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

Form C-144

June 1, 2004

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes \(\subseteq \) No \(\subseteq \)

	or below-grade tank Closure of a pit or below-				
Operator: Dugan Production Corp Telephone: (505)325-1821 e-mail address:					
Address: P.O. Box 420, Farmington, New Mexico 87401					
Facility or well name: <u>Chaco No. 3</u> API #: <u>30-045-</u>	22472 U/L or Qtr/Qtr F Sec 1 T 2	<u>4NR9W</u>			
County: San Juan Latitude 36.34601 Longitude	107.74394 NAD: 1927 🔲 1983 🔲 Surface O	Owner Federal 🗷 State 🗌 Private 🗌 Indian 🗍			
Pit	Below-grade tank				
Type: Drilling Production Disposal Volume:bbl Type of fluid:					
Workover Emergency Construction material:					
Lined ☐ Unlined ☑	Double-walled, with leak detection? Yes If				
Liner type: Synthetic Thicknessmil Clay _					
Pit Volume 77 ± bbl					
	Less than 50 feet	(20 points)			
Depth to ground water (vertical distance from bottom of pit to seasonal	50 feet or more, but less than 100 feet	(10 points) 0			
high water elevation of ground water.)	100 feet or more	(0 points)			
W.III. 1	Yes	(20 points)			
Wellhead protection area: (Less than 200 feet from a private domestic	No	(0 points) 0			
water source, or less than 1000 feet from all other water sources.)					
Distance to surface water: (horizontal distance to all wetlands, playas,	Less than 200 feet	(20 points)			
irrigation canals, ditches, and perennial and ephemeral watercourses.)	200 feet or more, but less than 1000 feet	(10 points) 10			
	1000 feet or more	(0 points)			
	Ranking Score (Total Points)	10			
this is a pit closure: (1) attach a diagram of the facility showing the pit's ur are burying in place) onsite offsite If offsite, name of facility mediation start date and end date. (4) Groundwater encountered: No	Yes If yes, show depth below ground surface_	al description of remedial action taken includingft. and attach sample results. (5)			
ach soil sample results and a diagram of sample locations and excavation	IS.	7073			
Additional Comments:		The state of the s			
12' x 12' x 3'± deep unlined production pit, center located 87 feet No	orth 57° West of wellhead.	MAYZIUS			
Use backhoe to dig test trenches across pit and collect samples. Submit of	center & 4-point side composites to laboratory for to	esting.			
·····	<u> </u>	TOP OF THE SHE			
I hereby certify that the information above is true and complete to the best has been/will be constructed or closed according to NMOCD guideling					
Date: 5/17/06 Printed Name/Title Jeffrey C Blagg Agent	Signatura	a C. Mac			
Printed Name/Title <u>Jeffrey C Blagg, Agent</u> Your certification and NMOCD approval of this application/closure does otherwise endanger public health or the environment. Nor does it relieve regulations.	not relieve the operator of liability should the cont the operator of its responsibility for compliance wi	ents of the pit or tank contaminate ground water of the any other federal, state, or local laws and/or			
Approval: CE C GAS INSPECTOR, DIST. OF	Signature emy.	MAY 1 9 2006			
Printed Name/Title	Signature	Date:			



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Chaco 3 - Sep	Date Reported:	05-09-06
Laboratory Number:	37041	Date Sampled:	05-03-06
Chain of Custody No:	14648	Date Received:	05-04-06
Sample Matrix:	Soil	Date Extracted:	05-05-06
Preservative:	Cool	Date Analyzed:	05-08-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1.3	0.2
Diesel Range (C10 - C28)	0.2	0.1
Total Petroleum Hydrocarbons	1.5	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 C@7'.

Muster m Wallers

Slub Wall



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Chaco 3 - Sep	Date Reported:	05-09-06
Laboratory Number:	37042	Date Sampled:	05-03-06
Chain of Custody No:	14648	Date Received:	05-04-06
Sample Matrix:	Soil	Date Extracted:	05-05-06
Preservative:	Cool	Date Analyzed:	05-08-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	6.2	0.2
Diesel Range (C10 - C28)	0.4	0.1
Total Petroleum Hydrocarbons	6.6	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 4 Pt @ 7'.

Mustum Weller Apalyst Deul Winth



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Chaco 3 - Sep	Date Reported:	05-09-06
Laboratory Number:	37041	Date Sampled:	05-03-06
Chain of Custody:	14648	Date Received:	05-04-06
Sample Matrix:	Soil	Date Analyzed:	05-08-06
Preservative:	Cool	Date Extracted:	05-05-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
-	44.0	4.0
Benzene	11.3	1.8
Toluene	170	1.7
Ethylbenzene	76.2	1.5
p,m-Xylene	426	2.2
o-Xylene	131	1.0
Total BTEX	815	

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 C@7'.

Mister of Walters

Slub Would



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	1	Blagg / Dugan	Project #:	94034-010
Sample ID:		Chaco 3 - Sep	Date Reported:	05-09-06
Laboratory Number:	1	37042	Date Sampled:	05-03-06
Chain of Custody:	:	14648	Date Received:	05-04-06
Sample Matrix:		Soil	Date Analyzed:	05-08-06
Preservative:		Cool	Date Extracted:	05-05-06
Condition:		Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Tarameter	(ug/Ng/	(ug/Ng)	
Benzene	361	1.8	
Toluene	1,290	1.7	
Ethylbenzene	498	1.5	
p,m-Xylene	2,790	2.2	
o-Xylene	846	1.0	
Total BTEX	5,790		

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:

Pit Closures 4 Pt @ 7'.

Mister m Walters Analyst

Review



Chloride

Client: Blagg / Dugan Project #: 94034-010 Sample ID: Chaco 3 Sep Date Reported: 05-08-06 Lab ID#: 37041 Date Sampled: 05-03-06 Soil Sample Matrix: Date Received: 05-04-06 Preservative: Cool Date Analyzed: 05-05-06 Condition: Cool and Intact Chain of Custody: 14648

Parameter Concentration (mg/Kg)

Total Chloride

816

Reference:

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

Comments:

Pit Closures C@7'.

Analyst

Review Muster Malter



Chloride

Project #:

Client: Blagg / Dugan
Sample ID: Chaco 3 Sep
Lab ID#: 37042
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

 Date Reported:
 05-08-06

 Date Sampled:
 05-03-06

 Date Received:
 05-04-06

 Date Analyzed:
 05-05-06

 Chain of Custody:
 14648

94034-010

Parameter

Concentration (mg/Kg)

Total Chloride

2,380

Reference:

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

Comments:

Pit Closures 4 Pt @ 7'.

Analyst

Muster mulallars
Review