

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

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

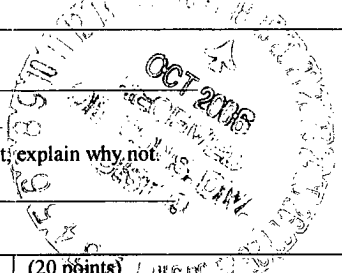
Form C-144  
June 1, 2004

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 ☒

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

Operator: <u>Dugan Production Corp</u> Telephone: <u>(505)325-1821</u> e-mail address: _____		
Address: <u>P.O. Box 420, Farmington, New Mexico 87401</u>		
Facility or well name: <u>Merry May No. 1</u> API #: <u>30-045-24421</u> U/L or Qtr/Qtr <u>1</u> Sec <u>24</u> T <u>24N</u> R <u>10W</u>		
County: <u>San Juan</u> Latitude <u>36.29742</u> Longitude <u>107.84194</u> NAD: 1927 <input type="checkbox"/> 1983 <input type="checkbox"/> Surface Owner Federal <input checked="" type="checkbox"/> State <input type="checkbox"/> Private <input type="checkbox"/> Indian <input type="checkbox"/>		
<b>Pit</b> Type: Drilling <input type="checkbox"/> Production <input checked="" type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input type="checkbox"/> Unlined <input checked="" type="checkbox"/> Liner type: Synthetic <input type="checkbox"/> Thickness _____ mil Clay <input type="checkbox"/> Pit Volume <u>640 ±</u> bbl	<b>Below-grade tank</b> Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> 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 (20 points) 50 feet or more, but less than 100 feet (10 points) 0 100 feet or more (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 (20 points) No (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 (20 points) 200 feet or more, but less than 1000 feet (10 points) 0 1000 feet or more (0 points)	
	<b>Ranking Score (Total Points)</b> 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:
30' x 30' x 4'± deep unlined production separator pit, center located at approximately 108 feet South 66° East of wellhead.
Use backhoe to dig into pit and sample. Submit 4-point side composite sample and separate center sample to laboratory for testing.
Dilute and aerate stained soils in place.

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: October 17, 2006

Printed Name/Title Jeffrey C Blagg, Agent

Signature Jeffrey C. Blagg

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 SENIOR OIL & GAS INSPECTOR, DIST. III

Signature Brancha Bell

Date: OCT 18 2006

CLIENT: <u>DUGAN</u>	<b>BLAGG ENGINEERING, INC.</b> <b>P.O. BOX 87, BLOOMFIELD, NM 87413</b> <b>(505) 632-1199</b>	LOCATION NO: _____ COCR NO: <u>14709</u>
<b>FIELD REPORT: PIT CLOSURE VERIFICATION</b>		PAGE No: <u>1</u> of <u>1</u>
LOCATION: NAME: <u>MERRY MAY</u> WELL #: <u>1</u> TYPE: <u>SEP</u> QUAD/UNIT: <u>I</u> SEC: <u>24</u> TWP: <u>24N</u> RNG: <u>10W</u> PM: <u>NM</u> CNTY: <u>ST</u> ST: <u>NM</u> QTR/FOOTAGE: <u>1850 FSL &gt; 790 FEL</u> CONTRACTOR: <u>DPC-TANOR</u>		DATE STARTED: <u>10-4-06</u> DATE FINISHED: <u>10-4-06</u> ENVIRONMENTAL SPECIALIST: <u>JCB</u>
EXCAVATION APPROX. <u>NA</u> FT. x <u>NA</u> FT. x <u>NA</u> FT. DEEP. CUBIC YARDAGE: <u>0</u> DISPOSAL FACILITY: <u>NA</u> REMEDIATION METHOD: <u>CLOSE AS IS</u> LAND USE: <u>RANGE - BLM</u> LEASE: <u>NM-25842</u> FORMATION: <u>GAL</u>		
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>108</u> FT. <u>SG6E</u> FROM WELLHEAD. DEPTH TO GROUNDWATER: <u>&gt;100</u> NEAREST WATER SOURCE: <u>&gt;1000</u> NEAREST SURFACE WATER: <u>&gt;1000</u> NMOCD RANKING SCORE: <u>0</u> NMOCD TPH CLOSURE STD: <u>5000</u> PPM		
SOIL AND EXCAVATION DESCRIPTION: <div style="float: right; border: 1px solid black; padding: 5px; margin-top: 10px;">           OVM CALIB. READ. = <u>53.3</u> ppm            OVM CALIB. GAS = <u>100</u> ppm RF = 0.52            TIME: <u>0625</u> am/pm DATE: <u>10/4/06</u> </div>		
SOIL TYPE: <u>SAND / SILTY SAND</u> / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER _____ SOIL COLOR: _____ COHESION (ALL OTHERS): NON COHESIVE / <u>SLIGHTLY COHESIVE</u> / COHESIVE / HIGHLY COHESIVE CONSISTENCY (NON COHESIVE SOILS): LOOSE / <u>FIRM</u> / DENSE / VERY DENSE PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD MOISTURE: DRY / <u>SLIGHTLY MOIST / MOIST</u> / WET / SATURATED / SUPER SATURATED DISCOLORATION/STAINING OBSERVED: <u>YES</u> / NO EXPLANATION: <u>BLACK TO 7'; GRAY 7'-9'</u> HC ODOR DETECTED: <u>YES</u> / NO EXPLANATION: <u>MOD</u> SAMPLE TYPE: <u>GRAB / COMPOSITE</u> # OF PTS: <u>4</u> ADDITIONAL COMMENTS: <u>30' x 30' x 4' UNLINED PIT. USE BACKHOE TO DIG INTO PIT &amp; SAMPLE</u>		

SCALE

0 1 FT

N

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)

PIT PERIMETER

OVM READING

SAMPLE ID	FIELD HEADSPACE (ppm)
1 @	
2 @	
3 @	
4 @	
5 @	
4-PX @ 9'	0.0
C @ 9'	0.0

PIT PROFILE

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
4-PX	T/B/CL	1340
C @	"	1350

P.D. = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELOW T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM

TRAVEL NOTES: CALLOUT: \_\_\_\_\_ ONSITE: 10/4/06

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

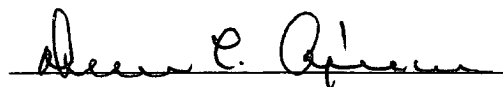
Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Merry May #1 - Sep	Date Reported:	10-11-06
Laboratory Number:	38751	Date Sampled:	10-04-06
Chain of Custody No:	14709	Date Received:	10-06-06
Sample Matrix:	Soil	Date Extracted:	10-09-06
Preservative:	Cool	Date Analyzed:	10-10-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

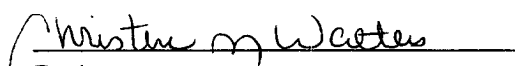
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	16.2	0.1
Total Petroleum Hydrocarbons	16.2	0.2

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: **Various Pit Closures 4-Point @ 9'**

  
Analyst

  
Review

# ENVIROTECH LABS

PRAGMATIC SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

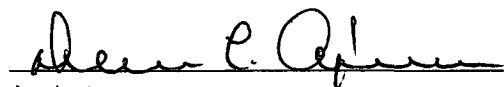
Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Merry May #1 - Sep	Date Reported:	10-11-06
Laboratory Number:	38752	Date Sampled:	10-04-06
Chain of Custody No:	14709	Date Received:	10-06-06
Sample Matrix:	Soil	Date Extracted:	10-09-06
Preservative:	Cool	Date Analyzed:	10-10-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

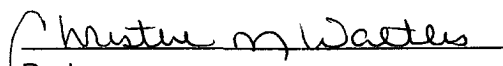
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Various Pit Closures C @ 9'**

  
Analyst

  
Review

# ENVIROTECH LABS

PRactical SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Merry May #1 - Sep	Date Reported:	10-10-06
Laboratory Number:	38751	Date Sampled:	10-04-06
Chain of Custody:	14709	Date Received:	10-06-06
Sample Matrix:	Soil	Date Analyzed:	10-10-06
Preservative:	Cool	Date Extracted:	10-09-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	2.6	1.8
Toluene	3.6	1.7
Ethylbenzene	9.2	1.5
p,m-Xylene	9.3	2.2
o-Xylene	7.9	1.0
Total BTEX	32.6	

ND - Parameter not detected at the stated detection limit.

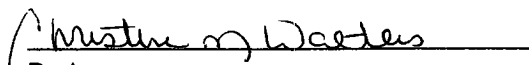
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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: Various Pit Closures 4-Point @ 9'

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Merry May #1 - Sep	Date Reported:	10-10-06
Laboratory Number:	38752	Date Sampled:	10-04-06
Chain of Custody:	14709	Date Received:	10-06-06
Sample Matrix:	Soil	Date Analyzed:	10-10-06
Preservative:	Cool	Date Extracted:	10-09-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	3.4	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	ND	2.2
o-Xylene	ND	1.0
Total BTEX	3.4	

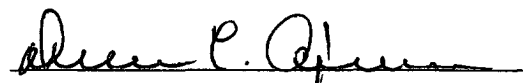
ND - Parameter not detected at the stated detection limit.

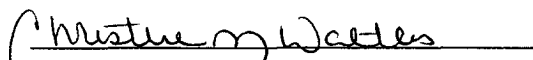
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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: Various Pit Closures C @ 9'

  
Analyst

  
Review

# ENVIROTECH LABS

PRactical SOLUTIONS FOR A BETTER TOMORROW

## Chloride

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Merry May #1 - Sep	Date Reported:	10-10-06
Lab ID#:	38751	Date Sampled:	10-04-06
Sample Matrix:	Soil	Date Received:	10-06-06
Preservative:	Cool	Date Analyzed:	10-10-06
Condition:	Cool and Intact	Chain of Custody:	14709

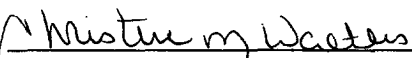
Parameter	Concentration (mg/Kg)
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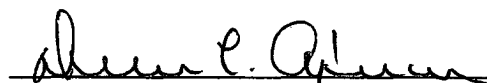
Total Chloride

254

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

Comments: Various Pit Closures 4-Point @ 9'

  
Analyst

  
Review

# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

## Chloride

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Merry May #1 - Sep	Date Reported:	10-10-06
Lab ID#:	38752	Date Sampled:	10-04-06
Sample Matrix:	Soil	Date Received:	10-06-06
Preservative:	Cool	Date Analyzed:	10-10-06
Condition:	Cool and Intact	Chain of Custody:	14709

Parameter	Concentration (mg/Kg)
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**Total Chloride**

**402**

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

Comments: **Various Pit Closures C @ 9'**

Christine M. Walters  
Analyst

Allen P. Quinn  
Review