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

OIL CON. DIV

Address:

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

WellName:

SHERMAN #2 MV

(86944)

Location:

Unit or Otr/Otr Sec E Sec *T 29N R 5W County Rio Arriba

PitType

Dehydrator

LandType:

BLM

Pit Location: Pit dimensions: length 17ft., width 19ft., depth 13ft.

(Attach diagram)

Reference: Wellhead

Footage from reference:

53 ft.

Direction from reference: 122 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) 0

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

Date Remediation Started: 9/17/98

Date Completed: 9/17/98

Remediation Method: Excavation 🗸

Approx. Cubic Yard 155

(check all appropriate

sections)

Tandfarmed 🗸

Insitu Bioremediation

Other

Landfarmed soil after mechanical aeration. LF Headspace 11ppm

Remediation Location:

Onsite V 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 on 2/15/00 and advanced sampling probe to 16' to collect sample. Results: TPH ND BTEX .09

Ground Water Encountered:

No

Final Pit:

Closure Sampling:

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

Sample location SHERMAN#2MV-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 13 feet

Sample date 9/18/98

Sample time 10:05

Sample Result

Benzene (ppm) <0.050

Total BTEX (ppm) <0.050

Field Headspace (ppm)

TPH (ppm) <40.0

Ground Water Sample:

No

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

3-7-00 REV DATE

SIGNATURE MAS

PRINTED NAME Mark Harvey for Williams Field Services AND TITLE

PIT D	ETIREM	FNT FC	DRM

PII KEIIKEIVIENI PO	
Date: 9/17/98 86944	Weather SUNNY -75°
Well Name SHERMAN #2 MV Operator BUGAN	Sec_3T291/ R54_UL_E
Land Type: (BLM) STATE FEE INDIAN	County Rio ARRIBA
One Call Made (505-765-1234)?	
Line Marking Evident?	
	(mv)
	PIT PIT
Pit Location:	
Reference Wellhead X Other Other	Compressed
Distance from: 53	100
Direction: $1/2/2$ Degrees \times E \times	PIT
of	
W S	
Starting Pit Dimensions —14—x—15—x—3——	,
Final Pit Dimensions <u>17 x 19 x 13</u>	N ×
	SITE SKETCH
Organic Vapor Readings: Start Soil Descripti	On: SILTY SAND
@ 2'	/2 /2
@ 4'	() ()
@ 6' @ 8'	" " 4/6297
@ 10	e ₁ o o
@ <u>13</u>	34 44 74
	tox.
Well Proximity To: Residence, Domestic Water Well, Stranger	
Arroyo, Wash, Lake, Stream <u>La Jae</u> Estimated or Known Distance to Gro	
Estimated of Known Distance to Ore	
Source of Backfill (if other than processed material	
Samples collected: Type Progress: Verification:	ID SHERMAN ZMU-V-EXWA-01 601 / water
Progress: Verification:	ID SHERMAN #ZHV-V-EXFZ-OI 6011 / water
Progress: Verification:	IDsoil / water
Sample sent to Lab Via: Courier Hand Carried Other	Preservative: ICE Other
Sample sem to cas the	
,	3 PITS ON LOCATION - OIL STAINED SOIL OF SURFACED
	ONE BY EXCAVATING - CUT OUT SIDELIALL STAINS -
	- FLOOR CLEAS Q 12' - CUT BEICH + RAMP
STOCKPILE SOIL FOR SHEE	CODINÚ - APPLY FERTILIZER - SHREO - LAMOFARM -
- KUNTAMINA -	
2 2 2	
Soil Shipped to: _od-	5 10 L F
Prepared by:	2
(pit sketch-show sample pts.)	

	- 1	4						
PIT	R	ETI	REN	JEN	I	FO	RN	A

PIT	RETIREMEN	
Date: 9/17/98	86944	Weather SUNNY -75°
Well Name <u>SHEAMON #2 MV</u> Operator_	BUGAN	Sec_3T_29N_R5N_UL
Land Type: BLM STATE FEE INDIA	AN	County RIDARKIGA
One Call Made (505-765-1234)?	N	
Line Marking Evident? $f V$. N	~~
		PIT CERMY
Dit Looglion:		() () () () () () () () () ()
Pit Location: Reference Wellhead <u>X</u> Other		
Reference Wellhead Other Distance from:53		Did Compached
Direction: 122 Degrees XE	N_X_	i pe
of	7	· ".
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Starting Pit Dimensions $\frac{14}{x}$ x $\frac{15}{x}$	(_3	
•	(N
		SITE SKETICH
Organic Vapor Readings: Start	_ Soil Desc	
@ 2'	_	() ()
@ 4'), , ,
@ 6'		11 11
@ 8' @ 10		0 0 ··
@ <u>13</u>	_	ge to te
Arroyo, Wash, Lake, S Estimated or Known D	Stream $\frac{2}{2}$ istance to	Stock Well > 350 405 50 774 A TAKA WASH > 150 405 WEST Ground Water _ 15-25'
Source of Backfill (if other than processed Samples collected: Type Progress: V Progress: V Progress: V	/erification: /erification:	ID SHFFMAN # MU-V-EXFC-01 soil / water
Sample sent to Lab Via: Courier Hand C		ther Preservative: ICE Other
	ente: one	OF 3 PITS ON LOCATION - OIL STAINED SOIL OF SURFACED
		RCMONE BY EXCANATING - CUT OUT STOCKALL STAINS-
0000	ه دیازدد، ساد	~ 9' - FLOOK CLEAN O 12' - CUT GENCH + RAMP
		SHREDDING - APPLY FERTILIZER - SHRED . LANDFORM -
Soil Shi	pped to:_	ON-SITE LF M. Day
(pit skietch-show sample pts.)	red by:	~ /. the

QWAL LABORATORIES, INC.

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

LABORATORY REPORT:

REFERENCE #: 8402596

SENT WILLIAMS FIELD SERVICE

TO: 295 CHIPETA WAY

SALT LAKE CITY, UTAH 84158

MARK HARVEY

PROJECT: WFS/NM-PITS

Reference Fraction:8402596-02A

Sample ID: SHERM#2 MV-EX-RS-01(86944)

Sample Date Collected: 02/15/0011:32:00

DATE REPORTED: 02/23/00 DATE COLLECTED: 02/15/00

DATE RECEIVED: 02/18/00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
TPH-DRO	SW846-8015D	ND	MG/KG	2	02/22/00	BEM
BTEX	OA1/8021B			3.0		
BENZENE	·	0.094	MG/KG	0.050	02/21/00	KKL
TOLUENE		ND	MG/KG	0.050	02/21/00	KKL
		ND	MG/KG	0.050	02/21/00	KKL
ETHYLBENZENE TOTAL XYLENES		ND	MG/KG	0.050	02/21/00	
BFB (SURROGATE)		106	125	. 75		

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

APPROVED BY: TKOESTER.

TERRY KOESTER LABORATORY DIRECTOR

W

QWAL LABORATORIES, INC.

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

LABORATORY REPORT:

REFERENCE #: 9809684

WILLIAMS FIELD SERVICE-MS4JI

TO: P.O. BOX 58900

SALT LAKE CITY, UTAH 84108

MARK HARVEY

PROJECT: CRZ DISTRICT 98

Reference Fraction: 9809684-03A

Sample ID: SHERMAN#2MV-V-EXFL-01 / 86944

Sample Date Collected: 09/18/9810:05:00

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	40.0	09/25/98	SKW
BENZENE TOLUENE ETHYLBENZENE TOTAL XYLENES BFB (SURROGATE)		ND ND ND ND 89	MG/KG MG/KG MG/KG MG/KG 125	0.050 0.050 0.050 0.050 0.050	09/23/98 09/23/98	JLC

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

APPROVED BY:

TERKY KOESTER

LABORATORY DIRECTOR

QWAL LABORATORIES, INC.

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

LABORATORY REPORT:

REFERENCE #: 9809684

SENT WILLIAMS FIELD SERVICE-MS4JI

P.O. BOX 58900

SALT LAKE CITY, UTAH 84108

MARK HARVEY

PROJECT: CRZ DISTRICT 98

DATE REPORTED: 09/28/98

DATE COLLECTED: 09/18/98

DATE RECEIVED: 09/22/98

Reference Fraction: 9809684-04A

Sample ID: SHERMAN#2MV-V-EXWA-01

Sample Date Collected: 09/18/9810:05:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH BTEX	SW846-8015 SW846 8021	13.1	MG/KG	2.0	09/25/98	SKW
BENZENE TOLUENE ETHYLBENZENE TOTAL XYLENES BFB (SURROGATE)		ND ND ND ND 103	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	JLC JLC

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

APPROVED BY:

TERRY KOESTER

LABORATORY DIRECTOR

QUAL LABORATORIES, INC.

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

LABORATORY REPORT:

PEFERENCE #: 9905122

SENT WILLIAMS FIELD SERVICE

295 CHIPETA WAY TO:

SALT LAKE CITY, UTAH 84158

MARI HARVEY

PROJECT: NM PITS

DATE REPORTED: 05/19/99

DATE COLLECTED: 04/29/99

DATE RECEIVED: 05/05/99

Reference Praction:9905122-03A

Sample ID: SHERM #2 (NV) 86944-LF 86944

Sample Date Collected: 04/29/9910:30:00

Sample Matrix: SOIL

TEST	METEOD	RESULT	Dire	PQL		ANALYSED	BY
трн	SW846-8015	84.0	NG/KG	·	2	05/10/99	KKT

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

APPROVED BY:

ABORATORY DIRECTOR