

District I
P.O. Box 980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

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

SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

Sam G. Jant
Approved

3/12/96

PIT REMEDIATION AND CLOSURE REPORT

Approved
B.I. sending
letter.

Operator: HALLADOR PETROLEUM COMPANY Telephone: 303-839-5504

Address: 1660 LINCOLN STREET, STE. 2700, DENVER, CO 80264

Facility or: HORTON 2A
Well Name

Location: Unit or Qtr/Qtr Sec SE Sec 22 T 32N R 11W County SAN JUAN

Pit Type: Separator X Dehydrator Other

Land Type: BLM X, State , Fee , Other

Pit Location: Pit dimensions: length 10', width 10', depth 4'
(Attach diagram)

Reference: wellhead X, other SEPARATOR IMMED. S. OF PIT

**SEE ATTACHED,*
FIGURE 4

Footage from reference: ~45' FROM WELLHEAD

Direction from reference: 85 Degrees East North
of
X West South X

Depth To Ground Water:
(Vertical distance from
contaminants to seasonal
high water elevation of
ground water)

Less than 50 feet	(20 points)	
50 feet to 99 feet	(10 points)	
Greater than 100 feet	(0 Points)	<u>20</u>

Wellhead Protection Area:
(Less than 200 feet from a private
domestic water source, or; less than
1000 feet from all other water sources)

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Yes (20 points)	<u>0</u>
No (0 points)	

Distance To Surface Water:
(Horizontal distance to perennial
lakes, ponds, rivers, streams, creeks,
irrigation canals and ditches)

OIL CON. DIV.
DIST. 3

Less than 200 feet	(20 points)	
200 feet to 1000 feet	(10 points)	
Greater than 1000 feet	(0 points)	<u>10</u>

RANKING SCORE (TOTAL POINTS): 30

Date Remediation Started: _____ Dated Completed: _____

Remediation Method: Excavation _____ Approx. cubic yards _____
(Check all appropriate sections) Landfarmed _____ Insitu Bioremediation _____
Other _____

Remediation Location: Onsite _____ Offsite _____
(ie. landfarmed onsite, name and location of offsite facility)

General Description Of Remedial Action: _____

Ground Water Encountered: No _____ Yes _____ Depth _____

Final Pit: Sample location B1 C + B2 C (Composite sample)
Closure Sampling: (See figure attached)
(if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth 3'-5' below pit floor

Sample date 7/25/95 Sample time 11:30 AM

Sample Results

Benzene(ppm) NA

Total BTEX(ppm) NA

Field headspace(ppm) 3/

TPH 28 (ppm)

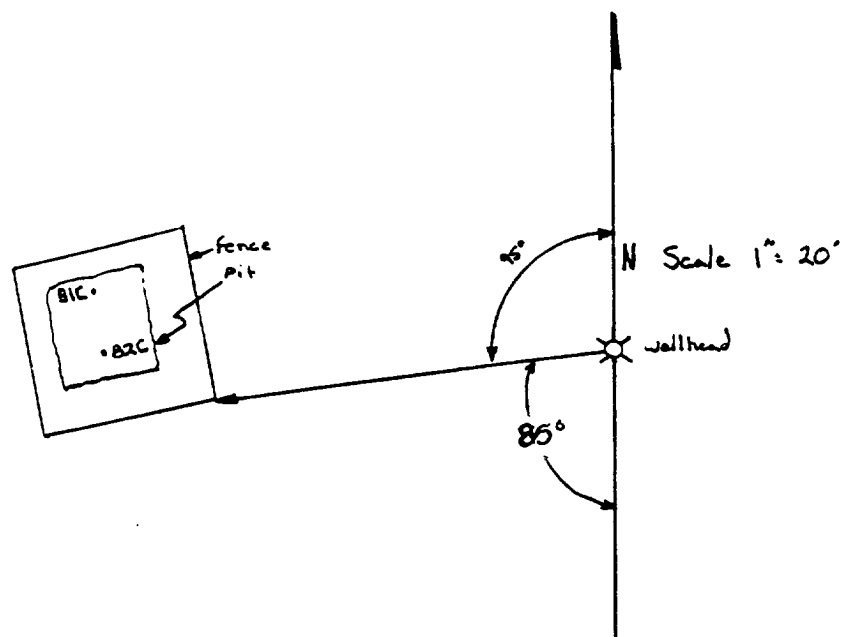
Ground Water Sample: Yes _____ No X (If yes, attach sample results)

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

DATE 11/3/95

SIGNATURE 

PRINTED NAME DAVID R. CESARK
AND TITLE SR. ENV. SCIENTIST



HALLADOR PETROLEUM COMPANY	
SITE PLAN; HORTON #2A	
Western Technologies Inc.	
JOB NO.: 3185JC066	FIGURE:4





**Westech
Laboratories
Inc.**

The Quality People
Since 1955

10737 Gateway West, No. 100
El Paso, Texas 79935-4906
(915) 592-3591 • fax 592-3594

CLIENT WESTERN TECHNOLOGIES, INC.
400 LORENA AVENUE
FARMINGTON, NM 87401

SAMPLE NO. : 6503291
INVOICE NO.: 3185W060
REPORT DATE: 08-11-95
REVIEWED BY: *[Signature]*
PAGE : 1 OF 1

CLIENT SAMPLE ID : Horton #2A
SAMPLE TYPE: Soil
SAMPLED BY: B. Sutton
SUBMITTED BY: B. Sutton
SAMPLE SOURCE: 3-5' Hallador

AUTHORIZED BY : D. Cesark
CLIENT P.O. : --
SAMPLE DATE ...: 08-08-95
SUBMITTAL DATE : 08-10-95
EXTRACTION DATE: --

Modified 418.1 - Total Petroleum Fuel Hydrocarbons

D A T A T A B L E

Parameter	Result	Unit	Detection Limit	Analysis Date
Total Petroleum Hydrocarbons	28	mg/kg	10.	08-11-95

(1) Copy to Client

[Signature]
Managing Director



**Westtech
Laboratories
Inc.**

The Quality People
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10737 Gateway West, No. 00
El Paso, Texas 79935-4901
(915) 592-3591 • fax 592-3594

QUALITY CONTROL REPORT

QC IDENTIFIER: 34-081195-1
REFERENCE NOTEBOOK : TPH #7
REFERENCE PAGE: 35-36

INSTRUMENT : IR-TPH
ANALYZED BY : A. Skornia
ANALYZED ON : 08-11-95

TEST DESCRIPTION ...: Total Petroleum Hydrocarbons
TEST METHOD: 418.1

SAMPLES IN THIS RUN:

6503252	6503253	6503254	6503255	6503256	6503257	6503258
6503259	6503269	6503270	6503271	6503272	6503273	6503274
6503275	6503276	6503277	6503278	6503279	6503280	6503281
6503282	6503283	6503284	6503285	6503286	6503287	6503288
6503290	6503291					

CALIBRATION CHECK -

PARAMETER	UNIT	TRUE VALUE	FOUND VALUE	%RECOVERY
Total Petroleum Hydrocarbons	mg/kg	200.	200	100.0
Total Petroleum Hydrocarbons	mg/kg	200.	190	95.0
Total Petroleum Hydrocarbons	mg/kg	200.	200	100.0
Total Petroleum Hydrocarbons	mg/kg	200.	200	100.0

REPLICATES -

SAMPLE NUMBER	PARAMETER	UNIT	RESULT	REPLICATE	RPD%
6503270	Total Petroleum Hydrocarbons	mg/Kg	54	48	NC
6503277	Total Petroleum Hydrocarbons	mg/Kg	<10	<10	NC
6503285	Total Petroleum Hydrocarbons	mg/Kg	<10	<10	NC
6503288	Total Petroleum Hydrocarbons	mg/kg	170	120	34.5

SPIKES -

SAMPLE NUMBER	PARAMETER	UNIT	SAMPLE RESULT	SPIKE AMOUNT	SAMPLE+SPIKE RESULT	%RECOVERY
6503270	Total Petroleum Hydrocarbons	mg/Kg	54	100	170	116.0
6503277	Total Petroleum Hydrocarbons	mg/Kg	<10	100	110	110.0
6503285	Total Petroleum Hydrocarbons	mg/Kg	<10	100	110	110.0
6503288	Total Petroleum Hydrocarbons	mg/kg	170	100	230	60.0



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ANALYZED ON : 08-11-95

METHOD BLANKS -

PARAMETER	UNIT	RESULT
Total Petroleum Hydrocarbons	mg/kg	<10
Total Petroleum Hydrocarbons	mg/Kg	<10
Total Petroleum Hydrocarbons	mg/Kg	<10
Total Petroleum Hydrocarbons	mg/kg	<10
Total Petroleum Hydrocarbons	mg/Kg	<10

NOTE -

- 1) NC: Not Calculable because result is < 5 times the MDL
- 2) NP: Not Practical because sample result is 4 times or more greater than spike added.
- 3) Percent Recovery is:

$$\frac{\text{Sample+Spike Result} - \text{Sample Result}}{\text{Spike Amount}} \times 100$$

- 4) Relative Percent Difference (RPD) is:

$$\frac{\text{Sample Result} - \text{Replicate Result}}{(\text{Sample Result} + \text{Replicate Result})/2} \times 100$$

WESTECH
LABORATORIES, INC.
QUALITY ASSURANCE OFFICER

DATE 8-14-95

CHAIN OF CUSTODY RECORD

CLIENT	WT	ADDRESS	670 South Lexena Ave Farmington
CONTACT PERSON	D Cesarik	PROJECT	New Mexico
TELEPHONE	(505) 327-4966	JOB / PO NO	3185 SC 066
FAX		WESTECH QUOTE / CONTRACT NO	3185w060

• SEE FEE SCHEDULE •

[illegible]