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 For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Form C-144 June 1, 2004

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tan Type of action: Registration of a pit o	k covered by a "general plan"? Yes No or below-grade tank Closure of a pit or below-grade	de tank
Operator: Dugan Production Corp Telephone: (505)325-1821 e-mail address:		
Address: P.O. Box 420, Farmington, New Mexico 87401	22022 II/I or Ota/Ota D. Soc. 15 T. 22	NI P 6W
Facility or well name: Buddy #1 API #: 30-039-2 County: Rio Arriba Latitude 36.21967 Longitude		
County: <u>Rio Arriba</u> Latitude 36.21967 Longitude	107.44917 NAD: 1927 1983 Surface Owi	ier rederai 🗷 State 🔲 rrivate 📋 indian 📋
<u>Pit</u>	Below-grade tank	
Type: Drilling Production Disposal	Volume:bbl Type of fluid:	
Workover	Construction material:	
Lined Unlined 🔀	Double-walled, with leak detection? Yes If not	, explain why not.
Liner type: Synthetic Thickness mil Clay		
Pit Volume77 ±bbl		
Depth to ground water (vertical distance from bottom of pit to seasonal	Less than 50 feet	(20 points)
	50 feet or more, but less than 100 feet	(10 points) 0
high water elevation of ground water.)	100 feet or more	(0 points)
Wellhead protection area: (Less than 200 feet from a private domestic	Yes	(20 points)
water source, or less than 1000 feet from all other water sources.)	No	(0 points) 0
	Less than 200 feet	(20 points)
Distance to surface water: (horizontal distance to all wetlands, playas,	200 feet or more, but less than 1000 feet	(10 points) 0
irrigation canals, ditches, and perennial and ephemeral watercourses.)	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) Indicat	te disposal location: (check the onsite box if
your are burying in place) onsite 🔀 offsite 🗓 If offsite, name of facility_		
remediation start date and end date. (4) Groundwater encountered: No 🔀 Y		
Attach soil sample results and a diagram of sample locations and excavation	s.	
Additional Comments:		656212820g
12' x 12' x 3'± deep unlined production pit, center located 99 feet Sou	th 54° East of wellhead. Pit excavated/sampled on 4/	12/06.
Pit appeared un-used. Used backhoe to dig into pit for samples. No rem	ediation required.	APR 2006 3
Collect 4-point composite soil sample from sidewalls and pit center samp	le for laboratory testing.	S ALL VED W
See attached field sampling report and laboratory test reports. BLM on s	ite to witness sampling.	BOLCONS. DIV.
		(F. 1910), \$1 05
I hereby certify that the information above is true and complete to the bes	t of my knowledge and baliaf. I further contifu that	the above described his on help varied tonk
has been/will be constructed or closed according to NMOCD guidelin	les 🌌, a general permit 🔲, or an (attached) alterna	ative OCD-approved plan
Printed Name/Title Jeff Blagg, Agent	Signature J. H. St. C.	
Your certification and NMOCD approval of this application/closure does	Signature Jeff Secretary of lightlity should the contents	s of the nit or tank contaminate ground water or
otherwise endanger public health or the environment. Nor does it relieve regulations.	the operator of its responsibility for compliance with	any other federal, state, or local laws and/or
Approval:		
Printed Name/Title CRUTY OR & GAS INSPECTOR, DIST.	Signature Branson Formet	Date: APR 2 7 2006

· 60 - 039 - 23032	36.	. 21967 ×	107-4491	7	
CLIENT: DUGAN	BLAG P.O. BOX		NEERING	-	LOCATION NO:
CLIENT: VOCACIO	1	(505) 632		, 1410. 4	COCR NO: 14644
FIELD REPORT	: PIT CL	OSURE	VERIF	CATION	
LOCATION: NAME: BUDD	·	WELL #:	1 TYPE	: TANK	DATE STARTED: 4-12-06
QUAD/UNIT: P SEC: 15			VM CNTY:RA	ST: NM	DATE FINISHED: 4-12-06
QTR/FOOTAGE: 660 FS					E ENVIRONMENTAL
EXCAVATION APPROX					
DISPOSAL FACILITY:	NA		REMEDIA	TION METHO): _CLUSE AS 15
LANDUSE: RANGE-					
					54 E FROM WELLHEAD.
DEPTH TO GROUNDWATER: >/	NEAREST W.	ATER SOURCE:	>/000	NEAREST SU	RFACE WATER:
NMOCD RANKING SCORE:	2 NMOCD TPH	CLOSURE STD:	5000 PI	РМ	
SOIL AND EXCAVATION	N DESCRIPT	ION:			EAD. = <u>53.3</u> ppm
OOIE AIRD EXOAVATION	N BLOOKII I	1011.		1	AS = <u>/00</u> ppm <u>RF = 0.52</u> 2 am/pm DATE: <u>4//2</u>
SOIL TYPE: SAND SILTY SA			GRAVEL / OTH		
SOIL COLOR: COHESION (ALL OTHERS): NON C	OHESIVE / BLIGHTLY		HESIVE / HIGHLY	COHESIVE	
CONSISTENCY (NON COHESIVE S	DILS): LOOSE / FIRM	/ DENSE / VERY	DENSE		
PLASTICITY (CLAYS): NON PLAST DENSITY (COHESIVE CLAYS & SILT				/ HIGHLY PLASTIC	
MOISTURE: DRY (SLIGHTLY MOIS	MOIST / WET / SAT	TURATED / SUPE			
DISCOLORATION/STAINING OBSERTED OF THE ODOR DETECTED: YES INO		PLANATION -			
SAMPLE TYPE: GRAB / COMPOSIT	E - # OF PTS	— 12 V	17 ~ 7 ~ (10)	disal Dit	Use BACKHOE
ADDITIONAL COMMENTS: デン	814 1N70				
50	MPLINE WI				
SCALE SAMP TO	ME SAMP, ID	LAB NO.	LD 418.1 CALC	7	DILUTION READING CALC. (ppm)
SAMP. II	ME SAMP. ID	LAB NO.	WEIGHT (g)	ml FREON I	JILO HON READING CALC. (ppm)
Og FT					
N PIT PERIME	ER	¬			PIT PROFILE
}			VM DING		
		SAMPLE	FIELD HEADSPACE (ppm)		
12'		1@	(рриу		
	<u> </u>	2 @ 3 @			12
Foil (9)	אין	4 @ 5 @		A	A
A O		C @ 5 1/2	6.0		
	12	4-pt @5/2		52	,
	.)				
4) /	145.0	AMBLEO		
		CAMOLE	AMPLES NALYSIS TIMI	_ E	
		CCSI T	1B/CL 131		
		7-7-6	131	-	
P.D. = PIT DEPRESSION; B.G. = BELO T.H. = TEST HOLE; ~ = APPROX.; T.B.	V GRADE; B = BELOW	/			
TRAVEL NOTES:		1		1/12/12	
CALLOU"	[;		ONSITE: _	+/14/06	



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Buddy 1 - Tank	Date Reported:	04-15-06
Laboratory Number:	36777	Date Sampled:	04-12-06
Chain of Custody No:	14644	Date Received:	04-13-06
Sample Matrix:	Soil	Date Extracted:	04-13-06
Preservative:	Cool	Date Analyzed:	04-15-06
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)	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:

Earthen Pit Closures

C @ 51/2'

Analyst

/ history waters
Review



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Buddy 1 - Tank	Date Reported:	04-15-06
Laboratory Number:	36778	Date Sampled:	04-12-06
Chain of Custody No:	14644	Date Received:	04-13-06
Sample Matrix:	Soil	Date Extracted:	04-13-06
Preservative:	Cool	Date Analyzed:	04-15-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.7	0.2
Diesel Range (C10 - C28)	1.0	0.1
Total Petroleum Hydrocarbons	1.7	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:

Earthen Pit Closures

4-Point @ 51/21

Analyst

(Review Walter



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Buddy 1 - Tank	Date Reported:	04-15-06
Laboratory Number:	36777	Date Sampled:	04-12-06
Chain of Custody:	14644	Date Received:	04-13-06
Sample Matrix:	Soil	Date Analyzed:	04-15-06
Preservative:	Cool	Date Extracted:	04-13-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
	(-33)		
Benzene	2.1	1.8	
Toluene	8.9	1.7	
Ethylbenzene	ND	1.5	
p,m-Xylene	42.7	2.2	
o-Xylene	10.2	1.0	
Total BTEX	63.9		

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:

Earthen Pit Closures C @ 51/2'



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Buddy 1 - Tank	Date Reported:	04-15-06
Laboratory Number:	36778	Date Sampled:	04-12-06
Chain of Custody:	14644	Date Received:	04-13-06
Sample Matrix:	Soil	Date Analyzed:	04-15-06
Preservative:	Cool	Date Extracted:	04-13-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Donomotov	Concentration	Det. Limit	
Parameter	(ug/Kg)	(ug/Kg)	
Benzene	24.8	1.8	
Toluene	174	1.7	
Ethylbenzene	45.7	1.5	
p,m-Xylene	269	2.2	
o-Xylene	60.5	1.0	
Total BTEX	574		

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:

Earthen Pit Closures 4-Point @ 51/2'



Chloride

94034-010 Client: Blagg / Dugan Project #: Sample ID: Buddy 1 - Tank Date Reported: 04-15-06 Lab ID#: 36777 Date Sampled: 04-12-06 Soil Date Received: 04-13-06 Sample Matrix: Preservative: Cool Date Analyzed: 04-13-06 Condition: Cool and Intact Chain of Custody: 14644

Parameter

Concentration (mg/Kg)

Total Chloride

820

Reference:

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

Comments:

Earthen Pit Closures

C @ 51/21

/ Mistine of Wasters Analyst

Allen I. C



Chloride

Client: Sample ID: Blagg / Dugan Buddy 1 - Tank Project #: Date Reported: 94034-010

Lab ID#:

36778

Date Sampled:

04-15-06 04-12-06

Sample Matrix:

Soil

Date Received:

04-13-06

Preservative:

Cool

Date Analyzed:

04-13-06

Condition:

Cool and Intact

Chain of Custody:

14644

Parameter

Concentration (mg/Kg)

Total Chloride

230

Reference:

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

Comments:

Earthen Pit Closures

4-Point @ 51/2'