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OIL CONSERVATION DIVISION

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: Phillips Petroleum (Williams Field Services) **Telephone:** (801) 584-6361
Address: P.O. Box 58900, Salt Lake City, Utah 84158-0900
WellName: SJ 29-5 UNIT #66 (86699)
Location: Unit or Qtr/Qtr Sec L Sec 33 T 29N R 5W County Rio Arriba
PitType: Dehydrator
LandType: Fee

Pit Location: Pit dimensions: length 24 ft., width 16 ft., depth 11 ft.
(Attach diagram)

Reference: Wellhead

Footage from reference: 50 ft.

Direction from reference: 143 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>0</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	
(Horizontal distance to perennial	points)		
lakes, ponds, rivers, streams, creeks, irrigation	200 feet to 1,000 feet	(10	<u>0</u>
canals and ditches)			

Ranking Score (TOTAL POINTS): 0

Date Remediation Started: 11/7/96

Date Completed: 12/20/96

Remediation Method: Excavation ☒
(check all appropriate
sections)

Approx. Cubic Yard 160

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. Returned to site 4/3/99 and utilized hydraulic probe to collect sample at 18-19'. TPH: 14.9 BTEX: 2.92

Ground Water Encountered: No

Final Pit:
Closure Sampling:
(if multiple samples, attach
sample results and diagram
of sample locations and
depths)

Sample location SJ 29-5 #66DK EX-V-01

A composite sample, made up of 4 points from each excavation face, was collected..

Sample depth Up to 11 feet.

Sample date 11/12/96

Sample time 10:30

Sample Result

Benzene (ppm) <0.57

Total BTEX (ppm) 11.2

Field Headspace (ppm)

TPH (ppm) 3,300

Ground Water Sample: No

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

DATE 9-20-99

SIGNATURE  FOR WFS

PRINTED NAME MARK HARVEY
AND TITLE PROJECT COORDINATOR

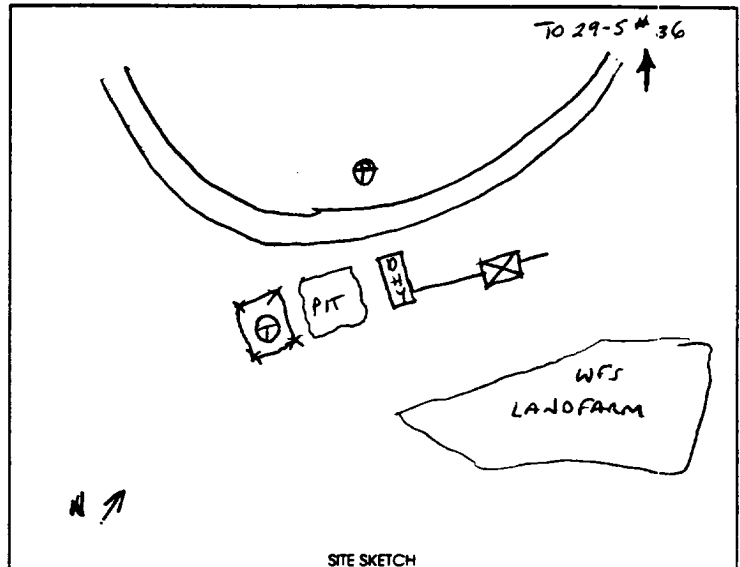
PIT RETIREMENT FORM

Date: 11-7-96 Weather: _____
 Well Name: SJ 29-5 #66 DK Operator: PHILLIPS Sec: T29N R54W UL
 Land Type: BLM STATE FEE INDIAN County: RIO ARriba
 Phone Call Made (505-765-1234)? ☒ N
 Is Marking Evident? ☒ N

Location:

Reference: Wellhead ☒ Other: _____
 Distance from: 50'
 Direction: 143 Degrees ☒ E ☒ N ☒ S
 of _____
 _____ W _____ S _____

Starting Pit Dimensions: 10' x 10' x 2'
 Final Pit Dimensions: 24' x 16' x 11'



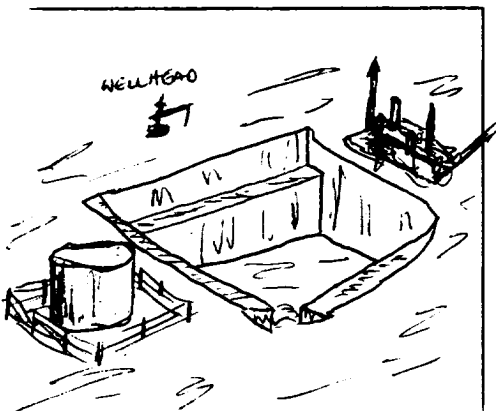
Organic Vapor Readings: Start _____ Soil Description: SILTY SAND W/ CLAY
 @ 2' _____
 @ 4' _____
 @ 6' _____
 @ 8' _____
 @ 10' _____
 @ 12' _____

Proximity To: Residence, Domestic Water Well, Stock Well NONE
 Arroyo, Wash, Lake, Stream WASH ~ 250 YDS NORTH
 Estimated or Known Distance to Ground Water > 100'

Source of Backfill (if other than processed material) _____

Samples collected: Type _____ Progress: Verification: ID SJ 29-5 #66 DK-EXH1 soil / water
 Progress: Verification: ID SJ 29-5 #66 DK-EXH2 soil / water
 Progress: Verification: ID _____ soil / water

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



Comments: Set up, EXCAVATED SOIL, SHREDDED SOIL, ADDED FERTILIZER, LANDFARMED MATERIAL NORTH EAST OF WELL HEAD. RETURNED LANDFARM MATERIAL TO EXCAVATION

Soil Shipped to: _____
 Prepared by: Mark Harvey



Organic Analysis - Pit Closure

Williams Field Services

Project ID:	OCD Pits	Report Date:	11/25/96
Sample ID:	SJ 29-5 #66 DK EX-V-01	Date Sampled:	11/12/96
Lab ID:	5617	Date Received:	11/12/96
Sample Matrix:	Soil	Date Extracted:	11/13/96
Preservative:	Cool	Date Analyzed:	11/13-14/96
Condition:	Intact		

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
Total Aromatic Hydrocarbons	11.2	
Benzene	ND	0.57
Toluene	0.79	0.57
Ethylbenzene	ND	0.57
m,p-Xylenes	6.50	1.14
o-Xylene	3.92	0.57
Total Recoverable Petroleum Hydrocarbons	3,300	30.8

Quality Control:	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	107	81 - 117%
	Bromofluorobenzene	106	74 - 121%
	o-Terphenyl	117	50 - 150%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics;
Test Methods for Evaluating Solid Wastes, SW-846, United States
Environmental Protection Agency, Final Update I, July, 1992.

EPA Method 8015A, modified. "Nonhalogenated Volatile Organics by Gas
Chromatography." Test Methods for Evaluating Solid Waste, Physical/
Chemical Methods, SW-846, 3rd Ed, Final Update I, July, 1992. USEPA.

Comments:

Review



Organic Analysis - Pit Closure

Williams Field Services

Project ID: OCD Pits
Sample ID: SJ 29-5 #66 DK LF-V-01
Lab ID: 5618
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Report Date: 11/25/96
Date Sampled: 11/12/96
Date Received: 11/12/96
Date Extracted: 11/13/96
Date Analyzed: 11/14/96

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
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Total Aromatic Hydrocarbons	7.30	
Benzene	ND	0.45
Toluene	0.49	0.45
Ethylbenzene	ND	0.45
m,p-Xylenes	4.30	0.90
o-Xylene	2.50	0.45


Total Recoverable Petroleum Hydrocarbons	2,530	28.7
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Quality Control:	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	104	81 - 117%
	Bromofluorobenzene	102	74 - 121%
	o-Terphenyl	833	50 - 150%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Recoverable Organics;
Test Methods for Evaluating Solid Wastes, SW-846, United States
Environmental Protection Agency, Final Update I, July, 1992.

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Chromatography." Test Methods for Evaluating Solid Waste, Physical/
Chemical Methods, SW-846, 3rd Ed, Final Update I, July, 1992. USEPA.

Comments:


Review

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 #: 9904322

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

DATE REPORTED: 04/19/99
DATE COLLECTED: 04/03/99
DATE RECEIVED: 04/09/99

Reference Fraction: 9904322-03A

Sample ID: SJ27-5 #66 @18-19/86419 86699

Sample Matrix: SOIL

Sample Date Collected: 04/03/99 12:30:00

TEST	METHOD	RESULT	UNITS	DL	ANALYZED	BY
TPH	SW846-8015	14.9	MG/KG	2	04/17/99	KKL
BTEX	SW846 8021			3.0		
BENZENE		ND	MG/KG	0.050	04/15/99	JDH
TOLUENE		0.172	MG/KG	0.050	04/15/99	JDH
ETHYLBENZENE		0.0714	MG/KG	0.050	04/15/99	JDH
TOTAL XYLENES		2.68	MG/KG	0.050	04/15/99	JDH
BFB (SURROGATE)		107	125	75		

ND=NONE DETECTED

DL=DETECTION LIMIT

SU=STANDARD UNITS

B=DETECTED IN METHOD BLANK

APPROVED BY:

TERRY KOESTER
LABORATORY DIRECTOR

PROBE SAMPLE