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

State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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.

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Proposed Alternative Method Permit or Closure Plan Application

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
lease 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 nvironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator:
Address: PO Box 640 / 721 S Main Aztec, NM 87410
Facility or well name: Rosa Unit #377A
API Number:3003929925
U/L or Qtr/Qtr F Section 26 Township 31N Range 5W County Rio Arriba
Center of Proposed Design. Latitude 36.87262N Longitude -107 33406W NAD: □1927 ⋈ 1983
Surface Owner. 🛮 Federal 🗌 State 🔲 Private 🔲 Tribal Trust or Indian Allotment
2.
Temporary: 🛛 Drilling 🔲 Workover
Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type. Thicknessmil LLDPE HDPE PVC Other String-Reinforced
☐ Lined ☑ Unlined Liner type. Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
String-Reinforced 3
Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type. Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: 20,000 bbl Dimensions: L 120 1
- 'ca'
☐ 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
☐ Lined ☐ Unlined Liner type Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other Liner Seams ☐ Welded ☐ Factory ☐ Other
A Below-grade tank: Subsection Lof 19.15.17.11 NMAC
G MANITALIS N
Volumebbl Type of fluid
Volumebbl 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
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. Thicknessmil HDPE PVC Other

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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 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 specifyper BLM APD Specifications	
7	
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)	
wonting inspections (it netting of screening is not physically leastble)	
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	- CC C
consideration of approval.	office for
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	☐ Yes ☐ No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	☐ Yes☐ No ☐ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (Applies to permanent pits)	☐ Yes ☐ No ☐ NA
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes☐ No
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes☐ No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ 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.	☐ Yes ☐ No

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11.	
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Check Instructions: Each of the following items must be attached to the application. Please indicate, by a	list: Subsection B of 19.15.17 9 NMAC check mark in the box, that the documents are
attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of S Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 1 Design Plan - based upon the appropriate requirements of 19 15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate reand 19.15 17 13 NMAC	oh (2) of Subsection B of 19.15.17 9 NMAC 7.10 NMAC C
Previously Approved Design (attach copy of design) API Number	or Permit Number:
12.	
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19 15.17 9 NMA Instructions: Each of the following items must be attached to the application. Please indicate, by a attached.	
Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Pa Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate Design Plan - based upon the appropriate requirements of 19 15 17 11 NMAC	te requirements of 19.15.17.10 NMAC
Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMA Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate and 19.15.17.13 NMAC	requirements of Subsection C of 19.15.17.9 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 attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19 15. Situng Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.1 Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19 15 17 11 NI	17 9 NMAC 7.10 NMAC
Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMA Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.12 NMA Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.12 NMA Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan	15.17.11 NMAC F19 15.17 11 NMAC
Erosion Control Plan	
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC a	nd 19.15 17 13 NMAC
14. Proposed Closure: 19.15 17 13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed	closure plan.
Type. Drilling Workover Emergency Cavitation P&A Permanent Pit Bell Alternative	ow-grade Tank
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)	ems)
☐ In-place Burial ☐ On-site Trench Burial ☐ Alternative Closure Method (Exceptions must be submitted to the Sant	a Fe Environmental Bureau for consideration)
Waste Excavation and Removal Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each 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 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 Plan - based upon the appropriate requirements of Subsection I of 19 15.17.13 NM	of the following items must be attached to the tion F of 19.15.17.13 NMAC section H of 19.15.17.13 NMAC
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13	INIVIAC

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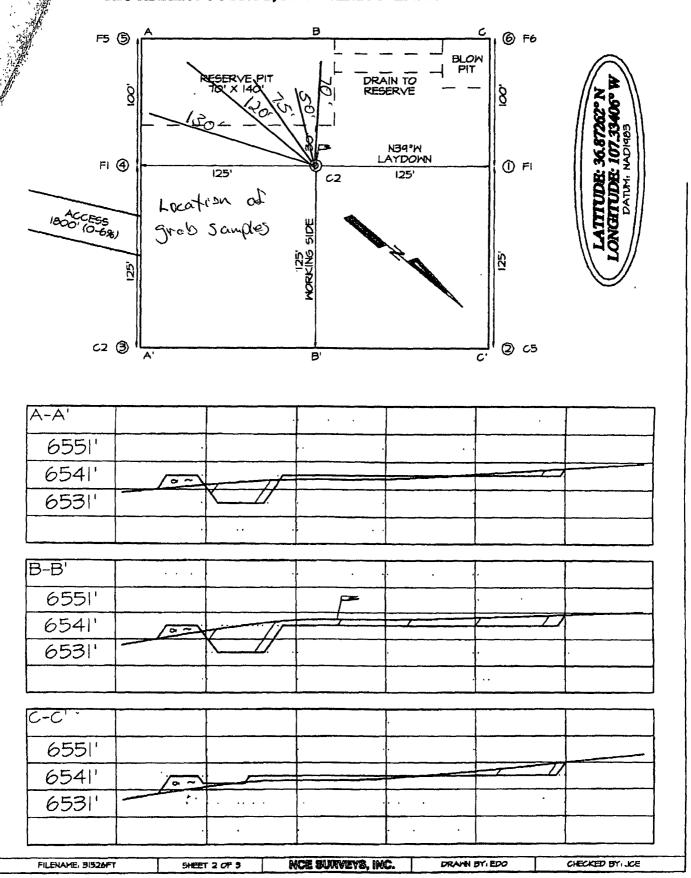
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19 Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use atte	9.15 17.13.D NMAC) achment if more than two
facilities are required. Disposal Facility Name Disposal Facility Permit Number	
Disposal Facility Name: Disposal Facility Permit Number:	
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for Yes (If yes, please provide the information below) \(\subseteq \) No	or 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 Subsection H of 19.15.1 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	17.13 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. Recommendations of accuprovided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of appropriate appr	ropriate district 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 ☐ NA
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 watercourse or lakebed, sinkhole lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	e, or playa Yes No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	ation Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic o watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial ap - NM Office of the State Engineer - iWATERS database, Visual inspection (certification) of the proposed site	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal or adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	ordinance Yes No
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the propose	ed site
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 Geol Society, Topographic map 	ological ☐ Ye s☐ No
Within a 100-year floodplain FEMA map	☐ Yes ☐ No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.13 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - 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 Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure start Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC	IMAC ments of 19 15 17 11 NMAC 3 NMAC

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Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and	complete to the best of my knowledge and belief		
Name (Print)			
Signature:	Date:		
e-mail address:	Telephone:		
OCD Approval: Permit Application (including closure plan) Closure Plan (or OCD Representative Signature: Deputy Oil & Gas (inspector, OCD) Title: District #3	Approval Date:		
Closure Report (required within 60 days of closure completion): Subsection K of 19 Instructions: Operators are required to obtain an approved closure plan prior to imple The closure report is required to be submitted to the division within 60 days of the com section of the form until an approved closure plan has been obtained and the closure of the form until an approved closure plan has been obtained and the closure of the form until an approved closure plan has been obtained and the closure of the form until an approved closure plan has been obtained and the closure of the form until an approved closure plan has been obtained and the closure of the form until an approved closure plan has been obtained and the closure of the form until an approved closure plan has been obtained and the closure of the form until an approved closure plan has been obtained and the closure of the form until an approved closure plan has been obtained and the closure of the form until an approved closure plan has been obtained and the closure of the form until an approved closure plan has been obtained and the closure of the form until an approved closure plan has been obtained and the closure of the form until an approved closure plan has been obtained and the closure of the form until an approved closure plan has been obtained and the closure of the form until an approved closure plan has been obtained and the closure of the form until an approved closure plan has been obtained and the closure of the form until an approved closure plan has been obtained and the closure of the form until an approved closure plan has been obtained and the closure of the form until an approved closure plan has been obtained and the closure of the form until an approved closure plan has been obtained and the closure of the closure of the form until an approved closure plan has been obtained and the closure of the closu	ementing any closure activities and submitting the closure report. pletion of the closure activities. Please do not complete this		
22	Closure Completion Date. 4/01/2000		
Closure Method: ☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Cl ☐ If different from approved plan, please explain.	osure Method Waste Removal (Closed-loop systems only)		
23. Closure Report Regarding Waste Removal Closure For Closed-loop Systems That I Instructions: Please indentify the facility or facilities for where the liquids, drilling flutwo facilities were utilized.			
	osal Facility Permit Number.		
Disposal Facility Name Disposal Facility Permit Number			
Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) No			
Required for impacted areas which will not be used for future service and operations Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique			
	tudeNAD		
25 19.			
Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate an	d complete to the best of my knowledge and belief		
Name (Print) Michael K Lane	Title Sr EH & S Specialist		
Signature:	Date. 1/14/09		
e-mail address:myke.lane@williams.com	Telephone505-634-4219		

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WILLIAMS PRODUCTION COMPANY ROSA UNIT #377A 1895' FNL & 1915' FWL, SECTION 26, T31N, R5W, NMPM RIO ARRIBA COUNTY, NEW MEXICO ELEVATION: 6543'





EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client	WPX	Project #	04108-0003
Sample ID	Res Pit Stablized	Date Reported	12-11-08
Laboratory Number	48390	Date Sampled	11-26-08
Chain of Custody No	5860	Date Received	12-04-08
Sample Matrix	Soil	Date Extracted	12-09-08
Preservative	Cool	Date Analyzed ⁻	12-10-08
Condition	Intact	Analysis Requested	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	
Gasoline Range (C5 - C10)	ND	0.2	
Diesel Range (C10 - C28)	ND	0.1	
Total Petroleum Hydrocarbons	ND	0.2	

ND - Parameter not detected at the stated detection limit

References Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996

Comments Rosa Unit #377A

Analyst

Review



EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client	QA/QC	Project #	N/A
Sample ID	12-10-08 QA/QC	Date Reported	12-11-08
Laboratory Number	48381	Date Sampled	N/A
Sample Matrix	Methylene Chloride	Date Received	N/A
Preservative	N/A	Date Analyzed	12-10-08
Condition	N/A	Analysis Requested	TPH

	I-Cal Date	I-Cal RF	C-Cal RF:	% Difference	Accept: Range
Gasoline Range C5 - C10	05-07-07	1 0077E+003	1 0081E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	9 9655E+002	9 9695E+002	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg).	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/Kg)	Sämple	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	8.2	8.4	2.4%	0 - 30%
Diesel Range C10 - C28	4.7	4.8	2.1%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	8.2	250	254	98.5%	75 - 125%
Diesel Range C10 - C28	4.7	250	253	99.2%	75 - 125%

ND - Parameter not detected at the stated detection limit

References

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste.

SW-846, USEPA, December 1996

Comments

QA/QC for Samples 48381, 48384, 48385, 48387, 48390, 48434, and 48452.

Analyst

Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client	WPX	Project #	04108-0003
Sample ID	Res Pit Stablized	Date Reported	12-11-08
Laboratory Number	48390	Date Sampled	11-26-08
Chain of Custody	5860	Date Received	12-04-08
Sample Matrix	Soil	Date Analyzed	12-10-08
Preservative	Cool	Date Extracted	12-09-08
Condition	Intact	Analysis Requested	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	1.7	0.9
Toluene	23.2	1.0
Ethylbenzene	1.6	1.0
p,m-Xylene	19.7	1.2
o-Xylene	6.4	0.9
Total BTEX	52.6	

ND - Parameter not detected at the stated detection limit

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

References

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996

Comments:

Rosa Unit #377A

Analyst

Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client	N/A	Project #	N/A
Sample ID	12-10-BT QA/QC	Date Reported	12-11-08
Laboratory Number	48381	Date Sampled	N/A
Sample Matrix	Soil	Date Received	N/A
Preservative	N/A	Date Analyzed	12-10-08
Condition	N/A	Analysis	BTEX

Calibration and Detection Limits (ug/L	l-Cal RF	C-Cal RF. Accept Rang	%Diff: je 0 - 15%	Blank Conc	Detect
Benzene	1 3823E+006	1 3851E+006	0.2%	ND	0.1
Toluene	1 3424E+006	1 3450E+006	0.2%	ND	0.1
Ethylbenzeńe	1 2173E+006	1 2197E+006	0.2%	ND	0.1
p,m-Xylene	2 9567E+006	2 9626E+006	0.2%	ND	0.1
o-Xylene	1 2561E+006	1 2587E+006	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample \ \Di	uplicate	%Diff.	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	77.0	78.8	2.3%	0 - 30%	1.0
Ethylbenzene	34.5	31.4	9.0%	0 - 30%	1.0
p,m-Xylene	689	677	1.8%	0 - 30%	1.2
o-Xylene	272	267	2.0%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Şample Amo	unt Spiked Spi	ked Sample	% Recovery	Accept Range
Benzene	ND	50.0	48.0	96.0%	39 - 150
Toluene	77.0	50.0	125.5	98.8%	46 - 148
Ethylbenzene	34.5	50.0	82.4	97.5%	32 - 160
p,m-Xylene	689	100	783	99.2%	46 - 148
o-Xylene	272	50	324	101%	46 - 148

ND - Parameter not detected at the stated detection limit

References Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996

Comments: QA/QC for Samples 48381, 48382, 48384, 48385, 48387 - 48390, 48434, and 48452.

Review

Analyst

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	WPX	Project #:	04108-0003
Sample ID:	Res. Pit Stablized	Date Reported:	12-12-08
Laboratory Number:	48390	Date Sampled:	11-26-08
Chain of Custody No:	5860	Date Received:	12-04-08
Sample Matrix:	Soil	Date Extracted:	12-08-08
Preservative:	Cool	Date Analyzed:	12-08-08
Condition:	Intact	Analysis Needed.	TPH-418 1

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

105

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Rosa Unit #377A.

Analyst

Muster m Westers
Review



EPA METHOD 418.1 TOTAL PETROLEUM HYROCARBONS QUALITY ASSURANCE REPORT

Client^{*} Sample ID: QA/QC QA/QC Project #: Date Reported: N/A 12-12-08

Laboratory Number:

12-08-TPH.QA/QC 48387

Date Sampled:

N/A

Sample Matrix:

Freon-113

Date Analyzed.

12-08-08

Preservative: Condition:

N/A N/A

Date Extracted: Analysis Needed. 12-08-08 TPH

Calibration 1-Cal Date

C-Cal Date

I-Cal_RF.

C-Cal RF: % Difference

Accept Range

12-08-08 12-03-08

1,590

1,550

2.5%

+/- 10%

Blank Conc. (mg/Kg) **TPH**

ND

Detection Limit 16.5

Duplicate Conc. (mg/Kg)

Sample Duplicate

% Difference : Accept Range

+/- 30%

20.3

21.6

6.4%

Spike Conc. (mg/Kg) **TPH**

20.3

Sample Spike Added Spike Result % Recovery Accept Range 2,000

1,650

81.7%

80 - 120%

ND = Parameter not detected at the stated detection limit.

References.

TPH

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

QA/QC for Samples 48387 - 48391, 48402 - 48405 and 48415 - 48416.

Analyst

Mustle of Walters Review



Chloride

WPX Project #: 04108-0003 Client: Res. Pit Stablized Date Reported: 12-12-08 Sample ID: Lab ID#. 48390 Date Sampled: 11-26-08 Sample Matrix: Date Received: 12-04-08 Soil Preservative. Date Analyzed: Cool 12-09-08 Condition: Intact Chain of Custody: 5860

Parameter Concentration (mg/Kg)

Total Chloride 120

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.

Standard Methods For The Examination of Water And Waste Water", 18th ed , 1992.

Comments: Rosa Unit #377A.

Analyst

Mistinen Waeters
Review

CHAIN OF CUSTODY RECORD

Client:			Project Name / Location										ANALYSIS / PARAMETERS											
WPX			ROSA UMI	下 ヤ	377A	-																		
Client Address			Sampler Name:						5)) [(12)	30)												ı
			Gran :	<u>S.</u>	^				_ 8	5 6		,826	SII	_		<u>a</u>								
Client Phone No.			Client No.	0410	S000 - 8	•			TPH (Method 8015)	Motho	BIEA (Method 8UZI)	VOC (Method,8260)	RCRA 8 Metals	Cation / Anion		TCLP with H/P		TPH (418.1)	NDE				Sample Cool	Sample Intact
Sample No /	Sample	Sampl	e Lab No.	5	Sample	No /Volume		1 1	ve E	X L	<u>ک</u>	SC (§	HA 8	tion /		LP.	Į	1, 4)	CHLORIDE	}			eldun	ımple
Identification	Date	Time		+	Matrix	Containers	s HgCl	HCI	<u> </u>	<u>_</u>	ā	>	Ä	ర	泛	2	PAH	片	ਠ			 	တ္တ	
Resi, Por	1/24	101	5 48390	Solid	Sludge Aqueous	1			/ ′	1								/	1				\checkmark	1
Res, PAT SABLIZED			<u> </u>	Soil Solid	Sludge Aqueous																			
				Soil Solid	Sludge Aqueous																			ı
				Soil Solid	Sludge Aqueous																			1
				Soll Solid	Sludge Aqueous																			
				Soil Solid	Sludge Aqueous																			
				Soil Solid	Sludge Aqueous																			
				Soil Solid	Sludge Aqueous																			
				Soil Solid	Sludge Aqueous																			
				Soil Solid	Sludge Aqueous					+														
Relinquished by: (Signa	ature)			Cond	Date	Time	F	Recei	ved by	y. (Sii	 gnat	ture)						L			Di	ate	Tir	me
	15				12/4	1155	_	1	íon		4.		~	$\overline{}$	١, ٦)c_0	1-	بدا			12/	4/68	115	<u>5</u> 5
Relinquished by: (Signa	ature)						F	ecei	yed by	y. (Si	gnat	ture)	1 1	} -	<u> </u>) د و					1-7	1/08	77.	2
Relinquished by: (Signa					<u> </u>			2000	نظ ام من	/C.										(A)	I N R	ED		
Reinquished by: (Signa	ature)							Hecer	ved by	y: (Si	gnai	ture)												
																	 ···	1	_DE	<u>C 1</u>	<u>s</u> 20)08	i	
					<u>ENVI</u>	RO [*]		<u>C</u>	H		<u>)(</u>	** ***								W	PX		i	
5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505-632-0615																								



STATE OF NEW MEXICO:

COUNTY OF RIO ARRIBA:

RECORDATION NOTICE OF PIT BURIAL

In accordance with Section 19.15.17.13.F.1.f of the NMAC, operator herby provides notice in the public record of an on-site burial of a temporary pit at the following location:

Well Name:	ROSA UNIT 377A
Latitude (DDD MM.MMM'): _	107.35569
Longitude (DDD MM.MMM'):	36.86559
Unit Letter (1/4, 1/4):	M
Section: _	27
Township:	T31N
Range:	R05W
County: _	RIO ARRIBA
State: _	NEW MEXICO

IN WITNESS WHEREOF, this Recordation Notice of Pit Burial has been executed on the date indicated below by the undersigned.

WILLIAMS COMPANIES, INC.

Michael K. Lane EH&S Specialist

Date

STATE OF NEW MEXICO COUNTY OF SAN JUAN

This document was acknowledged before me on this 13 day of 16keauf 200 by Michael K Lane, EH&S Specialist of WILLIAMS COMPANIES, INC.

Notary Public Signature

y Commission Expires 11/30/2011

TASHA MEADOR
Notary Name Printed

Meador, Tasha (E&P)

From: johnny@adobecontractorsinc.com

Sent: Friday, November 14, 2008 2.52 PM

To: Brandon Powell

Cc: JJ Miller; Lane, Myke (E&P); Meador, Tasha (E&P); Higgins, Larry (E&P)

Subject: Pit closure notice

Brandon.

we finished the Rosa Unit 258A closure today. We will move to the Rosa Unit #377A on Monday. We are still working on the Rosa Unit #378. We will finish it early next week. That crew will still move to the Rosa Unit #257A. Let me know if you have any questions. Thanks,

Johnny Stinson Adobe Contractors (505)632-1486 office (505)320-6076 cell johnny@adobecontractorsinc.com

720 So. Main / PO Box 640 Aztec, NM 87410 505-634-4200 / 505-634-4205 fax



Temporary Pit Inspection

FACILITY INFORMATION

Facility Name: ROSA UNIT # 377-A	API #: 30-039-29925								
Pit Type: ☐ Drilling ☐ Workover ☐ Cavitation Inspection: ☐ Daily ☐ Weekly ☐ Monthly									
Pit Liner intact (no visible tears)	Yes No If No, Date / Time Reported:								
The little index (no visible rears)	Report to EH&S immediately 9/5/08 @ 10;40 AM								
Pit Properly Fenced (no fence on rig side if on site)	Yes No Not Required (if site fully fenced)								
Pit Slopes intact									
Adequate freeboard	Yes No Not Applicable								
(liquid level 2 <u>vertical</u> feet from berm top)									
Free oil or sheen present on pit	Yes 🛛 No								
Flare Pit free of liquids									
Comments: TWO TEARS IN PIT LINER UP ON LEVEL GROU	· ·								
10: 40 AM – 9/5/08. MESSAGE LEFT W/ MYKE LANE @ 10 THEY SAID THEY WOULD TAKE CARE OF IT AFTER RIG MOV	1:45 AM – 9/5/08. NO DANGER GETTING TO FLUID LEVEL.								
THE SAID THE WOOLD TAKE CARE OF IT AT TEX RIG MOVE	ES 011 010 7/1/100.								
Inspector Signature: HARMON COCKRELL									
Printed Name: HARMON COCKRELL									
	- V / MI (1974 - 1974 -								
Title: DRILLING CONSULTANT (T.D.C.I.)	1-0-10-								
Date: 9/05/2008 Phone: (5	505) 486-1935								

Record Retention: Submit with Closure

720 So. Main / PO Box 640 Aztec, NM 87410 505-634-4200 / 505-634-4205 fax



Temporary Pit Inspection

FACILITY INFORMATION									
Facility Name: ROSA UNIT #377-A	API #: 30-039-29925								
Pit Type: ☐ Drilling ☐ Workover ☐ Cavitation	Inspection: Daily Weekly Monthly								
	My Day w								
Pit Liner intact (no visible tears)	Yes No If No, Date / Time Reported: Report to EH&S immediately								
Pit Properly Fenced (no fence on rig side if on site)	☐ Yes ☐ No ☐ Not Required (if site fully fenced)								
Pit Slopes intact	☐ Yes ☐ No								
Adequate freeboard	Yes No Not Applicable								
(liquid level 2 <u>vertical</u> feet from berm top)									
Free oil or sheen present on pit	Yes No								
Flare Pit free of liquids	Yes No Not Applicable								
Comments:									
Inspector Signature: WILLIE MOCK									
Printed Name: WILLIE MOCK									
Title: DRILLING CONSULTANT (T.D.C.I.)									

Phone: (505) 793-0528

Record Retention: Submit with Closure

File: EH&S

Date: 8/28/2008

720 So. Main / PO Box 640 Aztec, NM 87410 505-634-4200 / 505-634-4205 fax



Temporary Pit Inspection

FACILITY INFORMATION Facility Name: ROSA UNIT #377-A API #: 30-039-29925 **Inspection:** 🛛 Daily **Pit Type:** Drilling Workover Cavitation Weekly Monthly Pit Liner intact (no visible tears) X Yes No If No. Date / Time Reported: Report to EH&S immediately Pit Properly Fenced (no fence on rig side if on site) Pit Slopes intact X Yes No Yes No Not Applicable Adequate freeboard (liquid level 2 <u>vertical</u> feet from berm top) Free oil or sheen present on pit ☐ Yes X No Flare Pit free of liquids Yes No Not Applicable Comments: Inspector Signature: WILLIE MOCK Printed Name: WILLIE MOCK

Phone: (505) 793-0528

Record Retention: Submit with Closure

Title: DRILLING CONSULTANT (T.D.C.I.)

File: EH&S

Date: 8/29/2008

720 So. Main / PO Box 640 Aztec, NM 87410 505-634-4200 / 505-634-4205 fax



Temporary Pit Inspection

FACILITY INFORMATION

Facility Name: ROSA UNIT #377-A	API #: 30-039-29925
radiny radie, ROSA ORII #5/7-A	ΑΙΙ π. 30-337-27723
Pit Type: Drilling Workover Cavitat	tion Inspection: 🛛 Daily 🔲 Weekly 🔲 Monthly
Pit Liner intact (no visible tears)	Yes No If No, Date / Time Reported:
	Report to EH&S immediately
Pit Properly Fenced (no fence on rig side if on site	e) Yes No Not Required (if site fully fenced)
Pit Slopes intact	☐ Yes ☐ No
Adequate freeboard	
(liquid level 2 <u>vertical</u> feet from berm top)	
Free oil or sheen present on pit	☐ Yes ☒ No
Flare Pit free of liquids	Yes No Not Applicable
Comments:	
Inspector Signature: WILLIE MOCK	
Printed Name: WILLIE MOCK	
THIRD NAME. WILLIE MOCK	
Title: DRILLING CONSULTANT (T.D.C.I.)	
Date: 8/30/2008 Phone	e: (505) 793-0528

Record Retention: Submit with Closure

720 So. Main / PO Box 640 Aztec, NM 87410 505-634-4200 / 505-634-4205 fax



Temporary Pit Inspection

FACILITY INFORMATION Facility Name: ROSA UNIT #377-A API #: 30-039-29925 **Pit Type:** Drilling Workover Cavitation **Inspection:** 🛛 Daily Weekly Monthly Pit Liner intact (no visible tears) X Yes No If No. Date / Time Reported: Report to EH&S immediately Pit Properly Fenced (no fence on rig side if on site) Yes No Not Required (if site fully fenced) Pit Slopes intact Adequate freeboard ⊠ Yes ☐ No ☐ Not Applicable (liquid level 2 <u>vertical</u> feet from berm top) Free oil or sheen present on pit ☐ Yes M No Flare Pit free of liquids Yes No Not Applicable Comments: Inspector Signature: WILLIE MOCK Printed Name: WILLIE MOCK Title: DRILLING CONSULTANT (T.D.C.I.)

Phone: (505) 793-0528

Record Retention: Submit with Closure

File: EH&S

Date: 8/31/2008

720 So. Main / PO Box 640 Aztec, NM 87410 505-634-4200 / 505-634-4205 fax



Temporary Pit Inspection

FACILITY INFORMATION

TACILITI INFORMATION										
Facility Name: ROSA UNIT #377-A	API #: 30-039-29925									
Pit Type: ☐ Drilling ☐ Workover ☐ Cavitation	Inspection: Daily Weekly Monthly									
Pit Liner intact (no visible tears)	X Yes No If No, Date / Time Reported:									
Pit Properly Fenced (no fence on rig side if on site)	Yes No Not Required (if site fully fenced)									
Pit Slopes intact										
Adequate freeboard	Yes No Not Applicable									
(liquid level 2 <u>vertical</u> feet from berm top)										
Free oil or sheen present on pit	Yes 🛛 No									
Flare Pit free of liquids										
Comments:										
Inspector Signature: WILLIE MOCK										
Printed Name: WILLIE MOCK										
Title: DRILLING CONSULTANT (T.D.C.I.)	· 									
Date: 9/1/2008 Phone: (503	5) 793-0528									

Record Retention: Submit with Closure

720 So. Main / PO Box 640 Aztec, NM 87410 505-634-4200 / 505-634-4205 fax



Temporary Pit Inspection

FACILITY INFORMATION

FACILITY INFORMATION							
Facility Name: ROSA UNIT #377-A	API #: 30-039-29925						
Pit Type: ☐ Drilling ☐ Workover ☐ Cavitation	Inspection: Daily Weekly Monthly						
Pit Liner intact (no visible tears)	Yes No If No, Date / Time Reported:						
Pit Properly Fenced (no fence on rig side if on site)	Yes No Not Required (if site fully fenced)						
Pit Slopes intact							
Adequate freeboard							
(liquid level 2 <u>vertical</u> feet from berm top)							
Free oil or sheen present on pit	☐ Yes ☒ No						
Flare Pit free of liquids							
Comments:							
Inspector Signature: WILLIE MOCK							
Printed Name: WILLIE MOCK							
THITIEG NATHE. WILLIE MOCK							
Title: DRILLING CONSULTANT (T.D.C.I.)							
Date: 9/2/2008 Phone: (50	05) 793-0528						

Record Retention: Submit with Closure

720 So. Main / PO Box 640 Aztec, NM 87410 505-634-4200 / 505-634-4205 fax



Temporary Pit Inspection

FACILITY INFORMATION

Facility Name: ROSA UNIT # 377-A	API #: 30-039-29925
Pit Type: Drilling Workover Cavitation	on Inspection: 🛛 Daily 🗌 Weekly 🔲 Monthly
Pit Liner intact (no visible tears)	Yes No If No, Date / Time Reported:
Pit Properly Fenced (no fence on rig side if on site)	Yes No Not Required (if site fully fenced)
Pit Slopes intact	
Adequate freeboard (liquid level 2 <u>vertical</u> feet from berm top)	
Free oil or sheen present on pit	☐ Yes ☒ No
Flare Pit free of liquids	
Comments:	
Inspector Signature: HARMON COCKRELL	
Printed Name: HARMON COCKRELL	
Title: DRILLING CONSULTANT (T.D.C.I.)	
Date: 9/03/2008 Pho	one: (505) 486-1935

Record Retention: Submit with Closure

720 So. Main / PO Box 640 Aztec, NM 87410 505-634-4200 / 505-634-4205 fax



Temporary Pit Inspection

FACILITY INFORMATION

Facility Name: ROSA UNIT # 377-A	API #: 30-039-29925							
Pit Type: ☐ Drilling ☐ Workover ☐ Cavitation	Inspection: Daily Weekly Monthly							
Pit Liner intact (no visible tears)	Yes No If No. Report to EH&S immediately							
Pit Properly Fenced (no fence on rig side if on site) Pit Slopes intact	Yes No Not Required (if site fully fenced) Yes No							
Adequate freeboard (liquid level 2 <u>vertical</u> feet from berm top)								
Free oil or sheen present on pit	☐ Yes ☒ No							
Flare Pit free of liquids	☐ Yes ☐ No ☐ Not Applicable							
Comments:								
Inspector Signature: HARMON COCKRELL								
Printed Name: HARMON COCKRELL								
Title: DRILLING CONSULTANT (T.D.C.I.)								
Date: 9/04/2008 Phone:	: (505) 486-1935							

Record Retention: Submit with Closure

720 So. Main / PO Box 640 Aztec, NM 87410 505-634-4200 / 505-634-4205 fax



Temporary Pit Inspection

FACILITY INFORMATION

Facility Name: ROSA UNIT # 377-A	API #: 30-039-29925								
Pit Type: ☐ Drilling ☐ Workover ☐ Cavitation	Inspection: Daily Weekly Monthly								
Pit Liner intact (no visible tears)	X Yes No If No, Date / Time Reported:								
Pit Properly Fenced (no fence on rig side if on site)	Yes No Not Required (if site fully fenced)								
Pit Slopes intact	☐ Yes ☐ No								
Adequate freeboard (liquid level 2 <u>vertical</u> feet from berm top)									
Free oil or sheen present on pit	☐ Yes ☒ No								
Flare Pit free of liquids									
Comments:									
Inspector Signature: HARMON COCKRELL									
Printed Name: HARMON COCKRELL									
Title: DRILLING CONSULTANT (T.D.C.I.)									
Date: 9/05/2008 Phone:	(505) 486-1935								

Record Retention: Submit with Closure

In Lieu of Form 3160-4 (July 1992)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

36 I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED_

SUBMIT IN DUPLICATE FORM APPROVED OMB NO 1004-0137

(See other instructions on

Expires February 28, 1995

reverse side)							5 LEASE DESIGNATION AND LEASE NO			
		NMSF-078768 6 IF INDIAN,ALLOTTEE OR								
v	VELL COMPLI	ETION OR REC	OMPLETION RI	EPORT AND LO	OG*					
- <u>-</u>		7 UNIT AGREEMEN	IT NAME							
la TYPE C	F WELL FOIL WELL		D. II.							
	of completion EW WELL WORKO		Rosa Unit							
2 NAME	OF OPERATOR					8 FARM OR LEASE	NAME, WELL NO			
		WILLIAMS PRO	DUCTION COMPANY			Rosa Uni	t COM #377A			
3 ADDRE	SS AND TELEPHONE NO)				9 API WELL NO				
		P.O Box 640, A	Aztec, NM 87410 (505)	634-4208		30-03	9-29925			
4 LOCA	TION OF WELL (Re		and in accordance with a		s)*	10 FIELD AND	POOL, OR WILDCAT			
At top		915' FWL, Sec 26 (F) eported below 1166'	, T31N, R5W FNL & 1157' FWL, Se	c 26 (D), T31N, R5W	/	Basu	n Fruitland Coal			
						11 SEC, T, R, M, O				
						SURVEY OR AR	ea 26-31N-5W			
				14 PERMIT NO	DATE ISSUED	12 COUNTY OR	13 STATE			
						Rio Arriba	New Mexico			
SPUDDED 8-29-08	16 DATE T D REACHED 9-22-08		(READY TO PRODUCE) 24-08	18 ELEVATIONS (DK, 654	RKB, RT,GR,ETC)* 3' GR	19 ELEVATION CAS	SINGHEAD			
20 TOTAL DEPTH, N 3691' MD	ID & TVD / 3497' TVD	21 PLUG, BACK T.D., 1 3679' MD / 3485'		22 IF MULTCOMP , HOW MANY	23 INTERVALS DRILLED BY	ROTARY TOOLS X	CABLE TOOLS			
24 PRODUCING INT	ERVAL(S), OF THIS COM	PLETION - TOP, BOTTON	M, NAME (MD AND TVD)*	I		25 WAS DIRECTIONAL SURVEY MADE				
	Coal 3460' - 3591	YES								
	AND OTHER LOGS RUN					27 WAS WELL COR	ED			
	only on this well (Report all strings set in wel	n.								
	ZE/GRADE	WEIGHT, LB /FT	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CE	EMENTING RECORD AMOUNT PULLED				
9-5/8'	', K-55	36 0#	337'	12-1/4"	150 SX - S	URFACE				
7",	K-55	23 0#	3453'	8-3/4"	525 SX – S	URFACE				
29 LINER RECORD					30 TUBING RECORD					
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)			
5-1/2", 15 5#, K-55	3301'	3679'	0 SX		2-7/8", 6 5# J-55	3617'				
31 PERFORATION R	ECORD (Interval, size, and	number)		32 ACID, SHOT, FRAC DEPTH INTERVAL	TURE, CEMENT SQUEEZE,		TENIAL MOTE			
				(MD)	AMO	OUNT AND KIND OF MATERIAL USED				
Basin Fruitland Coal – 3460' – 3591' MD Well was not fraced							or acidized			
					i					
	1									
33 PRODUCTION										
DATE OF FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)							US (PRODUCING OR SI)			
			Flow	SI -	- waiting on tie-in					
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO			
10-17-08	1 hr	2'	PERIOD							
FLOW TBG PRESS	CASING PRESSURE	CALCULATEI	24-HOUR RATE	OIL – BBL	GAS – MCF	WATER - BBL	OIL GRAVITY-API (CORR)			
0 oz	32 oz	_			869 mcf/d					
34 DISPOSITION OF	GAS (Sold, used for fuel, ve	ented, etc) TO BE SOLD	ŧ			TEST WITNESSED B	Y Weldon Higgins			
35 LIST OF ATTACH			ONES, WELLBORE DIAG	RAM		1 .				

_____ TITLE <u>Drlg COM</u> DATE <u>10-27-08</u>

		Г				T		
FORMATION	ТОР	воттом	DESCRIPTION, CONTENTS, ETC		NAME	NAME	TOP MEASURED DEPTH	TRUE VERTICAL DE
						OJO ALAMO	2839'	2696'
						KIRTLAND	2957'	2806'
						FRUITLAND	3356'	3178
						:		
	- - -							
		1						



ROSA UNIT 377A

Submit To Appropr Two Copies	iate Distric	t Office		State of New Mexico						Form C-105							
District I 1625 N French Dr	Habba N	NA 00240		Energy, Minerals and Natural Resources						July 17, 2008 1. WELL API NO							
District II										30-039-29925							
1301 W Grand Ave District III			210	Oil Conservation Division						2 Type of Lease							
1000 Rto Brazos Rd, Aztec, NM 87410 District IV 1220 South St. Francis Dr.							STATE FEE X FED/INDIAN										
1220 S St Francis						Santa Fe, N						3 State Oil &					
		LETIC	N OR	RECC	MPL	ETION RE	PO	RT A	ND	LOG				Contractor de constitución			
4 Reason for file	ng											5 Lease Nam		Jnit Agre sa Unit	ement N	ame	
☐ COMPLETI	ON REF	ORT (Fi	ll in boxe	s#1 throu	igh #3 l	for State and Fed	e well	s only))		ı	6 Well Numb	_	ou Omi			
C-144 CLOS #33, attach this at											/oı		Ro	sa Unit #	4377A		
7 Type of Comp	letion																
8 Name of Opera	tor W	ILLIAMS	PRODU	J DEEPE CTION, I	LC	□PLUGBACK	<u> </u>	DIFFE	REN	T RESERVO	OIR 	9 OGRID	1207	82		-	· · · · · · · · · · · · · · · · · · ·
10 Address of O	perator	PO BO	X 640	AZTE	C, NM	87410						11 Pool name	or W	ıldcat			
					,												
12.Location	Unit Ltr	Sec	tion	Towns	hıp	Range	Lot			Feet from t	he	N/S Line	Feet	fiom the	E/W	Line	County
Surface:			·														
вн:									Ī								
13 Date Spudded		ate T D F	Reached		Ī	Released 0/24/2008						(Ready to Prod		R	RT, GR, e	etc)	and RKB,
18 Total Measur	ed Depth	of Well		19 F	lug Bac	k Measured Dep	oth		20	Was Direct	iona	l Survey Made?		21 Ty	pe Electr	ic and Ot	her Logs Run
22 Producing Int	erval(s),	of this coi	npletion -	- Top, Bot	tom, Na	ime								L			
23					CAS	ING REC	OR	D (R	epo	ort all str	ring	es set in we	ell)				
CASING SIZ	ZE	WEI	GHT LB			DEPTH SET				LE SIZE		CEMENTING RECORD AMOUNT PULLED					
												_					
						<u>-</u>				_							
							_										
							_										
24					LIN	ER RECORD		·			25	T	UBII	NG REC	ORD		
SIZE	TOP		BO	OTTOM		SACKS CEM	ENT	SCR	EEN	I	SIZ	ČE .	DEPTH SET PACKER SET				ER SET
	_		_					 					+-				
26 Perforation	record (n	nterval, sı	ze, and n	umber)		1		27	ACI	D. SHOT.	FRA	ACTURE, CE	<u> </u>	IT. SOU	EEZE.	<u>I</u> ETC	
		,	,							INTERVAL		AMOUNT A					
							DD		T CO	ΓΙΟΝ							
Date First Produc	tion		Produ	ction Met	nod (Flo	owing, gas lift, pi)	Well Status	(Proc	d or Shu	t-in)		
					(, p - p p)			,		,		
Date of Test	Hours	Tested	C	hoke Sıze		Prod'n For		Oıl -	Bbl		Gas	s - MCF	W	ateı - Bb	<u> </u>	Gas - C	l Ratio
						Test Period											
Flow Tubing	Casın	g Pressur		alculated 2	24-	Oıl - Bbl		•	Gas -	- MCF		Water - Bbl		Oil Gra	avity - A	PI - (Cor	r)
Press			1	Hour Rate													
29 Disposition of	Gas (So	ld, used fo	or fuel, ve	vented, etc) 30 Test Witnessed By													
31 List Attachme	ents	<u> </u>	······														·
32 If a temporary	pit was	used at the	e well, att	ach a plat	with th	e location of the	temp	orary p	it	Attache	ed .						
33 If an on-site b	-			-			_										
						Latitude	36 8	872621				-107 33406W			NAD 192		
I hereby certif	y that th	he infor	mation														
Signature	MIT	1OLY	HQH	(M) Pi	ame	DEATH W	(F)	BOL	<u>ر</u>	Title				Date			
E-mail Addres	<u>ss.</u>																

•

WILLIAMS PRODUCTION TEMP PIT CLOSURE REPORT ADDENDUM ROSA UNIT 377A

1	Date & How free standing liquids removed in following manner: Liquids removed by vacuum truck and hauled to Basin Disposal, Permit # NM 01-0005				
			-10/4		
3	Return receipt sent & received from surface of Williams notified the SMA of its intent to use a tem the well APD. The SMA was notified by email see at BLM:FFO/NMOCD MOU dated 5/4/09.	porary pit and onsite burio			
4	Rig off location on following date:		10/24/2008		
•	Pit covered on following date:		12/1/2008		
	Reseeding started/scheduled for following date: Date and mix to follow BLM/USFS COAs in APD per BLM:FFO/NMOCD MOU dated 5/4/09.				
6	Pit liner removed on following date:	11	/17/2008		
	Pit liner removed by following company: Adobe Construction				
	Pit liner removed in following manner: Cut liner above mud level after stabilization by manually &/or mechanically cutting liner. Removed all anchored material on date given.				
	Facility where Pit liner disposed: 5.J. Regional Landfill, NMED Permit SWM-052426				
7	Solidification process accomplished in following manner: Adobe construction used combination of natural drying & mechanical mixing. Pit contents were mixed with non-waste, earthen material to a consistency that is safe & stable. The mixing ratio per Adobe on the orde of 2.7:1 to 3:1 and varied during closure depending on the initial moisture content of the mud and drill solids.				
8	Five point composite sample provided:	Envirotech F	Results Attached		
9	Testing of earth by following company:	Envirotech,	Inc.		
	Material & method used for solidification, non-waste earthen material: Grading & backfilling area with approximately 4' of soils and earthen materials recovered during site construction, to one foot consisting of topsoil.				

ROSA UNIT 377A

	Re-contouring to match surrounding geograph Reestablish drainage and contours to approximately Approval in APD and as specified by Surface Management	•		- ,		
11	Sundry (C103) to NMOCD when area seeded and seed mix used:					
	Williams will comply with Surface Management Agency reseeding requirements in COAs of the APD for the					
	referenced well, per BLM:FFO/NMOCD MOU dated 5/4/09.					
12	Date pit was covered:	12/1/2008				
	Revegetation and restoration completion	See item 11 and refer to MOU.				
13	Company setting steel marker on site:	Adobe Cor	struction			
	Date marker set:	3/24/2009				
	Type cmt & depth of cmt to place marker:	2 sx Pre-mixed concrete @ 4' depth				
	Type of marker used: (check one)	Steel Post				
	Pertinent information on marker (operator, lease, well name/#, S-T-R-UL):					
	Williams Production, NMSF-0787680, S26-T31N-R5W-F, PIT BURIAL					
				· · · · ·		
tta	ached information :		_			
k*	Sample results from Form C141 (Release Notification & Corrective Action) Attached					
	Date & time release occurred:		NA NA			
	C105 (Completion Rpt) w/Applicable Pit Information		Attached			



District I PO Box 1980, Hobbs, NM 88241-1980

District II PO Drawer DD, Artesia. NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV PO Box 2088, Santa Fe, NM 87504-2088 State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Dermit# 2965

Form C-102 Revised February 21, 1994 Instructions on back to Appropriate District Office

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT RCVD JUN 7'12

WELL LOCATION AND ACREAGE DEDICATION PLAT OIL CONS. DIV.

'API Number	*Pool Code	'Pool Name	
1030-039-29925	71629	BASIN FRUITLAND COALST. 3	
'Property Code	Code Property Name		
17033	ROS	SA UNIT 377A	
'OGRID No	'OGRID No "Operator Name		
120782	ODUCTION COMPANY 6543		
	10 Sunfa	co ocation	

Surface Location UL or lot no Lot Id Feet from the North/South line East/West line Feet from the RIO 26 31N 5W 1895 NORTH 1915 WEST ARRIBA 11 Bottom Hole Location Different From Surface UL or lot no Lot Ide Feet from the North/South line Feet from the East/West line RIO 1190 NORTH 1190 D 26 31N WEST ARRIBA ¹³Joint or Infill ¹⁵ Order No 12 Dedicated Acres Consolidation Code 320.0 Acres - (N/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

