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

Type of action: Registration of a pit of	or below-grade tank Closure of a pit or below-grade	de tank 🔀
Operator: Dugan Production Corp Tel	enhone: (505)325-1821 e-mail address:	
Address: P.O. Box 420, Farmington, New Mexico 87401		
Facility or well name: Zappa 91 API #: 30-045-299		R 8W
County: San Juan Latitude 36.11565 Longitude		
<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 Thicknessmil Clay		
Pit Volume 120 ± bbl		
Depth to ground water (vertical distance from bottom of pit 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 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
f this is a pit closure: (1) attach a diagram of the facility showing the pit's		
our are burying in place) onsite 🖾 offsite 🔲 If offsite, name of facility_		
emediation start date and end date. (4) Groundwater encountered: No 🔼		ft. and attach sample results. (5)
ttach soil sample results and a diagram of sample locations and excavation	s.	17100
Additional Comments:	1/12/10	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
15' x 15' x 4'± deep unlined production pit., center located 72 feet So	uth 58° East of wellhead.	
Collect 5 point composite of pit with backhoe from base to 3 feet below b		2005 (2)
See attached field sampling report and laboratory test reports.	TO STECE	
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
I hereby certify that the information above is true and complete to the bes	t of my knowledge and helief. I further confift that	the whole described nit or below-grade tank
has been/will be constructed or closed according to NMOCD guideling	ies , a general permit , or an (attached) afterno	tive OCD-approved plan .
Date: Nov 15, 2005 Printed Name/Title Jeff Blagg, Agent	Signature Aff Slag	5
Your certification and NMOCD approval of this application/closure does	not relieve the operator of liability should the content	s of the pit 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
Americal		1011 1 2 2008
Approval: SEATTY OR. & GAS INSPECTOR, DEST. &	Signatura / Cury	NOV 1 7 2005
Printed Name/Title	Signature	

DU-075- 6777	,	50	1.11565	× 10 (-663	25	
CLIENT: DUGAN	BLAG P.O. BOX		NEERING OMFIELD	•	LOCATION NO:	
		505) 632			COCR NO: 14584	
FIELD REPORT	: PIT CLO	OSURE	VERIF	CATION		i
LOCATION: NAME: ZA	PPA	WELL#:	91 TYPE	SEP	DATE STARTED: 11-2-05	
QUAD/UNIT: A SEC: 27	TWP: 22N RNG:	BW PM: 1	VM CNTY: SJ	ST: MM	DATE FINISHED: 11-2-05	
OTR/FOOTAGE: 790 FN	L× 79U FEL	CONTR	ACTOR: DPC		SPECIALIST: JCS	
EXCAVATION APPROX	<u>//A</u> FT. x	NA FT.	x NA FT	DEEP. CUBI	C YARDAGE:	= 1
DISPOSAL FACILITY:	NΑ		_ REMEDIA	TION METHOD	CLUSE AS (S	
LANDUSE: RANGE - B		LEASE: NA	1-5744	F	ORMATION: FC	
FIELD NOTES & REMAR					58F FROM WELLHEA	۱D.
DEPTH TO GROUNDWATER: >/C					FACE WATER: ->1000	}
NMOCD RANKING SCORE:	NMOCD TPH (CLOSURE STD: _	5000 PF	PM .		1
SOIL AND EXCAVATION	N DESCRIPTI	ION:			AD. = 52 2 ppm	0.50
					S = 100 ppm RF = am/pm DATE: 11-2-05	
SOIL TYPE: SAND SILTY SAN	ND / SILT / SILTY C	LAY / CLAY / C	GRAVEL / OTH			
SOIL COLOR: MEDI COHESION (ALL OTHERS): NON C		COHESIVE / COI	HESIVE / HIGHLY	COHESIVE		
CONSISTENCY (NON COHESIVE SC	DILS): LOOSE FIRM /	DENSE / VERY	DENSE			
PLASTICITY (CLAYS): NON PLASTI DENSITY (COHESIVE CLAYS & SILT				HIGHLY PLASTIC		
MOISTURE: DRY / SLIGHTLY MOIS	T MOIST WET / SATI	URATED / SUPER	SATURATED -	- some Rall	· Precipitation	
DISCOLORATION/STAINING OBSER HC ODOR DETECTED: YES (NO) E	IVED: YES (NO) EXPL	LANATION				
SAMPLE TYPE: GRAB COMPOSIT			<u> </u>		· ,/ D -	
ADDITIONAL COMMENTS:		<u> 15</u> USE 1	SACKHOE Y	Deep c	larther Pit.	
	ı					
SCALE SAMP TO		T	LD 418.1 CALC			
SAMP, TI	ME SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON D	ILUTION READING CALC. (p	pm)
0 FT						
N PIT PERIMET	ΓER	I	<u> </u>	<u> </u>	PIT PROFILE	
			VM			
, , , , , , , , , , , , , , , , , , ,		REA SAMPLE	DING FIELD HEADSPACE	_		
5EP	7	1 @	(ppm)	_		
361	Ţ	2@		-	- 15	
		3 @ 4 @				<u>_</u>
€		5@ 5-Pc	0.0	4		1
	(Cerpsito			\ / 1	l
A 17 00 00	B A	27-				-
3				\exists		
	J	0.44404.5	AMPLES			
(5)		L ID A	VALYSIS TIME			
	İ		ci.			
P.D. = PIT DEPRESSION; B.G. = BELOV	N GRADE: R = BELOW					
T.H. = TEST HOLE; ~ = APPROX.; T.B.	- TANK BOTTOM					
TRAVEL NOTES: CALLOU	г:		_ ONSITE: _	1/2/05		



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Zappa 91	Date Reported:	11-08-05
Laboratory Number:	34902	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)	0.7	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	0.7	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:

Various Pit Closures 5 - Point Composite.

Analyst Wasters

Review Such



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Zappa 91	Date Reported:	11-08-05
Laboratory Number:	34902	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)	it	
D	ND	4.0		
Benzene	ND	1.8		
Toluene	125	1.7		
Ethylbenzene	46.7	1.5		
p,m-Xylene	504	2.2		
o-Xylene	81.6	1.0		
Total BTEX	757			

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
3	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:

Various Pit Closures 5 - Point Composite.

Mister m Wellers
Analyst

Review



Chloride

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Zappa 91	Date Reported:	11-09-05
Lab ID#:	34902	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

266

Reference:

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

Comments:

Various Pit Closures 5 - Point Composite.

Analyst

__*/V/V)(I/ve_/Y*) Review