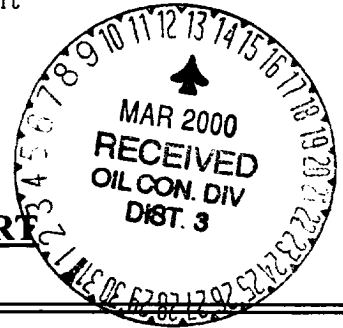


State of New Mexico
Energy, Minerals and Natural Resources Department

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: GRIGSBY FEDERAL #1 (86836)
Location: Unit or Qtr/Qtr Sec D Sec 7 T 25N R 10W County San Juan
PitType Dehydrator
LandType: BLM

Pit Location: Pit dimensions: length 18 ft., width 15 ft., depth 13 ft.
(Attach diagram)

Reference: Wellhead

Footage from reference: 70 ft.

Direction from reference: 250 Degrees East of North

Depth To Ground Water:	Less than 50 feet	(20 points)	
(Vertical distance from	50 feet to 99 feet	(10 points)	
contaminants to seasonal	Greater than 100 feet	(0 points)	0
high water elevation of			
ground water)			

Wellhead Protection Area:	Yes	(20 points)	
(Less than 200 feet from a private	No	(0 points)	0
domestic water source, or; less than			
1000 feet from all other water sources)			

Distance To Surface Water:	Less than 200 feet	(20 points)	
(Horizontal distance to perennial	200 feet to 1,000 feet	(10 points)	
lakes, ponds, rivers, streams, creeks,	Greater than 1,000 feet	(0 points)	0
irrigation canals and ditches)			

Ranking Score (TOTAL POINTS): 0

Date Remediation Started: 10/10/98

Date Completed: 10/10/98

Remediation Method: Excavation ☒

Approx. Cubic Yard 130

(check all appropriate sections)

Landfarmed ☒Insitu Bioremediation ☐

Other LF Headspace 22ppm

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 placed into an onsite landfarm. Returned to site 2/17/00 and advanced sampling probe to 15' to collect sample. Results: TPH ND BTEX 0.12 ppm

Ground Water Encountered: No

Final Pit:

Closure Sampling:

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

Sample location GRIGSBY #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 13 feet

Sample date 10/12/98

Sample time 14:50

Sample Result

Benzene (ppm) <0.050

Total BTEX (ppm) 1.966

Field Headspace (ppm)

TPH (ppm) 106

Ground Water Sample: No

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



PRINTED NAME Mark Harvey for Williams Field Services
AND TITLE

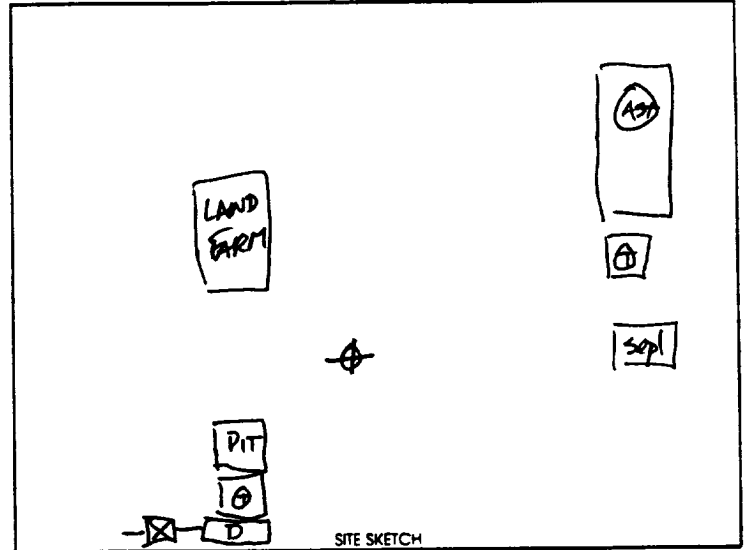
PIT RETIREMENT FORM

Date: 10/10/98 86836. Weather _____
 Well Name GRIGSBY FED #1 Operator DUGAN Sec 7 T 25N R 10W UL D
 Land Type: BLM STATE FEE INDIAN County SAN JUAN
 One Call Made (505-765-1234)? Y N
 Line Marking Evident? Y N

Pit Location:

Reference Wellhead X Other _____
 Distance from: 70
 Direction: 250 Degrees X E N X
 of
 W S

Starting Pit Dimensions 15 x 15 x 2
 Final Pit Dimensions 18 x 15 x 13



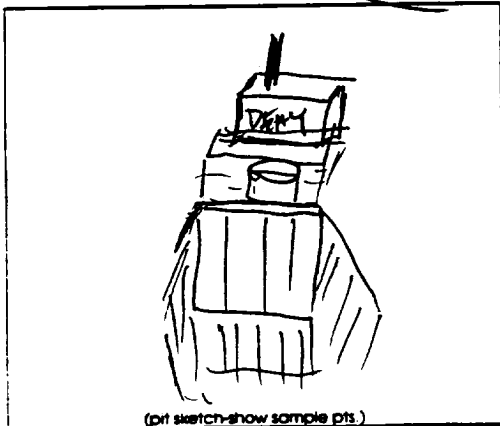
Organic Vapor Readings: Start _____ Soil Description: SAND
 @ 2' _____
 @ 4' _____
 @ 6' _____
 @ 8' _____
 @ 10 _____
 @ 13 _____

Well Proximity To: Residence, Domestic Water Well, Stock Well NONE
 Arroyo, Wash, Lake, Stream MINOR WASH 150 feet WEST
 Estimated or Known Distance to Ground Water >100 feet

Source of Backfill (if other than processed material) _____

Samples collected: Type Progress: Verification: ID GRIGSBY #1-V-EXWA-01 / water
 Progress: Verification: ID GRIGSBY #1-V-EXFL-01 / water
 Progress: Verification: ID _____ soil / water

Sample sent to Lab Via: Courier Hand Carried Other _____ Preservative: ICE Other _____



Comments: EXCAVATED PETROLEUM STAINED
SAILS ~ CLEAN WALLS & FLOOR - EXCAVATED
SOIL WAS PLACED IN LANDFARM -

Soil Shipped to: _____
 Prepared by: ASH

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

DATE REPORTED: 02/23/00
DATE COLLECTED: 02/17/00
DATE RECEIVED: 02/18/00

86836

Reference Fraction: 8402596-17A
Sample ID: GRIGFED#1-EX-RS-01
Sample Date Collected: 02/17/0008:45:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
TPH-DRO	SW846-8015D	ND	MG/KG	2	02/22/00	BEM
BTEX	OAI/8021B			3.0		
BENZENE		ND	MG/KG	0.050	02/21/00	KKL
TOLUENE		0.118	MG/KG	0.050	02/21/00	KKL
ETHYLBENZENE		ND	MG/KG	0.050	02/21/00	KKL
TOTAL XYLENES		ND	MG/KG	0.050	02/21/00	KKL
BFB (SURROGATE)		109	125	75		

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

APPROVED BY: TKOESTER

TERRY KOESTER
LABORATORY DIRECTOR

QWAL LABORATORIES, INC.

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

LABORATORY REPORT:

REFERENCE #: 9810666

SENT WILLIAMS FIELD SERVICE-MS4JI
TO: P.O. BOX 58900
SALT LAKE CITY, UTAH 84108
MARK HARVEY
PROJECT: 98 PIT REMEDIATION

DATE REPORTED: 10/27/98
DATE COLLECTED: 10/12/98
DATE RECEIVED: 10/21/98

Reference Fraction: 9810666-09A
Sample ID: GRIGSBY #1-V-EXPL-01
Sample Date Collected: 10/12/98 14:50:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH	SW846-8015	106	MG/KG	2.0	10/23/98	SKW
BTEX	SW846 8021			3.0		
BENZENE		ND	MG/KG	0.050	10/24/98	JLO
TOLUENE		0.064	MG/KG	0.050	10/24/98	JLO
ETHYLBENZENE		0.122	MG/KG	0.050	10/24/98	JLO
TOTAL XYLENES		1.78	MG/KG	0.050	10/24/98	JLO
BFB (SURROGATE)		79	125	75		

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 #: 9811260

SENT WILLIAMS FIELD SERVICE
TO: 295 CHIPETA WAY
SALT LAKE CITY, UTAH 84158
MARK HARVEY

DATE REPORTED: 11/18/98
DATE COLLECTED: 11/05/98
DATE RECEIVED: 11/10/98

PROJECT: JICARILLA DISTRICT 98

Reference Fraction: 9811260-03A

Sample ID: GRIGSBY FED#1-V-LF-01

Sample Matrix: SOIL

Sample Date Collected: 11/05/98 16:15:00

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH	SW846-8015	1700	MG/KG	2.0	11/13/98	SKW
BTEX	SW846 8021			3.0		
BENZENE		ND	MG/KG	0.050	11/12/98	JLO
TOLUENE		0.069	MG/KG	0.050	11/12/98	JLO
ETHYLBENZENE		ND	MG/KG	0.050	11/12/98	JLO
TOTAL XYLENES		0.129	MG/KG	0.050	11/12/98	JLO
BFB (SURROGATE)		92	125	75		

ND=NONE DETECTED

DL=DETECTION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY: 

TERRY ROESTER
LABORATORY DIRECTOR