

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: Dugan Production Corp Telephone: (505)325-1821 e-mail address: _____
Address: P.O. Box 420, Farmington, New Mexico 87401
Facility or well name: Celsius #2 API #: 30-039-23287 U/L or Qtr/Qtr E Sec 14 T 23N R 6W
County: Rio Arriba Latitude 36.22730 Longitude 107.44498 NAD: 1927 ☐ 1983 ☐ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

Pit	Below-grade tank
Type: Drilling ☐ Production ☒ Disposal ☐ Workover ☐ Emergency ☐ Lined ☐ Unlined ☒ Liner type: Synthetic ☐ Thickness _____ mil Clay ☐ Pit Volume <u>77 ±</u> bbl	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 (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)
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:

12' x 12' x 3'± deep unlined production pit, center located 45 feet South 45° East of wellhead. Pit excavated/sampled on 4/12/06.

Final excavation 12' x 12' x 5', into bedrock sandstone. Soils proposed to be landfarmed on location.

Collect 4-point composite soil sample from sidewalls and pit center sample for laboratory testing.

See attached field sampling report and laboratory test reports. BLM on site to witness sampling.

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: 4/26/06

Printed Name/Title Jeff Blagg, Agent

Signature Jeff 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 DEPUTY OIL & GAS INSPECTOR, DIST. 03

Signature Brandon Powell

Date: APR 27 2006

CLIENT: <u>DUGAN</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: _____ COCR NO: <u>14643</u>																									
FIELD REPORT: PIT CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>																									
LOCATION: NAME: <u>CELSIUS</u> WELL #: <u>2</u> TYPE: <u>SEP</u> QUAD/UNIT: <u>E</u> SEC: <u>14</u> TWP: <u>23N</u> RNG: <u>6W</u> PM: <u>NM</u> CNTY: <u>ARM</u> EAST: <u>NM</u> QTR/FOOTAGE: <u>1840 FNL x 650 FNL</u> CONTRACTOR: <u>SIERRA (HAROLD)</u>		DATE STARTED: <u>4-12-06</u> DATE FINISHED: <u>4/12/06</u> ENVIRONMENTAL SPECIALIST: <u>JCB</u>																									
EXCAVATION APPROX. <u>12</u> FT. x <u>12</u> FT. x <u>5</u> FT. DEEP. CUBIC YARDAGE: <u>11±</u>																											
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LANDFARM</u>																											
LAND USE: <u>RANGE BLM</u> LEASE: <u>NM 18946</u> FORMATION: <u>GAL/DK</u>																											
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>45</u> FT. <u>S 45 E</u> FROM WELLHEAD.																											
DEPTH TO GROUNDWATER: <u>>100</u> NEAREST WATER SOURCE: <u>>1000</u> NEAREST SURFACE WATER: <u>>1000</u>																											
NMOCD RANKING SCORE: <u>0</u> NMOCD TPH CLOSURE STD: <u>5000</u> PPM																											
SOIL AND EXCAVATION DESCRIPTION:		OVM CALIB. READ. = <u>53.3</u> ppm OVM CALIB. GAS = <u>100</u> ppm RF = 0.52 TIME: <u>0630</u> am/pm DATE: <u>4/12/06</u>																									
SOIL TYPE: SAND / <u>SILTY SAND</u> / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER <u>BEDROCK SS @ 3'</u>																											
SOIL COLOR: <u>LITE TAN</u>																											
COHESION (ALL OTHERS): <u>NON COHESIVE</u> / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE																											
CONSISTENCY (NON COHESIVE SOILS): <u>LOOSE</u> / FIRM / 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: <u>DRY</u> / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED																											
DISCOLORATION/STAINING OBSERVED: <u>YES</u> / NO EXPLANATION: <u>GRAY 3'-5'</u>																											
HC ODOR DETECTED: <u>YES</u> / NO EXPLANATION: <u>MODERATE</u>																											
SAMPLE TYPE: GRAB / COMPOSITE - # OF PTS. _____																											
ADDITIONAL COMMENTS: <u>12' x 12' x 3'± Deep Unlined Pit. USE Inches</u> <u>to Dig into Bedrock Sandstone BASE.</u> <u>SAMPLING WITNESSED BY BLM</u>																											
FIELD 418.1 CALCULATIONS																											
SCALE	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SAMP. TIME</th> <th>SAMP. ID</th> <th>LAB NO.</th> <th>WEIGHT (g)</th> <th>mL FREON</th> <th>DILUTION</th> <th>READING</th> <th>CALC. (ppm)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)																	
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4-P@	"	1107																									
P.D. = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELOW T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM																											
TRAVEL NOTES: CALLOUT: _____ ONSITE: <u>4-12-06</u>																											

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

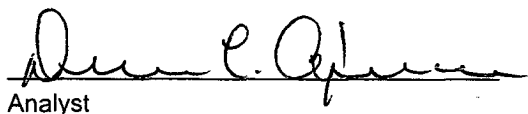
Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Celsius 2 - Sep	Date Reported:	04-17-06
Laboratory Number:	36787	Date Sampled:	04-12-06
Chain of Custody No:	14643	Date Received:	04-13-06
Sample Matrix:	Soil	Date Extracted:	04-13-06
Preservative:	Cool	Date Analyzed:	04-17-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

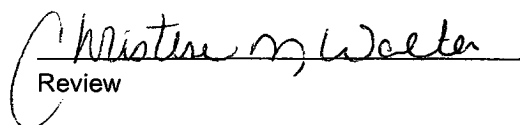
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.4	0.2
Diesel Range (C10 - C28)	31.3	0.1
Total Petroleum Hydrocarbons	31.7	0.2

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: **Earthen Pit Closures C @ 5'**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

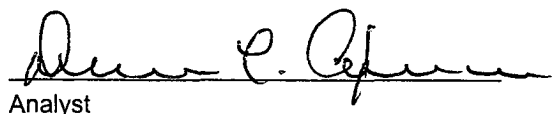
Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Celsius 2 - Sep	Date Reported:	04-17-06
Laboratory Number:	36788	Date Sampled:	04-12-06
Chain of Custody No:	14643	Date Received:	04-13-06
Sample Matrix:	Soil	Date Extracted:	04-13-06
Preservative:	Cool	Date Analyzed:	04-17-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

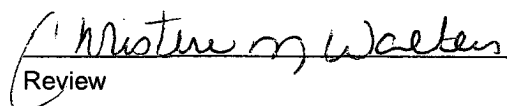
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	17.9	0.2
Diesel Range (C10 - C28)	631	0.1
Total Petroleum Hydrocarbons	649	0.2

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: **Earthen Pit Closures 4-Point @ 5'**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Celsius 2 - Sep	Date Reported:	04-17-06
Laboratory Number:	36787	Date Sampled:	04-12-06
Chain of Custody:	14643	Date Received:	04-13-06
Sample Matrix:	Soil	Date Analyzed:	04-17-06
Preservative:	Cool	Date Extracted:	04-13-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	2.3	1.8
Toluene	20.9	1.7
Ethylbenzene	18.6	1.5
p,m-Xylene	116	2.2
o-Xylene	14.3	1.0
Total BTEX	172	

ND - Parameter not detected at the stated detection limit.

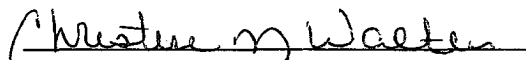
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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: Earthen Pit Closures C @ 5'


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Celsius 2 - Sep	Date Reported:	04-17-06
Laboratory Number:	36788	Date Sampled:	04-12-06
Chain of Custody:	14643	Date Received:	04-13-06
Sample Matrix:	Soil	Date Analyzed:	04-17-06
Preservative:	Cool	Date Extracted:	04-13-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	11.9	1.8
Toluene	89.6	1.7
Ethylbenzene	84.7	1.5
p,m-Xylene	601	2.2
o-Xylene	116	1.0
Total BTEX	903	

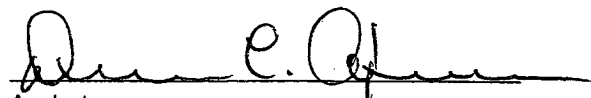
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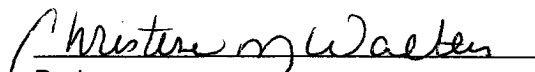
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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: Earthen Pit Closures 4-Point @ 5'


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Celsius 2 - Sep	Date Reported:	04-17-06
Lab ID#:	36787	Date Sampled:	04-12-06
Sample Matrix:	Soil	Date Received:	04-13-06
Preservative:	Cool	Date Analyzed:	04-13-06
Condition:	Cool and Intact	Chain of Custody:	14643

Parameter

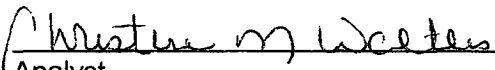
Concentration (mg/Kg)

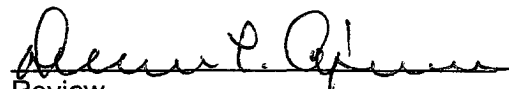
Total Chloride

1,180

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

Comments: Earthen Pit Closures C @ 5'


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Celsius 2 - Sep	Date Reported:	04-17-06
Lab ID#:	36788	Date Sampled:	04-12-06
Sample Matrix:	Soil	Date Received:	04-13-06
Preservative:	Cool	Date Analyzed:	04-13-06
Condition:	Cool and Intact	Chain of Custody:	14643

Parameter

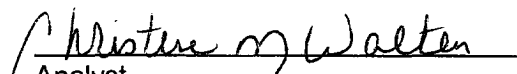
Concentration (mg/Kg)

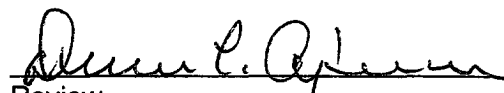
Total Chloride

1,010

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

Comments: Earthen Pit Closures 4-Point @ 5'


Analyst


Review