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

Printed Name/Title

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

Pit or Below-Grade Tank Registration or Closure

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

Type of action: Registration of a pit or below-grade tank \(\subseteq \) Closure of a pit or below-grade tank \(\subseteq \) Dugan Production Corp Telephone: (505)325-1821 e-mail address: Address: P.O. Box 420, Farmington, New Mexico 87401 Facility or well name: Helsinki No. 52 API #: 30-045-27392 U/L or Otr/Otr K Sec 9 T 23N R 10W County: San Juan Latitude 36.24044 Longitude 107.90215 NAD: 1927 1983 Surface 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 \square If not, explain why not. Liner type: Synthetic Thickness mil Clay Pit Volume 103 ± 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 O (10 points) high water elevation of ground water.) 100 feet or more (0 points) Yes (20 points) Wellhead protection area: (Less than 200 feet from a private domestic No (0 points) water source, or less than 1000 feet from all other water sources.) 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) 10 irrigation canals, ditches, and perennial and ephemeral watercourses.) 1000 feet or more (0 points) 10 **Ranking Score (Total Points)** 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 your are burying in place) onsite offsite I 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: 12' x 12' x 4'± deep unlined production pit, center located at approximately 87 Feet South 85° East of wellhead. Use backhoe to collect 5-point composite sample at 6 foot depth for lab testing. Pit excavated in firm sandstone bedrock. OIL CONS. DIV DICT 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 of below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit , or an (attached) alternative OCD-approved plan . January 14, 2008 Printed Name/Title Jeffrey C Blagg, agent Signature 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. Deputy Oil & Gas Inspector, District #3 Approval:

Form C-144 June 1, 2004

,			NEERING		L	OCATION NO	
CLIENT DUGAN	P.O. BOX	87, BLO 505) 632		, NM 874		OCR NO:	3694
FIELD REPORT	: PIT CL	OSURE	VERIF	ICATIO	N PA	4GE No:	of\
LOCATION: NAME: HELS				SEP		ATE STARTED _	12/6/07
quad/unit. K sec. 9	TWP: 23 N RNG	ILOW PM:	NM CNTY: 53	S ST: NM		ATE FINISHED	10/0/01
QTR/FOOTAGE: 2310 FSL	x 2310 FWL	CONTR	RACTOR. 51	ERRA		PECIALIST	JCB
EXCAVATION APPROX.	FT. x	FT.	x FT	. DEEP. CL	JBIC YA	RDAGE:	
LANDUSE: RANGE.		LEASE:	IM 3695	1	FORM	ation: Bis	TI- GAL
FIELD NOTES & REMARK			IMATELY				
DEPTH TO GROUNDWATER >10			> 1000	_	URFACE V	VATER >2	200
NMOCD RANKING SCORE: 10	NMOCD TPH	CLOSURE STD:	1000 PF				
SOIL AND EXCAVATIO	N DESCRIPT	ION:		OVM CALIB.		<u>53.3</u> ppm しい ppm	
	0'-2'			TIME: <u>080</u>	၁၀ am	/pm DATE:	,
SOIL TYPE: SAND (SILTY SAN SOIL COLOR:	SILT / SILTY	CLAY / CLAY /	GRAVEL /OTH	ER) Bride	Rock	55 e z	
COHESION (ALL OTHERS): NON CO	HESIVE / SLIGHTLY	COHESIVE / CO	HESIVE / HIGHLY	COHESIVE	<u></u>		
CONSISTENCY (NON COHESIVE SOL					-10		
PLASTICITY (CLAYS): NON PLASTIC DENSITY (COHESIVE CLAYS & SILTS				/ HIGHLY PLAST	IC		
MOISTURE DRY / SLIGHTLY MOIST	MOIST WET / SA	TURATED / SUPE	ER SATURATED	, D .4	/ /		
DISCOLORATION/STAINING OBSERV	/ED: (YES) NO EXP PLANATION - /	PLANATION M) NON	4 - 6	IN PIT	ر يو سهر	er only	
SAMPLE TYPE. GRAB (COMPOSITE	# OF PTS. 5		12' x 4 't	Malland	AK	()KE	RACHHOE
ADDITIONAL COMMENTS:			DIG INTO				2 / OK / VC
				III AT:0310			
SCALE SAMP. TIM	IE SAMP. ID	LAB NO.	ELD 418.1 CALC WEIGHT (g)		חוו וודי	ONREADING	G CALC. (ppm)
	SMIVIT. ID	LAD NO.	WEIGHT (g)	ML PREON	DIE011	OHREADING	CALC. (ppm)
0 FT							
PIT PERIMET	ER	···			PIT	PROFIL	Ē
			VM ADING				
		SAMPLE	FIELD HEADSPACE				
(12)		1 @	(ppm)	_			
×		2 @ 3 @	<u> </u>	- e-	17	<u>_</u>	
		4 @ 5 @		-		1	
A	12' A'	5-P6 e 6'	71	4		11.16	2
						ا ا	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\downarrow] //	BEDR	LOCK! NOSTON 8	•
			110,50	_	271	U S 1 (J) U	
			AMPLES NALYSIS TIME		೯೬		
			/BTEX 140				
P.D = PIT DEPRESSION; B.G. = BELOW		/		_			
T.H = TEST HOLE; ~ = APPROX.; T.B. = TRAVEL NOTES:		<u> </u>		1. /			——————————————————————————————————————
CALLOUT:		···	ONSITE: _	12/6/0			



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Helsinki #52 Sep	Date Reported:	12-12-07
Laboratory Number:	43828	Date Sampled:	12-06-07
Chain of Custody No:	3694	Date Received:	12-10-07
Sample Matrix:	Soil	Date Extracted:	12-11-07
Preservative:	Cool	Date Analyzed:	12-12-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	102	0.2
Diesel Range (C10 - C28)	832	0.1
Total Petroleum Hydrocarbons	934	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: Unlined Pit Closures.

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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Helsinki #52 Sep	Date Reported:	12-12-07
Laboratory Number:	43828	Date Sampled:	12-06-07
Chain of Custody:	3694	Date Received:	12-10-07
Sample Matrix:	Soil	Date Analyzed:	12-12-07
Preservative:	Cool	Date Extracted:	12-11-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Benzene	35.2	0.9	
Toluene	181	1.0	
Ethylbenzene	167	1.0	
p,m-Xylene	822	1.2	
o-Xylene	210	0.9	
Total BTEX	1,420		

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:

Unlined Pit Closures.

(Analyst

Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client	N/A	Project #:	N/A
Sample ID:	12-12-BTEX QA/QC	Date Reported:	12-12-07
Laboratory Number:	43824	Date Sampled:	N/A
Sample Matrix	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-12-07
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	IIIFCALRE	C-Cal RF; Accept Rang	,. %Diff je:0 - 15%	Blank i Conc	Detecti : ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
Benzene	7.9836E+007	7.9996E+007	0.2%	ND	` 0.1
Toluene	7.6005E+007	7.6157E+007	0.2%	ND	0.1
Ethylbenzene	6.2177E+007	6.2302E+007	0.2%	ND	0.1
p,m-Xylene	1.2027E+008	1.2052E+008	0.2%	ND	0.1
o-Xylene	5.7790E+007	5.7905E+007	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample D	uplicate	%Diff.	Accept Range	Detect. Limit	pry K.J.,
Benzene	217	216	0.2%	0 - 30%	0.9	
Toluene	1,060	1,059	0.1%	0 - 30%	1.0	
Ethylbenzene	874	872	0.2%	0 - 30%	1.0	
p,m-Xylene	2,950	2,940	0.3%	0 - 30%	1.2	
o-Xylene	1,070	1,066	0.4%	0 - 30%	0.9	

Spike Conc. (ug/Kg)	Sample Amo	ount Spiked - Spi	ked Sample	% Recovery	Accept Range
Benzene	217	50.0	266	99.8%	39 - 150
Toluene	1,060	50.0	1,090	98.2%	46 - 148
Ethylbenzene	874	50.0	922	99.8%	32 - 160
p,m-Xylene	2,950	100	3,040	99.6%	46 - 148
o-Xylene	1,070	50.0	1,110	99.1%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using

Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 43824 - 43829.

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EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC		Project #:		N/A
Sample ID:	12-12-07 QA/C	QC	Date Reported:		12-12-07
Laboratory Number:	43824		Date Sampled:		N/A
Sample Matrix:	Methylene Chlori	ide	Date Received:		N/A
Preservative:	N/A		Date Analyzed:		12-12-07
Condition:	N/A		Analysis Reques	ted:	TPH ·
	I-Cal Date	a la company	a and the	o ne	
Gasalina Banga, C5, C10	05-07-07	1.1927E+003	C-Cal-RF: 1.1932E+003	% Difference 0.04%	Accept Range 0 - 15%
Gasoline Range C5 - C10 Diesel Range C10 - C28	05-07-07	1.1927E+003 1.0506E+003	1.1932E+003 1.0510E+003	0.04%	0 - 15% 0 - 15%
Dieser Range C10 - C26	03-07-07	1.0506E+005	1.0510=+003	0.04%	0 - 15%
Blank Conc. (mg/L - mg/Kg		Concentration		Detection Lim	iit }
Gasoline Range C5 - C10	WE SHOW A VIEW OF A LEWIS OF STREET AND A VIEW OF THE PARTY OF THE PAR	ND	10 mm/ 2 mm - 20 mm - 4 mm	0.2	
Diesel Range C10 - C28		ND		0.1	
Total Petroleum Hydrocarbons		ND		0.2	
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range	roma BCF
Gasoline Range C5 - C10	472	471	0.4%	0 - 30%	TELL
Diesel Range C10 - C28	3,510	3,490	0.6%	0 - 30%	
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	472	250	712	98.6%	75 - 125%
Diesel Range C10 - C28	3,510	250	3,740	99.5%	75 - 125%

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:

QA/QC for Samples 43824 - 43829.

Analyst

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