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

Form C-144
June 1, 2004

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: Four Star Oil & Gas Telephone: 505-334-7117 e-mail address: Marcher@chevron.com
Address: 322 County Road 3100, Aztec NM 87410
Facility or well name: HJ LOE Federal B 2R API #: 30-045-22163 U/L or Qtr/Qtr SW/NE Sec 23 T 29N R 12W
County: San Juan Latitude 36.714486 Longitude -108.06691 NAD: 1927 X 1983 ☐
Surface Owner: Federal ☒ State ☐ Private ☐ Indian ☐

Pit	**Below-grade tank**		
Type: Drilling ☐ Production ☒ Disposal ☐ Workover ☐ Emergency ☐ Lined ☐ Unlined ☒ Liner type: Synthetic ☐ Thickness ____mil Clay ☐ Pit Volume 10 bbl	Volume: ____bbl Type of fluid: ____ Construction material: ____ Double-walled, with leak detection? Yes ☐ 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)	0
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)		10

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 ☐ 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:
Soil passed 1000 ppm TPH, 10 ppm Benzene and 50 ppm total BTEX standard.

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: September 7, 2007
Printed Name/Title Michael W. Archer Chevron HES Specialist Signature Michael W. Archer

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.

Approval:
Printed Name/Title Deputy Oil & Gas Inspector, District #3 Signature [signature] Date: 9-5-07

CLIENT: Chevron Texaco

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: H.J. Loe "B" Federal WELL #: 2R PIT:

QUAD/UNIT: SW NE SEC: 23 TWP: 29N RNG: 12W PM: CNTY: SJ ST: NM

QTR/FOOTAGE: CONTRACTOR:

DATE STARTED: 8-10-07

DATE FINISHED: 8-10-07

ENVIRONMENTAL SPECIALIST: R. Kibler

EXCAVATION APPROX. 0 FT. x 0 FT. x 0 FT. DEEP. CUBIC YARDAGE: 0

DISPOSAL FACILITY: N/A REMEDIATION METHOD: N/A

LAND USE: grazing/range LEASE: _____ FORMATION: _____

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 160 FT. 150° FROM WELLHEAD.

DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: 800 Ft

NMOCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 1000 PPM

CHECK ONE:

✓ PIT ABANDONED

___ STEEL TANK INSTALLED

SOIL AND EXCAVATION DESCRIPTION:

5pt composite sample taken from pit bottom

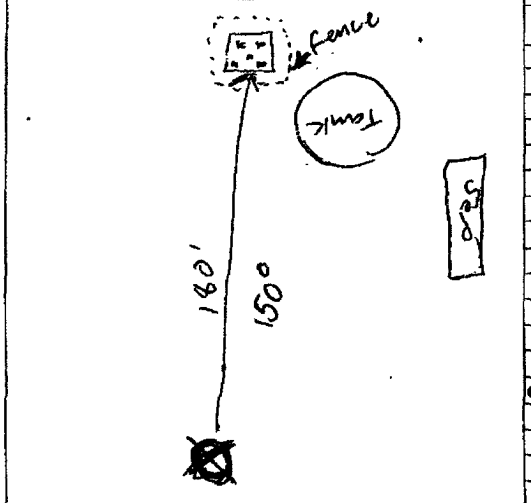
FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SCALE

0 FT

PIT PERIMETER



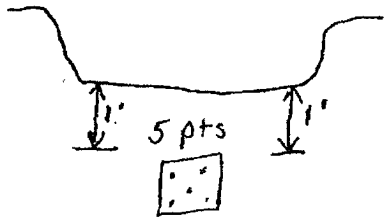
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1	
2	
3	
4	
5	

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
Composite	8015/8021	

PIT PROFILE



TRAVEL NOTES: CALLOUT: _____ ONSITE: _____

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Chevron Texaco	Project #:	92270-160
Sample ID:	Sample 1 Composite @ 1 ft	Date Reported:	08-14-07
Laboratory Number:	42716	Date Sampled:	08-10-07
Chain of Custody No:	3175	Date Received:	08-10-07
Sample Matrix:	Soil	Date Extracted:	08-10-07
Preservative:	Cool	Date Analyzed:	08-14-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**4.5**	**0.1**
Total Petroleum Hydrocarbons	**4.5**	**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: **HJ Loe "B" Federal**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	08-14-07 QA/QC	Date Reported:	08-14-07
Laboratory Number:	42709	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-14-07
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range:
Gasoline Range C5 - C10	05-07-07	9.9960E+002	1.0000E+003	**0.04%**	**0 - 15%**
Diesel Range C10 - C28	05-07-07	9.9960E+002	1.0000E+003	**0.04%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range:
Gasoline Range C5 - C10	**ND**	**ND**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**194**	**193**	**0.6%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample:	Spike Added	Spike Result	% Recovery:	Accept. Range:
Gasoline Range C5 - C10	**ND**	**250**	**250**	**100.0%**	**75 - 125%**
Diesel Range C10 - C28	**194**	**250**	**443**	**99.8%**	**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 42709 - 42713, 42715 - 42718, 42723**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Chevron Texaco	Project #:	92270-160
Sample ID:	Sample 1 Composite @ 1 ft.	Date Reported:	08-14-07
Laboratory Number:	42716	Date Sampled:	08-10-07
Chain of Custody:	3175	Date Received:	08-10-07
Sample Matrix:	Soil	Date Analyzed:	08-14-07
Preservative:	Cool	Date Extracted:	08-10-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**12.3**	**1.0**
Ethylbenzene	**1.2**	**1.0**
p,m-Xylene	**8.2**	**1.2**
o-Xylene	**2.4**	**0.9**
Total BTEX	**24.1**	

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: **HJ Loe "B" Federal**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	08-14-BTEX QA/QC	Date Reported:	08-14-07
Laboratory Number:	42709	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-14-07
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range: 0 - 15%	Blank Conc:	Detect. Limit
Benzene	1.1392E+008	1.1415E+008	0.2%	ND	0.1
Toluene	9.7075E+007	9.7270E+007	0.2%	ND	0.1
Ethylbenzene	7.4908E+007	7.5058E+007	0.2%	ND	0.1
p,m-Xylene	1.4279E+008	1.4308E+008	0.2%	ND	0.1
o-Xylene	6.8420E+007	6.8557E+007	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	8.3	8.2	1.2%	0 - 30%	1.0
Ethylbenzene	3.1	3.1	0.0%	0 - 30%	1.0
p,m-Xylene	6.6	6.5	1.5%	0 - 30%	1.2
o-Xylene	2.4	2.4	0.0%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	8.3	50.0	58.2	99.8%	46 - 148
Ethylbenzene	3.1	50.0	53.0	99.8%	32 - 160
p,m-Xylene	6.6	100	106	99.8%	46 - 148
o-Xylene	2.4	50.0	52.3	99.8%	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 42709 - 42718**

Analyst

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