

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: <u>Chevron USA</u>		Telephone: <u>(432) 687-7123</u>	e-mail address: <u>bailerg@chevron.com</u>
Address: <u>15 Smith Road, Midland, TX 79705</u>			
Facility or well name: <u>Federal G #5</u>	API #: <u>30-045-32420</u>	U/L or Qtr/Qtr <u>P</u> Sec <u>3</u> T <u>31</u> N R <u>7W</u>	
County: <u>San Juan</u>	Latitude <u>36.92310522</u>	Longitude <u>-107.5514656</u>	NAD: 1927 <input checked="" type="checkbox"/> 1983 <input type="checkbox"/>
Surface Owner: Federal <input type="checkbox"/> State <input type="checkbox"/> Private <input checked="" type="checkbox"/> Indian <input type="checkbox"/>			
Pit Type: Drilling <input checked="" type="checkbox"/> Production <input 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>Clay</u> <input type="checkbox"/> Pit Volume <u> </u> bbl	Below-grade tank Volume: <u> </u> bbl Type of fluid: <u> </u> Construction material: <u> </u> Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not. <u> </u>		
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)	
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 you 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:
All liquids were removed, the liner cut at mud level, and the drill pit filled as per current NMOCD regulatory standards.
Prior to closing this drill pit a sample was collected by an environmental scientist and transported to Envirotech's Laboratory where it was analyzed for Total Petroleum Hydrocarbons (TPH), Benzene, Toluene, Ethylbenzene, Xylene (BTEX), and Chloride. Both TPH and BTEX results are below the regulatory standard for this site.

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 <input type="checkbox"/> , a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> .	
Date: <u> </u>	Signature: <u><i>Rodney Bailey</i></u>
Printed Name/Title <u>Mr. Rodney Bailey - Environmental Specialist</u>	
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: <u><i>Branch Roll</i></u>	Date: <u>FEB 12 2008</u>
Printed Name/Title <u>Deputy Oil & Gas Inspector,</u>	
District #3	

CLIENT: _____	ENVIROTECH INC. ENVIRONMENTAL SCIENTISTS & ENGINEERS 5796 U.S. HIGHWAY 64-3014 FARMINGTON, NEW MEXICO 87401 PHONE: (505) 632-0815	LOCATION NO: _____
CHEVRON - HEL		C.O.C. NO: _____

FIELD REPORT: CLOSURE VERIFICATION		PAGE No: _____ of _____
LOCATION: NAME: <u>FEDERAL G</u> WELL #: <u>S</u> PIT.		DATE STARTED: <u>12/18/07</u>
QUAD/UNIT: <u>P</u> SEC: <u>3</u> TWP: <u>31N</u> RNG: <u>7W</u> PM: <u>NM</u> CNTY: <u>SS</u> ST: <u>NM</u>		DATE FINISHED: <u>12/18/07</u>
QTR/FOOTAGE: <u>660' FSL</u> <u>660' FEL</u> CONTRACTOR: _____		ENVIRONMENTAL SPECIALIST: <u>AWH/SMK</u>


EXCAVATION APPROX. _____ FT. x _____ FT. x _____ FT. DEEP.	CUBIC YARDAGE: _____
DISPOSAL FACILITY: _____	REMEDIAATION METHOD: _____
LAND USE: <u>REC</u>	API LEASE: <u>36-045-32420</u> FORMATION: _____

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>45</u> FT. <u>350°</u> FROM WELLHEAD.	
DEPTH TO GROUNDWATER: <u>>100</u>	NEAREST WATER SOURCE: <u>>1000</u> NEAREST SURFACE WATER: <u>>200</u> <u><1000</u>
NMOC D RANKING SCORE: <u>10</u>	NMOC D TPH CLOSURE STD: <u>1000</u> PPM
SOIL AND EXCAVATION DESCRIPTION:	
<div style="text-align: right;">CHECK ONE:</div> <input checked="" type="checkbox"/> PIT ABANDONED <input type="checkbox"/> STEEL TANK INSTALLED	

SAMPLE COLLECTED FROM DRILL PIT

SEE ATTACHED FOR LAB RESULTS

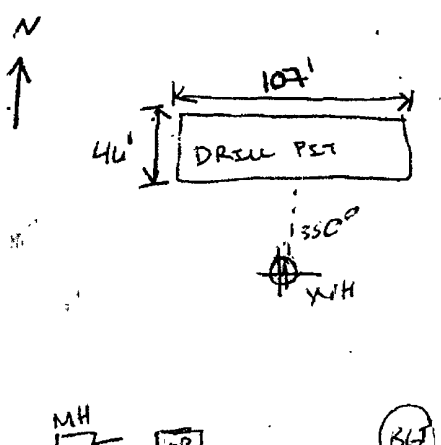

SCALE



0 FT

FIELD 418.1 CALCULATIONS

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

<p style="text-align: center;">PIT PERIMETER</p> 	<p style="text-align: center;">OVM RESULTS</p> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>FIELD HEADSPACE PID (ppm)</th> </tr> </thead> <tbody> <tr><td>1</td><td> </td></tr> <tr><td>2</td><td> </td></tr> <tr><td>3</td><td> </td></tr> <tr><td>4</td><td> </td></tr> <tr><td>5</td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	SAMPLE ID	FIELD HEADSPACE PID (ppm)	1		2		3		4		5												<p style="text-align: center;">PIT PROFILE</p>  <p>X = SAMPLE LOCATION</p>
SAMPLE ID	FIELD HEADSPACE PID (ppm)																							
1																								
2																								
3																								
4																								
5																								
<p style="text-align: center;">LAB SAMPLES</p> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>ANALYSIS</th> <th>TIME</th> </tr> </thead> <tbody> <tr><td>DRILL</td><td>TPH</td><td> </td></tr> <tr><td>DRILL</td><td>BTEX</td><td> </td></tr> <tr><td>DRILL</td><td>CI-</td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>			SAMPLE ID	ANALYSIS	TIME	DRILL	TPH		DRILL	BTEX		DRILL	CI-											
SAMPLE ID	ANALYSIS	TIME																						
DRILL	TPH																							
DRILL	BTEX																							
DRILL	CI-																							

TRAVEL NOTES: _____	CALLOUT: _____	ONSITE: _____
---------------------	----------------	---------------

36.92310 522 -107.5514656

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

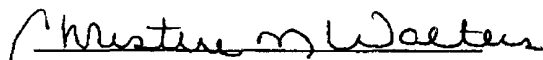
Client:	Chevron	Project #:	92270-211
Sample ID:	Federal G #5	Date Reported:	12-26-07
Laboratory Number:	43902	Date Sampled:	12-19-07
Chain of Custody No:	3733	Date Received:	12-19-07
Sample Matrix:	Soil	Date Extracted:	12-20-07
Preservative:	Cool	Date Analyzed:	12-21-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

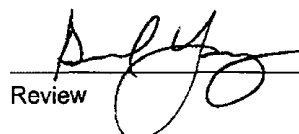
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.5	0.2
Diesel Range (C10 - C28)	314	0.1
Total Petroleum Hydrocarbons	314	0.2

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: **Federal G #5.**


Analyst


Review

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:	12-21-07 QA/QC	Date Reported:	12-26-07
Laboratory Number:	43902	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-21-07
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RE	C-Cal RE	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	9.8541E+002	9.8581E+002	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.1020E+003	1.1024E+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

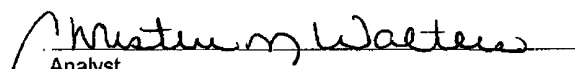
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	0.5	0.5	0.0%	0 - 30%
Diesel Range C10 - C28	314	312	0.6%	0 - 30%

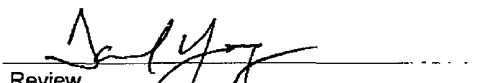
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	0.5	250	250	99.6%	75 - 125%
Diesel Range C10 - C28	314	250	560	99.3%	75 - 125%

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 43902 and 43916 - 43918.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Chevron	Project #:	92270-211
Sample ID:	Federal G #5	Date Reported:	12-27-07
Laboratory Number:	43902	Date Sampled:	12-19-07
Chain of Custody:	3733	Date Received:	12-19-07
Sample Matrix:	Soil	Date Analyzed:	12-27-07
Preservative:	Cool	Date Extracted:	12-27-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	2.6	0.9
Toluene	9.6	1.0
Ethylbenzene	3.4	1.0
p,m-Xylene	9.5	1.2
o-Xylene	4.3	0.9
Total BTEX	29.4	

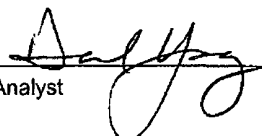
ND - Parameter not detected at the stated detection limit.

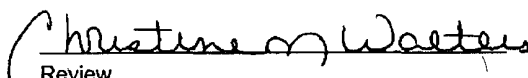
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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: Federal G #5.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	12-27-BTEX QA/QC	Date Reported:	12-27-07
Laboratory Number:	43902	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-27-07
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
			Accept Range 0 - 15%		
Benzene	5.5809E+007	5.5921E+007	0.2%	ND	0.1
Toluene	5.9078E+007	5.9196E+007	0.2%	ND	0.1
Ethylbenzene	4.9712E+007	4.9812E+007	0.2%	ND	0.1
p,m-Xylene	9.5815E+007	9.6007E+007	0.2%	ND	0.1
o-Xylene	4.5861E+007	4.5953E+007	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	2.6	2.6	0.0%	0 - 30%	0.9
Toluene	9.6	9.5	1.0%	0 - 30%	1.0
Ethylbenzene	3.4	3.4	0.0%	0 - 30%	1.0
p,m-Xylene	9.5	9.3	2.1%	0 - 30%	1.2
o-Xylene	4.3	4.2	2.3%	0 - 30%	0.9

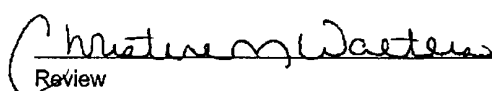
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	%Recovery	Accept Range
Benzene	2.6	50.0	52.4	99.6%	39 - 150
Toluene	9.6	50.0	59.6	100.0%	46 - 148
Ethylbenzene	3.4	50.0	52.9	99.1%	32 - 160
p,m-Xylene	9.5	100	105	95.4%	46 - 148
o-Xylene	4.3	50.0	54.3	100.0%	46 - 148

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 43902 and 43923 - 43925.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Chevron	Project #:	92270-211
Sample ID:	Federal G #5	Date Reported:	12-26-07
Lab ID#:	43902	Date Sampled:	12-19-07
Sample Matrix:	Soil	Date Received:	12-19-07
Preservative:	Cool	Date Analyzed:	12-21-07
Condition:	Cool and Intact	Chain of Custody:	3733

Parameter

Concentration (mg/Kg)

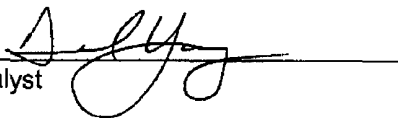
Total Chloride

104

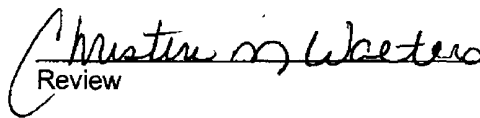
Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Federal G #5.

Analyst



Review



CHAIN OF CUSTODY RECORD

3733

Client: CHEVRON			Project Name / Location: FEDERAL G #5				ANALYSIS / PARAMETERS														
Client Address:			Sampler Name: N. HAYWORTH				TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CI-			Sample Cool	Sample Intact	
Client Phone No.:			Client No.: 92270-211																		
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative H ₂ O ₂ HNO ₃ HCl															
FEDERAL G #5	12/19		4390Z	SOIL	1																
Relinquished by: (Signature) <i>N. Hayworth</i>						Date 12/19/07	Time 1412	Received by: (Signature) <i>Christine M. Watten</i>						Date 12/19/07	Time 1412						
Relinquished by: (Signature)								Received by: (Signature)													
Relinquished by: (Signature)								Received by: (Signature)													
ENVIROTECH INC. 5796 U.S. Highway 64 • Farmington, New Mexico 87401 • (505) 632-0615																					



Rodney Bailey
HES Waste & Water
Specialist

Chevron North America
Exploration and Production
Mid Continent Business Unit/HES
15 Smith Rd
Midland, Texas 79705
Tel 432-894-3519
Fax 866-569-5650
bailerq@chevron.com

Mr. Rodney Bailey
Environmental Specialist
Chevron USA
15 Smith Road
Midland, TX 79705



Project No.92270-211

Phone: (432) 687-7123
Cell: (432) 894-3519

January 2, 2008

Mr. Brandon Powell
New Mexico Oil Conservation Division
1000 Rio Bravo
Aztec, NM 87410

Phone: (505) 334-6178 ext. 15

**RE: SAMPLING AND CLOSURE OF A DRILL PIT LOCATED AT THE FEDERAL G #5 WELL
SITE, SAN JUAN COUNTY, NEW MEXICO**

Dear Mr. Powell,

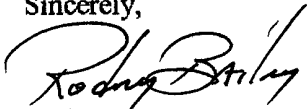
Envirotech has completed sampling of a drill pit located at the Federal G #5 well site, San Juan County, New Mexico. Closure was completed by a third party. Attached to this letter are the field analysis and the C-144 pit closure documentation.

Chevron understands that under current NMOCD regulations a drill pit can be closed without a sample being collected. Closure of a drill pit can occur by removing all liquids, cutting the liner at the mud level and filling the pit with material originally removed to create the pit. Chevron feels that prior to this closure a sample should be taken in order to determine if contamination is present above the regulatory standard.

The site was ranked according to the NMOCD/BLM guidance for unlined surface impoundments. The site was ranked as a 1000 ppm closure for Total Petroleum Hydrocarbons (TPH), 10 ppm Benzene and 50 ppm Benzene, Toluene, Ethylbenzene, and Xylene (BTEX). On December 18, 2007, one (1) composite sample was collected from inside the drill pit. The sample was then placed on ice and transported under chain of custody to Envirotech's Laboratory for analysis by USEPA Method 8015 for TPH and USEPA Method 8021 for BTEX. The sample was also analyzed for Chlorides. The result showed that the material in the drill pit is below the NMOCD regulatory closure standard.

Based on the results from the sampling at the Federal G #5 well site, Envirotech recommends that this drill pit be closed as per current regulations and no further action with regards to this drill pit be taken after closure. If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Rodney Bailey". The signature is fluid and cursive, with the first name "Rodney" being more prominent than the last name "Bailey".

Rodney Bailey

Chevron North America

Exploration & Production Company

Enclosures: C-144
Field Notes
Analytical Results