to achieve the solidification process. The solidification 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 is deemed a safe and stable. 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). In the event that the criteria are not met, all contents will be handled per Subparagraph (a) of Paragraph (1) of Subsection B of 19.15.17.13 i.e., Dig and haul.

Components	Tests Method	Limit (mg/Kg)	
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	PA SW-846 8015M 500	
Chlorides	EPA 300.1	(1000/500	

- 9. Upon completion of solidification 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. If standard testing fails BR will dig and haul all contents pursuant to 19.15.17.13.i.a. After doing such, confirmation sampling will be conducted to ensure a release has not occurred.
- 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 the Envirotech Land Farm located 16 miles south of Bloomfield on Angel Peak Road, CR 7175. Permit # NM010011
- 12. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Reshaping will include drainage control, prevent ponding, 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. BR shall 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 stipulated seed mixes will 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.

Туре	Variety or Cultivator	PLS/A
Western wheatgrass	Arriba	3.0
Indian ricegrass	Paloma or Rimrock	3.0
Slender wheatgrass	San Luis	2.0
Crested wheatgrass	Hy-crest	3.0
Bottlebrush Squirreltail	Unknown	2.0
Four-wing Saltbrush	Delar	.25

Species shall be planted in pounds of pure live seed per acre: Present Pure Live Seed (PLS) = Purity X Germination/100

Two lots of seed can be compared on the basis of PLS as follows:

Source No. One (poor quality)

Purity

50 percent

Germination

40 percent

Percent PLS

20 percent

Percent PLS

20 percent

Percent PLS

50 percent

Percent PLS

50 percent

Percent PLS

50 percent

5 lb. bulk seed required to make 2 lb. bulk seed required to make

1 lb. PLS 1 lb. PLS

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 a welded steel 12" square plate that indicates the onsite burial of the temporary pit. The plate will be easily 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 an onsite burial location.