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

Operator: Dugan Petroleum (Williams Field Services)

Telephone: (801) 584-6361

Address:

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

WellName:

SHERMAN #2 PC

(86945)

Location:

Unit or Qtr/Qtr Sec E Sec T 29N

_> T 29N R 5W

County Rio Arriba

PitType

Dehydrator

LandType:

BLM

Pit Location: Pit dimensions: length 16ft., width 17ft., depth 14ft.

(Attach diagram)

Reference: Wellhead

Footage from reference:

62 ft.

Direction from reference:

100 Degrees East of North

Depth To Ground Water:

(Vertical distance from contaminants to seasonal high water elevation of

ground water)

Less than 50 feet (20 points) 50 feet to 99 feet (10 points)

Greater than 100 feet (0 points) 20

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)

No (0 points)

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): 20

0

0

Date Remediation Started: 9/17/98

Date Completed: 9/17/98

Remediation Method: Excavation 💆

Approx. Cubic Yard 140

(check all appropriate

sections)

Landfarmed -

Insitu Bioremediation -

Other

Landfarmed soil after mechanical aeration. LF Headspace 0ppm

Remediation Location:

Onsite Z 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. Returned to site 2/15/00 and advanced sampling probe to 16' to collect sample. Results: TPH: ND BTEX: ND

Ground Water Encountered:

No

Final Pit:

Closure Sampling:

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

Sample location SHERMANEDWARDS#2PCV-EXFL01

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 14 feet

Sample date 9/18/98

Sample time 10:00

Sample Result

No

Benzene (ppm) <0.050

Total BTEX (ppm) <0.050

Field Headspace (ppm)

TPH (ppm) 16.6

Ground Water Sample:

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

DATE 3-7-00 REV. SIGNATURE MAL

PRINTED NAME Mark Harvey for Williams Field Services AND TITLE

PIT RETIREMENT FORM

Date: 9/17/98	86945	Weather_SUNNY ~754
Well Name SHERMAN #2 PC Ope	rator Ducas	Sec3T_29J_R_5U_UL
Land Type: BLM STATE FEE	INDIAN	County RIO ARRIDA
One Call Made (505-765-1234)?	Ø N	,
	⊗ N	
Line Marking Evident?		MV PIT T
Pit Location:		- E
Reference Wellhead $\overline{\hspace{1em} \hspace{1em} $		WELLHEAD
Distance from: 62	E N 70 WASTO	
Direction: 78 Degrees X	- - 	
	of	Pir
	_W S \	
4.1		
	13 x 2 ½	
Final Pit DimensionsX	<u>17'</u> x <u>14'</u>	N >
		SITE SKETCH
Organic Vapor Readings: Start	Soil Description	1:SILTY SAND
@ 2′ <u> (</u>		11 11
@ 4'	\	11 " W/ COBBIGS
@ 6′ @ 8′	/-	1/ 11
@		" " W/CIAH +ROCK
@ <u>14'</u>		SILTY SAYD W/CLAM + ROCK
		•
Well Proximity To: Residence, Dor	nestic Water Well, Stoc	ck Well
		1 POND - 400 YOS SOUTH -
Estimated or Kn	own Distance to Grour	id Wdieiis-23
Source of Backfill (if other than prod	essed material	
Source of Backiii (ii office friance)		
Samples collected: Type Prog	gress: Verification: ID	SHERMAN EDWARDS TO TO-U-EXIT-OSOID WOTER
	gress: Verification: ID	SHARM AW AD WARDS FEPC-U-EXMA-0150il / water
Prog	gress: Verification: ID	osoil / water
	Hand Carried Other	Preservative: ICE Other
CONTINUE CON		
I II HA		TRON W/ LINE DRIP LOCATED ON WELL PAD-
		od ~ 150 YOS From WASH - OIL STAILING AT
		5 WHERE STAINING SLIGHT - ENCOUNTER DARK
K K		IT LATERALLY TIL MOSTLY REMOVED - FLOOR HAS
MA MANAGER AND	NO TO SLIGHT HYDROLARDO	NODE O 12'- PIT GENERALLY CHENNY
		G ON WEST WALL (AGAINST METER RUN)
7 11 +	CIT TGREAGE + BERM - RI	ane—shego + LF
	0. 11.06-1	
	Soil Shipped to: <u>oa-sm</u>	
(bit sketch-show sample pts.)	Prepared by: 70%, 4	Twy,

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

LABORATORY REPORT:

REFERENCE #: 8402596

DATE REPORTED: 02/23/00

DATE COLLECTED: 02/15/00

DATE RECEIVED: 02/18/00

SENT WILLIAMS PIELD SERVICE

TO: 295 CHIPETA WAY

SALT LAKE CITY, UTAH 84158

MARK HARVEY

PROJECT: WFS/NM-PITS

86945

Reference Fraction:8402596-01A

Sample ID: SHERM#2 PC-EX-RS-01(86945)

Sample Date Collected: 02/15/0011:00:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
TPH-DRO	SW846-8015D OA1/8021B	ND	MG/KG	3.0	02/22/00	BEM
BTEX BENZENE TOLUENE	OAI/ 6021B	ND ND	MG/KG MG/KG	0.050 0.050	02/21/00	KKI
ETHYLBENZENE TOTAL XYLENES		ND ND	MG/KG MG/KG	0.050		
BFB (SURROGATE) QA/QC PACKAGE LEVEL	NONE DO	116 NE .	125 S U	. 75		

ND=NONE DETECTED
PQL=PRACTICAL QUANTITAION LIMIT
SU=STANDARD UNITS
B=DETECTED IN METHOD BLANK

APPROVED BY: TKOSTEK

TERRY KOESTER LABORATORY DIRECTOR

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

LABORATORY REPORT:

REFERENCE #: 9809684

SENT WILLIAMS FIELD SERVICE-MS4JI

TO: P.O. BOX 58900

SALT LAKE CITY, UTAH 84108

MARK HARVEY

PROJECT: CRZ DISTRICT 98

Reference Fraction: 9809684-07A

Sample ID: SHERMANEDWARDS#2PCV-EXFL01 / 86945

Sample Date Collected: 09/18/9810:00:00

DATE REPORTED: 09/28/98

DATE COLLECTED: 09/18/98

DATE RECEIVED: 09/22/98

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH BTEX	SW846-8015 SW846 8021	16.6	MG/KG	2.0	09/25/98	SKW
BENZENE TOLUENE ETHYLBENZENE TOTAL XYLENES BFB (SURROGATE)		ND ND ND ND 121	MG/KG MG/KG MG/KG MG/KG 125	0.050 0.050 0.050 0.050 75	09/23/98 09/23/98	JLC

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

APPROVED BY:

TERRY KOESTER

LABORATORY DIRECTOR

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

LABORATORY REPORT:

REFERENCE #: 9809684

SENT WILLIAMS FIELD SERVICE-MS4JI

TO: P.O. BOX 58900

SALT LAKE CITY, UTAH 84108

MARK HARVEY

PROJECT: CRZ DISTRICT 98

Reference Fraction: 9809684-08A

Sample ID: SHERMANEDWARDS#2PCV-EXWA01

Sample Date Collected: 09/18/9810:00:00

DATE REPORTED: 09/28/98

DATE COLLECTED: 09/18/98

DATE RECEIVED: 09/22/98

Sample Matrix: SOIL

-							
TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY	
TPH BTEX	SW846-8015 SW846 8021	ND	MG/KG	2.0	09/25/98	SKW	
BENZENE TOLUENE ETHYLBENZENE TOTAL XYLENES BFB (SURROGATE)		ND ND ND ND 99	MG/KG MG/KG MG/KG MG/KG 125	0.050 0.050 0.050 0.050 75	09/23/98 09/23/98 09/23/98 09/23/98	JLO JLO	

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

APPROVED BY:

KOESTER

LABORATORY DIRECTOR

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

LABORATORY REPORT:

REFERENCE #: 9811174

SENT WILLIAMS FIELD SERVICE

295 CHIPETA WAY TO:

SALT LAKE CITY, UTAH 84158

MARK HARVEY

PROJECT: CRZ PITS '98

DATE REPORTED: DATE COLLECTED: 11/04/98

11/12/98

DATE RECEIVED: 11/06/98

Reference Fraction: 9811174-02A

Sample ID: SHERMAN #2 PC-V-LF-02

Sample Date Collected: 11/04/9817:25:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	DL		ANALYZED	BY	
ТРН	SW846-8015	17.8	MG/KG		2.0	11/10/98	SKW	J

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

APPROVED BY

ERRY KOESTER

LABORATORY DIRECTOR