

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

Form C-144  
June 1, 2004

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

For drilling and production facilities, submit to appropriate NMOCD District Office.  
For downstream facilities, submit to Santa Fe office

**Pit or Below-Grade Tank Registration or Closure**

Is pit or below-grade tank covered by a "general plan"? Yes ☒ No ☐

(WFS CLOSURE)

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: PATINA SAN JUAN INCORPORATED Telephone: \_\_\_\_\_ e-mail address: \_\_\_\_\_  
Address: 1625 BROADWAY DENVER, CO 80202  
Facility or well name: HUERFANO #001 API #: 30-045-05234 U/L or Qtr/Qtr A SEC 30 T 25N R 9W  
County: SAN JUAN Latitude 36.37618 Longitude -107.82428 NAD: 1927 ☒ 1983 ☐  
Surface Owner: Federal ☒ State ☐ Private ☐ Indian ☐

**Pit**

Type: Drilling ☐ Production ☒ Disposal ☐

Workover ☐ Emergency ☐

Lined ☐ Unlined ☒

Liner Type: Synthetic ☒ Thickness \_\_\_\_\_ mil Clay ☐

Pit Volume 77 bbl

**Below-grade tank**

Volume: \_\_\_\_\_ bbl Type of fluid: \_\_\_\_\_

Construction Material: \_\_\_\_\_

Double-walled, with leak detection? Yes ☒ If not, explain why not.

Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)

Less than 50 feet  
50 feet or more, but less than 100 feet  
100 feet or more

(20 points)  
(10 points) 0  
(0 points)

Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)

Yes  
No

(20 points)  
(0 points) 0

Distance to surface water: (Horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)

Less than 200 feet  
200 feet to 1,000 feet  
Greater than 1,000 feet

(20 points)  
(10 points) 0  
(0 points)

**Ranking Score (TOTAL POINTS):**

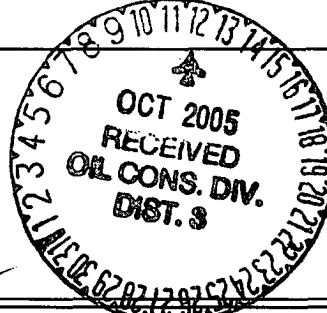
0

**If this is a pit closure:** (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☒ offsite ☐ If offsite, name of facility \_\_\_\_\_. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface \_\_\_\_\_ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments:

*Vertical Extent?*

*Outside*



I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☒

Date: 9/18/05

Printed Name/Title Mark Harvey for Williams Field Services Signature Mr. Harvey, for WFS

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

Printed Name/Title DEPUTY OIL & GAS INSPECTOR, DIST. 3

Signature Denny Fount

Date: OCT 12 2005

# **ADDENDUM TO OCD FORM C-144**

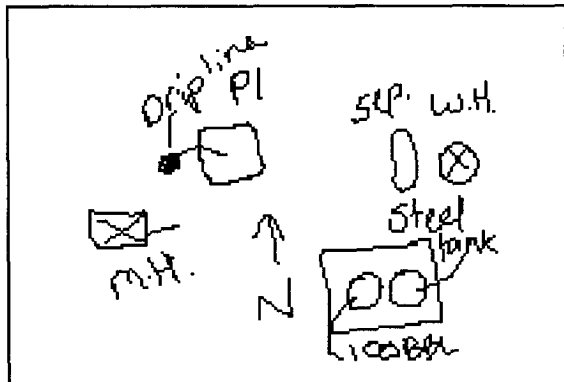
**Operator:** PATINA SAN JUAN INCORPORATED

**API** 30-045-05234

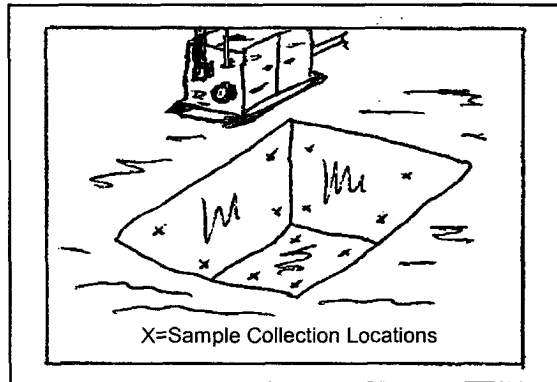
**Well Name:** HUERFANO #001

**Meter:** 32766

**Facility Diagram:**



**Sampling Diagram:**



**Pit Dimensions**

Length 12 Ft.

Width 12 Ft.

Depth 3 Ft.

**Location of Pit Center**

Latitude 36.37608

Longitude -107.82475

(NAD 1927)

**Pit ID**

327661

**Pit Type**

Other

**Date Closure Started:** 12/14/04

**Date Closure Completed:** 12/14/04

**Closure Method:** Excavated, Blended, Treated Soil Returned

**Bedrock Encountered ?** ☐

**Cubic Yards Excavated:** 94

**Vertical Extent of Equipment Reached ?** ☒

**Description Of Closure Action:**

Contaminated soil was removed and treated then returned to the excavation following sampling of the walls and floor.

Vertical extent of excavation limited by equipment

**Pit Closure Sampling:**

Sample ID	Sample Date	Head Space	BTEX Total (mg/kg)	Benzene (mg/kg)	TPH DRO (mg/kg)	Purpose	Location	Depth	
101411MAR04	3/11/04		1346	86	5400	ASSESS	Flr	3	
153014DEC04	12/14/04	28	0.21	0	120	EX Confirm	Walls	9	
154014DEC04	12/14/04	328	89.6	0	910	EX Confirm	Flr	13	See Risk Analysis

Lab Project Number: 6080365

Client Project ID: N.M. Pit Program/Spring 2004

Lab Sample No: 606913812  
Client Sample ID: 101411MAR04

Project Sample Number: 6080365-005  
Matrix: Soil

Date Collected: 03/11/04 10:14  
Date Received: 03/16/04 09:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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### GC Semivolatiles

Total Extractable Hydrocarbons Prep/Method: OA2 / OA2

Mineral Spirits	ND	mg/kg	63.	6.3	03/20/04 06:57	RMN1			
Jet Fuel	ND	mg/kg	63.	6.3	03/20/04 06:57	RMN1			
Kerosene	ND	mg/kg	63.	6.3	03/20/04 06:57	RMN1			
Diesel Fuel	5400	mg/kg	63.	6.3	03/20/04 06:57	RMN1	68334-30-5	8	
Fuel Oil	ND	mg/kg	63.	6.3	03/20/04 06:57	RMN1	68334-30-5		
Motor Oil	ND	mg/kg	63.	6.3	03/20/04 06:57	RMN1			
n-Tetracosane (S)	323	%		1.0	03/20/04 06:57	RMN1	646-31-1	9	
p-Terphenyl (S)	547	%		1.0	03/20/04 06:57	RMN1	92-94-4	10	
Date Extracted	03/18/04				03/18/04				

### Organics Prep

Percent Moisture	Method: SM 2540G								
Percent Moisture	20.7	%		1.0	03/18/04	DPB			

### GC Volatiles

Aromatic Volatile Organics Prep/Method: EPA 5030 Medium Soil / EPA 8021

Benzene	86000	ug/kg	6200	125	03/18/04 20:45	ARF	71-43-2		
Ethylbenzene	70000	ug/kg	6200	125	03/18/04 20:45	ARF	100-41-4		
Toluene	600000	ug/kg	6200	125	03/18/04 20:45	ARF	108-88-3		
Xylene (Total)	590000	ug/kg	16000	125	03/18/04 20:45	ARF	1330-20-7		
a,a,a-Trifluorotoluene (S)	864	%		1.0	03/18/04 20:45	ARF	98-08-8	3,4	

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6090504  
Client Project ID: N. Mex. Pits Program

Lab Sample No: 607796315      Project Sample Number: 6090504-006      Date Collected: 12/14/04 15:40  
Client Sample ID: 154014DEC04      Matrix: Soil      Date Received: 01/04/05 08:50

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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### GC Semivolatiles

Total Extractable Hydrocarbons	Prep/Method: OA2 / OA2								
Mineral Spirits	ND	mg/kg	11.	1.1	01/06/05 19:35	RMN1			
Jet Fuel	ND	mg/kg	11.	1.1	01/06/05 19:35	RMN1			
Kerosene	ND	mg/kg	11.	1.1	01/06/05 19:35	RMN1			
Diesel Fuel	ND	mg/kg	11.	1.1	01/06/05 19:35	RMN1	68334-30-5		
Fuel Oil	ND	mg/kg	11.	1.1	01/06/05 19:35	RMN1	68334-30-5		
Motor Oil	ND	mg/kg	11.	1.1	01/06/05 19:35	RMN1			
Total Petroleum Hydrocarbons	910	mg/kg	11.	1.1	01/06/05 19:35	RMN1		6	
n-Tetracosane (S)	128	%		1.0	01/06/05 19:35	RMN1	646-31-1		
p-Terphenyl (S)	94	%		1.0	01/06/05 19:35	RMN1	92-94-4		
Date Extracted	01/05/05				01/05/05				

### Organics Prep

Percent Moisture	Method: SM 2540G								
Percent Moisture	11.6	%		1.0	01/05/05	ALJ1			

### GC Volatiles

Aromatic Volatile Organics	Prep/Method: EPA 5030 Medium Soil / EPA 8021								
Benzene	ND	ug/kg	1100	22.3	01/06/05 14:37	SHF	71-43-2		
Ethylbenzene	7600	ug/kg	1100	22.3	01/06/05 14:37	SHF	100-41-4		
Toluene	ND	ug/kg	1100	22.3	01/06/05 14:37	SHF	108-88-3		
Xylene (Total)	82000	ug/kg	2900	22.3	01/06/05 14:37	SHF	1330-20-7		
a,a,a-Trifluorotoluene (S)	84	%		1.0	01/06/05 14:37	SHF	98-08-8	2.7	

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Lab Project Number: 6090504  
Client Project ID: N. Mex. Pits Program

Lab Sample No: 607796323      Project Sample Number: 6090504-007      Date Collected: 12/14/04 15:30  
Client Sample ID: 153014DEC04      Matrix: Soil      Date Received: 01/04/05 08:50

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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### GC Semivolatiles

Total Extractable Hydrocarbons Prep/Method: OA2 / OA2

Mineral Spirits	ND	mg/kg	11.	1.1	01/06/05 19:52	RMN1			
Jet Fuel	ND	mg/kg	11.	1.1	01/06/05 19:52	RMN1			
Kerosene	ND	mg/kg	11.	1.1	01/06/05 19:52	RMN1			
Diesel Fuel	ND	mg/kg	11.	1.1	01/06/05 19:52	RMN1	68334-30-5		
Fuel Oil	ND	mg/kg	11.	1.1	01/06/05 19:52	RMN1	68334-30-5		
Motor Oil	ND	mg/kg	11.	1.1	01/06/05 19:52	RMN1			
Total Petroleum Hydrocarbons	120	mg/kg	11.	1.1	01/06/05 19:52	RMN1		5	
n-Tetracosane (S)	119	%		1.0	01/06/05 19:52	RMN1	646-31-1		
p-Terphenyl (S)	133	%		1.0	01/06/05 19:52	RMN1	92-94-4		
Date Extracted	01/05/05				01/05/05				

### Organics Prep

Percent Moisture Method: SM 2540G  
Percent Moisture 11.5 % 1.0 01/05/05 ALJ1

### GC Volatiles

Aromatic Volatile Organics Prep/Method: EPA 5030 Medium Soil / EPA 8021

Benzene	ND	ug/kg	55.	1.1	01/07/05 10:27	SHF	71-43-2		
Ethylbenzene	ND	ug/kg	55.	1.1	01/07/05 10:27	SHF	100-41-4		
Toluene	ND	ug/kg	55.	1.1	01/07/05 10:27	SHF	108-88-3		
Xylene (Total)	210	ug/kg	140	1.1	01/07/05 10:27	SHF	1330-20-7		
a,a,a-Trifluorotoluene (S)	103	%		1.0	01/07/05 10:27	SHF	98-08-8	2	

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