

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)

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

Operator: DUGAN PRODUCTION CORP Telephone: _____ e-mail address: _____
Address: PO BOX 420 FARMINGTON, NM 87499
Facility or well name: SHERMAN EDWARD #002 API #: 30-039-21246 U/L or Qtr/Qtr M SEC 3 T 29N R 5W
County: RIO ARriba Latitude 36.74934 Longitude -107.35182 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 38 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:

Meter: 86947

*Horizontal
Extent*

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: 9/28/05

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. III

Signature [Signature]

OCT 12 2005

Date: _____

ADDENDUM TO OCD FORM C-144

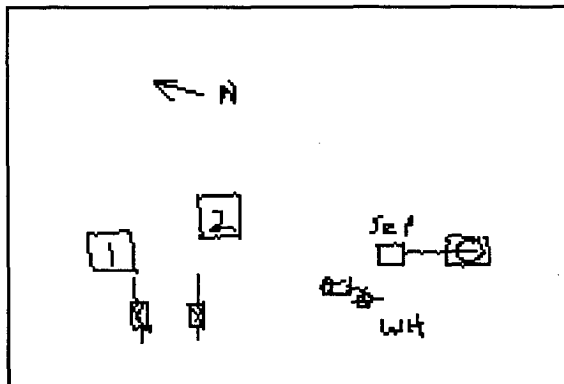
Operator: DUGAN PRODUCTION CORP

API 30-039-21246

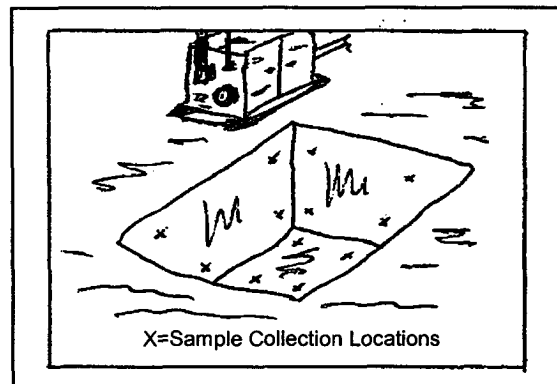
Well Name: SHERMAN EDWARD #002

Meter: 86947

Facility Diagram:



Sampling Diagram:



Pit Dimensions

Length 12 Ft.

Width 12 Ft.

Depth 1.5 Ft.

Location of Pit Center

Latitude 36.74945

Longitude -107.35174

(NAD 1927)

Pit ID

869472

Pit Type

Other

Date Closure Started: 7/21/04

Date Closure Completed: 7/21/04

Closure Method: Excavated, Blended, Treated Soil Returned

Bedrock Encountered ? ☐

Cubic Yards Excavated: 75

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	
093021JUL04	7/21/04		170.1	0	4500	EX Confirm	Walls	14	See Risk Analysis
094021JUL04	7/21/04		19.99	0	450	EX Confirm	Flr	7	
191014JUL04	7/14/04		3371	71	14000	ASSESS	Flr	2.5	

Lab Project Number: 6084968
Client Project ID: N.M. Pitts

Lab Sample No: 607318508 Project Sample Number: 6084968-022 Date Collected: 07/21/04 09:30
Client Sample ID: 093021JUL04 Matrix: Soil Date Received: 07/23/04 09:10

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	23.	2.3	07/28/04 13:07	RMN1			
Jet Fuel	ND	mg/kg	23.	2.3	07/28/04 13:07	RMN1			
Kerosene	ND	mg/kg	23.	2.3	07/28/04 13:07	RMN1			
Diesel Fuel	ND	mg/kg	23.	2.3	07/28/04 13:07	RMN1	68334-30-5		
Fuel Oil	ND	mg/kg	23.	2.3	07/28/04 13:07	RMN1	68334-30-5		
Motor Oil	ND	mg/kg	23.	2.3	07/28/04 13:07	RMN1			
Total Petroleum Hydrocarbons	4500	mg/kg	23.	2.3	07/28/04 13:07	RMN1		17	
n-Tetracosane (S)	1010	%		1.0	07/28/04 13:07	RMN1	646-31-1	8	
p-Terphenyl (S)	101	%		1.0	07/28/04 13:07	RMN1	92-94-4		
Date Extracted	07/27/04				07/27/04				

Organics Prep

Percent Moisture	Method: SM 2540G								
Percent Moisture	14.3	%		1.0	07/27/04	DPB			

GC Volatiles

Aromatic Volatile Organics	Prep/Method: EPA 5030 Medium Soil / EPA 8021								
Benzene	ND	ug/kg	2400	48.2	07/28/04 20:48		71-43-2		
Ethylbenzene	9100	ug/kg	2400	48.2	07/28/04 20:48		100-41-4		
Toluene	41000	ug/kg	2400	48.2	07/28/04 20:48		108-88-3		
Xylene (Total)	120000	ug/kg	6100	48.2	07/28/04 20:48		1330-20-7		
a,a,a-Trifluorotoluene (S)	99	%		1.0	07/28/04 20:48		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6084968
Client Project ID: N.M. Pitts

Lab Sample No: 607318490 Project Sample Number: 6084968-021 Date Collected: 07/21/04 09:40
Client Sample ID: 094021JUL04 Matrix: Soil Date Received: 07/23/04 09:10

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	07/28/04 08:27	RMN1			
Jet Fuel	ND	mg/kg	11.	1.1	07/28/04 08:27	RMN1			
Kerosene	ND	mg/kg	11.	1.1	07/28/04 08:27	RMN1			
Diesel Fuel	ND	mg/kg	11.	1.1	07/28/04 08:27	RMN1	68334-30-5		
Fuel Oil	ND	mg/kg	11.	1.1	07/28/04 08:27	RMN1	68334-30-5		
Motor Oil	ND	mg/kg	11.	1.1	07/28/04 08:27	RMN1			
Total Petroleum Hydrocarbons	450	mg/kg	11.	1.1	07/28/04 08:27	RMN1		17	
n-Tetracosane (S)	188	%		1.0	07/28/04 08:27	RMN1	646-31-1	8	
p-Terphenyl (S)	111	%		1.0	07/28/04 08:27	RMN1	92-94-4		
Date Extracted	07/27/04				07/27/04				

Organics Prep

Percent Moisture	Method: SM 2540G								
Percent Moisture	13.4	%		1.0	07/27/04	DPB			

GC Volatiles

Aromatic Volatile Organics	Prep/Method: EPA 5030 Medium Soil / EPA 8021								
Benzene	ND	ug/kg	520	10.3	07/29/04 14:09		71-43-2		
Ethylbenzene	990	ug/kg	520	10.3	07/29/04 14:09		100-41-4		
Toluene	ND	ug/kg	520	10.3	07/29/04 14:09		108-88-3		
Xylene (Total)	19000	ug/kg	1300	10.3	07/29/04 14:09		1330-20-7		
a,a,a-Trifluorotoluene (S)	95	%		1.0	07/29/04 14:09		98-08-8		

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Lab Project Number: 6084738
Client Project ID: NM PITS

Lab Sample No: 607299575 Project Sample Number: 6084738-035 Date Collected: 07/14/04 07:10
Client Sample ID: 191014JUL04 Matrix: Soil Date Received: 07/16/04 12:10

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	64.	6.4	07/22/04 17:06	RMN1			
Jet Fuel	ND	mg/kg	64.	6.4	07/22/04 17:06	RMN1			
Kerosene	ND	mg/kg	64.	6.4	07/22/04 17:06	RMN1			
Diesel Fuel	ND	mg/kg	64.	6.4	07/22/04 17:06	RMN1	68334-30-5		
Fuel Oil	ND	mg/kg	64.	6.4	07/22/04 17:06	RMN1	68334-30-5		
Motor Oil	ND	mg/kg	64.	6.4	07/22/04 17:06	RMN1			
Total Petroleum Hydrocarbons	14000	mg/kg	64.	6.4	07/22/04 17:06	RMN1		7	
n-Tetracosane (S)	3730	%		1.0	07/22/04 17:06	RMN1	646-31-1	6	
p-Terphenyl (S)	103	%		1.0	07/22/04 17:06	RMN1	92-94-4		
Date Extracted	07/20/04				07/20/04				

Organics Prep

Percent Moisture	Method: SM 2540G								
Percent Moisture	21.7	%		1.0	07/20/04	DPB			

GC Volatiles

TPH Gas/BTEX	Prep/Method: TPH GRO/BTEX / EPA 8021/OA1								
Benzene	71000	ug/kg	32000	638	07/22/04 11:02		71-43-2		
Toluene	940000	ug/kg	32000	638	07/22/04 11:02		108-88-3		
Ethylbenzene	160000	ug/kg	32000	638	07/22/04 11:02		100-41-4		
Xylene (Total)	2200000	ug/kg	83000	638	07/22/04 11:02		1330-20-7		
a,a,a-Trifluorotoluene (S)	101	%		1.0	07/22/04 11:02		98-08-8		
4-Bromofluorobenzene (S)	99	%		1.0	07/22/04 11:02		460-00-4		

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