

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: SCHALK DEVELOPMENT CO Telephone: \_\_\_\_\_ e-mail address: \_\_\_\_\_  
Address: PO BOX 25825 ALBUQUERQUE, NM 87125  
Facility or well name: SCHALK 49 #001 API #: 30-039-20595 U/L or Qtr/Qtr M SEC 23 T 30N R 4W  
County: RIO ARRIBA Latitude 36.79241 Longitude -107.22943 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 120 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 points)

0

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 points)

0

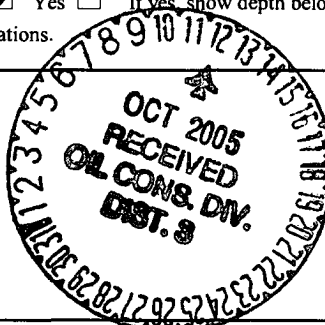
**Ranking Score (TOTAL POINTS):**

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 \_\_\_\_\_. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments:

Meter: 86724



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: 9/27/05

Printed Name/Title Mark Harvey for Williams Field Services Signature Mark Harvey

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. 4

Signature Denny

Date OCT 12 2005

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

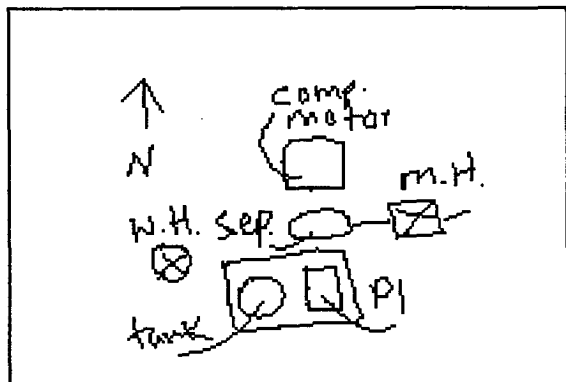
**Operator:** SCHALK DEVELOPMENT CO

**API** 30-039-20595

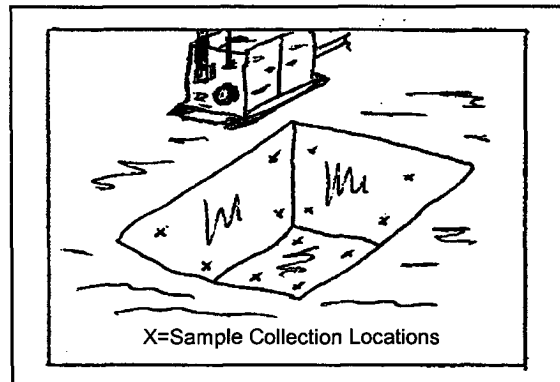
**Well Name:** SCHALK 49 #001

**Meter:** 86724

**Facility Diagram:**



**Sampling Diagram:**



**Pit Dimensions**

Length 15 Ft.  
Width 15 Ft.  
Depth 3 Ft.

**Location of Pit Center**

Latitude 36.7924  
Longitude -107.22918  
(NAD 1927)

**Pit ID**

867241

**Pit Type**

Unknown

**Date Closure Started:** 12/17/03

**Date Closure Completed:** 12/17/03

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

**Bedrock Encountered ?** ☐

**Cubic Yards Excavated:** 83

**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.

**Pit Closure Sampling:**

Sample ID	Sample Date	Head Space	BTEX Total (mg/kg)	Benzene (mg/kg)	TPH DRO (mg/kg)	Purpose	Location	Depth
104228AUG03	8/28/03		0	0	29000	ASSESS	Flr	3
115017DEC03	12/17/03		27.64	0.44	310	EX Confirm	Flr	10
115717DEC03	12/17/03		0	0	82	EX Confirm	Walls	8

Lab Project Number: 6074274

Client Project ID: New Mexico Pit Program

Lab Sample No: 606390284  
Client Sample ID: 104228AUG03

Project Sample Number: 6074274-014  
Matrix: Soil

Date Collected: 08/28/03 10:42  
Date Received: 09/05/03 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
<b>GC Semivolatiles</b>									
Total Extractable Hydrocarbons	Prep/Method: OA2 / OA2								
Mineral Spirits	ND	mg/kg	120	12.2	09/08/03 19:50	RMN1		9	
Jet Fuel	ND	mg/kg	120	12.2	09/08/03 19:50	RMN1			
Kerosene	ND	mg/kg	120	12.2	09/08/03 19:50	RMN1			
Diesel Fuel	ND	mg/kg	120	12.2	09/08/03 19:50	RMN1	68334-30-5		
Fuel Oil	ND	mg/kg	120	12.2	09/08/03 19:50	RMN1	68334-30-5		
Motor Oil	29000	mg/kg	120	12.2	09/08/03 19:50	RMN1			
n-Tetracosane (S)	0	%		1.0	09/08/03 19:50	RMN1	646-31-1	3	
p-Terphenyl (S)	0	%		1.0	09/08/03 19:50	RMN1	92-94-4		
Date Extracted	09/08/03				09/08/03				

#### Organics Prep

Percent Moisture	Method: SM 2540G								
Percent Moisture	18.8	%		1.0	09/08/03	PLH			

#### GC Volatiles

Aromatic Volatile Organics	Prep/Method: EPA 5030 Medium Soil / EPA 8021								
Benzene	ND	ug/kg	62.	1.2	09/09/03 00:02	ARF	71-43-2		
Ethylbenzene	ND	ug/kg	62.	1.2	09/09/03 00:02	ARF	100-41-4		
Toluene	ND	ug/kg	62.	1.2	09/09/03 00:02	ARF	108-88-3		
Xylene (Total)	ND	ug/kg	160	1.2	09/09/03 00:02	ARF	1330-20-7		
a,a,a-Trifluorotoluene (S)	101	%		1.0	09/09/03 00:02	ARF	98-08-8		

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6077949  
Client Project ID: N.M. Pit Program

Lab Sample No: 606712230      Project Sample Number: 6077949-002      Date Collected: 12/17/03 11:50  
Client Sample ID: 115017DEC03      Matrix: Soil      Date Received: 12/24/03 12:15

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	12.	1.2	12/29/03 18:28	RMN1			
Jet Fuel	ND	mg/kg	12.	1.2	12/29/03 18:28	RMN1			
Kerosene	ND	mg/kg	12.	1.2	12/29/03 18:28	RMN1			
Diesel Fuel	ND	mg/kg	12.	1.2	12/29/03 18:28	RMN1	68334-30-5		
Fuel Oil	ND	mg/kg	12.	1.2	12/29/03 18:28	RMN1	68334-30-5		
Motor Oil	ND	mg/kg	12.	1.2	12/29/03 18:28	RMN1			
Total Petroleum Hydrocarbons	310	mg/kg	12.	1.2	12/29/03 18:28	RMN1		1	
n-Tetracosane (S)	148	%		1.0	12/29/03 18:28	RMN1	646-31-1	2	
p-Terphenyl (S)	113	%		1.0	12/29/03 18:28	RMN1	92-94-4		
Date Extracted	12/29/03				12/29/03				

### Organics Prep

Percent Moisture	Method: SM 2540G								
Percent Moisture	19.5	%		1.0	12/29/03	PLH			

### GC Volatiles

TPH Gas/BTEX Prep/Method: TPH GRO/BTEX / EPA 8021/OA1

Gasoline Range Hydrocarbons	780000	ug/kg	11000	2.3	12/31/03 05:31				
Benzene	440	ug/kg	110	2.3	12/31/03 05:31		71-43-2		
Toluene	6700	ug/kg	110	2.3	12/31/03 05:31		108-88-3		
Ethylbenzene	1500	ug/kg	110	2.3	12/31/03 05:31		100-41-4		
Xylene (Total)	19000	ug/kg	300	2.3	12/31/03 05:31		1330-20-7		
a,a,a-Trifluorotoluene (S)	87	%		1.0	12/31/03 05:31		98-08-8		
4-Bromofluorobenzene (S)	100	%		1.0	12/31/03 05:31		460-00-4		

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Lab Project Number: 6077949  
Client Project ID: N.M. Pit Program

Solid results are reported on a dry weight basis

Lab Sample No: 606712222 Project Sample Number: 6077949-001 Date Collected: 12/17/03 11:57  
Client Sample ID: 115717DEC03 Matrix: Soil Date Received: 12/24/03 12:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
<b>GC Semivolatiles</b>									
Total Extractable Hydrocarbons	Prep/Method: OA2 / OA2								
Mineral Spirits	ND	mg/kg	11.	1.1	12/29/03 17:04	RMN1			
Jet Fuel	ND	mg/kg	11.	1.1	12/29/03 17:04	RMN1			
Kerosene	ND	mg/kg	11.	1.1	12/29/03 17:04	RMN1			
Diesel Fuel	ND	mg/kg	11.	1.1	12/29/03 17:04	RMN1	68334-30-5		
Fuel Oil	ND	mg/kg	11.	1.1	12/29/03 17:04	RMN1	68334-30-5		
Motor Oil	82.	mg/kg	11.	1.1	12/29/03 17:04	RMN1			
n-Tetracosane (S)	105	%		1.0	12/29/03 17:04	RMN1	646-31-1		
p-Terphenyl (S)	106	%		1.0	12/29/03 17:04	RMN1	92-94-4		
Date Extracted	12/29/03				12/29/03				

#### Organics Prep

Percent Moisture Method: SM 2540G  
Percent Moisture 13.3 % 1.0 12/29/03 PLH

#### GC Volatiles

TPH Gas/BTEX Prep/Method: TPH GRO/BTEX / EPA 8021/OA1

Gasoline Range Hydrocarbons	7000	ug/kg	5700	1.1	12/31/03 05:02	
Benzene	ND	ug/kg	57.	1.1	12/31/03 05:02	71-43-2
Toluene	ND	ug/kg	57.	1.1	12/31/03 05:02	108-88-3
Ethylbenzene	ND	ug/kg	57.	1.1	12/31/03 05:02	100-41-4
Xylene (Total)	ND	ug/kg	150	1.1	12/31/03 05:02	1330-20-7
a,a,a-Trifluorotoluene (S)	97	%		1.0	12/31/03 05:02	98-08-8
4-Bromofluorobenzene (S)	97	%		1.0	12/31/03 05:02	460-00-4

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