

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Sundry Notices and Reports on Wells

DEC 12 PM 2 11
RECEIVED
070 FARRINGTON NM

1. Type of Well
Oil

2. Name of Operator
Vulcan Minerals and Energy Incorporated

3. Address & Phone No. of Operator
c/o NMOCD, 1000 Rio Brazos Road, Aztec, NM 87413

Location of Well, Footage, Sec., T, R, M

1980' FSL and 660' FEL, Sec. 30, T-31-N, R-16-W,

5. Lease Number
14-20-603-734
6. If Indian, All. or
Tribe Name
Navajo
7. Unit Agreement Name
Horseshoe Gallup
8. Well Name & Number
HSGU #46
9. API Well No.
30-045-10326
10. Field and Pool
Gallup
11. County & State
San Juan County, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

☐ Notice of Intent

☒ Subsequent Report

☐ Final Abandonment

Type of Action

☒ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☐ Other -

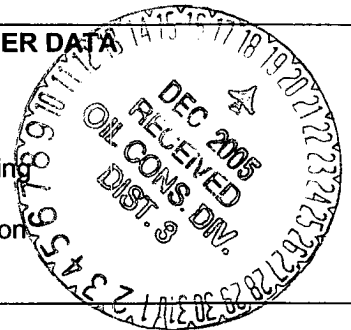
☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut off

☐ Conversion to Injection



13. Describe Proposed or Completed Operations

Historical contamination discovered during clean up at the well bore after plugging was excavated, remediated to standards and returned to the excavation. See attached diagram and analysis.

This well was plugged and abandoned on September 4, 2003.

The surface remediation was completed on October 25, 2004 per the attached reports.

SIGNATURE William F. Clark Contractor December 2, 2005
William F. Clark, President, A-Plus Well Service, as contractor for reclamation fund

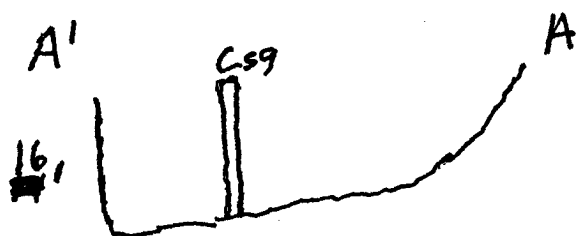
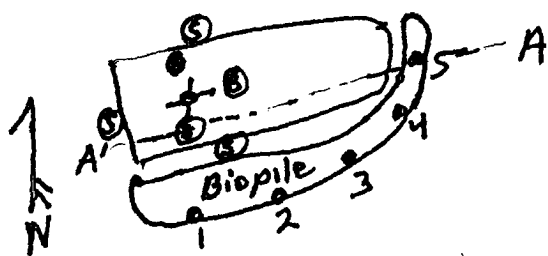
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APPROVED BY May Sam Title Branch Chief Date 12/13/05
CONDITION OF APPROVAL, if any:

NMOCD

1/9

Horseshoe Gallups #46



August 30, 2004: Remove contamination around dry hole marker to ~~16~~ 16' deep.
 Take 3 pt bottom sample as shown above
 Take 3 pt sidewall sample as shown above.

September 15, 2004: Turn biopile with front end loader

October 6, 2004: Turn biopile with front end loader
 Take five point sample of biopile after
 Turning 24" deep.

October 25, 2004: Backfill with remediated material from biopile.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

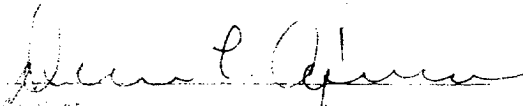
Client:	A - Plus	Project #:	99042-008
Sample ID:	Side Composite @ 16'	Date Reported:	08-31-04
Laboratory Number:	30299	Date Sampled:	08-27-04
Chain of Custody No:	12862	Date Received:	08-27-04
Sample Matrix:	Soil	Date Extracted:	08-30-04
Preservative:	Cool	Date Analyzed:	08-31-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

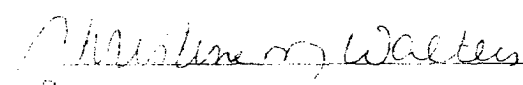
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	2.5	0.2
Diesel Range (C10 - C28)	8.1	0.1
Total Petroleum Hydrocarbons	10.6	0.2

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: Horseshoe Gallup #46.


Analyst


Reviewer

3/9

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

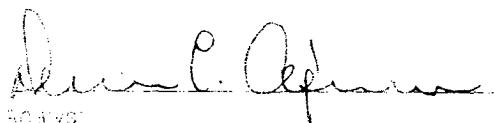
Client:	A - Plus	Project #:	99042-008
Sample ID:	Btm @ 16'	Date Reported:	08-31-04
Laboratory Number:	30300	Date Sampled:	08-27-04
Chain of Custody No:	12862	Date Received:	08-27-04
Sample Matrix:	Soil	Date Extracted:	08-30-04
Preservative:	Cool	Date Analyzed:	08-31-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

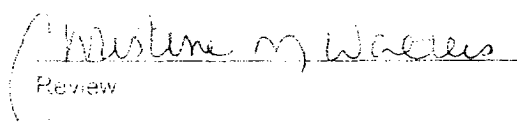
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	21.4	0.2
Diesel Range (C10 - C28)	234	0.1
Total Petroleum Hydrocarbons	255	0.2

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: Horseshoe Gallup #46.


Analyst


Review

4/9

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	A - Plus	Project #:	99042-008
Sample ID:	Side Composite @ 16'	Date Reported:	08-31-04
Laboratory Number:	30299	Date Sampled:	08-27-04
Chain of Custody:	12862	Date Received:	08-27-04
Sample Matrix:	Soil	Date Analyzed:	08-31-04
Preservative:	Cool	Date Extracted:	08-30-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	212	1.8
Toluene	41.3	1.7
Ethylbenzene	60.6	1.5
p,m-Xylene	106	2.2
o-Xylene	80.3	1.0
Total BTEX	500	

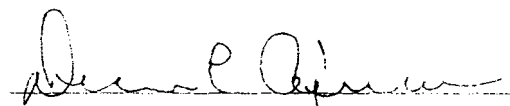
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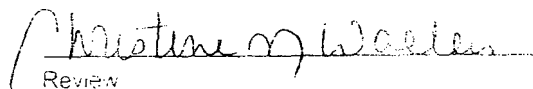
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97 %
	1,4-difluorobenzene	97 %
	Bromochlorobenzene	97 %

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: Horseshoe Gallup #46.


Analyst


Review

5/9

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	A - Plus	Project #:	99042-008
Sample ID:	Btm @ 16'	Date Reported:	08-31-04
Laboratory Number:	30300	Date Sampled:	08-27-04
Chain of Custody:	12862	Date Received:	08-27-04
Sample Matrix:	Soil	Date Analyzed:	08-31-04
Preservative:	Cool	Date Extracted:	08-30-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	13.2	1.7
Ethylbenzene	39.5	1.5
p,m-Xylene	33.7	2.2
o-Xylene	19.8	1.0
Total BTEX	106	

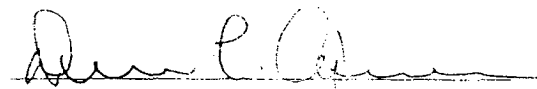
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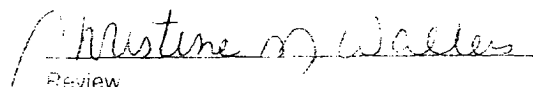
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98 %
	1,4-difluorobenzene	98 %
	Bromochlorobenzene	98 %

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: Horseshoe Gallup #46.


Analyst


Review

6/9

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	A-Plus / OCD	Project #:	99042-008
Sample ID:	HSGU #46 LF	Date Reported:	10-08-04
Laboratory Number:	30891	Date Sampled:	10-06-04
Chain of Custody:	12950	Date Received:	10-06-04
Sample Matrix:	Soil	Date Analyzed:	10-08-04
Preservative:	Cool	Date Extracted:	10-07-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	23.6	1.7
Ethylbenzene	39.8	1.5
p,m-Xylene	122	2.2
o-Xylene	79.7	1.0
Total BTEX	265	

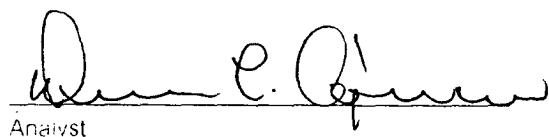
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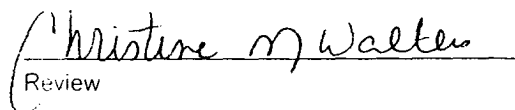
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98 %
	1,4-difluorobenzene	98 %
	Bromochlorobenzene	98 %

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: Horseshoe Gallup #46 & #56.


Analyst


Review

7/9

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

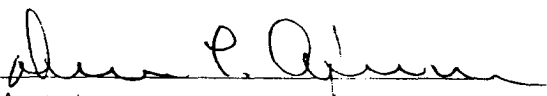
Client:	A-Plus / OCD	Project #:	99042-008
Sample ID:	HSGU #46 LF	Date Reported:	10-08-04
Laboratory Number:	30891	Date Sampled:	10-06-04
Chain of Custody No:	12950	Date Received:	10-06-04
Sample Matrix:	Soil	Date Extracted:	10-07-04
Preservative:	Cool	Date Analyzed:	10-08-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

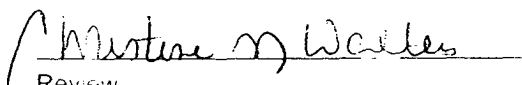
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	76.4	0.2
Diesel Range (C10 - C28)	421	0.1
Total Petroleum Hydrocarbons	497	0.2

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: Horseshoe Gallup #46 & #56.


Analyst


Review

8/9

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	A-Plus / OCD 127 1920704	Project #:	99042-008
Sample ID:	HSGU #82 LF	Date Reported:	10-08-04
Laboratory Number:	30890	Date Sampled:	10-06-04
Chain of Custody No:	12950	Date Received:	10-06-04
Sample Matrix:	Soil	Date Extracted:	10-07-04
Preservative:	Cool	Date Analyzed:	10-08-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

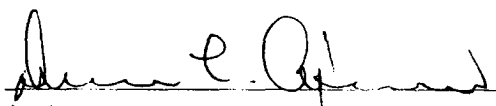
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	32.0	0.2
Diesel Range (C10 - C28)	454	0.1
Total Petroleum Hydrocarbons	486	0.2

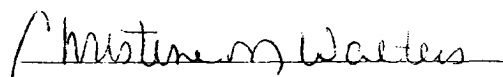
ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Horseshoe Gallup #46 & #56.

9/9


Analyst:


Review