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

Alternative Method:

State of New Mexico **Energy Minerals and Natural Resources** Department Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-144 July 21, 2008

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

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District-Office.

Pit, Closed-Loop System, Below-Grade 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-grad	le 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 supervironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authors.	irface water, ground water or the									
Operator: WPX Energy Production, LLC OGRID #:	120782									
Address: PO Box 640 / 721 S Main Aztec, NM 87410	· · · · · · · · · · · · · · · · · · ·									
Facility or well name: Rosa Unit 215A										
API Number:30-039-27422 OCD Permit Number:										
U/L or Qtr/Qtr <u>E</u> Section <u>26</u> Township <u>31N</u> Range <u>6W</u> County:	Rio Arriba									
Center of Proposed Design: Latitude 36.87064N Longitude -107.43726W	NAD: □1927 ⊠ 1983									
Surface Owner: X Federal X State Trivate Tribal Trust or Indian Allotment										
2.										
Pit: Subsection F or G of 19.15.17.11 NMAC	ROVD HAY 1'12									
Temporary: ☑ Drilling ☐ Workover	OIL COMS. DIV.									
Permanent Emergency Cavitation P&A	DIST.3									
☐ Lined ☐ Unlined Liner type: Thickness <u>20</u> mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other										
String-Reinforced										
Liner Seams: Welded Factory □ Other Volume: 20,000 bbl Dimensions: Get from	n Plats L <u>140'</u> x W <u>70'</u> x D <u>12'</u>									
Closed-loop System: Subsection H of 19.15.17.11 NMAC	1.6									
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require pricintent)	or approval of a permit or notice of									
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other										
☐ Lined ☐ Unlined Liner type: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other										
Liner Seams: Welded Factory Other										
4.										
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-of	f									
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other										
Liner type: Thicknessmil										
	· · · · · · · · · · · · · · · · · · ·									

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)	hospital,
Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify As per BLM specifications	
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)	_
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	
9. Administrative Approvals and Exceptions:	
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.	
Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau of the Santa Fe En	office for
consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of 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.	priate district pproval.
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ⊠ No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☑ No ☐ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits)	☐ Yes ☐ No 図 NA
- 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	
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 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: or Permit Number:
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the 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:
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 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 H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection 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 I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

16. Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or	Haul-off Bins Only: (19 15.17.13 D NMAC)	
Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and		
facilities are required.	D. Take I	
	y Permit Number:	-
	y Permit Number:	_
Will any of the proposed closed-loop system operations and associated activities occur on or in area Yes (If yes, please provide the information below) No	s that will not be used for future service and operations	:?
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.	NMAC	
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. R provided below. Requests regarding changes to certain siting criteria may require administrative considered an exception which must be submitted to the Santa Fe Environmental Bureau office is demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	approval from the appropriate district office or may l	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	☐ 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	
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from	nearby wells Yes No	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant waterco lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	urse or lakebed, sinkhole, or playa	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at t - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	he time of initial application.	
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five house watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existen NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of	ce at the time of initial application.	
Within incorporated municipal boundaries or within a defined municipal fresh water well field cover adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from		
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (cer	rtification) of the proposed site	
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Di	vision	
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Res Society; Topographic map	ources; USGS; NM Geological ☐ Yes ☒ No	
Within a 100-year floodplain FEMA map	☐ Yes 🛭 No	
 18. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following item by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19. Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate require Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon 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 Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.1 	15.17.10 NMAC F19.15.17.13 NMAC ements of 19.15.17.11 NMAC the appropriate requirements of 19.15.17.11 NMAC essection F of 19.15.17.13 NMAC 19.15.17.13 NMAC the case on-site closure standards cannot be achieved) 6 NMAC NMAC	te,

Operator Application Certification:	
I hereby certify that the information submitted with this application is true, ac	ecurate and complete to the best of my knowledge and belief.
Name (Director)	The second secon
Name (Print): Ben Mitchell	
Signature: K	Date: <u> </u>
e-mail address:ben.mitchell@wpxenergy.com	Telephone: <u>505-333-1806</u>
20. OCD Approval: ☐ Permit Application (including closure plap). ☐ Closure	ra Plan (anh.)
OCD Representative Signature:	Approval Date: 5/09/2012
Title: Compliance Office O	OCD Permit Number:
21.	
Closure Report (required within 60 days of closure completion): Subsect Instructions: Operators are required to obtain an approved closure plan pri	
The closure report is required to be submitted to the division within 60 days	
section of the form until an approved closure plan has been obtained and th	
	Closure Completion Date:
22.	
Closure Method:	
Waste Excavation and Removal On-Site Closure Method Alt If different from approved plan, please explain.	ernative Closure Method Waste Removal (Closed-loop systems only)
23. Closure Report Regarding Waste Removal Closure For Closed-loop Syste	ems That Utilize Aboye Ground Steel Tanks or Haul-off Bins Only:
	drilling fluids and drill cuttings were disposed. Use attachment if more than
two facilities were utilized.	
Disposal Facility Name:	
Disposal Facility Name:	
Were the closed-loop system operations and associated activities performed of Yes (If yes, please demonstrate compliance to the items below) No	
Required for impacted areas which will not be used for future service and ope	rations
☐ Site Reclamation (Photo Documentation) ☐ Soil Backfilling and Cover Installation	
Re-vegetation Application Rates and Seeding Technique	
24.	
Closure Report Attachment Checklist: Instructions: Each of the followin mark in the box, that the documents are attached.	g items must be attached 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 on-site closu	re)
Disposal Facility Name and Permit Number	
☐ Soil Backfilling and Cover Installation ☐ Re-vegetation Application Rates and Seeding Technique	
Site Reclamation (Photo Documentation)	
	ngitude NAD:
25.	
Operator Closure Certification:	and any one for the control of the c
I hereby certify that the information and attachments submitted with this closu- belief. I also certify that the closure complies with all applicable closure requ	ire report is true, accurate and complete to the best of my knowledge and irements and conditions specified in the approved closure plan.
Name (Print):	Title:
Signature:	Date:
e-mail address:	Telephone:

District I
1625 N. French Drive, Hobbs, NM 88240
Phone: (575) 393-5161 Fax. (575) 393-0720 District II
811 S First Street. Artesia. NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec. NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Drive, Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 1, 2011

Submit one copy to Appropriate District Office

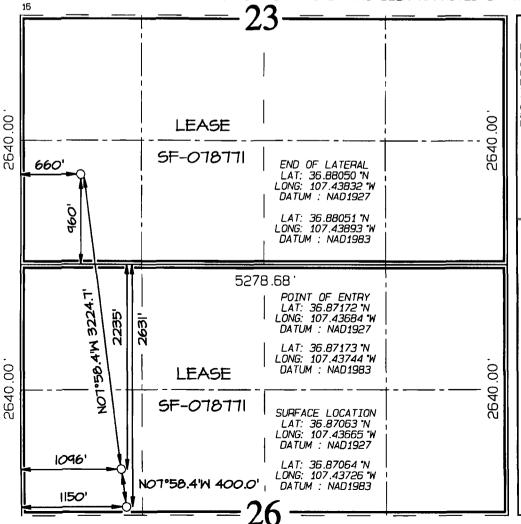
OIL CONSERVATION DIVISION 1220 South St. Francis Drive Santa Fe, NM 87505

AMENDED	REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1A	PI Numbe	r		*Pool 0		³Pool Name BASIN FRUITLAND (041		
	 -			7 102								
Property Code Property Name					Name			*We	ll Number			
17033	3				ROSA (UNIT			ć	215A		
OGRID 1	lo.				*Operator	· Name			•E:	levation		
12078	2			WF	PX ENERGY	PRODUCTION			1	6428 ⁻		
¹⁰ Surface Location												
UL or lot no	Sect ion	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West lin	æ	County		
E	26	31N	6W		2631	NORTH	1150	WEST		RIO ARRIBA		
			¹¹ Bottor	n Hole	Location I	f Different F	rom Surfac	е				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West lar	ve	County		
M	23	31N	6W		960	SOUTH	660 WEST ARRIB					
640.0 Acres N/2 - Section 23 N/2 - Section 26					13 Joint or Infill	³⁴ Consolidation Code	¹⁵ Onder No.					

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

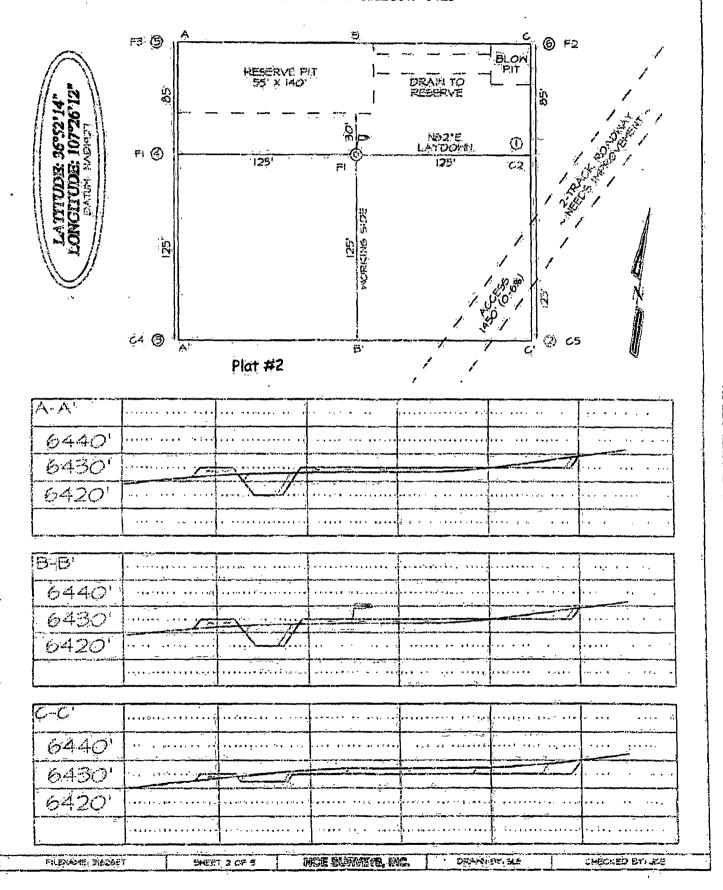


I hereby certify herein is true ar knowledge and bel either owns a woo mineral interest proposed bottom-t to drill this wel to a contract will or working intereagreement or a co	R CERTIFICATION that the information contained and complete to the best of my lief, and that this organization aking interest or unleased in the land including the nole location or has a right at this location pursuant the an owner of such a mineral set, or to a voluntary pooling impulsory pooling order d by the division.
Signature	Date
Printed Name	
E-mail Address	
	R CERTIFICATION
I hereby certifishown on this protess of actual my supervision, and correct to Date Revidence of Sul Signature and S	y that the well location plat was plotted from field surveys made by me or under and that the same is true the best of my belief. Used: APRIL 6, 2012 rvey: MARCH 12, 2003 seal of Professional Surveyor
/	N C. EDW
\kS	IN C. EDWARDS
/ 3/3	EM (5)01
(=((15269) #
열	[3]
(%)	
1.40	APOFESS TOWN
	TOFESSIVE .
T	C E
UASON	U. EDWARDS

Certificate Number

15269

WILLIAMS PRODUCTION COMPANY ROS JINIT #215A 2630' FND 1150' FWL, SECTION 26, T31N, R6W, NMPM RIO ARRIBA COUNTY, NEW MEXICO GROUND BLEVATION: 6429'



Company: Williams Production Co.

Location: Sec. 20 T31N R6W

Ground Bed Depth: 500'
Indicate Water Zone Depth: 200'

Isolation Plugs Set: NO

Power Source: Battery

Well: Rosa Unit 8A

State: NM

Diameter: 6 3/4"

Coke Type: Metallurgical

Anode Type: Silicon Iron

If So Where:

Volts: 8.04

Amps: 8.2

Resistance: .980

Date: 11-6-95

Depth	Drilling Log		Anodes Log		Remarks
Ft		Logged	Coked	Depth	
20'	Casing				8" PVC SCH 40
20'-50'	Shale				
50'-70'	Sand Stone				
70'-80'	Shale				
80'-120'	Sand Stone				
120'-160'	Sand Shale				
160'-190'	Shale				
190'-280'	Sand Stone				
280'-300'	Shale				
300'	66	1.8	1.9	300'	
310'	66	1.8	2.4	310'	
320'	46	1.8	2.6	320'	
330°	66	1.7	2.4	330'	
340°	66	1.8	2.6	340'	
350 °	66	1.7	2.4	350'	
360'	Sandy Shale	1.2			
370'	66	1.0			
380'	44	0.9			
390'	Shale	1.5	2.1	390'	
400'	66	1.3			
410'	46	1.3			
420'	46	1.6	2.2	420'	
430'	"	1.3			
440'	Sandy Shale	1.2			
450'	Shale	1.4	2.1	450'	
460'	66	1.6	1.9	460'	
470'	66	1.3			
480'	Sandy Shale	1.1			
490'	"	1.0			
500'	44	1.1			

Williams Production Company, LLC Rosa Unit 215A

Regional Hydrological Context

Referenced Well Location:

The referenced well and pit is located on Bureau of Land Management land within Farmington Field Office (FFO) jurisdiction in Rio Arriba County, New Mexico. This site is positioned in the northeastern portion of the San Juan Basin, an asymmetrical syncline that extends from northwestern New Mexico into southwestern Colorado (Carson National Forest FEIS, 2008). Elevation of the referenced well is approximately 6,429 feet MSL.

General Regional Groundwater Description:

As a portion of the San Juan Basin, the FFO region is underlain by sandstone aquifers of the Colorado Plateau. The primary aquifer of potential concern at this location is the Uinta-Animas Aquifer, composed primarily of Lower Tertiary rocks in the San Juan Basin. The aquifer consists of the San Jose Formation; the underlying Animas formation and its lateral equivalent, the Nacimiento formation; and the Ojo Alamo Sandstone. The thickness of the Uinta-Animas aquifer generally increases toward the central part of the basin. In this region, the maximum thickness of the aquifer is approximately 3500 feet (USGS, 2001). This aquifer contains fresh to moderately saline water.

Groundwater generally flows toward the San Juan River and its tributaries, where it becomes alluvial groundwater or is discharged to stream flow. Additional information regarding the hydrogeologic setting can be found in the provided references.

Site Specific Information:

Surface Hydrology: The pit is located on a mesa top. Draining to the north for

San Jose, Tertiary

approximately .44 mile into an unnamed ephemeral wash, which flows for approximately 1.33 miles into and arm of Laguna

Seca.

1st Water Bearing Formation:

Formation Thickness: Approximately 1,900 ft. Underlying Formation: Nacimiento, Tertiary

Depth to Groundwater: Depth to groundwater is estimated at greater than 100 feet below

bottom of pit liner. Within a one-mile radius of this location, there were no iWATERS wells with recorded water depth information. However, cathodic data associated with the Rosa Unit No. 8A (approximately 1,610 feet from pit), show depth to

moisture 200 feet (see Siting Criteria Map I for details).

References:

Allen, Erin. Undated. Colorado Plateau Aquifers.

http://academic.emporia.edu/schulmem/hydro/TERM%20PROJECTS/2007/Allen/Aquifer.html.

New Mexico Energy, Minerals and Natural Resources Department, Division of Mining and Minerals. Database. 2010. Internet accessed January 2010.

New Mexico Office of the State Engineer. 2011. iWaters database. Internet accessed June 2011.

New Mexico WQCC. 2005. State of New Mexico Water Quality Act and the Water Control Commission Regulations.

United States Department of Agriculture, Forest Service. 2008. Final Environmental Impact Statement for Surface Management of Gas Leasing and Development. Jicarilla Ranger District, Carson National Forest, Rio Arriba County, New Mexico.

United States Department of the Interior. Bureau of Land Management. 2003. Final Farmington Resource Management Plan and Final Environmental Impact Statement. Farmington Field Office, Farmington, New Mexico.

United States Geological Survey. 2001. Ground Water Atlas of the United States: Arizona, Colorado, New Mexico and Utah. USGS Publication HA 730-C; http://capp.water.usgs.gov



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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

QQQ

Depth Depth Water

POD Number

basin Use County 6416 4 Sec Tws Rng

Y Well WaterColumn

SJ 00011

32 31N 06W

278321 4081811*

460 310

610

150

SJ 03685 POD1

DOM SJ 4 2 1 07 31N 06W

276814 4088772*

Average Depth to Water: 310 feet

Minimum Depth:

310 feet

Maximum Depth: 310 feet

Record Count: 2

PLSS Search:

Township: 31N

Range: 06W

Sub

*UTM location was derived from PLSS - see Help

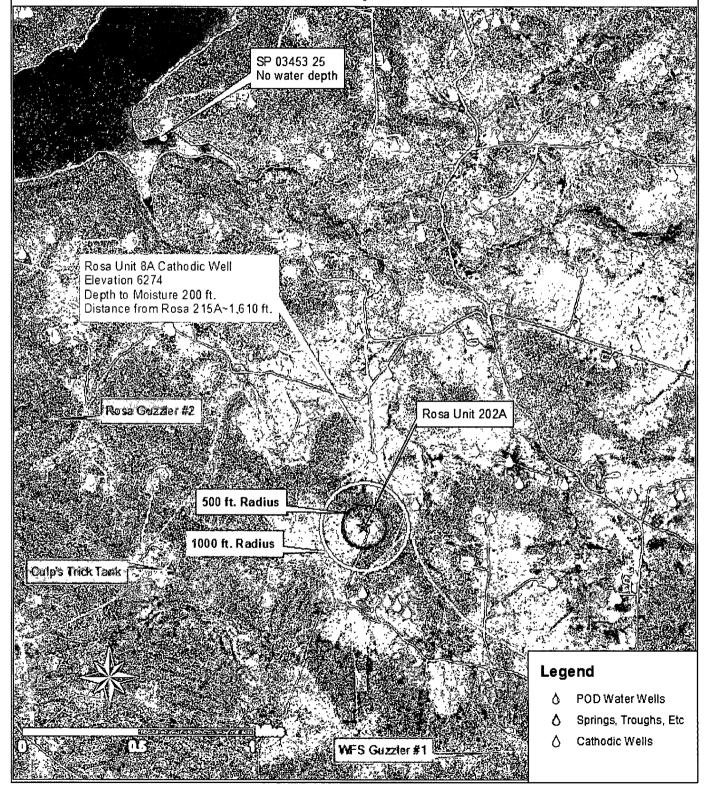
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability or suitability for any particular purpose of the data.

7/27/10 10:20 AM

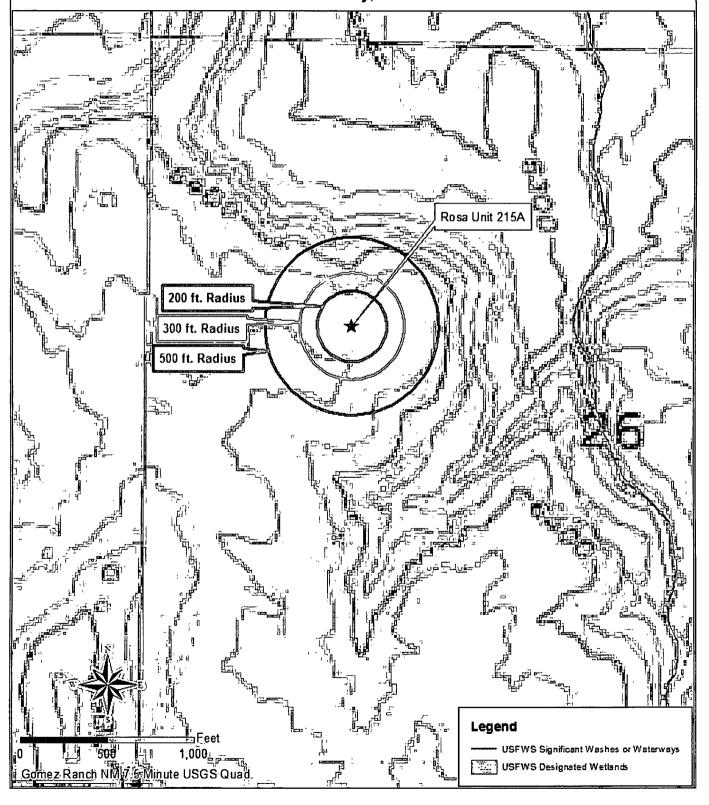
Page 1 of 1

WATER COLUMN/ AVERAGE **DEPTH TO WATER**

Siting Criteria Map I Water Wells, Cathodic Wells, & Springs WPX Energy Production, LLC Rosa Unit 215A T31N, R06W, Section 26 NMPM Rio Arriba County, New Mexico



Siting Criteria Map II Topographic Features WPX Energy Production, LLC Rosa Unit 215A T31N, R06W, Section 26 NMPM Rio Arriba County, New Mexico

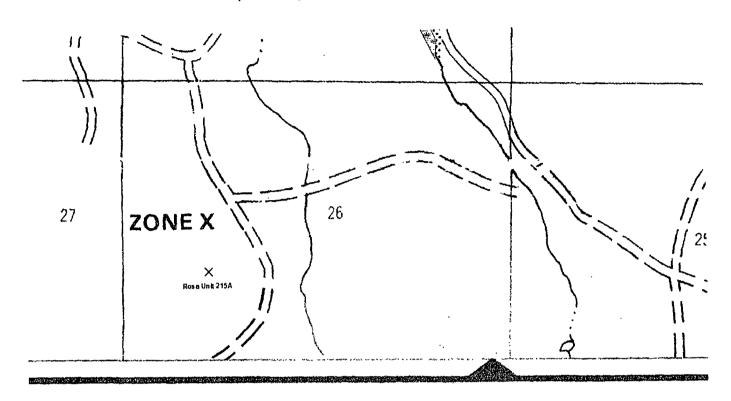


FEMA Map – 100-Year Floodplain:

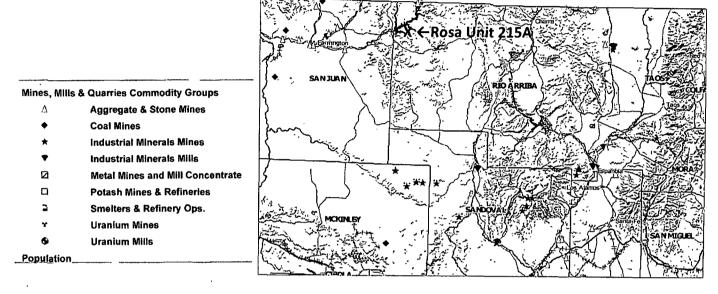
According to FEMA records, this site is not located in a 100-year floodplain (see attached FEMA map).

<u>Siting Criteria Compliance Demonstrations:</u>
The Rosa Unit 215A well is not located in an unstable area. The location is not situated over a mine or a steep slope. Excavated pit material will not be located within 300 feet of a continuously flowing water course or within 200 feet of any other significant water course, lakebed, sinkhole, or playa lake (see Siting Criteria Map II). The site is not within 500 feet of any reported riparian areas or wetlands (see attached USFWS wetland map); within 500 feet of any private, domestic fresh water well or spring; or within 1000 feet of any other fresh water well or spring (see Siting Criteria Map I). The pit will not be within any incorporated municipal boundaries or defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. The location of the proposed pit is not within 300 feet of any permanent residence, school, hospital, institution, or church.

FEMA Map: Township 31 North, Range 6 West, Section 26, Unit E



MMQonline Public Version



SCALE 1: 2,203,053

20 0 20 40 60

MILES



Williams Production Co., LLC San Juan Basin: New Mexico Assets

Temporary Pit Design and Construction Plan Drilling/Completion and Workover

In accordance with Rule 19.15.17 NMAC, the following plan describes the general design and construction (D&C) of temporary pits on Williams Production Co, LLC (WPX) locations in the San Juan Basin of New Mexico. This is WPX's standard procedure for all temporary pits to be utilized for the drilling, completion and/or workover of oil and gas wells operated by WPX. For those temporary pits which do not conform to this standard plan, a separate well specific D&C plan will be developed and utilized.

General Plan Requirements:

- 1. WPX will design and construct a temporary pit to contain liquids and solids associated with drilling, completion and workover of oil and gas wells which will prevent contamination of fresh water resources and protect public health and the environment.
- 2. Prior to excavation of the pit, topsoil will be stripped and stockpiled within the construction zone for later use during restoration.
- 3. WPX will post a well sign, not less than 12" by 24", on the well site prior to construction of the temporary pit. This sign will list the operator on record, the location of the well site by unit letter/section/township/range, and emergency telephone number(s).
- 4. WPX shall construct all new fences utilizing 48" steel mesh field-fence (hogwire) on the bottom with a single strand of barbed wire on top. T-posts will be installed every 12 feet and corners shall be anchored utilizing a secondary T-post or similar bracing. Temporary pits will be fenced at all times excluding drilling/completion and/or workover operations when the rig is present on site, at which time the "front" side of the fence will be temporarily removed for operational purposes.
- 5. WPX shall construction the temporary pit so that the foundation and interior slopes are firm and free of rocks, debris, sharp edges or irregularities to meet manufacturers' specifications and potential liner failure.
- 6. WPX shall construct the pit so that the slopes are no steeper than two horizontal to one vertical. Where steeper slopes are required due to surface owner and right-a-way restriction, an engineer's certification of stability will be provided with the well pit application.
- 7. Pit well will be walked down by a crawler type tractor following construction and prior to liner installation.
- 8. All temporary pits will be lined with a 20-mil, string reinforced, LLDPE liner, complying with EPA SW-846 method 9090A requirements.
- 9. Geotextile will be installed beneath the liner when rocks, debris, sharp objects or irregularities cannot be avoided.
- 10. All liners will be anchored in the bottom of a compacted earth-filled trench consistent with manufacturer's specifications and at least 18 inches deep.
- 11. WPX will minimize liner seams and orient them up and down, not across slope faces. Factory seams will be used whenever possible. Field seams will be overlapped per manufacturers' specifications. WPX will minimize the number of field seams in corners and irregularly shaped areas.
- 12. The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides (secondary liner placed over the primary liner), and/or a manifold system.
- 13. The pit shall be protected from run-on by construction of diversion ditches around the location or around the perimeter of the pit in as necessary.
- 14. The volume of the pit shall not exceed 10 acre-feet, including freeboard
- 15. Temporary blow pits will be constructed to allow gravity flow to discharge into the lined reserve pit.
- 16. Only the upper portion of the blow pit will be unlined as allowed in the Rule 19.15.17.11.F(11) NMAC.
- 17. WPX will modify this design if field and/or operating conditions do not effectively allow drainage of the blow pit and freestanding liquids pose a potential concern.

Page 16 of 20 Rosa Unit 215A

Williams Production Co., LLC San Juan Basin: New Mexico Assets

Temporary Pit Maintenance & Operating Plan Drilling/Completion and Workover

In accordance with Rule 19.15.17 NMAC, the following plan describes the general operations and maintenance (O&M)of temporary pits on Williams Production Co, LLC (WPX) locations in the San Juan Basin of New Mexico. This is WPX's standard procedure for all temporary pits to be utilized for the drilling, completion and/or workover of oil and gas wells operated by WPX. For those temporary pits which do not conform to this standard O&M plan, a separate well specific O&M plan will be developed and utilized.

General Plan Requirements:

- 1. WPX will operate and maintain a temporary pit to contain liquids and solids associated with drilling, completion and workover of oil and gas wells which will prevent contamination of fresh water resources and protect public health and the environment.
- 2. WPX will to the extent practical conserve drilling fluids for reuse by transferring liquids to pits ahead of the rigs. All other fluids will be disposed by evaporation or transport to Basin Disposal, Inc in Bloomfield, New Mexico (Permit # NM-01-005).
- WPX shall maintain at least two (2) feet of vertical freeboard for a temporary pit.
- 4. WPX shall remove all free liquids from a temporary pit within 30 days from the date the drilling or workover rig is released.
- 5. Only fluids and solids generated during the drilling/completion/workover process may be discharged into a temporary pit. Other miscellaneous soild waste or debris will not be allowed.
- 6. WPX will not discharge or store any hazardous waste as defined under RCRA 40CFR 261 and 19.15.1.7.W(3) NMA in any temporary pit.
- 7. If any pit liner's integrity is compromised, or if any penetration of the liner occurs:
 - a. Above the liquid's surface, WPX shall repair the damage or replace the liner as necessary. WPX will notify the NMOCD Aztec District Office by phone or email within 48-hours of discovery.
 - b. Leak below the liquid's surface, WPX shall suspend operations, remove all liquids above the damaged liner within 48 hours, and repair the damage or replace the liner. WPX will notify and report to NMOCD as follows:
 - i. If the release is less than 25 bbls, the Aztec District Office by phone or email within 48-hours of discovery and repair.
 - ii. If the release is suspected to be greater than 25 bbls, the Aztec District Office and the Environmental Bureau Chief by phone for immediate verbal notification pursuant to 19.15.3.116.B (1)(d).
 - Written Spill/Release reports will be submitted on Form C-141 per 19.15.3.116.C
 NMAC within 15 days to the Aztec District Office.
- 8. The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides (secondary liner placed over the primary liner), and/or a manifold system.
- 9. Diversion ditches, around the location or around the perimeter of the pit, shall be maintained as protection from run-on.
- 10. WPX shall immediately remove any visible layer of oil from the surface of a temporary pit following cessation of drilling/completion/workover operations. Oil absorbent booms will be utilized to contain and remove oil. An oil absorbent boom will stored on-site until the pit is covered.
- 11. WPX will inspect the temporary pits as follows to ensure compliance with this plan:
 - a. Daily during drilling or workover operations. Inspections will be included with the IADC reports.
 - b. Weekly as long as liquids remain in the pit. Electronic copies of the inspections will be kept at the WPX San Juan Basin office.
 - c. Copies of the inspections will be filed with the NMOCD Aztec District office upon pit closure.



Williams Production Co., LLC San Juan Basin: New Mexico Assets

Temporary Pit In-place Closure Plan Drilling/Completion and Workover (Groundwater >100 feet below bottom of pit liner)

In accordance with Rule 19.15.17.13 NMAC, the following plan describes the general in-place closure requirements of temporary pits on Williams Production Co, LLC (WPX) locations in the San Juan Basin of New Mexico. This is WPX's standard procedure for all temporary pits to be utilized for the drilling, completion and/or workovers of oil and gas wells operated by WPX. For those temporary pits which do not conform to this standard closure plan, a separate well/pit-specific closure plan will be developed and utilized.

All closure activities will include proper documentation and will be submitted to OCD within 60 days of the pit closure on a Closure Report using Division Form C-144. The Report will include the following:

- Details on Capping and Covering, where applicable
- Plot Plan (Pit Diagram)
- Inspection reports
- Sampling Results
- Division Form C-105: WELL COMPLETION OR RECOMPLETION REPORT AND LOG
- Copy of Deed Notice filed with the County Clerk (formatted to meet county requirements)

General Plan Requirements:

- 1. All free-standing liquids will be removed from the pit at the start of the closure process. Liquids will be removed in a manner that the appropriate District Office approves including: recycled, reused, reclaimed, evaporated, and/or disposed of in a Division-approved facility. Once all free liquids are removed, the sludge will be stabilized by one of the following methods depending on equipment availability: blending with clean stockpiled soils or dewatering using a Bowl Decanter Centrifuge, then blending with clean stockpiles soils.
- 2. The preferred method of closure for all temporary pits will be on-site closure by in-place burial, provided all the criteria in 19.15.17.13.B are met.
- 3. The surface owner shall be notified of WPX's proposed closure plan using a means that provides proof of notice (i.e. certified mail/return receipt requested).
- 4. Within six months of the "rig-off" status occurring, WPX will ensure that the temporary pit is covered and recontoured, and that reseeding is in progress.
- 5. Notice of Closure will be given to the Aztec District office between 72 hours and one week of the scheduled closure via email or phone. The notification of closure will include the following:
 - a. Operator's Name (WPX)
 - b. Well Name and API Number
 - c. Location (USTR)
- 6. The pit liner shall be removed above "mud level" after stabilization. Removal of the liner will consist of manually or mechanically cutting the liner at the mud level and removing all remaining liner. Care will be taken to remove "all" of the liner (i.e. anchored material). All excessive liner will be disposed of at a licensed disposal facility (probably San Juan Regional Landfill, operated by Waste Management under NMED Permit SWM-052426).

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Rosa Unit 215A

7. A five-point composite sample will be taken of the pit using sampling tools; all samples will be tested per 19.15.17.13(B)(1)(b) NMAC. In the event that the criteria are not met (See Table 1), all contents will be handled per 19.15.17.13(B)(1)(a) (i.e. dig and haul to a Division-approved facility). Approval to haul will be requested of the Aztec District office prior to initiation.

Table 1: Closure Criteria for Temporary Pits in Non-sensitive Areas

Components	Testing Methods	Closure Limits (mg/Kg)
Benzene	EPA SW-846 Method 8021B or 8260B	0.2
BTEX	EPA SW-846 Method 8021B or 8260B	50
TPH	EPA SW-846 Method 8015 M(Full Range)*	2500
	or Method 418.1	
GRO/DRO	EPA SW-846 Method 8015M (GRO/DRO)	500
Chlorides	EPA SW-846 Method 300.1	1000

^{*} Preferred method

- 8. Upon completion of solidification and testing, the pit area will be backfilled with non-waste, earthen material compacted to native conditions to enable effective revegetation for successful evapotranspiration. A minimum of four feet of cover will be used, including replacement of one foot of suitable material to establish vegetation, or the background thickness of topsoil, whichever is greater.
- 9. Following cover, the site will be recontoured to meet the Surface Management Agency or surface owner requirements. Re-contouring will attempt to match fit, shape, line form, and texture of the surrounding geography. Re-shaping will provide drainage control, prevent ponding, and minimize erosion. Natural drainages will be unimpeded and stormwater Best Management Practices (BMPs) will be used to aid in soil stabilization and protect surface water quality.
- 10. Notification will be sent to the Aztec District office when the reclaimed area is seeded.
- 11. WPX shall seed the disturbed areas the first growing season after the pit is covered. Seeding will be accomplished via drilling on the contour whenever practical, or by other Division-approved methods. 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. Cover will be maintained through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs. Note: WPX assumes the seeding stipulations, including mix and seeding methods, specified by the Surface Management Agency (BLM, BOR, USFS, Tribal, etc.) or Landowner as part of a surface use agreement or APD are Division-approved methods unless notified by the Division of their unacceptability.
- 12. Upon the abandonment of all wells on the pad, 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 on-site burial. 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 on-site 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 operations information at the time of all wells on the pad abandoned. The information will include Operator Name, Lease Name, Well Name and number, USTR, and an indicator that the marker is an onsite pit burial location.



WELL TYPE GROUNDBED DATA

		DATA 5H	EET NO				m 11		
	4/ 2	_							OFZ.
	NY NORTHWEST					-504	DATE:	10-23	-85
	ROSA # 994		PIPE	LINEL					
LOCAT	IONI SEC. 26 TWP.	3/N ROE. 6	W co. R!	O ARR	IBA	SYAT	B. MA	4	w
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	IDBEDI DEPTH 500								
						т	,		
ОБРТИ,	DRILLER'S	1.00	EXPLO	DRING A	NODE	COKE	WITH COKE		'H TOP NODES
PT.	FIRST WATER		10 3	NOC 10K	R	R	R	NO.	FT.
200	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			0,8	'''	+	к	10.	† - F1
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10		***		0.9					
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\$5				0.9	· · · · · · · · · · · · · · · · · · ·	1			
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15				1,0		1.2		8	315
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30				0.5					
35 40				0.3					
45				0.2					
50				0,3					
53				0.7					
60				0.6					
65				0.5					
70 75	1			0.5	······				
73				0.5					
80 85				0.5					
90				9.6	***********	· · · · · · · · · · · · · · · · · · ·			
90 95				0,6					
400				0.8					,
- 5				0.7					7.0
10				1.0		1.4			410

GROUNDSED RESISTANCE: (1) VOLTS ____ + AMPS ___ - CHME



WELL TYPE GROUNDBED DATA

		DATA SHEE	T NO.						_
								ZOF	
	MY NWPL						DATE:	10-2	3 <i>-85</i>
	ROSA HAGY		PIPE	ELINE:_					
LOCATI	ION: SEC. 26 TWP. 31	N ROE. 6 K	_ co	210 AA	ere i B	4 STAT	e W	<u> </u>	
ELEV.	PT: ROTARY_	500 FT:	CABLE	TOOL	0	FT	: CAS	NG .	Ó F
	IDBEDI DEPTH 500 PT.								
			т			- 4	·		
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45				1.0		<u> </u>			
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55				0,7					
60				0.6					
65				0.7		 			
70 75		***************************************		0.9		1.0		_3	470
80				1.0		2,0		2	480
85				1.4		1 6-10			TOO
90			 -	1.4		1.8		/	490
95				1.2					
500				42					
						 			
				 		 			
						 			
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GROUNDSED RESISTANCE: (1) VOLTS _____ + AMPS_

(2) VIBROGROUND _____ OHMS

Company: Williams Production Co.

Location: Sec. 20 T31N R6W

Ground Bed Depth: 500'

Indicate Water Zone Depth: 200'

Isolation Plugs Set: NO

Power Source: Battery

Well: Rosa Unit 8A

State: NM

Diameter: 6 3/4"

Date: 11-6-95 Coke Type: Metallurgical

Anode Type: Silicon Iron

If So Where:

Volts: 8.04

Amps: 8.2

Resistance: .980

Depth	Drilling Log		nodes Log		Remarks
Ft		Logged	Coked	Depth	
20'	Casing				8" PVC SCH 40
20'-50'	Shale				
50'-70'	Sand Stone				
70'-80'	Shale				
80'-120'	Sand Stone				
120'-160'	Sand Shale				
160'-190'	Shale				
190'-280'	Sand Stone				
280'-300'	Shale				
300'	66	1.8	1.9	300'	
310'	66	1.8	2.4	310'	
320'	44	1.8	2.6	320'	
330'	66	1.7	2.4	330'	
340'	66	1.8	2.6	340'	
350°	44	1.7	2.4	350'	
360'	Sandy Shale	1.2			
370'	"	1.0			
380'	66	0.9			
390'	Shale	1.5	2.1	390'	
400'	66	1.3			
410'	"	1.3			
420'	"	1.6	2.2	420'	
430'	46	1.3			
440'	Sandy Shale	1.2			
450'	Shale	1.4	2.1	450'	
460'	"	1.6	1.9	460'	
470'	"	1.3			
480'	Sandy Shale	1.1			
490'	66	1.0			
500'	cc	1.1			

Company: Williams Production Co. Well: Rosa Unit 8B Date: 6-25-02 Location: Sec. 26 T31N R6W Duel Well: State: NM

Ground Bed Depth: 500' Diameter: 6 3/4"

Indicate Water Zone Depth: 80'

Isolation Plugs Set: NO If So Where:

Coke: Type: Loresco SWS Total Weight: lbs. 2000

Anodes: Type: Silicon Iron Type D Weight: 45 lbs.
Power Source: Battery Volts: 10 Amps: 9 Resistance: .900

Depth Ft	Drilling Log	Logged	Anodes Log Coked	Donth	Remarks
0'-20'	Casing	Logged	Coked	Depth	8" PVC SCH 40
20'-110'	Sand Stone				
110'-200'	Sandy Shale				
200'-300'	Shale				
300'	"	1.0	2.9	300'	#10
310'	"	2.0	4.0	310'	#9
320'	"	1.6	3.4	320'	#8
330'	"	1.3	3.2	330'	#7
340'	"	1.7	3.5	340'	#6
350'	"	1.2	3.1	350'	#5
360'	"	1.6	3.4	360'	#4
370'	"	1.3	3.2	370'	#3
380'	Sandy Shale	0.8	2.8	380'	#2
390'	"	0.8	2.8	390'	#1
400'	44	0.3			

Company: Williams Production Co. Well: Rosa Unit 8C Date: 11/7/02 Location: Sec. 26 T31N R6W Duel Well: State: NM

Ground Bed Depth: 500' Diameter: 6 3/4"

Indicate Water Zone Depth: 200'

Isolation Plugs Set: NO If So Where:

Coke: Type: Loresco SWS Total Weight: 2200 lbs. Anodes: Type: Silicon Iron Type D Weight: 45 lbs.

Power Source: Battery Volts: 9.9 Amps: 9.3 Resistance: 1.06

Depth	Drilling Log		anodes Log		Remarks
Ft 0'-20'	Casing	Logged	Coked	Depth	8" PVC SCH 40
20'-90'	Shale				
90'-210'	Sand Stone				,
210'-280'	Sandy Shale				
280'-300'	Shale				
300'	46	2.0	4.0	300'	#12
310'	46	2.1	4.3	310'	#11
320'	"	1.7	3.5	320'	#10
330'	"	1.6	3.3	330'	#9
340'	"	1.6	3.3	340'	#8
350'	"	1.8	3.6	350'	<i>#</i> 7
360'	16	1.5	3.1	360'	#6
370'	"	1.3	2.6	370'	#5
380'	· · ·	1.3	2.6	380'	#4
390'	"	1.2	2.4	390'	#3
400°	"	1.4	2.9	400'	#2
410'	"	1.1	2.3	410'	#1
420'	"	1.1			

Made Gas at 420', Monitor Ground Bed for additional gas leak.