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 tank covered by a "general plan"? Yes No 🛛

Type of action: Regist	tration of a pit	or below-grade tank Closure of a pit or below	-grade tank 💆
Operator: Dugan Production Corp	Tel	lephone:(505)325-1821e-mail address:	
Address: P.O. Box 420, Farmington, New M	exico 87401		
Facility or well name: McKenzie #1 A	PI #:30-0	045-09401 U/L or Qtr/Qtr <u>B</u> Sec 20	T 30N R 12W
County: San Juan Latitude 36.80322 Lo	ongitude1	08.11874 NAD: 1927 🗌 1983 🔲 Surface O	wner Federal 🔀 State 🗌 Private 🗍 Indian 🗍
Pit		Below-grade tank	
Type: Drilling Production Disposal		Volume:bbl Type of fluid:	
Workover		Construction material:	
Lined Unlined X		Double-walled, with leak detection? Yes I	r not, explain why not.
Liner type: Synthetic Thickness mil Clay			
Pit Volume 77 ± bbl			
Depth to ground water (vertical distance from bottom of p	it to seasonal	Less than 50 feet	(20 points)
high water elevation of ground water.)		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 priv	ate domestic	Yes	(20 points)
water source, or less than 1000 feet from all other water so		No	( 0 points) 0
Notes and a sufficient of the standard district of the standard distric		Less than 200 feet	(20 points)
Distance to surface water: (horizontal distance to all wetla		200 feet or more, but less than 1000 feet	(10 points) 0
irrigation canals, ditches, and perennial and ephemeral wa	itercourses.)	1000 feet or more	( 0 points)
		Ranking Score (Total Points)	0
his is a pit closure: (1) attach a diagram of the facility sh	nowing the pit's	s relationship to other equipment and tanks. (2) Inc	dicate disposal location: (check the onsite box if
ır are burying in place) onsite 🔼 offsite 🔲 If offsite, naı	me of facility_	(3) Attach a gener	ral description of remedial action taken including
nediation start date and end date. (4) Groundwater encoun			
ach soil sample results and a diagram of sample locations			1876.70
Additional Comments:			13 14 13 10 17 TO
12' x 12' x 3'± deep unlined production pit, center loca	ated 72 feet No	orth 71° Fast of wellhead	
Use Backhoe to dig into pit and sample. Pit constructed i			₩ 2006
Collect 4-point composite soil sample from sidewalls and single sample of pit center for laboratory testing.			COLC IN S
See attached field sampling report and laboratory test reports.		of pit center for innovatory testing.	DIST OF STATE
see attached field sampling report and laboratory test repo	лы.	1877	1 2 COURT 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
hereby certify that the information above is true and comnas been/will be constructed or closed according to NM Date: June 13, 2006	plete to the beat 10CD guideling	nes 🔀, a general permit 🔲, or an (attached) alt	hat the above-described pit or below-grade tan ternative OCD-approved plan ☐.
Printed Name/Title Jeff Blagg, Agent		Signature If Slegg	
Your certification and NMOCD approval of this application of the environment. Not regulations.	on/closure does r does it relieve	s not relieve the operator of liability should the con	stents of the pit or tank contaminate ground water with any other federal, state, or local laws and/or
Approval: CEFUTY OIL & GAS INSPECTOR Printed Name/Title	R, DIST.	Signature Demy	JUN 1 5 200

40.042-01401	56.805ZZ x 108.1187	'4		
CLIENT: DUGAN P.O. BOX	GG ENGINEERING, 87, BLOOMFIELD, (505) 632-1199		LOCATION NO:	
FIELD REPORT: PIT CL	OSURE VERIFIC	CATION	PAGE No: of	
LOCATION: NAME: MCKENZIE	WELL #: TYPE:	SEPARATUR	DATE STARTED: 5-23-06	
QUAD/UNIT: B SEC: 20 TWP:30N RN		ST: NY	DATE FINISHED: 5-23-06	
OTR/FOOTAGE: 930 FNL x 1990 FEE	- CONTRACTOR: DPC		SPECIALIST: JCB	
EXCAVATION APPROXFT. >	C <u>WA</u> FT. X <u>WA</u> FT.	DEEP. CUBIC	YARDAGE:O	
DISPOSAL FACILITY: NA	REMEDIAT		CLOSE AS 15	
LANDUSE: RANGE - BLM	LEASE: NM . 024158	FOI	RMATION: DK	
FIELD NOTES & REMARKS: PIT LOG	CATED APPROXIMATELY 72	FT. <u>N</u>	TE FROM WELLHEAD.	
DEPTH TO GROUNDWATER: > 00 NEAREST V	VATER SOURCE: >1000	NEAREST SURFA	CE WATER:	
NMOCD RANKING SCORE: NMOCD TPH	I CLOSURE STD: SOOJ PPN			
SOIL AND EXCAVATION DESCRIP	TION:	OVM CALIB. READ	. = <u>5 2 10</u> ppm = <u>100</u> ppm <u>RF = 0.52</u>	
	<del></del>		ampm DATE: 5/23	
SOIL TYPE: SAND / SILTY SAND / SILT / SILTY	CLAY / CLAY / GRAVEL OTHE	R) BEDROC	K SANDSTONE	
SOIL COLOR: LITE TAN COHESION (ALL OTHERS): NON COHESIVE / SLIGHTL	Y COHESIVE / COHESIVE HIGHLY C	OHESIVE		
CONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM				
PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLAS DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / S	TF.	HIGHLY PLASTIC		
MOISTURE: DRY / SLIGHTLY MOIST MOIST / WET / SA	TURATED / SUPER SATURATED			
DISCOLORATION/STAINING OBSERVED: YES / (6) EX HC ODOR DETECTED: (FE) NO EXPLANATION				
SAMPLE TYPE: GRAB / COMPOSITE - # OF PTS.			W Fig. d I Vida	
ADDITIONAL COMMENTS: Bedrock SAND	STONE USE BACHUE T		it, Excovated into	
· · · · · · · · · · · · · · · · · · ·	mpho.			
SCALE SAVE THE SAVE TO	FIELD 418.1 CALCU	····		
SAMP. TIME SAMP. ID	LAB NO. WEIGHT (g)	mL FREON DIL	UTION READING CALC. (ppm)	
O T FT				
N PIT PERIMETER		F	PIT PROFILE	
1	OVM			
	READING SAMPLE FIELD HEADSPACE	1		
12	1D (ppm) 1 @	1	FILL	
	2 @ 3 @	<u> </u>		
4@ A				
A © 12-A Ce6 2.0 3				
1 4pt 86' 5.1				
TO LAB CAMPUTO				
WELL	LAB SAMPLES	F	EDROCK	
	CEG 1/8/01 083		SANDS TONF	
	4-06 11 0830	<b>(</b>		
P.D. = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELO	w			
P.D. = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELO T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM TRAVEL NOTES:	ONSITE: <u>S</u>			



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

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Separator Pit	Date Reported:	06-01-06
Laboratory Number:	37246	Date Sampled:	05-23-06
Chain of Custody No:	14572	Date Received:	05-24-06
Sample Matrix:	Soil	Date Extracted:	05-26-06
Preservative:	Cool	Date Analyzed:	06-01-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.4	0.2
Diesel Range (C10 - C28)	0.7	0.1
Total Petroleum Hydrocarbons	1.1	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:

McKenzie #1 4-Pt. @ 6'.

Analyst

Mustinem Watley
Review



## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Separator Pit	Date Reported:	06-01-06
Laboratory Number:	37246	Date Sampled:	05-23-06
Chain of Custody:	14572	Date Received:	05-24-06
Sample Matrix:	Soil	Date Analyzed:	06-01-06
Preservative:	Cool	Date Extracted:	05-26-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Dawrana	6.0	4.0	
Benzene Talvana	6.2	1.8	
Toluene	7.6	1.7	
Ethylbenzene	143	1.5	
p,m-Xylene	49.7	2.2	
o-Xylene	3.7	1.0	
Total BTEX	210		

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:** 

McKenzie #1 4-Pt. @ 6'

Analyst P. Opt

Review Walter



## Chloride

Client: Sample ID: Blagg / Dugan Separator Pit 37246 Project #:
Date Reported:
Date Sampled:

94034-010 06-01-06

Lab ID#: Sample Matrix:

Soil Cool Date Sampled: Date Received: Date Analyzed: 05-23-06 05-24-06

Preservative: Condition:

Cool and Intact

Chain of Custody:

05-26-06 14572

**Parameter** 

Concentration (mg/Kg)

**Total Chloride** 

188

Reference:

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

Comments:

McKenzie #1 4-Pt. @ 6'.

Mustine m Walters

Review