DISTRICT 1625 N. French Dr., Hobbs, NM 88240 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**

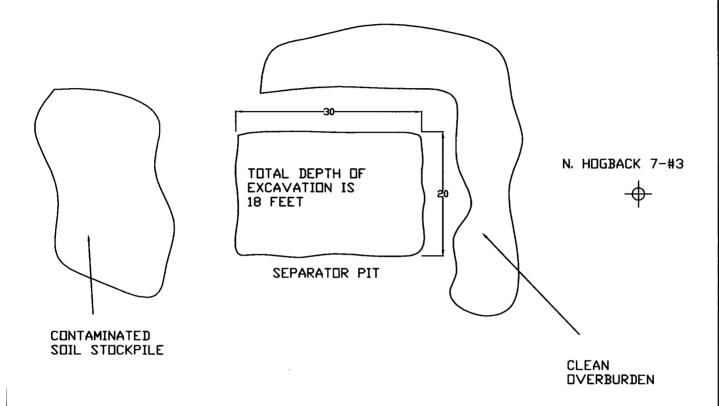
Form C-144 June 1, 2004

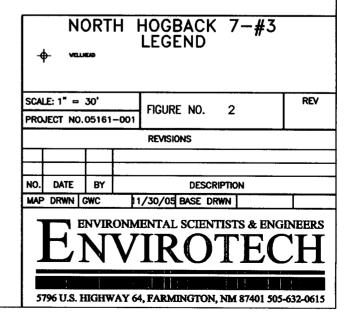
Oil Conservation Division

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office 1220 South St. Francis Dr. Santa Fe, NM 87505

Pit or Below-Grade Tank Registration or Closure		
Is pit or below-grade tank covered by a "general plan"? Yes 🗌 No 🛭  Type of action: Registration of a pit or below-grade tank 📋 Closure of a pit or below-grade tank 🗵		
Type of action. Registration of a pit of	Closure of a private details	
Operator: <u>Duncan Oil</u> Telephone: (303) 759-3		dunçanoil.com
Address: 1777 South Harrison Street - Penthouse One, Denver, Colorado, 8		
Facility or well name: N. Hogback 7 No. 3 API #: 30045214		ļ.
County: San Juan Latitude	36° 44.58' Longitude -108° 34.288'	NAD: 1927 ⊠ 1983 □
Surface Owner: Federal 🔲 State 🔲 Private 🔛 Indian 🔯		1077
Pit	Below-grade tank	AR CAR
Type: Drilling Production Disposal	Volume:bbl Type of fluid:	
Workover	Construction material:	JAN 2006
Lined Unlined 🛛	Double-walled, with leak detection? Yes 🔲 If not,	explain why not.
Liner type: Synthetic Thicknessmil Clay _		explain why not.  OIL  DIN.  DIST. 3
Pit Volumebbl		DIST.3
	Less than 50 feet	(20 points) (20)
Depth to ground water (vertical distance from bottom of pit to seasonal	50 feet or more, but less than 100 feet	(10 points)
high water elevation of ground water.)	100 feet or more	( 0 points) 20
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)
irrigation canals, ditches, and perennial and ephemeral watercourses.)	1000 feet or more	( 0 points) 10
	Ranking Score (Total Points)	30
If this is a pit closure: (1) Attach a diagram of the facility showing the pit's	s relationship to other equipment and tanks. (2) Indica	te disposal location: (check the onsite box if
your are burying in place) onsite 🔲 offsite 🛛 If offsite, name of facility 🔝	Envirotech Landfarm #2 (3) Attach a general desc	ription of remedial action taken including
remediation start date and end date. (4) Groundwater encountered: No 🔲 Y	es If yes, show depth below ground surface	18 ft. and attach sample results.
(5) Attach soil sample results and a diagram of sample locations and excavat		,
Additional Comments:		
Approximately 710 cubic yards of contaminated soil was excavated from t	he North Hogback 7-#3 Separator pit and hauled to En	virotech's Landfarm.
Documentation of BTEX analysis via USEPA Method 8021B is attached f	or the ground water sample.	
Documentation of TPH and OVM results are also attached for the soil same	ples	·
I hereby certify that the information above is true and complete to the best has been/will be constructed or closed according to NMOCD guideline	of my knowledge and belief. I further certify that the	e above-described pit or below-grade tank ive OCD-approved plan □.
, ,	_	
Date: // Y/Ob  Printed Name/Title Stage Fallin Production Manager	Signature State Fall	,
Printed Name/Title Steve Fallin - Production Manager		
Your certification and NMOCD approval of this application/closure does repute otherwise endanger public health or the environment. Nor does it relieve to regulations.	not relieve the operator of liability should the contents he operator of its responsibility for compliance with an	of the pit or tank contaminate ground water or ny other federal, state, or local laws and/or
PUTY ON & GAS INSPECTOR, DIST. &.	7	_







CLIENT: Durkan O. 1	Enviro	OTECH INC.		LOCATION NO:
	5796 U.S. FARMINGTON	SCIENTISTS & ENGINEERS HIGHWAY 64-3014 NEW MEXICO 87401 (505) 632-0615		C.O.C. NO:
FIELD REPOF	CT: CLOSURI	E VERIFIC	CATION	PAGE No: of
LOCATION: NAME: North QUAD/UNIT: SEC:	Hogback 7 WELL #: 7 TWP: 29 N RNG: 161			DATE STARTED: 9/23/05- DATE FINISHED: 9/26/05
QTR/FOOTAGE:	CONTRAC			ENVIRONMENTAL GWC
EXCAVATION APPROX DISPOSAL FACILITY: EN LAND USE: GEAZING / RAT	VIROTECH LF # 2	REMEDIATI	ON METHO	D: LANDFARM
FIELD NOTES & REMARDED BEPTH TO GROUNDWATER: 18'	KS: PIT LOCATED AF	PROXIMATELY	35' FT	270° FROM WELLHEAD.
NMOCD RANKING SCORE: 30 SOIL AND EXCAVATION		D:PPM	<u> </u>	CHECK ONE: PIT ABANDONED STEEL TANK INSTALLED
Separator earth Lanofram # 2  SCALE  O FT	TIME SAMPLE I.D. LA Sec 418.1 Av	FIELD 418.1 CAI B No: WEIGHT (g) arlysis Log on fo	_CULATIONS  ml. freon Di	UTION READING CALC. ppm
PIT PERIM	- I H H	OVM SULTS	PIT	PROFILE
20 x x 35'.	SAMPLE 10 1 BOTTOW 2 NORTH 3 SOUTH 4 GAST 5 WEST EAST WEST LAB SAMPLE 10	FIELD HEADSPACE PID (ppm)  O.O  O.D  II.D  ZII  ITU  S.O  Y.O  SAMPLES  ANALYSIS TIME	O O O O O O O O O O O O O O O O O O O	LOCATIONS
TDAVEL NOTES				
TRAVEL NOTES: CALLOUT	:	ONSITE:		

.



Client:

Duncan Oil

Project #:

05161-001

Sample No.:

Date Reported:

9/26/2005

Sample ID:

Date Sampled:

9/23/2005

Sample Matrix:

Soil

Date Analyzed:

9/23/2005

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

Composite Sample Bottom 18'

		Det.
ļ	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

**Total Petroleum Hydrocarbons** 

52.0

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

North Hogback 7 - #3 Separator Pit

Instrument calibration checked against 100 ppm standard. Zeroed before each sample

ug Calt



Client:

Duncan Oil

Project #:

05161-001

Sample No.:

6

Date Reported:

9/26/2005

Sample ID:

Composite Sample East Wall

Date Sampled:

9/26/2005

Sample Matrix:

Soil

Date Analyzed:

9/26/2005

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

**Total Petroleum Hydrocarbons** 

ug Cubt

40.0

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

North Hogback 7 - #3 Separator Pit

Instrument calibration checked against 100 ppm standard. Zeroed before each sample

Analyst

Review



Client:

Duncan Oil

Project #:

05161-001

Sample No.:

8

Date Reported:

9/26/2005

Sample ID:

Composite Sample North Wall

Date Sampled:

9/26/2005

Sample Matrix:

Soil

Date Analyzed:

9/26/2005

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

#### **Total Petroleum Hydrocarbons**

reg Galt

84.0

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

North Hogback 7 - #3 Separator Pit

Instrument calibration checked against 100 ppm standard. Zeroed before each sample



Client:

**Duncan Oil** 

Project #:

05161-001

Sample No.:

9

Date Reported:

9/26/2005

Sample ID:

Composite Sample West Wall

Date Sampled:

9/23/2005

Sample Matrix:

Soil

Date Analyzed:

9/23/2005

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

## **Total Petroleum Hydrocarbons**

68.0

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

North Hogback 7 - #3 Separator Pit

Instrument calibration checked against 100 ppm standard. Zeroed before each sample

Analyst

Review



Client:

**Duncan Oil** 

Project #:

05161-001

Sample No.:

3

Date Reported:

9/26/2005

Sample ID:

Composite Sample South Wall

Date Sampled:

9/23/2005

Sample Matrix:

Soil

Date Analyzed:

9/23/2005

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

### **Total Petroleum Hydrocarbons**

acy Cabt

556.0

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

North Hogback 7 - #3 Separator Pit

Instrument calibration checked against 100 ppm standard. Zeroed before each sample

Analyst

Review



# EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Duncan Oil	Project #:	05161-001
Sample ID:	N. Hogback 7 #3	Date Reported:	09-27-05
Chain of Custody:	14835	Date Sampled:	09-26-05
Laboratory Number:	34468	Date Received:	09-26-05
Sample Matrix:	Water	Date Analyzed:	09-27-05
Preservative:	Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

			Det.
	Concentration	Dilution	Limit
Parameter	(ug/L)	Factor	(ug/L)
Benzene	0.4	1	0.2
Toluene	3.7	1	0.2
Ethylbenzene	0.5	1	0.2
p,m-Xylene	76.2	1	0.2
o-Xylene	43.2	1	0.1

Total BTEX 124

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	fluorobenzene	99 %
\	1,4-difluorobenzene	99 %
	4-bromochlorobenzene	99 %

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:

Hogback.

Analyst P. Oleman

Mistine of Walters Review