

Denny E. Faust
DEPUTY OIL & GAS INSPECTOR

AUG 19 1999

State of New Mexico
Geology, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

NO BTEX - LF
Sample date = 45 days

Probed to 28"

RECEIVED
MAY 27 1999

PIT REMEDIATION AND CLOSURE REPORT

OIL CON. DIV.
DIST. 3

Operator: Dugan Petroleum (Williams Field Services) Telephone: (801) 584-6361
Address: P.O. Box 58900, Salt Lake City, Utah 84158-0900
WellName: SHERMAN EDWARDS #2B PC (85035)
Location: Unit or Qtr/Qtr Sec N Sec 3 T 29N R 5W County Rio Arriba
PitType Dehydrator
LandType: BLM

Pit Location: Pit dimensions: length 24 ft., width 20 ft., depth 11 ft.
(Attach diagram)

Reference: Wellhead

Footage from reference: 104 ft.

Direction from reference: 76 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) <u>20</u>
high water elevation of		
ground water)		

Wellhead Protection Area:	Yes	(20 points)
(Less than 200 feet from a private	No	(0 points) <u>0</u>
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) <u>0</u>
irrigation canals and ditches)		

Ranking Score (TOTAL POINTS): 20

Date Remediation Started: 9/17/98

Date Completed: 9/17/98

Remediation Method: Excavation ☒

Approx. Cubic Yard 195

(check all appropriate
sections)Landfarmed ☒Insitu Bioremediation ☐

Other Landfarmed soil after mechanical aeration.

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: 0

Final Pit:

Closure Sampling:

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

Sample location SHERMAN EDWARDS #2B-V-PRO1

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 11'

Sample date 11/4/98

Sample time 18:08

Sample Result

Benzene (ppm) <0.050

Total BTEX (ppm) <0.050

Field Headspace (ppm)

TPH (ppm) <2.0

Ground Water Sample: 0

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

DATE 5-20-99

SIGNATURE PRINTED NAME Mark Harvey for Williams Field Services
AND TITLE

PIT RETIREMENT FORM

85035

Date: 9/12/98

Weather SUNNY - 78°

Well Name SHERMAN EDWARDS #2B Operator DUGAN

Sec 3 T29N R5W UL SW/4 SE/4

Land Type: BLM STATE FEE INDIAN

County RIO ARriba

One Call Made (505-765-1234)? ☒ N

Line Marking Evident? ☒ N

Pit Location:

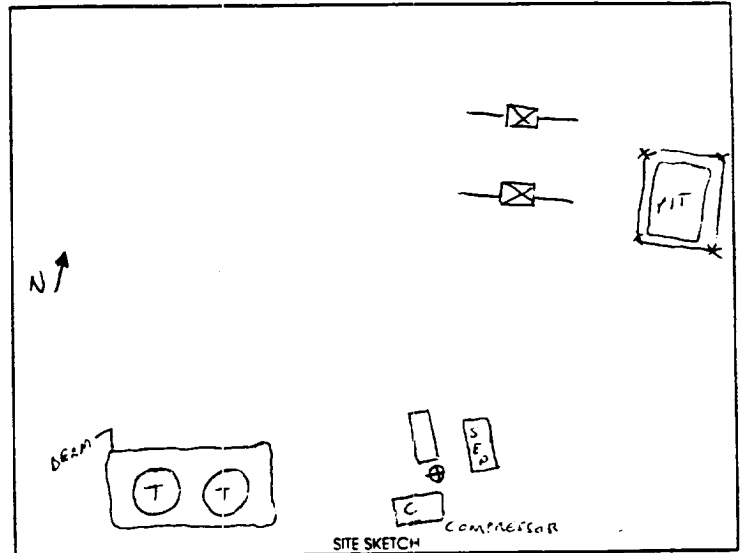
Reference Wellhead ☒ Other ☐

Distance from: 104'

Direction: 76 Degrees ☒ E ☒ N ☒ W ☒ S

Starting Pit Dimensions 16' x 18' x 3'

Final Pit Dimensions 20' x 24' x 11'



Organic Vapor Readings: Start
 @ 2'
 @ 4'
 @ 6'
 @ 8'
 @ 10'
 @

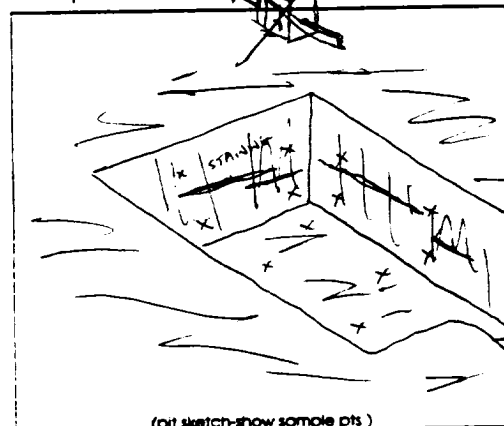
Soil Description: SILTY SAND

Well Proximity To: Residence, Domestic Water Well, Stock Well NONE
 Arroyo, Wash, Lake, Stream LA JARA WASH ~ 200 YDS
 Estimated or Known Distance to Ground Water 25-50'

Source of Backfill (if other than processed material)

Samples collected: Type Progress: Verification: ID soil / water
 Progress: Verification: ID soil / water
 Progress: Verification: ID soil / water

Sample sent to Lab via: ☒ Courier Hand Carried ☐ Other Preservative: ICE Other



Comments: OILY SOIL NEAR SURFACE - EXCAVATE + MIX SOIL -
SOME STAINING @ 6' - EXPAND EXCAVATION LATERALLY - FLOOR
CLEAN @ 10' - WALLS HAVE "BATHUR" RING STAIN @ ~ 6' - STOCKPILE +
SHRED - LANDFARM SOIL AFTER SPRAYING W/ FERTILIZER - FLOOR SAMPLE
HOT - PROBE ON 11-4-98 TO 28" BELOW FLOOR - REFUSAL - COLLECT SAMPLE
+ ANALYZE - NO RESULT - AWAIT LF RESULTS

Soil Shipped to:

Prepared by: M J [Signature]

Q W A L L A B O R A T O R I E S, I N C.

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

DATE REPORTED: 09/28/98
DATE COLLECTED: 09/18/98
DATE RECEIVED: 09/22/98

PROJECT: CRZ DISTRICT 98

Reference Fraction: 9809684-06A

Sample ID: SHERMANEDWARDS#2B-V-EXWA01

Sample Matrix: SOIL

Sample Date Collected: 09/18/98 10:20:00

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH	SW846-8015	ND	MG/KG	2.0	09/25/98	SKW
BTEX	SW846 8021			3.0		
BENZENE		ND	MG/KG	0.050	09/23/98	JLO
TOLUENE		ND	MG/KG	0.050	09/23/98	JLO
ETHYLBENZENE		ND	MG/KG	0.050	09/23/98	JLO
TOTAL XYLENES		ND	MG/KG	0.050	09/23/98	JLO
BFB (SURROGATE)		106	125	75		

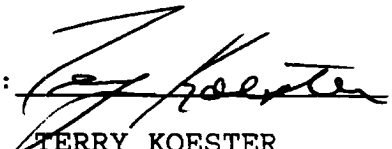
·NONE DETECTED

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 #: 9811174

SENT WILLIAMS FIELD SERVICE
TO: 295 CHIPETA WAY
SALT LAKE CITY, UTAH 84158
MARK HARVEY
PROJECT: CRZ PITS '98

DATE REPORTED: 11/19/98
DATE COLLECTED: 11/04/98
DATE RECEIVED: 11/06/98

Reference Fraction: 9811174-06A
Sample ID: SHERMAN EDWARDS #2B-V-PR01
Sample Date Collected: 11/04/98 18:08:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH	SW846-8015	ND	MG/KG	2.0	11/18/98	SKW
BTEX	SW846 8021			3.0		
BENZENE		ND	MG/KG	0.050	11/12/98	JLO
TOLUENE		ND	MG/KG	0.050	11/12/98	JLO
ETHYLBENZENE		ND	MG/KG	0.050	11/12/98	JLO
TOTAL XYLENES		ND	MG/KG	0.050	11/12/98	JLO
BFB (SURROGATE)		111	125	75		

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

APPROVED BY:


TERRY KOESTER
LABORATORY DIRECTOR

PROBE SAMPLE

Q W A L L A B O R A T O R I E S , I N C .

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

DATE REPORTED: 09/28/98
 DATE COLLECTED: 09/18/98
 DATE RECEIVED: 09/22/98

PROJECT: CRZ DISTRICT 98

(CV#1 10)

Reference Fraction: 9809684-05A

Sample ID: **SHERMANEDWARDS#2B-V-EXFL01 / 85035** Sample Matrix: **SOIL**
 Sample Date Collected: 09/18/98 10:20:00

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH	SW846-8015	504	MG/KG	2.0	09/25/98	SKW
BTEX	SW846 8021			3.0		
BENZENE		ND	MG/KG	0.050	09/23/98	JLO
TOLUENE		ND	MG/KG	0.050	09/23/98	JLO
ETHYLBENZENE		ND	MG/KG	0.050	09/23/98	JLO
TOTAL XYLENES		0.122	MG/KG	0.050	09/23/98	JLO
BFB (SURROGATE)		109	125	75		

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

APPROVED BY:

Terry Koester
TERRY KOESTER
 LABORATORY DIRECTOR

Q W A L L A B O R A T O R I N S , I N C .

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

LABORATORY REPORT:**REFERENCE #:** 9905122

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

DATE REPORTED: 05/19/99
DATE COLLECTED: 04/29/99
DATE RECEIVED: 05/05/99

Reference Fraction: 9905122-05A**Sample ID: SHERM ED 2B 85036-LF 85036****Sample Matrix: SOIL****Sample Date Collected: 04/29/99 10:50:00**

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED BY
TPH	SW846-8015	8.07	MG/KG	2	05/10/99 KKL

ND=NONE DETECTED**PQL=PRACTICAL QUANTITAION LIMIT****SU=STANDARD UNITS****B=DETECTED IN METHOD BLANK****APPROVED BY:**


TERRY KOESTER
LABORATORY DIRECTOR