

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: Billie 2 API #: 30-045-24713 U/L or Qtr/Qtr L Sec 35 T 22N R 8W
County: San Juan Latitude 36.10619 Longitude 107.65451 NAD: 1927 ☐ 1983 ☐ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

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>125 ±</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) 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

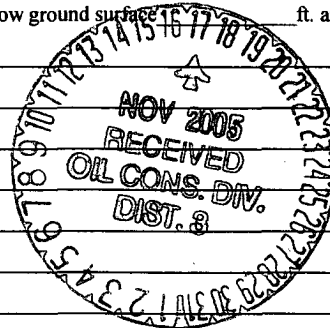
If this is a pit closure: (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☒ offsite ☐ If offsite, name of facility _____. (3) Attach a general description of remedial 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 5'± deep unlined production pit, center located 48 feet North 47° East of wellhead.

Collect 5 point composite of pit with backhoe from base to 3 feet below base 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: Nov 15, 2005

Printed Name/Title Jeff Blagg, Agent

Signature Jeff Blagg


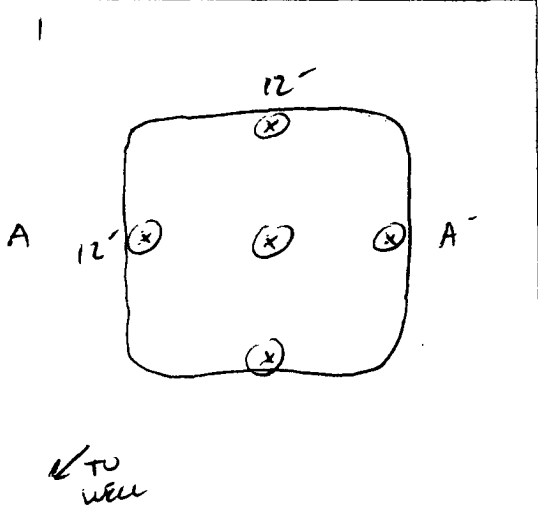
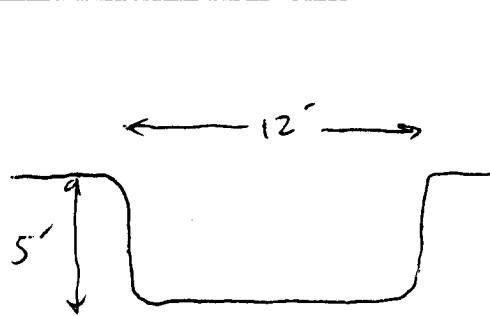
Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with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

Approval: DEPUTY OIL & GAS INSPECTOR, DIST. 8

Printed Name/Title _____

Signature Denny Fout

Date: NOV 17 2005

CLIENT: <u>DUGAN</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: _____ COCR NO: <u>14584</u>																																											
FIELD REPORT: PIT CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>																																											
LOCATION: NAME: <u>BILLIE</u> WELL #: <u>2</u> TYPE: <u>SEP</u> QUAD/UNIT: <u>L SEC: 35 TWP: 22N RNG: 8W PM: NM CNTY: SJ ST: NM</u> QTR/FOOTAGE: <u>1850 FSL x 790 FWL</u> CONTRACTOR: <u>DPC</u>		DATE STARTED: <u>11-2-05</u> DATE FINISHED: <u>11-2-05</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 8902</u> FORMATION: <u>CHACRA</u>																																													
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>48</u> FT. <u>N 47 E</u> FROM WELLHEAD. DEPTH TO GROUNDWATER: <u>>1000</u> NEAREST WATER SOURCE: <u>>1000</u> NEAREST SURFACE WATER: <u>>1000</u> NMOC D RANKING SCORE: <u>0</u> NMOC D 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>1355</u> am/pm DATE: <u>11-2-05</u>																																											
SOIL TYPE: SAND <u>(SILTY SAND)</u> / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER _____ SOIL COLOR: <u>Like 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)</u> / MOIST / WET / SATURATED / SUPER SATURATED DISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION - _____ HC ODOR DETECTED: YES / NO EXPLANATION - _____ SAMPLE TYPE: GRAB / COMPOSITE - # OF PTS. _____ ADDITIONAL COMMENTS: <u>12' x 12' x 5' Deep Earth Pit</u> <u>USE Backhoe to Dig test holes to sample</u>																																													
FIELD 418.1 CALCULATIONS																																													
SCALE  0 10 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> <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)																																			
SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)																																						
PIT PERIMETER	OVM READING	PIT PROFILE																																											
	<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>S-Pit</td><td>0.0</td></tr> <tr><td>Composite</td><td> </td></tr> <tr><td>@ 3'</td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">LAB SAMPLES</th> </tr> <tr> <th>SAMPLE ID</th> <th>ANALYSIS</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td>S-Pit</td> <td>TPH/BTF</td> <td>1345</td> </tr> <tr> <td> </td><td>CL</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 @		S-Pit	0.0	Composite		@ 3'						LAB SAMPLES			SAMPLE ID	ANALYSIS	TIME	S-Pit	TPH/BTF	1345		CL											
SAMPLE ID	FIELD HEADSPACE (ppm)																																												
1 @																																													
2 @																																													
3 @																																													
4 @																																													
5 @																																													
S-Pit	0.0																																												
Composite																																													
@ 3'																																													
LAB SAMPLES																																													
SAMPLE ID	ANALYSIS	TIME																																											
S-Pit	TPH/BTF	1345																																											
	CL																																												
P.D. = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELOW T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM																																													
TRAVEL NOTES: CALLOUT: _____ ONSITE: <u>11-2-05</u>																																													

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

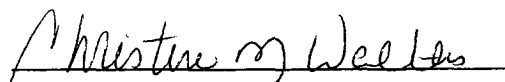
Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Billie 2	Date Reported:	11-08-05
Laboratory Number:	34905	Date Sampled:	11-02-05
Chain of Custody No:	14584	Date Received:	11-03-05
Sample Matrix:	Soil	Date Extracted:	11-07-05
Preservative:	Cool	Date Analyzed:	11-08-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

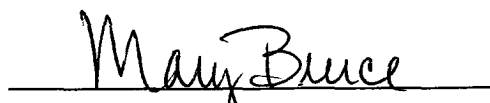
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	0.2	0.1
Total Petroleum Hydrocarbons	0.2	0.2

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 5 - Point Composite.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Billie 2	Date Reported:	11-08-05
Laboratory Number:	34905	Date Sampled:	11-02-05
Chain of Custody:	14584	Date Received:	11-03-05
Sample Matrix:	Soil	Date Analyzed:	11-08-05
Preservative:	Cool	Date Extracted:	11-07-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	56.0	1.7
Ethylbenzene	12.4	1.5
p,m-Xylene	95.0	2.2
o-Xylene	16.0	1.0
Total BTEX	179	

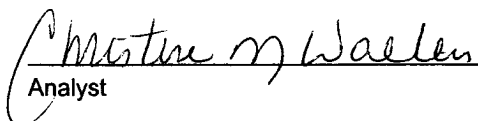
ND - Parameter not detected at the stated detection limit.

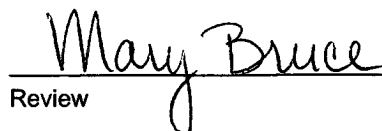
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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 5 - Point Composite.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Billie 2	Date Reported:	11-09-05
Lab ID#:	34905	Date Sampled:	11-02-05
Sample Matrix:	Soil	Date Received:	11-03-05
Preservative:	Cool	Date Extracted:	11-07-05
Condition:	Cool and Intact	Date Analyzed:	11-08-05
		Chain of Custody:	14584

Parameter	Concentration (mg/L)
-----------	----------------------

Total Chloride

242

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

Comments: Various Pit Closures 5 - Point Composite.

Mary Bruce
Analyst

Christine M. Waelen
Review