

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

Form C-144
June 1, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

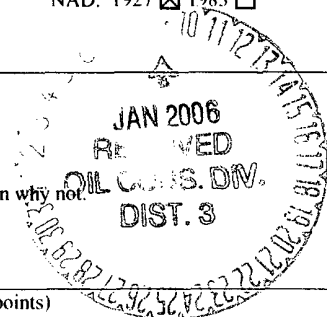
For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes No
Type of action: Registration of a pit or below-grade tank Closure of a pit or below-grade tank

Operator: Duncan Oil Telephone: (303) 759-3303 e-mail address: sfalin@duncanoil.com
Address: 1777 South Harrison Street - Penthouse One, Denver, Colorado, 80210
Facility or well name: N. Hogback 12 No. 1 API #: 3004520045 U/L or Qtr/Qtr H Sec 12 T 29N R 17W
County: San Juan Latitude 36° 44.648' Longitude -108° 34.509' NAD: 1927 1983
Surface Owner: Federal State Private Indian

Pit	Below-grade tank	
Type: Drilling <input type="checkbox"/> Production <input checked="" type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input type="checkbox"/> Unlined <input checked="" type="checkbox"/> Liner type: Synthetic <input type="checkbox"/> Thickness <u> </u> mil Clay <input type="checkbox"/> Pit Volume <u> </u> bbl	Volume: <u> </u> bbl Type of fluid: Construction material: Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not.	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points) 20
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No	(20 points) (0 points) 0
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (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 relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite offsite If offsite, name of facility Envirotech Landfarm #2. (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 12 ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments:
Approximately 1,602 cubic yards of contaminated soil was excavated from the North Hogback 12-#1 Separator pit and hauled to Envirotech's Landfarm.
Documentation of BTEX analysis via USEPA Method 8021B is attached for the ground water sample.
Documentation of TPH and OVM results are also attached for the soil samples
Prior to backfilling, the pit was sprayed with a potassium permanganate solution to further aid in the break down of the residual contamination

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 or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit , or an (attached) alternative OCD-approved plan .

Date: 1/4/06
Printed Name/Title Steve Fallin - Production Manager Signature Steve Fallin

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, DIST. #3
Approval: Jerry Faint Signature Jerry Faint Date: JAN 09 2006

**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	Duncan Oil	Project #:	05161-001
Sample No.:	3	Date Reported:	9/8/2005
Sample ID:	Composit Sample of North Wall	Date Sampled:	9/6/2005
Sample Matrix:	Soil	Date Analyzed:	9/6/2005
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons	4,520.0	<i>OVm</i>	50.0
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290

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 Hogback12 - #1, Separator**

Instrument callibration checked against 200 ppm standard. Zeroed before each sample

Mary Craft

Analyst

Shanna Chast

Review

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Duncan Oil	Project #:	05161-001
Sample No.:	4	Date Reported:	10/10/2005
Sample ID:	Composit Sample of West Wall	Date Sampled:	9/29/2005
Sample Matrix:	Soil	Date Analyzed:	9/29/2005
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons	84.0	5.0
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ND = Parameter not detected at the stated detection limit.

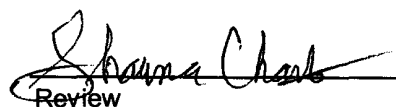
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

OVm 1 ppm

Comments: **North Hogback 12 - #1, Separator**

Instrument callibration checked against 200 ppm standard. Zeroed before each sample


Analyst


Review

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Duncan Oil	Project #:	05161-001
Sample No.:	5	Date Reported:	10/10/2005
Sample ID:	Composit Sample of South Wall	Date Sampled:	9/29/2005
Sample Matrix:	Soil	Date Analyzed:	9/29/2005
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons	264.0	5.0
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ND = Parameter not detected at the stated detection limit.

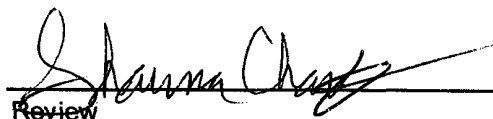
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

OVM 26

Comments: **North Hogback12 - #1, Separator**

Instrument callibration checked against 200 ppm standard. Zeroed before each sample


Analyst


Review

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Duncan Oil	Project #:	05161-001
Sample No.:	6	Date Reported:	10/10/2005
Sample ID:	Composit Sample of North Wall	Date Sampled:	9/29/2005
Sample Matrix:	Soil	Date Analyzed:	9/29/2005
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons	64.0	5.0
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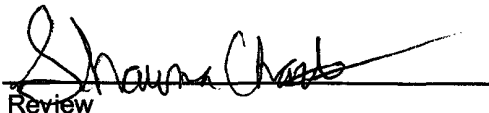
ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **North Hogback12 - #1, Separator** *OVm 3ppm*

Instrument callibration checked against 200 ppm standard. Zeroed before each sample


Analyst


Review

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Duncan Oil	Project #:	05161-001
Sample No.:	4	Date Reported:	10/10/2005
Sample ID:	Composit Sample of South Wall	Date Sampled:	9/29/2005
Sample Matrix:	Soil	Date Analyzed:	9/29/2005
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons	40.0	5.0
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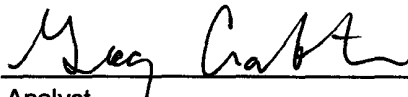
ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

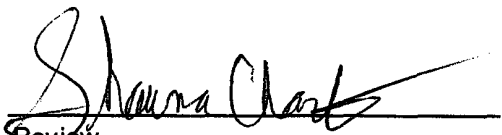
Comments: **North Hogback12 - #1, Separator**

0.1m 8ppm

Instrument callibration checked against 200 ppm standard. Zeroed before each sample



Analyst



Review

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Duncan Oil	Project #:	05161-001
Sample No.:	5	Date Reported:	10/10/2005
Sample ID:	Composit Sample of East Wall	Date Sampled:	9/29/2005
Sample Matrix:	Soil	Date Analyzed:	9/29/2005
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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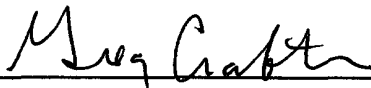
Total Petroleum Hydrocarbons	60.0	5.0
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ND = Parameter not detected at the stated detection limit.

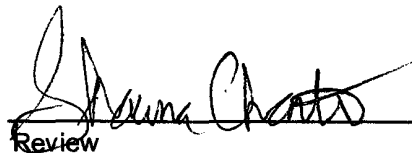
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **North Hogback12 - #1, Separator** *OVM 11 ppm*

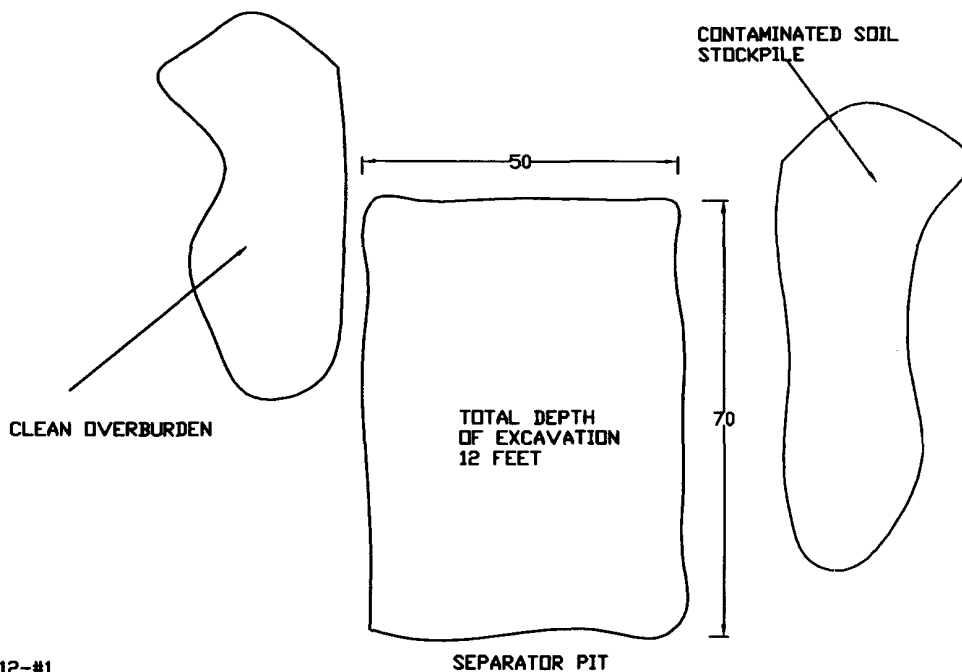
Instrument calibration checked against 200 ppm standard. Zeroed before each sample



Analyst



Review



⊕
N. HOGBACK 12-#1

NORTH HOGBACK 12-#1 LEGEND			
⊕ WELLHEAD			
SCALE: NTS	FIGURE NO. 2	REV	
PROJECT NO. 05161-001			
REVISIONS			
NO.	DATE	BY	DESCRIPTION
MAP DRWN	GWC	12/5/05	BASE DRWN
ENVIRONMENTAL SCIENTISTS & ENGINEERS ENVIROTECH			
5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615			

CLIENT: _____

ENVIROTECH INC.

ENVIRONMENTAL SCIENTISTS & ENGINEERS
5796 U.S. HIGHWAY 64-3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

LOCATION NO: _____

C.O.C. NO: _____

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: N. Hogback 12 WELL #: 1 PIT: Separator
QUAD/UNIT: SE/NE SEC. 12 TWP: 29N RNG: 17W PM: NMPM CNTY: San Juan ST: NM
QTR/FOOTAGE: 1650 FNL 330 FEL CONTRACTOR: _____

DATE STARTED: 9/27
DATE FINISHED: 9/29

ENVIRONMENTAL SPECIALIST: GWC

EXCAVATION APPROX. 70 FT. x 50 FT. x 12 FT. DEEP. CUBIC YARDAGE: 1600
DISPOSAL FACILITY: ENVIROTECH LF #2 REMEDIATION METHOD: Landfarm
LAND USE: Grazing/Range LEASE: _____ FORMATION: _____

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 100 FT. 70° FROM WELLHEAD.
DEPTH TO GROUNDWATER: 12' NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000

NMCD RANKING SCORE: 20 NMCD TPH CLOSURE STD: 100 PPM

CHECK ONE:

- PIT ABANDONED
- STEEL TANK INSTALLED

SOIL AND EXCAVATION DESCRIPTION:

Approximately 1600 yd³ of contaminated soil was excavated and hauled to Envirotech's NMCD permitted Landfarm #2

FIELD 418.1 CALCULATIONS

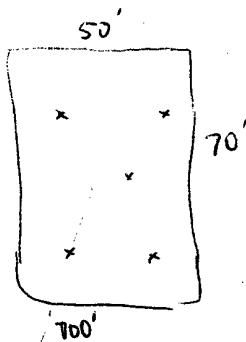
TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
See Attached sheets, Method 418.1 Analysis Log							

SCALE



0 FT

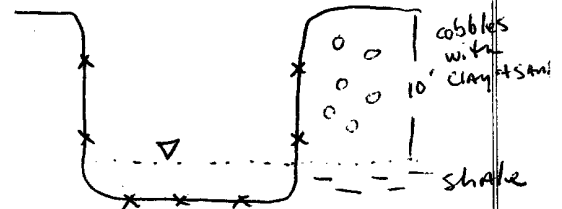
PIT PERIMETER



OVN RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 bottom 12'	6.0
2 South	781
3 East	677
4 North	480 519
5	
North	290
East	430
West	1.0
South	26

PIT PROFILE



LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

x - marks sample locations

TRAVEL NOTES: CALLOUT: _____ ONSITE: _____

LEASE # NA-14-20-0603-10010

**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	Duncan Oil	Project #:	05161-001
Sample No.:	1	Date Reported:	10/10/2005
Sample ID:	Composit Sample of Bottom at 17 feet	Date Sampled:	9/27/2005
Sample Matrix:	Soil	Date Analyzed:	9/27/2005
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons	28.0	5.0
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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.

OVM 6

Comments: **North Hogback12 - #1, Separator**

Instrument calibration checked against 200 ppm standard. Zeroed before each sample


Analyst


Review

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Duncan Oil	Project #:	05161-001
Sample No.:	2	Date Reported:	10/10/2005
Sample ID:	Composit Sample of East Wall	Date Sampled:	9/27/2005
Sample Matrix:	Soil	Date Analyzed:	9/27/2005
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

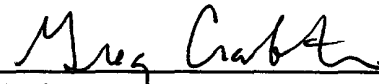
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	1,440.0	50.0

ND = Parameter not detected at the stated detection limit.

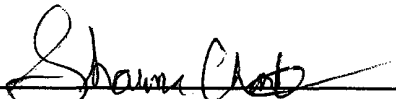
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: *OVM 430*
North Hogback 12 - #1, Separator

Instrument callibration checked against 200 ppm standard. Zeroed before each sample



Analyst



Review