

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
March 12, 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: H.E.C. PETROLEUM Telephone: 505-327-4573 e-mail address: mpippin@ddbroadband.net

Address: c/o Agent - Mike Pippin LLC, 3104 N. Sullivan, Farmington, NM 87401

Facility or well name: FREEMAN 11 #4 API #: 30-045-31596 U/L or Qtr/Qtr D Sec 11 T 31N R 13W

County: San Juan Latitude _____ Longitude _____ NAD: 1927 ☐ 1983 ☐ Surface Owner Federal ☐ State ☐ Private ☒ Indian ☐

Pit

Type: Drilling ☒ Production ☐ Disposal ☐

Workover ☐ Emergency ☐

Lined ☒ Unlined ☐

Liner type: Synthetic ☐ Thickness 12 mil Clay ☐ Volume

2,571 bbl

Below-grade tank

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

(20 points) X

50 feet or more, but less than 100 feet X

(10 points)

100 feet or more

(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 X

(20 points) X

No

(0 points)

Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)

Less than 200 feet

(20 points)

200 feet or more, but less than 1000 feet X

(10 points) X

1000 feet or more

(0 points)

Ranking Score (Total Points)

50

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:

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.

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: 6/17/04

Printed Name/Title Mike Pippin - Agent - Petroleum Engineer Signature Mike Pippin

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: JUN 18 2004

Date: _____
Printed Name/Title Denny Faut Signature _____

DEPUTY OIL & GAS INSPECTOR, DIST. 505

**M & G DRILLING COMPANY
c/o Mike Pippin LLC
3104 N. Sullivan
Farmington, NM 87401
(505) 327-4573**

6/17/04

**GENERAL DESCRIPTION OF DRILL PIT CLOSING
FREEMAN 11 #4 FRTC D 11 31 13**

Start location rehab & pit closing 5/31/04

1. Take samples of mud/cuttings from the 4 corners of pit.
2. Remove the fencing around the drilling pit.
3. Cut liner off at mud level and haul off to disposal facility.
4. Using track-hoe, mix any soft spots & cover pit with dry soil.
5. Lay back slopes & all disturbed areas.
6. Ripped location for seeding.
7. Plan to disc area & re-seed with BLM mix in 3 weeks.
8. Complete on 6/1/04.

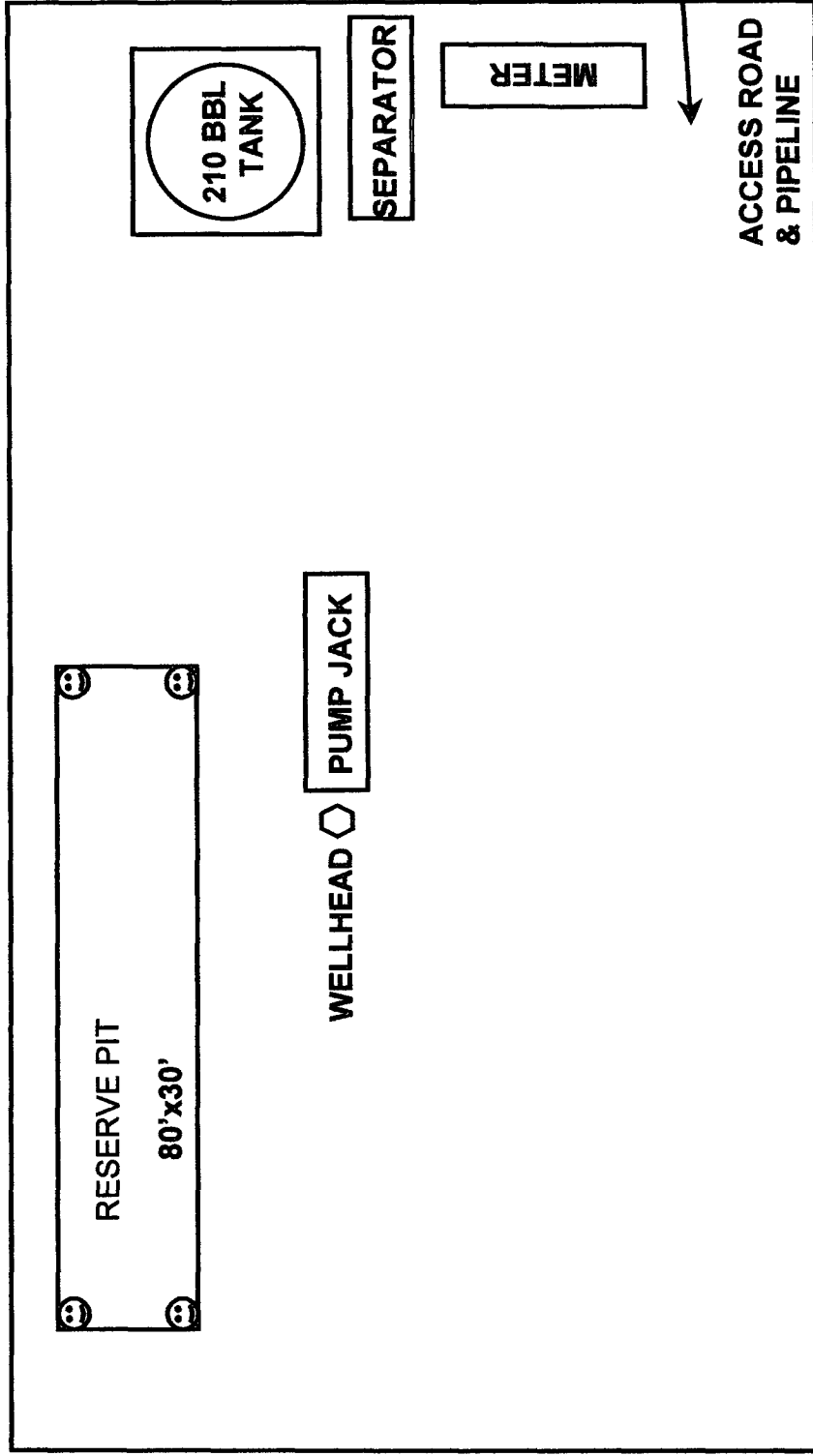
PURE RESOURCES
FREEMAN 11 #4 FRTC
D SEC. 11 T31N R13W
SAN JUAN COUNTY, NM

↑
IRRIGATION
DITCH
~200'

↑
LA PLATA
RIVER
~700'

5/17/04 P.M. PIPPIN

NORTH ↗



☺ SAMPLE LOCATIONS

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

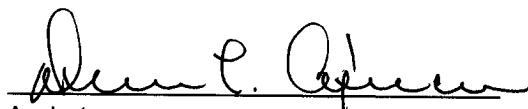
EC, SAR, ESP, CI Analysis

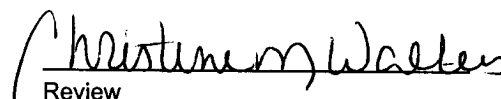
Client:	H.E.C. Petroleum	Project #:	04089-001
Sample ID:	Freeman 11-4	Date Reported:	06-10-04
Laboratory Number:	28965	Date Sampled:	06-03-04
Chain of Custody:	12255	Date Received:	06-07-04
Sample Matrix:	Soil	Date Extracted:	06-09-04
Preservative:	Cool	Date Analyzed:	06-10-04
Condition:	Cool & Intact		

Parameter	Analytical Result	Units
Conductivity @ 25° C	7.31	mmhos/cm
Calcium	110	mg/Kg
Magnesium	49.6	mg/Kg
Sodium	1,260	mg/Kg
Sodium Absorption Ratio (SAR)	35.4	ratio
Exchangeable Sodium Percent (ESP)	33.6	percent
Chloride	2,320	mg/Kg

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.

Comments: **Drilling Pits.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons


Client:	H.E.C. Petroleum	Project #:	04089-001
Sample ID:	Freeman 11-4	Date Reported:	06-10-04
Laboratory Number:	28965	Date Sampled:	06-03-04
Chain of Custody No:	12255	Date Received:	06-07-04
Sample Matrix:	Soil	Date Extracted:	06-09-04
Preservative:	Cool	Date Analyzed:	06-09-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

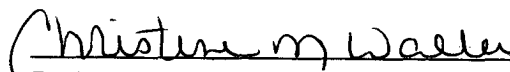
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1.0	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	1.0	0.2

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: **Drilling Pits.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	H.E.C. Petroleum	Project #:	04089-001
Sample ID:	Freeman 11-4	Date Reported:	06-10-04
Laboratory Number:	28965	Date Sampled:	06-03-04
Chain of Custody:	12255	Date Received:	06-07-04
Sample Matrix:	Soil	Date Analyzed:	06-09-04
Preservative:	Cool	Date Extracted:	06-09-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	32.3	1.8
Toluene	88.7	1.7
Ethylbenzene	42.4	1.5
p,m-Xylene	90.1	2.2
o-Xylene	33.9	1.0
Total BTEX	287	

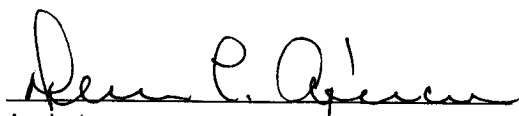
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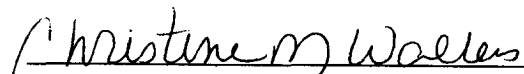
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	95 %
	1,4-difluorobenzene	95 %
	Bromochlorobenzene	95 %

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: Drilling Pits.


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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	H.E.C. Petroleum	Project #:	04089-001
Sample ID:	Freeman 11-4	Date Reported:	06-10-04
Laboratory Number:	28965	Date Sampled:	06-03-04
Chain of Custody:	12255	Date Received:	06-07-04
Sample Matrix:	Soil	Date Analyzed:	06-10-04
Preservative:	Cool	Date Digested:	06-09-04
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.012	0.001	5.0
Barium	0.618	0.001	100
Cadmium	ND	0.001	1.0
Chromium	0.001	0.001	5.0
Lead	0.002	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.007	0.001	1.0
Silver	ND	0.001	5.0

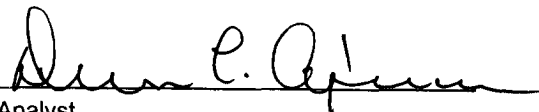
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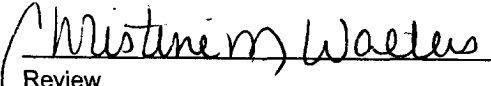
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C
section 261.24, August 24, 1998.

Comments: **Drilling Pits.**


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