State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe. New Mexico 87504-2088



PIT REMEDIATION AND CLOSURE REPORT

OIL CON. DIV.

Operator:

Taurus (Williams Field Services)

Telephone: (801) 584-6361

Address:

P.O. Box 58900, Salt Lake City, Utah 84158-0900

WellName:

CHENEY FED # 1

(86181)

Location:

Unit or Qtr/Qtr Sec M Sec 8 T 26N R 2W County Rio Arriba

PitType

Dehy

LandType:

BLM

Pit Location: Pit dimensions: length 13ft., width 20ft., depth

(Attach diagram)

Reference: Wellhead

Footage from reference:

84 ft.

Direction from reference:

72 Degrees East of North

Depth To Ground Water:

(Vertical distance from contaminants to seasonal high water elevation of ground water)

Less than 50 feet 50 feet to 99 feet Greater than 100 feet (0 points)

(20 points) (10 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 (20 points) (0 points) No

Distance To Surface Water:

(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)

Less than 200 feet (20 points) 200 feet to 1,000 feet(10 points)

Greater than 1,000 feet(0 points)

Ranking Score (TOTAL POINTS):

 $\underline{0}$

0

Date Remediation Started: 7/31/98

Date Completed: 7/31/98

Remediation Method: Excavation 🔽

Approx. Cubic Yard 20

(check all appropriate

sections)

Landfarmed V

Insitu Bioremediation

Other

Landfarmed soil after mechanical aeration. LF Headspace 7ppm

Remediation Location:

Onsite 🗷 Offsite

(ie. landfarmed onsite, name and location of offsite facility)

General Description Of Remedial Action:

The pit was excavated to remove gross petroleum contamination. The excavated material was mechanically aerated and placed into an onsite landfarm.

Ground Water Encountered:

No

Final Pit:

Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location CHENEY #1-V-EXFL-01

Two samples were collected, one sample from the excavation bottom and the second sample was made up of 4 points from each excavation wall.

Sample depth

Sample date 8/1/98

Sample time 11:14

Sample Result

Benzene (ppm) <0.050

Total BTEX (ppm) 6.015

Field Headspace (ppm)

TPH (ppm) 1770

Ground Water Sample:

No

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 10-11-99 REV

SIGNATURE MA

PRINTED NAME AND TITLE

Mark Harvey for Williams Field Services PROJECT COORDINATOR



Environmental Services P.O. Box 58900 Salt Lake City, UT 84158-0900

Pit Closure and Retirement Addendum- Risk Assessment

Any residual contamination remaining at the Cheney Federal #1 poses low risk to human health and the environment. This conclusion is based in part on the information below:

Toxicity Information

Toxicity values for TPH have not been established due to the variability of the chemical makeup of TPH. Normally, the toxicity is based on the toxicity of the particular constituents of concern which may be present and are evaluated based on health-based standards. The most common constituents examined include benzene, ethylbenzene, toluene, and xylene.

In the absence of constituents of concern or when the concentrations of the constituents of concern are negligible, the acceptable level of TPH is established by considering the following:

- No liquid product should remain in the soil
- The TPH should not harm vegetation
- The TPH concentrations should not create an odor nuisance
- Hydrocarbon vapors which may emanate from the impacted soil should not generate harmful or explosive vapors
- Site monitoring should indicate that TPH levels are stable or declining

While residual TPH and / or BTEX contamination may exist at this site, excavation activities were suspended based on encountering bedrock or production equipment which limited continued safe excavation. Based on the analysis of the soil confirmation sample and the site conditions, closure of this site is warranted for the following reasons:

- 1. Soils which exhibited high levels of TPH and BTEX have been removed.
- 2. Residual TPH concentrations are below levels which would be problematic based on the criteria above.
- Discharge has been eliminated and a steel tank installed to prevent any future release to soils.
- 4. Depth to groundwater is estimated at greater than 100'.
- 5. Vertical migration of contamination is limited due to bedrock and/or the low vertical hydraulic conductivity of underlying soils.
- 6. TPH concentrations will not increase and are likely to degrade over time in-situ.

Since there are no nearby receptors or domestic water sources, this site poses little risk to human health and the environment. Closure is justified based on the relatively low total petroleum hydrocarbon (TPH) concentration and the fact that benzene, toluene, ethylbenzene, and xylene meet applicable closure criteria. Additional information may be found in the Technical Background Document titled: Risk Based Closure of Unlined Surface Impoundment Sites, San Juan Basin, New Mexico.

Date: 7/31/98	PIT RETIREMENT FORM 86181	l Weather <u>Mossi</u> y	- 80 - CLDY - SCAPPLAGO SHIM
Well Name <u>CHENEY FEDERAL# /</u> Oper	ator Tajajs	Sec8T26N_R2L	
and Type: (BLM) STATE FEE	INDIAN	County Rio ARRIBA	
One Call Made (505-765-1234)?	Ø N		
ine Marking Evident?	Ø N .	······································	
THE MICHAEL SEALOCH	, , , , , , , , , , , , , , , , , , ,		1
	N		6 N
Pit Location:			(X)
Reference Wellhead	Other		
Distance from: 84			
Direction: 72 Degrees \times	E N <u>X</u>		
,	of		
	W S	€. Mertery	
	(FEE		
Starting Pit Dimensionsx	12'x 1'	、	
	20' X 2'	$\langle \langle \rangle \rangle$	
	(T)		
Daniel Manage Bandings Chart		SITE SKETCH	
Organic Vapor Readings: Start @ 2'/	soil Description.	SILTY SAND FROCK	
@ 4,		3493/2006	
@ 6'			
@ 8′			
@/			
@			
www.tu	ti-laletenlalell Choole	MACH (
•	nestic Water Well, Stock		
Arroyo, Wash, Li Estimated or Kno	ake, Stream <u>None</u> own Distance to Ground	Water 2100'	
Esimaled of Rik	JWII DISIGNEE TO CIOUNE		•
ource of Backfill (if other than proc	essed material		······································
,			
Samples collected: Type Prog	ress: Verification: ID		soil / water
_		Preservative: ICI	E Other
			
		TRACKING FROM LINE DRIE -	
		OIL IN ON-SITE LANDFARM -	
	SOME STAINING + SOME OF	90R 	
NIII			
	/		
aoun Franca	OCD SITE		
	Soil Shipped to: <u>ومَحِيرَة</u>	KANOFARM	
(pit sketch-show sample pts.)	Prepared by: WLZ	m	

(pit sketch-show sample pts.)

QWAL LABORATORIES, INC.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 9808213

SENT WILLIAMS FIELD SERVICE-MS4JI

TO: P.O. BOX 58900

SALT LAKE CITY, UTAH 84108

MARK HARVEY

PROJECT: JICARILLA DISTRICT '98

Reference Fraction: 9808213-13A

Sample ID: CHENEY #1-V-EXWA-01 / 86181

Sample Date Collected: 08/01/9811:07:00

DATE REPORTED: 08/14/98 DATE COLLECTED: 08/01/98

DATE RECEIVED: 08/07/98

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
BTEX	SW846 8021			3.0		
BENZENE		ND	MG/KG	0.050	08/12/98	JLC
TOLUENE		04104	MG/KG	0.050		
ETHYLBENZENE		0.104	MG/KG	0.050		
TOTAL XYLENES		1.62	MG/KG	0.050		
BFB (SURROGATE)	•	100	125	75	, , .	
TPH	SW846-8015	585	MG/KG	40.0	08/13/98	SKV

ND=NONE DETECTED DL=DETECTION LIMIT SU=STANDARD UNITS B=DETECTED IN METHOD BLANK

TERRY KOESTER LABORATORY DIRECTOR

QWAL LABORATORIES, INC.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 9808213

WILLIAMS FIELD SERVICE-MS4JI SENT

TO: P.O. BOX 58900

SALT LAKE CITY, UTAH 84108

MARK HARVEY

PROJECT: JICARILLA DISTRICT '98

Reference Fraction: 9808213-14A

Sample ID: CHENEY #1-V-EXFL-01 / 86181

Sample Date Collected: 08/01/9811:14:00

DATE REPORTED: 08/14/98

DATE COLLECTED: 08/01/98 DATE RECEIVED: 08/07/98

Sample Matrix:

SOIL

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
BTEX	SW846 8021			3.0		
BENZENE		ND	MG/KG	0.050	08/12/98	JLO
TOLUENE		0.355	MG/KG	0.050	08/12/98	JLO
ETHYLBENZENE		ND	MG/KG	0.050	08/12/98	
TOTAL XYLENES	•	5.66	MG/KG	0.050	•	
BFB (SURROGATE)		124	125	75	,	
TPH	SW846-8015	1770	MG/KG	40.0	08/13/98	SKW

ND=NONE DETECTED DL=DETECTION LIMIT SU=STANDARD UNITS B=DETECTED IN METHOD BLANK

APPROVED BY:

TERRY KOESTER

LABORATORY DIRECTOR

QWAL LABORATORIES, INC.

2911 ROTARY TERRACE, P.O. BOX 562/PITTSBURG, KS 66762/(316)232-1970

LABORATORY REPORT:

REFERENCE #: 9809246

DATE COLLECTED: 09/03/98

SENT WILLIAMS FIELD SERVICE-MS4JI

TO: P.O. BOX 58900

SALT LAKE CITY, UTAH 84108

MARK HARVEY

PROJECT: PIT REMEDIATION '98

Reference Fraction: 9809246-11A

Sample ID: CHENEY FED#1 V-LF-01 / 86181

Sample Date Collected: 09/03/9816:42:00 HS 12

Sample Matrix: So

DATE REPORTED:

DATE RECEIVED:

SOIL

09/11/98

09/05/98

 TEST
 METHOD
 RESULT
 UNITS
 DL
 ANALYZED
 BY

 TPH
 SW846-8015
 970
 MG/KG
 40.0
 09/09/98
 SKW

ND=NONE DETECTED
DL=DETECTION LIMIT
SU=STANDARD UNITS
B=DETECTED IN METHOD BLANK

APPROVED BY:

TERRY KOESTER
LABORATORY DIRECTOR