

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

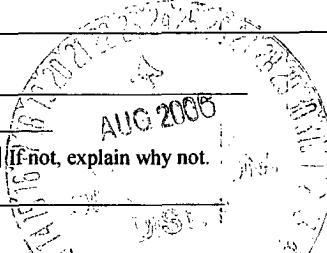
Form C-144
June 1, 2004

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>Federal 25-22-7 #1</u> API #: <u>30-043-20398</u> U/L or Qtr/Qtr <u>B</u> Sec <u>25</u> T <u>22N</u> R <u>7W</u>			
County: <u>Sandoval</u> Latitude <u>36.11429</u> Longitude <u>107.52398</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"/>			
Pit 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>77 ±</u> bbl	Below-grade tank 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 50 feet or more, but less than 100 feet 100 feet or more		(20 points) (10 points) <u>0</u> (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) <u>0</u>
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more		(20 points) (10 points) <u>0</u> (0 points)
Ranking Score (Total Points)			<u>0</u>

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 93 feet North 8° West of wellhead.
Use Backhoe to dig into pit and sample.
Collect 5-point composite soil sample from sidewalls and pit center for laboratory testing.
See attached field sampling report and laboratory test reports.

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: August 21, 2006

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:


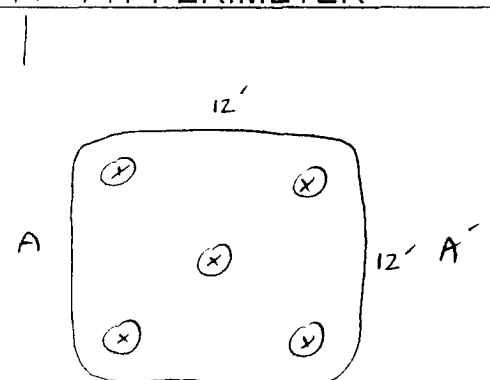
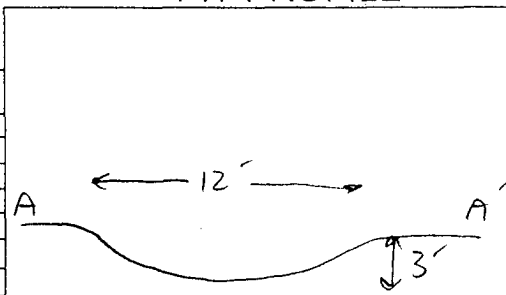
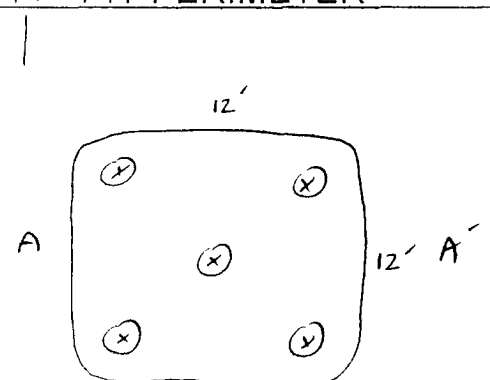
DEPUTY OIL & GAS INSPECTOR, DIST. IV

Printed Name/Title

Signature Brian R. Smith

Date:

AUG 23 2006

CLIENT: <u>DUGAN</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: _____ COCR NO: <u>14695</u>																																
FIELD REPORT: PIT CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>																																
LOCATION: NAME: <u>FED 25-22-7</u> WELL #: <u>1</u> TYPE: <u>SEP</u> QUAD/UNIT: <u>B</u> SEC: <u>25</u> TWP: <u>22N</u> RNG: <u>7W</u> PM: <u>NM</u> CNTY: <u>SN</u> ST: <u>NM</u> QTR/FOOTAGE: <u>1060 FNL x 1470 FEL</u> CONTRACTOR: <u>SIERRA</u>		DATE STARTED: <u>8-9-06</u> DATE FINISHED: <u>8-9-06</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-8899</u> FORMATION: <u>CHACRA</u>																																		
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>93</u> FT. <u>N8W</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>52.2</u> ppm OVM CALIB. GAS = <u>100</u> ppm RF = 0.52 TIME: <u>0650</u> am/pm DATE: <u>8-9-06</u>																																
SOIL TYPE: SAND / <u>SILTY SAND</u> / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER _____ 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: DRY / <u>SLIGHTLY MOIST / MOIST</u> / WET / SATURATED / SUPER SATURATED DISCOLORATION/STAINING OBSERVED: YES / <u>NO</u> EXPLANATION: _____ HC ODOR DETECTED: YES / <u>NO</u> EXPLANATION: _____ SAMPLE TYPE: GRAB / <u>COMPOSITE</u> OF PTS. <u>5</u> ADDITIONAL COMMENTS: <u>12' x 12' x 3' ± Deep Unlined Pit USE BACKHOE TO DIG INTO PIT & SAMPLE.</u>																																		
FIELD 418.1 CALCULATIONS																																		
SCALE  0 ↑ FT	<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> <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)																									PIT PERIMETER 
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P.D. = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELOW T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM																																		
TRAVEL NOTES: CALLOUT: _____ ONSITE: <u>8-9-06</u>																																		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

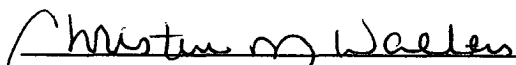
Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Federal 25-22-7 #1	Date Reported:	08-14-06
Laboratory Number:	38125	Date Sampled:	08-09-06
Chain of Custody No:	14695	Date Received:	08-10-06
Sample Matrix:	Soil	Date Extracted:	08-11-06
Preservative:	Cool	Date Analyzed:	08-14-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.2	0.2
Diesel Range (C10 - C28)	0.8	0.1
Total Petroleum Hydrocarbons	1.0	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: Pit Closures - Chacra Sep - 5 pt @ 6'.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	08-14-06 QA/QC	Date Reported:	08-14-06
Laboratory Number:	38120	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-14-06
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	07-11-05	1.0388E+003	1.0399E+003	0.10%	0 - 15%
Diesel Range C10 - C28	07-11-05	1.2885E+003	1.2911E+003	0.20%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

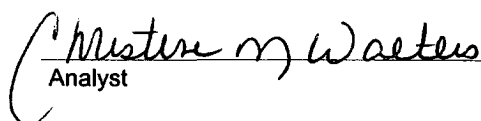
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	1.1	1.1	0.0%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	249	99.6%	75 - 125%
Diesel Range C10 - C28	1.1	250	250	99.4%	75 - 125%

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: QA/QC for Samples 38120 - 38127, 38143 and 38155.


Analyst


Review

ENVIROTECH LABS

PRAGTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Federal 25-22-7 #1	Date Reported:	08-14-06
Laboratory Number:	38125	Date Sampled:	08-09-06
Chain of Custody:	14695	Date Received:	08-10-06
Sample Matrix:	Soil	Date Analyzed:	08-14-06
Preservative:	Cool	Date Extracted:	08-11-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	3.5	1.8
Toluene	54.9	1.7
Ethylbenzene	90.7	1.5
p,m-Xylene	35.2	2.2
o-Xylene	8.3	1.0
Total BTEX	193	

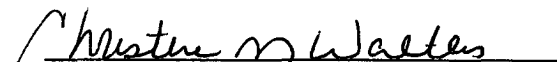
ND - Parameter not detected at the stated detection limit.


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: Pit Closures - Chacra Sep - 5 pt @ 6'.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	08-14-BTEX QA/QC	Date Reported:	08-14-06
Laboratory Number:	38120	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-14-06
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff.	Blank Conc	Detect. Limit
		Accept. Range 0 - 15%			
Benzene	5.8509E+007	5.8627E+007	0.2%	ND	0.2
Toluene	8.8412E+007	8.8589E+007	0.2%	ND	0.2
Ethylbenzene	3.8846E+007	3.8924E+007	0.2%	ND	0.2
p,m-Xylene	1.5066E+008	1.5096E+008	0.2%	ND	0.2
o-Xylene	7.9192E+007	7.9350E+007	0.2%	ND	0.1

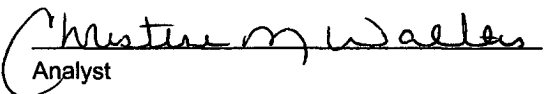
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	8.5	8.3	2.4%	0 - 30%	1.8
Toluene	12.7	12.7	0.0%	0 - 30%	1.7
Ethylbenzene	22.8	22.7	0.4%	0 - 30%	1.5
p,m-Xylene	50.8	50.5	0.6%	0 - 30%	2.2
o-Xylene	35.5	35.4	0.3%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	8.5	50.0	58.5	100.0%	39 - 150
Toluene	12.7	50.0	62.4	99.5%	46 - 148
Ethylbenzene	22.8	50.0	72.7	99.9%	32 - 160
p,m-Xylene	50.8	100	151	99.9%	46 - 148
o-Xylene	35.5	50.0	85.3	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 38120 - 38126.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Federal 25-22-7 #1	Date Reported:	08-14-06
Lab ID#:	38125	Date Sampled:	08-09-06
Sample Matrix:	Soil	Date Received:	08-10-06
Preservative:	Cool	Date Analyzed:	08-14-06
Condition:	Cool and Intact	Chain of Custody:	14695

Parameter	Concentration (mg/Kg)
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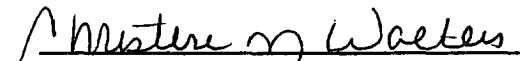
Total Chloride

522

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

Comments: Pit Closures - Chacra Sep - 5 pt @ 6'.


Analyst


Review

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