

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

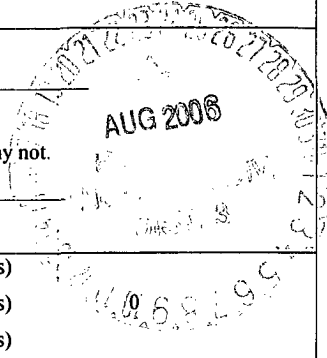
Form C-144
June 1, 2004

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 29-22-6 #2</u> API #: <u>30-043-20393</u> U/L or Qtr/Qtr <u>E</u> Sec <u>29</u> T <u>22N</u> R <u>6W</u>		
County: <u>Sandoval</u> Latitude <u>36.11239</u> Longitude <u>107.49836</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>120 ±</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 (20 points) 50 feet or more, but less than 100 feet (10 points) 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:
15' x 15' x 3'± deep unlined production pit, center located 75 feet South 8° East 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


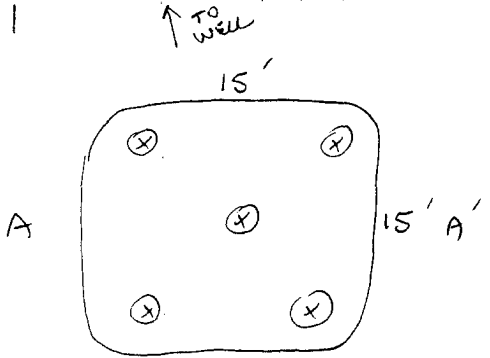
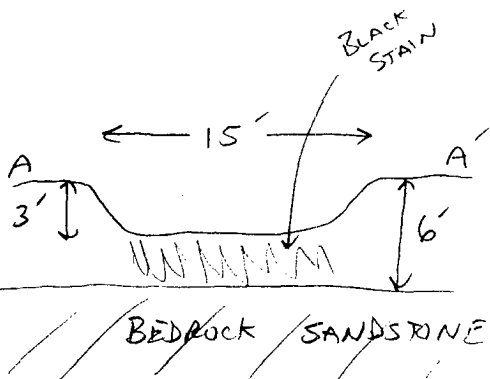
Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

Printed Name/Title DEPUTY OIL & GAS INSPECTOR, DIST. #3

Signature Brish Kell

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>14694</u>																																										
FIELD REPORT: PIT CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>																																										
LOCATION: NAME: <u>FEB 29-22-6</u> WELL #: <u>2</u> TYPE: <u>SEA</u> QUAD/UNIT: <u>E</u> SEC: <u>29</u> TWP: <u>22N</u> RNG: <u>6W</u> PM: <u>NM</u> CNTY: <u>SN</u> ST: <u>NM</u> QTR/FOOTAGE: <u>1580 FNL x 830 FWL</u> CONTRACTOR: <u>SIERRA</u>		DATE STARTED: <u>8-9-06</u> DATE FINISHED: <u>8-9-06</u> ENVIRONMENTAL SPECIALIST: <u>JCS</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-6676</u> FORMATION: <u>CHACRA</u>																																												
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>75</u> FT. <u>SBE</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: <u>(SAND / SILTY SAND)</u> SILT / SILTY CLAY / CLAY / GRAVEL / OTHER _____																																												
SOIL COLOR: _____																																												
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)</u> MOIST / WET / SATURATED / SUPER SATURATED																																												
DISCOLORATION/STAINING OBSERVED: <u>(YES)</u> NO EXPLANATION - <u>BLACK FROM PIT BASE TO BEDROCK @ 6'</u>																																												
HC ODOR DETECTED: YES <u>(NO)</u> EXPLANATION - <u>SWAMPY ODOR IN BLACK SOIL</u>																																												
SAMPLE TYPE: GRAB / <u>(COMPOSITE)</u> # OF PTS. <u>5</u>																																												
ADDITIONAL COMMENTS: <u>15' x 15' x 3' ± Deep Unlined Pit</u>																																												
<u>FIRM BEDROCK SS. @ 6' BG</u>																																												
FIELD 418.1 CALCULATIONS																																												
<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> <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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SCALE  0 FT N PIT PERIMETER 	OVM READING <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>FIELD HEADSPACE (ppm)</th> </tr> </thead> <tbody> <tr><td>1 @</td><td> </td></tr> <tr><td>2 @</td><td> </td></tr> <tr><td>3 @</td><td> </td></tr> <tr><td>4 @</td><td> </td></tr> <tr><td>5 @</td><td> </td></tr> <tr><td>5-Pit @</td><td> </td></tr> <tr><td>6'</td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table> LAB SAMPLES <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>ANALYSIS</th> <th>TIME</th> </tr> </thead> <tbody> <tr><td>5-PE</td><td>T/B/C</td><td>1116</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	SAMPLE ID	FIELD HEADSPACE (ppm)	1 @		2 @		3 @		4 @		5 @		5-Pit @		6'										SAMPLE ID	ANALYSIS	TIME	5-PE	T/B/C	1116													PIT PROFILE 
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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

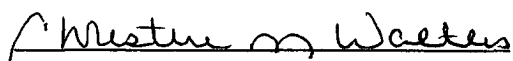
Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Federal 29-22-6 #2	Date Reported:	08-14-06
Laboratory Number:	38115	Date Sampled:	08-09-06
Chain of Custody No:	14694	Date Received:	08-10-06
Sample Matrix:	Soil	Date Extracted:	08-10-06
Preservative:	Cool	Date Analyzed:	08-11-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	1.4	0.1
Total Petroleum Hydrocarbons	1.4	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:	08-11-06 QA/QC	Date Reported:	08-14-06
Laboratory Number:	38110	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-11-06
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	1.0567E+003	1.0578E+003	0.10%	0 - 15%
Diesel Range C10 - C28	07-11-05	1.4010E+003	1.4038E+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

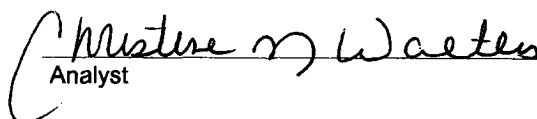
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	0.6	0.6	0.0%	0 - 30%


Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	249	99.7%	75 - 125%
Diesel Range C10 - C28	0.6	250	249	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 38110 - 38119.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Federal 29-22-6 #2	Date Reported:	08-14-06
Laboratory Number:	38115	Date Sampled:	08-09-06
Chain of Custody:	14694	Date Received:	08-10-06
Sample Matrix:	Soil	Date Analyzed:	08-11-06
Preservative:	Cool	Date Extracted:	08-10-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	26.5	1.8
Toluene	6.9	1.7
Ethylbenzene	21.2	1.5
p,m-Xylene	ND	2.2
o-Xylene	ND	1.0
Total BTEX	54.6	

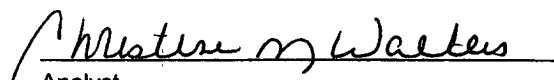
ND - Parameter not detected at the stated detection limit.

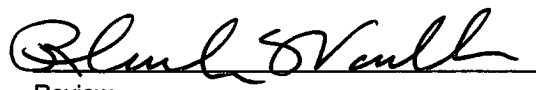
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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: 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:	08-11-BTEX QA/QC	Date Reported:	08-14-06
Laboratory Number:	38110	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-11-06
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	1.7589E+007	1.7625E+007	0.2%	ND	0.2
Toluene	1.9999E+007	2.0039E+007	0.2%	ND	0.2
Ethylbenzene	7.7299E+006	7.7454E+006	0.2%	ND	0.2
p,m-Xylene	3.4512E+007	3.4581E+007	0.2%	ND	0.2
o-Xylene	1.5684E+007	1.5716E+007	0.2%	ND	0.1

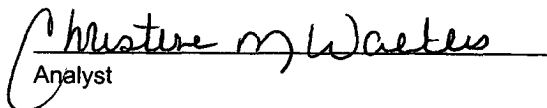
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect Limit
Benzene	11.9	11.7	1.7%	0 - 30%	1.8
Toluene	4.5	4.5	0.0%	0 - 30%	1.7
Ethylbenzene	16.4	16.3	0.6%	0 - 30%	1.5
p,m-Xylene	54.3	54.0	0.6%	0 - 30%	2.2
o-Xylene	8.4	8.3	1.2%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	11.9	50.0	61.9	100.0%	39 - 150
Toluene	4.5	50.0	54.2	99.4%	46 - 148
Ethylbenzene	16.4	50.0	66.3	99.8%	32 - 160
p,m-Xylene	54.3	100	154	99.9%	46 - 148
o-Xylene	8.4	50.0	58.3	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 38110 - 38119.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Federal 29-22-6 #2	Date Reported:	08-11-06
Lab ID#:	38115	Date Sampled:	08-09-06
Sample Matrix:	Soil	Date Received:	08-10-06
Preservative:	Cool	Date Analyzed:	08-11-06
Condition:	Cool and Intact	Chain of Custody:	14694

Parameter	Concentration (mg/Kg)
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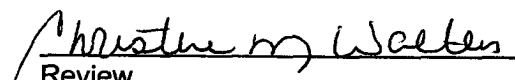
Total Chloride

178

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

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


Analyst


Review

14694

San Juan Population 979-129