

District I

P.O. Box 1980, 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

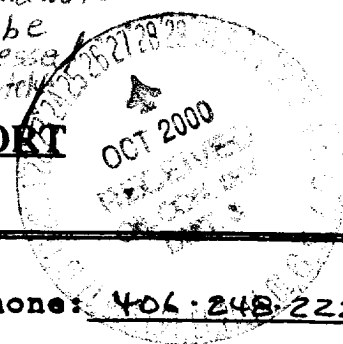
OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

For Record
Groundwater
will be
addressed
system

PIT REMEDIATION AND CLOSURE REPORTOperator: JN Exploration & Production LP Telephone: 406-248-2222Address: P.O. Box 7167; Billings, Montana 59603Facility Or: Miller

Well Name

Location: Unit or Qtr/Qtr sec M SW SW sec 21 T 30N R 13W County SAN JUAN, New MexicoPit Type: Separator X Dehydrator Other Land Type: BLM , State X, Fee , Other / WILDLIFE REFUGEPit Location: Pit dimensions: length 30, width 15, depth 11
(Attach diagram)Reference: wellhead X, other Footage from reference: 126'Direction from reference: 45 Degrees East North
of
X West South X**Depth To Ground Water:**(Vertical distance from
contaminants to seasonal
high water elevation of
ground water)

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

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

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

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

RANKING SCORE (TOTAL POINTS): 20

Date Remediation Started: 6-18-98 Dated Completed: 6-19-98

Remediation Method: Excavation ☒ Approx. cubic yards 154 cy
(Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation _____
Other _____

Remediation Location: Onsite _____ Offsite Envirotech LANDFARM #2
(ie. landfarmed onsite, name and location of offsite facility)

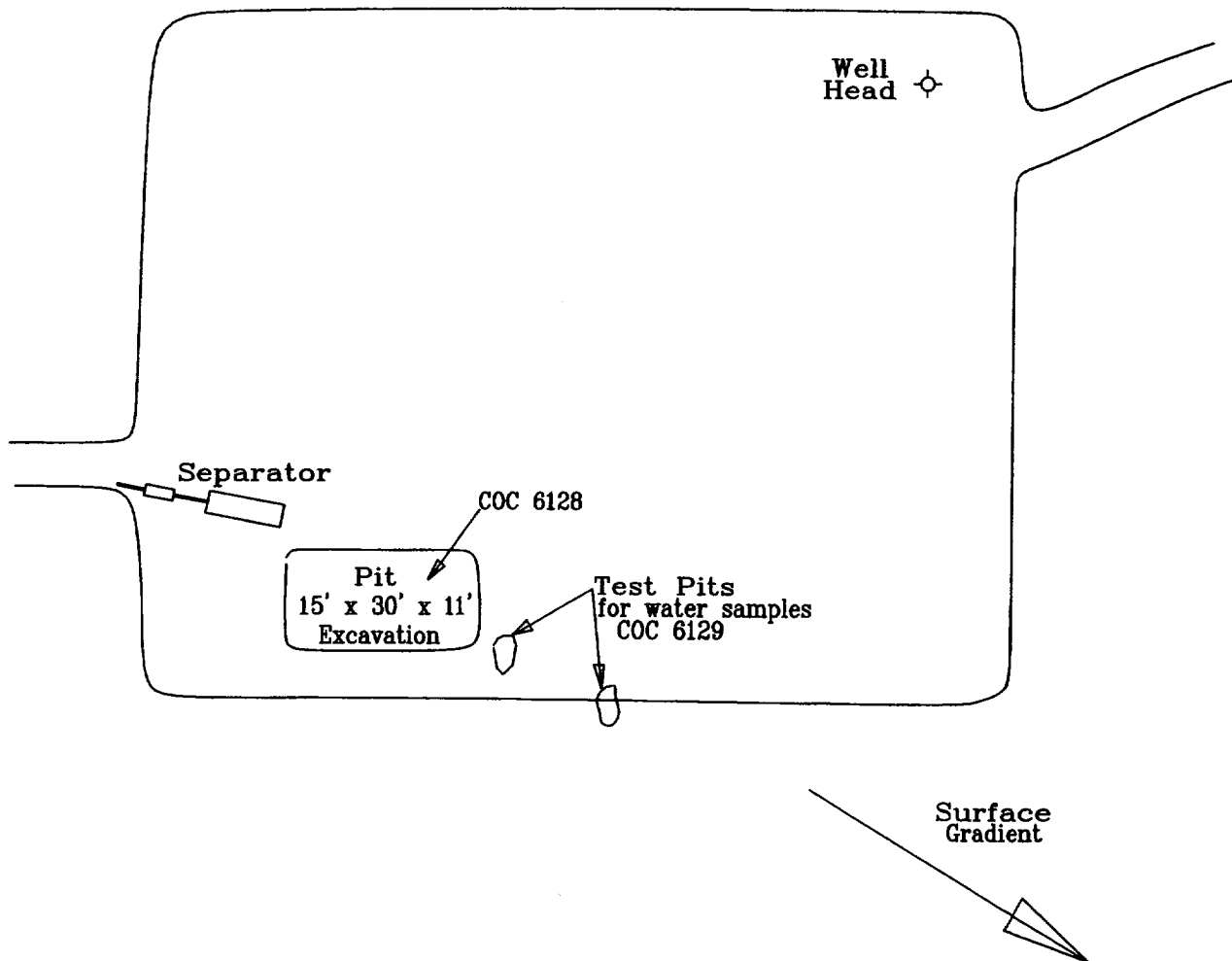
General Description Of Remedial Action: Contaminated Soil EXCAVATED To
HORIZONTAL EXTENT. Contaminant removed to WATER TABLE.
Potassium Permanganate solution Sprayed on sidewalls, bottom,
and into clean fill as backfill was completed.

Ground Water Encountered: No _____ Yes ☒ Depth 11'

Final Pit: _____
Closure Sampling: _____
(if multiple samples, attach sample results and diagram of sample locations and depths)
Sample location _____
Sample depth _____
Sample date _____ Sample time _____
Sample Results
Benzene(ppm) _____
Total BTEX(ppm) _____
Field headspace(ppm) _____
TPH _____

Ground Water Sample: Yes _____ No _____ (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 10.26.00
SIGNATURE Harold W. Brown PRINTED NAME Harold W. Brown AND TITLE GEOLOGIST / Hydrogeologist



NO SCALE

All angles, directions, and distances determined by sighting and pacing from existing site features. Accuracy of measurement is implied only to the degree of accuracy of method.

JN Exploration

Miller D-1
Separator

Pit Remediation

"M", Sec. 20, T30N, R13W
San Juan County, NM

Project No.: 97070

Envirotech Inc.

Environmental Scientists & Engineers
5796 US Highway 64
Farmington, New Mexico

Site Map

Figure 1

Date: 07/98

DRW: HMB

PRJ MGR: HMB

38
3
114
12
126

DK

CLIENT: <u>AMOCO</u> <u>JN Exploration</u>	ENVIROTECH INC. ENVIRONMENTAL SCIENTISTS & ENGINEERS 5796 U.S. HIGHWAY 64-3014 FARMINGTON, NEW MEXICO 87401 PHONE: (505) 632-0615	LOCATION NO: _____ C.O.C. NO: <u>6128</u> <u>6129</u>
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FIELD REPORT: CLOSURE VERIFICATION <u>AKA D Miller SWSW 21 T30N R13W</u>		PAGE No: _____ of _____
LOCATION: NAME: <u>Miller D-1</u>	WELL #: _____	PIT: _____
QUAD/UNIT: <u>SWSW</u> SEC: <u>20</u> TWP: <u>30N</u> RNG: <u>13W</u> PM: <u>NH</u> CNTY: <u>ST</u> ST: <u>NM</u>		DATE STARTED: <u>6.18.00</u> DATE FINISHED: <u>6.19.00</u>
QTR/FOOTAGE: <u>790' ESL 790' FWL</u> CONTRACTOR: <u>ENVirotech</u>		ENVIRONMENTAL SPECIALIST: <u>HMB</u>

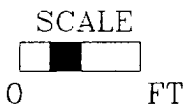
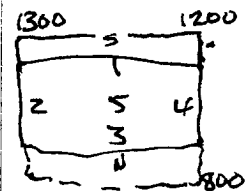
EXCAVATION APPROX. 30 FT. x 15 FT. x 11 FT. DEEP. CUBIC YARDAGE: 154 cu.

DISPOSAL FACILITY: ENVirotech - LANDFARM2 REMEDIATION METHOD: Landfarm

LAND USE: Federal - Wildlife Ref. LEASE: _____ FORMATION: _____

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>126'</u> FT. <u>SW</u> FROM WELLHEAD
DEPTH TO GROUNDWATER: <u>11'</u>	NEAREST WATER SOURCE: <u>7200</u> NEAREST SURFACE WATER: <u>71000'</u>
NMOCB RANKING SCORE: <u>20</u>	NMOCB TPH CLOSURE STD: <u>100</u> PPM
SOIL AND EXCAVATION DESCRIPTION:	

CHECK ONE:
☒ PIT ABANDONED
☐ STEEL TANK INSTALLED



FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No.	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

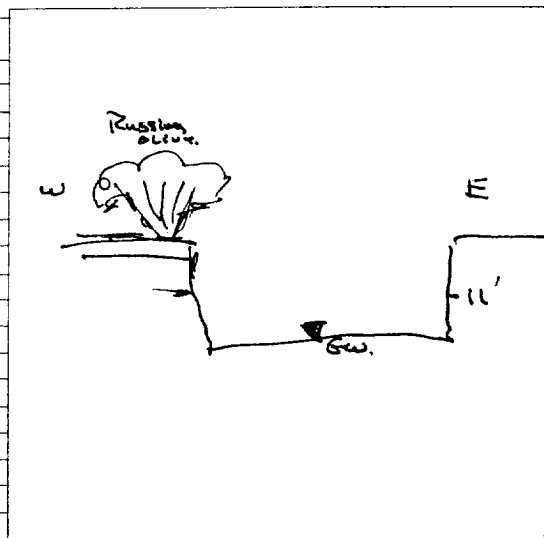
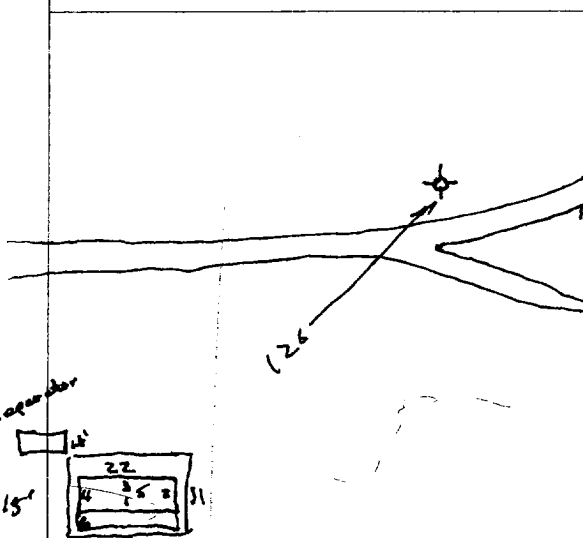
PIT PERIMETER

OVM RESULTS

PIT PROFILE

SAMPLE ID	FIELD HEADSPACE P.D. (ppm)
1	420
2	810
3	700
4	470
5	360
6	

SAMPLE ID	ANALYSIS	TIME



TRAVEL NOTES: CALLOUT: _____ CNSITE: _____

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

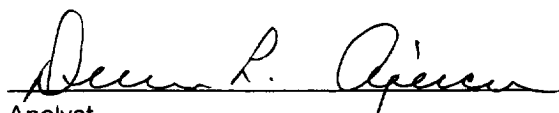
Client:	J N Exploration	Project #:	98056-01
Sample ID:	G.W. @ 11'	Date Reported:	06-19-98
Laboratory Number:	D449	Date Sampled:	06-18-98
Chain of Custody No:	6128	Date Received:	06-18-98
Sample Matrix:	Water	Date Extracted:	06-19-98
Preservative:	Cool	Date Analyzed:	06-19-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

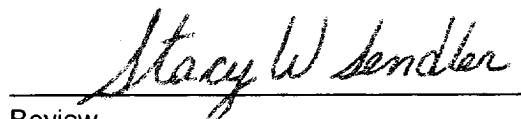
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	2.8	0.2
Diesel Range (C10 - C28)	0.4	0.1
Total Petroleum Hydrocarbons	3.2	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Miller D - 1.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	J N Exploration	Project #:	98056-01
Sample ID:	G.W. @ 11'	Date Reported:	06-19-98
Chain of Custody:	6128	Date Sampled:	06-18-98
Laboratory Number:	D449	Date Received:	06-18-98
Sample Matrix:	Water	Date Analyzed:	06-19-98
Preservative:	HgCl ₂ & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Benzene	671	10	1.8
Toluene	529	10	1.7
Ethylbenzene	252	10	1.5
p,m-Xylene	1,040	10	2.2
o-Xylene	101	10	1.0

Total BTEX **2,590**

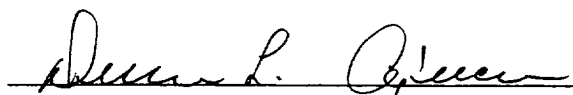
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	99 %
	Bromofluorobenzene	99 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **Miller D - 1.**


Analyst


Review

6128

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	J N Exploration	Project #:	98056-01
Sample ID:	6' Offset SE	Date Reported:	06-23-98
Chain of Custody:	6129	Date Sampled:	06-19-98
Laboratory Number:	D450	Date Received:	06-19-98
Sample Matrix:	Water	Date Analyzed:	06-23-98
Preservative:	HgCl ₂ & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Benzene	765	10	0.2
Toluene	15.2	10	0.2
Ethylbenzene	240	10	0.2
p,m-Xylene	1,470	10	0.2
o-Xylene	91.5	10	0.1

Total BTEX **2,580**

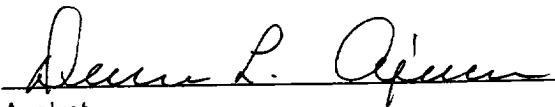
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	100 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **Miller D - 1.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	J N Exploration	Project #:	98056-01
Sample ID:	25' Offset ESE	Date Reported:	06-23-98
Chain of Custody:	6129	Date Sampled:	06-19-98
Laboratory Number:	D451	Date Received:	06-19-98
Sample Matrix:	Water	Date Analyzed:	06-23-98
Preservative:	HgCl ₂ & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Benzene	5.5	1	0.2
Toluene	ND	1	0.2
Ethylbenzene	1.1	1	0.2
p,m-Xylene	22.0	1	0.2
o-Xylene	1.5	1	0.1

Total BTEX 30.1

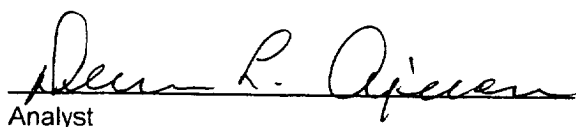
ND - Parameter not detected at the stated detection limit.

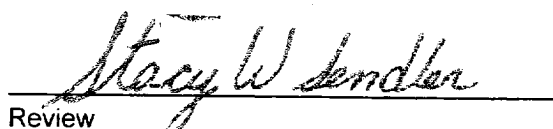
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	97 %
	Bromofluorobenzene	97 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **Miller D - 1.**


Analyst


Review

6129

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