

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>Faith No. 5</u> API #: <u>30-045-26346</u> U/L or Qtr/Qtr <u>E</u> Sec <u>19</u> T <u>27N</u> R <u>13W</u>		
County <u>San Juan</u> Latitude <u>36.56295</u> Longitude <u>108.26826</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) 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 or more, but less than 1000 feet 1000 feet or more	(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.

RCUD JUN21'07
OIL CONS. DIV.
DIST. 3

Additional Comments:
12' x 12' x 3'± deep unlined production pit, center located at approximately 50 Feet South 40° East of wellhead
Use backhoe to dig into pit and remove impacted soils to 6' below ground surface. Submit 5-point composite sidewall sample and pit center sample for laboratory testing.

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: June 20, 2007

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: **Deputy Oil & Gas Inspector,
District #3**

Printed Name/Title _____

Signature Brandon Ruff

Date: JUL 24 2007

50-045-26346

36.56295 x 108.26826

CLIENT: <u>DUGAN</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: _____ COCR NO: <u>2699</u>
FIELD REPORT: PIT CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>
LOCATION: NAME: <u>FAITH</u> WELL #: <u>5</u> TYPE: <u>PROD.</u>		DATE STARTED: <u>5/22/07</u> DATE FINISHED: <u>5/22/07</u>
QUAD/UNIT: <u>E</u> SEC: <u>19</u> TWP: <u>27N</u> RNG: <u>13W</u> PM: <u>NM</u> CNTY: <u>SJ</u> ST: <u>NM</u>		ENVIRONMENTAL SPECIALIST: <u>JCB</u>
QTR/FOOTAGE: <u>1850 FNL x 750 FWL</u> CONTRACTOR: <u>MJO</u>		
EXCAVATION APPROX. <u>12</u> FT. x <u>12</u> FT. x <u>6</u> FT. DEEP. CUBIC YARDAGE: <u>20 ±</u>		
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LF</u>		
LAND USE: <u>NAPI - BLM</u> LEASE: <u>NM - 33040</u> FORMATION: <u>GAL</u>		
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>50</u> FT. <u>S40E</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:		
<div style="float: right; border: 1px solid black; padding: 2px; width: fit-content;"> OVM CALIB. READ. = <u>53.4</u> ppm OVM CALIB. GAS = <u>100</u> ppm RF = 0.52 TIME: <u>1350</u> am/pm DATE: <u>5/22</u> </div>		
SOIL TYPE: <u>SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER</u>		
SOIL COLOR: <u>TAN</u>		
COHESION (ALL OTHERS): <u>(NON COHESIVE)</u> SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE		
CONSISTENCY (NON COHESIVE SOILS): <u>(LOOSE / 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: <u>(DRY)</u> SLIGHTLY MOIST / MOIST / 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' ± UNLINED PIT. USE BACKHOE</u> <u>TO REMOVE IMPACTED SOILS TO 6' DEPTH.</u>		

FIELD 418.1 CALCULATIONS							
SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)

SCALE

0 FT

N

PIT PERIMETER

x = SAMPLE POINT

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

OVM READING

SAMPLE ID	FIELD HEADSPACE (ppm)
1 @	
2 @	
3 @	
4 @	
5 @	
5-PX 6'	3.8

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
5-PX	T/B/CL	1345

PIT PROFILE

TRAVEL NOTES:		CALLOUT: _____	ONSITE: <u>5/22/07</u>
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CHAIN OF CUSTODY RECORD

2699

Client / Project Name BLAGG/DUGAN			Project Location FAITH #5		ANALYSIS / PARAMETERS							
Sampler: JEFF BLAGG			Client No. 94034-010		No. of Containers 1	TPH 8015 X	BTEX 8021 X	CL-				Remarks
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix								
PROD. PIT	5/22/07	1345	41630	SOIL								S-Point Composite
Relinquished by: (Signature) Jeff Blagg			Date 5/23/07	Time 0945	Received by: (Signature) Mustie M. Waeter						Date 5/23/07	Time 945
Relinquished by: (Signature)					Received by: (Signature)							
Relinquished by: (Signature)					Received by: (Signature)							

ENVIROTECH INC.

 5796 U.S. Highway 64
 Farmington, New Mexico 87401
 (505) 632-0615

Sample Receipt			
	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

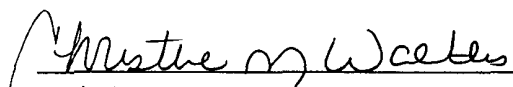
Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Prod. Pit	Date Reported:	05-24-07
Laboratory Number:	41630	Date Sampled:	05-22-07
Chain of Custody No:	2699	Date Received:	05-23-07
Sample Matrix:	Soil	Date Extracted:	05-24-07
Preservative:	Cool	Date Analyzed:	05-24-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

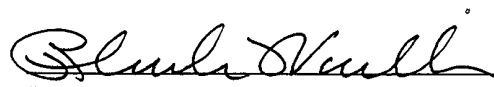
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Faith #5 5 - Point Composite.**


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:	05-24-07 QA/QC	Date Reported:	05-24-07
Laboratory Number:	41630	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-24-07
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	05-07-07	8.8314E+002	8.8350E+002	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	9.4532E+002	9.4570E+002	0.04%	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

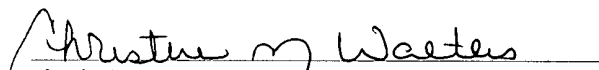
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

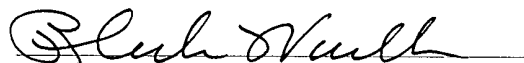
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

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 41630 and 41635.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Prod. Pit	Date Reported:	05-24-07
Laboratory Number:	41630	Date Sampled:	05-22-07
Chain of Custody:	2699	Date Received:	05-23-07
Sample Matrix:	Soil	Date Analyzed:	05-24-07
Preservative:	Cool	Date Extracted:	05-24-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	7.1	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	14.8	2.2
o-Xylene	4.5	1.0
Total BTEX	26.4	

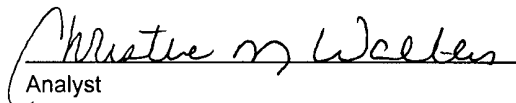
ND - Parameter not detected at the stated detection limit.

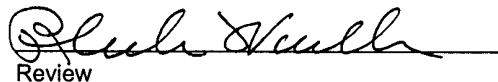
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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: Faith #5 5 - Point Composite.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	05-24-BTEX QA/QC	Date Reported:	05-24-07
Laboratory Number:	41630	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-24-07
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	Local RF	C-Cal RF	%Diff	Blank Conc	Detect. Limit
		Accept. Range 0 - 15%			
Benzene	2.5197E+007	2.5248E+007	0.2%	ND	0.2
Toluene	2.4490E+007	2.4539E+007	0.2%	ND	0.2
Ethylbenzene	2.0424E+007	2.0465E+007	0.2%	ND	0.2
p,m-Xylene	4.2217E+007	4.2302E+007	0.2%	ND	0.2
o-Xylene	1.8171E+007	1.8207E+007	0.2%	ND	0.1

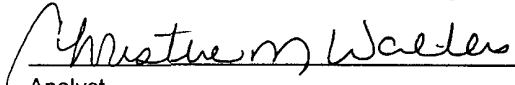
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	7.1	7.0	1.4%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	14.8	14.6	1.4%	0 - 30%	2.2
o-Xylene	4.5	4.4	2.2%	0 - 30%	1.0

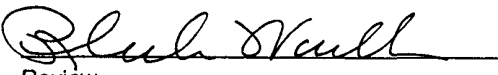
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	7.1	50.0	56.9	99.6%	46 - 148
Ethylbenzene	ND	50.0	50.0	100.0%	32 - 160
p,m-Xylene	14.8	100	113	98.3%	46 - 148
o-Xylene	4.5	50.0	54.0	99.1%	46 - 148

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 41630 - 41631 and 41633 - 41635.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Prod. Pit	Date Reported:	05-24-07
Lab ID#:	41630	Date Sampled:	05-22-07
Sample Matrix:	Soil	Date Received:	05-23-07
Preservative:	Cool	Date Analyzed:	05-24-07
Condition:	Cool and Intact	Chain of Custody:	2699

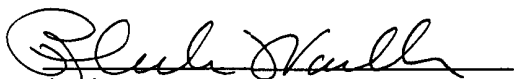
Parameter	Concentration (mg/Kg)
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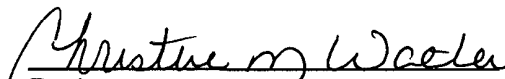
Total Chloride

310

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

Comments: Faith #5 5 - Point Composite.


Analyst


Review