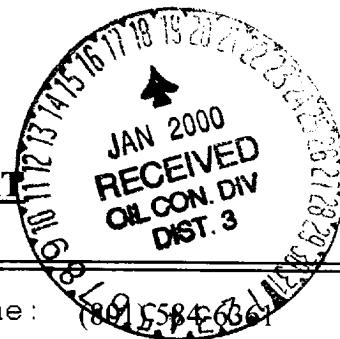


State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

PIT REMEDIATION AND CLOSURE REPORT



Operator: Williams Production Co. (Williams Field Services) Telephone: (801) 584-6364
Address: P.O. Box 58900, Salt Lake City, Utah 84158-0900
WellName: COX CANYON #20 (85008)
Location: Unit or Qtr/Qtr Sec ^B E Sec 16 T 32N R 11W County San Juan
PitType Dehydrator
LandType Fee

Pit Location: Pit dimensions: length 19 ft., width 20 ft., depth 11 ft.
(Attach diagram)

Reference: Wellhead

Footage from reference: 66 ft.

Direction from reference: 45 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: 8/12/99

Date Completed: 8/23/99

Remediation Method: Excavation ☒

Approx. Cubic Yard 155

(check all appropriate sections)

Landfarmed ☒

Insitu Bioremediation

Other Landfarmed soil after mechanical aeration. LF Headspace 22 ppm.

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:

Sample location CC #20-V-EXFL-01

Closure Sampling:

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

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 feet

Sample date 8/12/99

Sample time 19:27

Sample Result

Benzene (ppm) <0.05

Total BTEX (ppm) 47.23

Field Headspace (ppm)

TPH (ppm) 504

Ground Water Sample: No

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

DATE 8-20-99

SIGNATURE *Mark Harvey* for WFS

PRINTED NAME Mark Harvey for Williams Field Services
AND TITLE

85008

Weather SUNNY - CLOUDY - 65°

Land Type: BLM STATE FEE INDIAN

County SAN JUAN

One Call Made (505-765-1234)? ☒ Y ☐ N

Line Marking Evident? ☒ Y ☐ N

Pit Location:

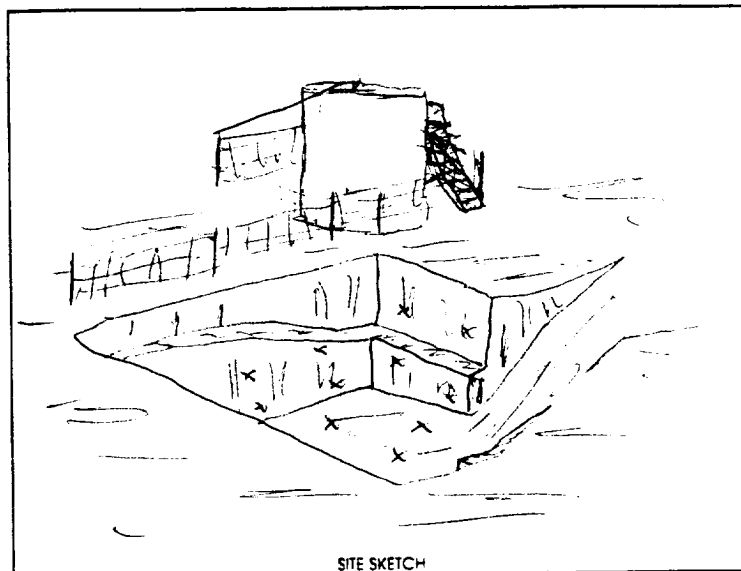
Reference Wellhead X Other

Distance from: 66'

Direction: 45 Degrees NE of WS

Starting Pit Dimensions 16 x 16 x 3

Final Pit Dimensions 19' x 20' x 11'



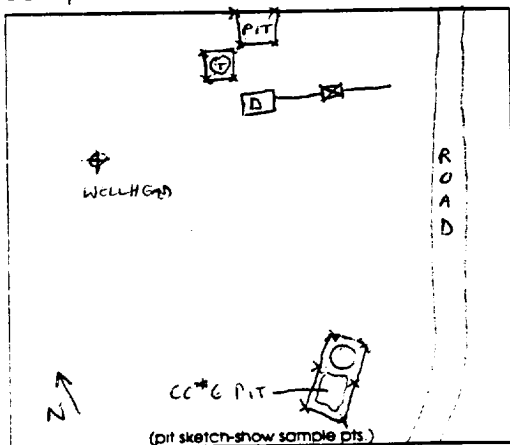
Organic Vapor Readings: Start _____ Soil Description: CLAYEY SILT
 @ 2' _____ " "
 @ 4' _____ " "
 @ 6' _____ " " + SAND
 @ 8' _____ SANDY SILT
 @ _____ SILTSTONE @ 12'
 @ _____

Well Proximity To: Residence, Domestic Water Well, Stock Well NONE
Arroyo, Wash, Lake, Stream _____
Estimated or Known Distance to Ground Water > 100'

Source of Backfill (if other than processed material) _____

Samples collected:	Type	Progress: Verification:	ID	<u>CC#20-V-EXWA-01</u>	<u>soil</u> / water
		Progress: Verification:	ID	<u>CC#20-V-EXFL-01</u>	<u>soil</u> / water
		Progress: Verification:	ID		soil / water

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



Comments: SITE UP THE ROAD FROM MAGNUS^{NS} 1 - ADJACENT TO CC #6
- MOVE EQUIPMENT (FENCE, TANK, DISCHARGE LINE, ETC.) SET UP + MIX SMALL
AMOUNT OF H₂O STAND. IN PIT - MATERIAL HAS MODERATE HYDROCARBON
ODOR - EXCAVATE & SHARED - ODOR DIMINISHED SOMEWHAT @ 5' LITTLE
HARD SOIL HORIZON ENCOUNTERED - BREAK THRU - STILL HAS ODOR -

Soil Shipped to: 1

Prepared by: M. Jones

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 #: 9908482

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

DATE REPORTED: 08/23/99
DATE COLLECTED: 08/12/99
DATE RECEIVED: 08/14/99

Reference Fraction: 9908482-12A
Sample ID: CC#20-V-EXFL-01/85008
Sample Date Collected: 08/12/99 19:27:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
TPH	SW846-8015	504	MG/KG	20	08/19/99	BEM
BTEX	OA1/8021B			3.0		
BENZENE		ND	MG/KG	0.050	08/21/99	KKL
TOLUENE		4.13	MG/KG	0.050	08/21/99	KKL
ETHYLBENZENE		14.8	MG/KG	0.050	08/21/99	KKL
TOTAL XYLENES		28.3	MG/KG	0.050	08/21/99	KKL
BFB (SURROGATE)		111	125	75		

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

APPROVED BY:

90. TERRY KOESTER
LABORATORY DIRECTOR

QWAL LABORATORIES, INC.

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

LABORATORY REPORT:

REFERENCE #: 9908482

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

DATE REPORTED: 08/23/99
DATE COLLECTED: 08/12/99
DATE RECEIVED: 08/14/99

Reference Fraction: 9908482-11A
Sample ID: CC#20-V-EXWA-01/85008
Sample Date Collected: 08/12/99 19:33:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
TPH	SW846-8015	178	MG/KG	20	08/19/99	BEM
BTEX	OA1/8021B			3.0		
BENZENE		ND	MG/KG	0.050	08/21/99	KKL
TOLUENE		0.407	MG/KG	0.050	08/21/99	KKL
ETHYLBENZENE		ND	MG/KG	0.050	08/21/99	KKL
TOTAL XYLENES		5.22	MG/KG	0.050	08/21/99	KKL
BFB (SURROGATE)		98	125	75		

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

APPROVED BY:

90.

TERRY KOESTER
LABORATORY DIRECTOR

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 #: 9908829

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

DATE REPORTED: 09/01/99
DATE COLLECTED: 08/23/99
DATE RECEIVED: 08/26/99

Reference Fraction: 9908829-14A
Sample ID: CC#20-V-LF-01
Sample Date Collected: 08/23/99 13:50:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
TOTAL PETROLEUM HYDR	EPA 418.1	1652	MG/KG	1.0	08/30/99	BEM

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

APPROVED BY:


PERRY KOESTER
LABORATORY DIRECTOR