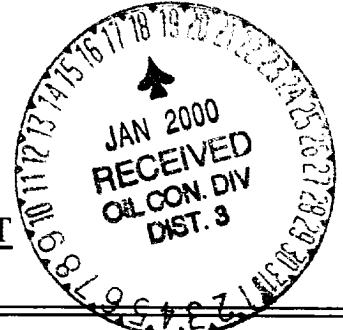


OIL CONSERVATION DIVISION

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



**PIT REMEDIATION AND CLOSURE REPORT**

Operator: HALLWOOD PETROLEUM Telephone: (801) 584-6361  
Address: P.O. Box 58900, Salt Lake City, Utah 84158-0900  
WellName: Federal #4 PC ( 85089 )  
Location: Unit or Qtr/Qtr Sec *P* Sec 3 T 31N R 7W County San Juan  
PitType Dehydrator  
LandType: Fee

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

Reference: Wellhead

Footage from reference: 80 ft.

Direction from reference: 80 Degrees East of South

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: 9/22/99

Date Completed: 9/22/99

Remediation Method: Excavation   
(check all appropriate sections)

Approx. Cubic Yard

Landfarmed

Insitu Bioremediation

Other  Assessed

Remediation Location: Onsite  Offsite

(ie. landfarmed onsite, name and location of offsite facility)

General Description Of Remedial Action:

Assessed pit by advancing hand probe to 3 feet below pit bottom and collecting composite sample.

Ground Water Encountered: No

Final Pit:

Sample location FED4 (PC)-A-HP-01

Closure Sampling:

ASSESSED

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

Sample depth 3 feet

Sample date 9/22/99

Sample time 10:30

Sample Result

Benzene (ppm) 3.08

Total BTEX (ppm) 25.52

Field Headspace (ppm)

TPH (ppm) 109

Ground Water Sample: No

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

DATE 12-20-99

SIGNATURE  WFS

PRINTED NAME Mark Harvey for Williams Field Services AND TITLE

PIT RETIREMENT FORM

85089

Date: 9-22-99

Weather: PTLY CLOUDY, COOL 55°F

Well Name: FEDERAL #4 (PC) Operator: HALLWOOD PETROLEUM Sec 3 T31N R7W UL

and Type: BLM STATE FEE INDIAN County: SAN JUAN

One Call Made (505-765-1234)? Y N
Line Marking Evident? Y N

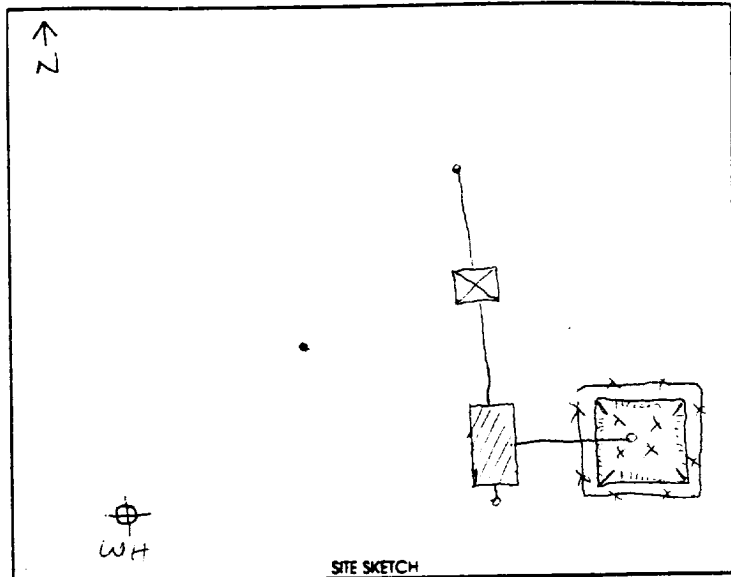
Pit Location: Reference Wellhead X Other

Distance from: 80'

Direction: 80 Degrees X E N W S X

Starting Pit Dimensions: 18 x 17 x 3

Final Pit Dimensions: N/A x x



Organic Vapor Readings: Start N/A
@ 2' @ 4' @ 6' @ 8' @
Soil Description: 0-2.5' BRN CLAYEY SILT W/ TR V. FINE SAND. MOD PLASTIC. 2.5-3' BRN SILTY CLAY PLASTIC

Well Proximity To: Residence, Domestic Water Well, Stock Well NONE
Arroyo, Wash, Lake, Stream >1000'
Estimated or Known Distance to Ground Water >100'

Source of Backfill (if other than processed material)

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

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

N/A
(pit sketch-show sample pit)

Comments: GLYCOL DEHY DISCHARGES TO EARTHEN PIT. NO EVIDENCE OF HC IMPACT. ASSES PIT BY ADVANCING HAND PROSE TO 3' DYS AND COLLECTING COMPOSITE SOIL SAMPLE.

Soil Shipped to: N/A
Prepared by: JCS

## 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 #: 9909783

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

DATE REPORTED: 09/29/99  
 DATE COLLECTED: 09/22/99  
 DATE RECEIVED: 09/23/99

PROJECT: WFS/IGN-NM PITS

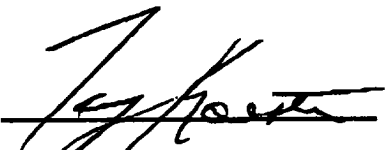
Reference Fraction: 9909783-04A  
 Sample ID: FED4(PC)-A-HP-01  
 Sample Date Collected: 09/22/99 10:30:00

Sample Matrix: SOIL

TEST	METHOD	RESULT	UNITS	PQL	ANALYZED	BY
TPH-DRO	SW846-8015D	109	MG/KG	2	09/25/99	BEM
BTEX	OA1/8021B			3.0		
BENZENE		3.08	MG/KG	0.050	09/28/99	KKL
TOLUENE		3.59	MG/KG	0.050	09/28/99	KKL
ETHYLBENZENE		7.14	MG/KG	0.050	09/28/99	KKL
TOTAL XYLENES		11.7	MG/KG	0.050	09/28/99	KKL
BFB (SURROGATE)		95	125	75		
QA/QC PACKAGE LEVEL	NONE		SU			

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

APPROVED BY:

  
 TERRY KOESTER  
 LABORATORY DIRECTOR  
 QW