

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: Target 1 API #: 30-045-28537 U/L or Qtr/Qtr F Sec 20 T 24N R 10W

County: San Juan Latitude 36.30054 Longitude 107.92126 NAD: 1927 ☐ 1983 ☐ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

**Pit**

Type: Drilling ☐ Production ☒ Disposal ☐

Workover ☐ Emergency ☐

Lined ☐ Unlined ☒

Liner type: Synthetic ☐ Thickness \_\_\_\_\_ mil Clay ☐

Pit Volume 160 bbl

**Below-grade tank**

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)

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 4' deep earthen pit., center located 111 feet Due West of wellhead.

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: 10/15/04

Printed Name/Title Jeffrey C. Blagg, NMPE 11607

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, DIST. 8

Printed Name/Title \_\_\_\_\_

Signature Deputy

Date: OCT 22 2004

CLIENT: DUGAN**BLAGG ENGINEERING, INC.**  
**P.O. BOX 87, BLOOMFIELD, NM 87413**  
**(505) 632-1199**

LOCATION NO: \_\_\_\_\_

COCR NO: 13083**FIELD REPORT: PIT CLOSURE VERIFICATION**PAGE No: 1 of 1LOCATION: NAME: TARGET WELL #: 1 TYPE: SEP  
QUAD/UNIT: F SEC: 20 TWP: 24N RNG: 10W PM: NM CNTY: SJ ST: NM  
QTR/FOOTAGE: 1980 FNL x 1980 FWL CONTRACTOR: \_\_\_\_\_DATE STARTED: 10-7-04  
DATE FINISHED: 10-7-04ENVIRONMENTAL  
SPECIALIST: ICBEXCAVATION APPROX. 15 FT. x 15 FT. x 10 FT. DEEP. CUBIC YARDAGE: 50±DISPOSAL FACILITY: ONSITE REMEDIATION METHOD: L.F.LAND USE: RANGE - FED LEASE: NM-43442 FORMATION: GAUUPFIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 11 FT. DUE WEST FROM WELLHEAD.DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPMSOIL AND EXCAVATION DESCRIPTION:OVM CALIB. READ. = 529 ppm  
OVM CALIB. GAS = 100 ppm RF = 0.52  
TIME: 1215 am/pm DATE: 10/7SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER \_\_\_\_\_

SOIL COLOR: \_\_\_\_\_

COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVECONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE / VERY DENSE

PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC

DENSITY (COHESIVE CLAYS &amp; SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD

MOISTURE: DRY / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATEDDISCOLORATION/STAINING OBSERVED: YES NO EXPLANATION - BLACK FROM PIT BASE (-4') TO -9', GRAY 9'-10'HC ODOR DETECTED: YES NO EXPLANATION - STRUNKSAMPLE TYPE: GRAB/COMPOSITE - # OF PTS. \_\_\_\_\_ADDITIONAL COMMENTS: 15' x 15' x 4' Deep Excavation Pit. Use BACKHOE  
to Dig Test Hole to 10' B.G. (Equipment Limitation). SAMPLE  
@ 10'

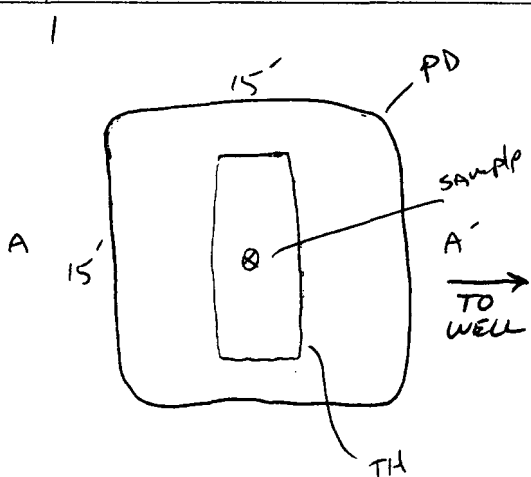
## FIELD 418.1 CALCULATIONS

## SCALE



0 FT

## PIT PERIMETER

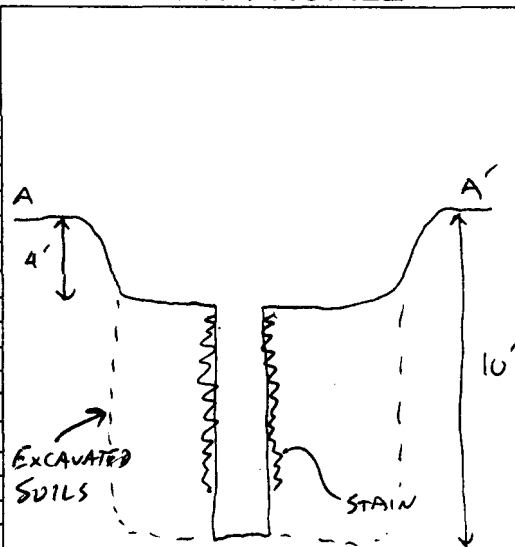
OVM  
READING

SAMPLE ID	FIELD HEADSPACE (ppm)
1 @ 10'	164
2 @	
3 @	
4 @	
5 @	

## LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
① PD	TPH / BTEX	1309

## PIT PROFILE

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

TRAVEL NOTES:

CALLOUT: \_\_\_\_\_ ONSITE: 10-7-04 NUUN

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

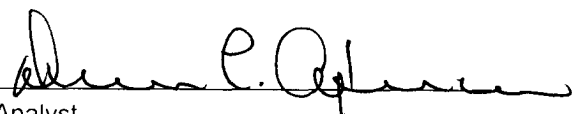
Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Sep. Pit	Date Reported:	10-08-04
Laboratory Number:	30894	Date Sampled:	10-07-04
Chain of Custody No:	13083	Date Received:	10-08-04
Sample Matrix:	Soil	Date Extracted:	10-08-04
Preservative:	Cool	Date Analyzed:	10-08-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

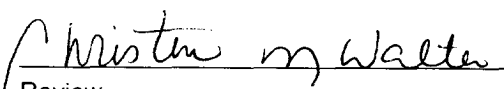
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	170	0.2
Diesel Range (C10 - C28)	404	0.1
Total Petroleum Hydrocarbons	574	0.2

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: **Target 1 1 @ 10'.**

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Sep. Pit	Date Reported:	10-08-04
Laboratory Number:	30894	Date Sampled:	10-07-04
Chain of Custody:	13083	Date Received:	10-08-04
Sample Matrix:	Soil	Date Analyzed:	10-08-04
Preservative:	Cool	Date Extracted:	10-08-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	46.2	1.8
Toluene	190	1.7
Ethylbenzene	182	1.5
p,m-Xylene	373	2.2
o-Xylene	256	1.0
Total BTEX	1,050	

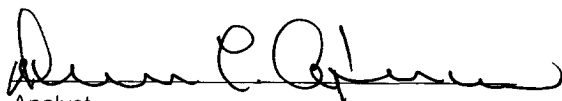
ND - Parameter not detected at the stated detection limit.

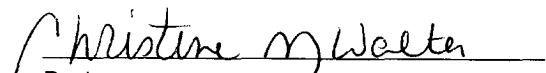
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98 %
	1,4-difluorobenzene	98 %
	Bromochlorobenzene	98 %

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: Target 1 1 @ 10'.

  
Analyst

  
Review