District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

## State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 copy to appropriate District Office and 1 copy to the Santa Fe Office

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

J = 215 - 22136		021123
Operator: Hallador Petroleum, LLP	Telephone:_ <u>1-800-839-5506</u>	PIUI 2003  FILL 2003
Address: 1660 Lincoln Street, Denver, CO 80264	1	S OIL CO
Facility Or: Horton 4A Well Name		OIL COME DIV.
W on France		81.11.91.51
Location: Unit D Sec 27 T 32N	R 12W County San Juan, NM	
Pit Type: Separator X Dehydrator		
Land Type: BLM X, State, Fee	Other	
Pit Location: Pit dimensions: length	her	5'
Direction from reference: _78_ Deg	rees <u>East</u> of <u>North</u>	
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 Yes	( 0 points)
high water elevation of		_0
ground water.)		
W/ III - 1 B	••	<b>(2.0</b> • • • • • • • • • • • • • • • • • • •
Wellhead Protection Area:		(20 points)
(Less than 200 feet from a private	No	( 0 points)
domestic water source, or; less than 1000 feet from all other water sources.)		_0
1000 feet from an other water sources.)		
Distance To Surface Water:	Less than 200 feet	(20 points)
(Horizontal distance to perennial	200 feet to 1000 feet	(10 points)
lakes, ponds, rivers, streams, creeks,	Greater than 1000 feet Yes	( 0 points)
irrigation canals and ditches.)		<u>0</u>
RA	NKING SCORE (TOTAL POINTS):	<u> </u>

Date Remediation Started:	<u>10/1999</u> Date completed: <u>6/2003</u>
Remediation Method: Ex- (Check all appropriate sections.) La	cavation X Approx. cubic yards 370 Insitu Bioremediation
Otl	her
Remediation Location: Or	nsite <u>Landfarmed</u> Offsite
(i.e. landfarmed onsite, name and location of offsite facility)	
	nedial Action: Contaminated soils were excavated from pit area to a bedrock of shale at I soil was distributed on the location and plowed and tilled periodically over a two year
Ground Water Encountered	l: No X Yes Depth
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)	Sample location Horton 4A, pit excavation bottom Sample depth 1' below excavated bottom approx. 23' BGS Sample Date 11/27/00 Sample time 1015 Sample Results Benzene(ppm) NA Total BTEX(ppm) NA Field headspace(ppm) 0.0 TPH ND mg/Kg
-	Sample location Horton 4A, side wall Sample depth 3-4' BGS Sample Date 11/27/00 Sample time 1020 Sample Results Benzene(ppm) NA Total BTEX(ppm) NA Field headspace(ppm) 0.0 TPH ND mg/Kg
Ground Water Sample:	Yes NoX (If yes, attach sample results)
As an agent for Hallador, L knowledge and belief.	LP, I hereby certify that the information above is true and complete to the best of my
Date 711/v3 Signature	Printed Name: John Hagstrom and Title: Environ. Technician

<u>District I</u>

State of New Mexico

SUBMIT 1 COPY

TO

P.O. Box 1980, Hobbs, NM Energy, Minerals and Natural Resources Department

APPROPRIATE

District II

DISTRICT OFFICE

P.O. Drawer DD, Artesia, NM 88211 <u>District III</u> AND 1 COPY TO

#### OIL CONSERVATION DIVISION

SANTA FE OFFICE

1000 Rio Brazos Rd, Aztec, NM 87410 1220 St. Francis Drive Santa, Fe NM 87505

#### Landfarm Remediation and Closure Report

Bandlarm Remediation and Closure Report				
Owner/Operator: Hallador Petroleum, LLP	Telephone:1-800-839-5506			
Address: 1660 Lincoln Street Denver, CO 80264				
Facility or Well Name: Horton 4A				
County: San Juan, NM  Land Type  BLM X, State, Fee, Other  Landfarm location  Length: 40' Width: 40'  Reference: Wellhead: X Other:  Footage from reference: 100'  Direction from reference: 50°East of North  Refer to attached map for land farm location	r			
GENERAL DISCRIPTION of LANDFARM ACTIVITIES: Conta excavated to bedrock. Soils from pit were distri- times in a twenty four month period. Following I for clearance and will be backfilled in the origin	ibuted on location and turned numerous landfarm remediation, soils were sampled			
SAMPLING INFORMATION				
Type of sample: Grab: Composite: $\underline{10}$ Sample Depth : $\underline{0-12"}$	_points			
Sample Date: $6/9/03$ Sample Time: $1305$ Laboratory Analysis: BTEX (ppm) TPH NI OVM/PID $0.8$ units Refer to attached map for sample location. Laboration				
AS AN AUTHORIZED AGENT FOR HALLADOR PETROLEUM, I IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE	HEREBY CERTIFY THAT THE INFORMATION ABOVE AND BELIEF			
Date: 7/1/03				
Signature: ADD				
Print Name: John Hagstrom				
Title: Environmental Technician				



DATE 11/27/00

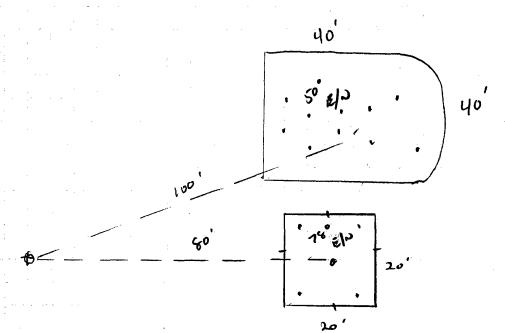
SUBJECT HORTON 4A

NW/NW SEC 27 T 32N R12W

SJCOUNTY

GED + ABANDONES

NOT TO SCALE



612 E. Murray Drive Farmington, NM 87499

Off: (505) 327-1072 FAX: (505) 327-1496

# iiná bá

P.O. Box 3788 Shiprock, NM 87420

Off: (505) 368-4065

### ANALYTICAL REPORT

CLIENT:

Souder, Miller & Associates

Work Order:

0306019

Project:

1114128; Horton 4A Landfarm

Lab ID:

0306019-001A

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Client Sample Info: Horton 4A

Client Sample ID: Landfarm Sample

**Collection Date:** 6/9/2003 1:05:00 PM

Date: 17-Jun-03

Matrix: SOIL

Parameter	Result	PQL Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28	ND	<b>SW8015B</b> 25.0 mg/Kg	1	Analyst: <b>JEM</b> 6/16/2003
GASOLINE RANGE ORGANICS T/R Hydrocarbons: C6-C10	ND	<b>SW8015B</b> 4.50 mg/Kg	25	Analyst: <b>JEM</b> 6/16/2003

Qualifiers:

ND - Not Detected at the Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted precision limits

E - Value above Upper Quantitation Limit - UQL

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