

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
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
SEP 11 0 1996
(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

Operator: Mexidian Oil Inc Telephone: 326-9700
Address: 3535 E 30th, Farmington, NM 87401
Facility Or: Ramona ET AL #1
Well Name _____
Location: Unit or Qtr/Qtr Sec J Sec 13 T 27N R 9W County San Juan
Pit Type: Separator _____ Dehydrator _____ Other Tank
Land Type: BLM _____, State _____, Fee _____, Other Navajo Indian

Pit Location: Pit dimensions: length 15', width 14', depth 2'
(Attach diagram) Reference: wellhead x, other _____
Footage from reference: 180'
Direction from reference: 140° Degrees ☒ East North ☒
of
_____ West 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) 20
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 1000 feet (10 points)
lakes, ponds, rivers, streams, creeks, Greater than 1000 feet (0 points) 10
irrigation canals and ditches)

RANKING SCORE (TOTAL POINTS): 30

Date Remediation Started: 7/24/95 Date Completed: 7/24/95

Remediation Method: Excavation ☒ Approx. cubic yards 64
(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: Contaminated soils within the Pit area were removed & Placed on the Surface for remediation

Ground Water Encountered: No ☐ Yes ☒ Depth 6'

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

Sample location 4 point composite sample from the bottom of the excavation.

Sample depth 6'

Sample date 5/15/96 Sample time _____

Sample Results

Benzene(ppm) <0.25

Total BTEX(ppm) 25.3

Field headspace(ppm) -

TPH 160

Ground Water Sample: Yes ☒ No ☐ (If yes, attach sample results)
See attached Report

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

DATE 5/31/96

SIGNATURE

C. A. Bock

PRINTED NAME CRAIG A. Bock

AND TITLE Environmental Representative

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
DEPUTY OIL & GAS INSPECTOR
SANTA FE OFFICE
SEP 11 0 1996
(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

Operator: Meridian Oil Inc. Telephone: 326-9700
Address: 3535 E. 30th ST, Farmington, NM 87401
Facility or: Ramental ET AL #1
Well Name _____
Location: Unit or Qtr/Qtr Sec J Sec 13 T 27N R 9W County San Juan
Pit Type: Separator _____ Dehydrator _____ other Blow pit
Land Type: BLM _____, State _____, Fee _____, other Navajo Indian

Pit Location: Pit dimensions: length 12', width 12', depth 1'
(Attach diagram) Reference: wellhead ☒, other _____
Footage from reference: 170'
Direction from reference: 186° Degrees ☒ East North ☒
of
_____ West South _____

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) 20

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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OIL & GAS DIV.
DIST. 2

Yes (20 points)
No (0 points) 0

Distance To Surface Water:

(Horizontal distance to perennial
lakes, ponds, rivers, streams, creeks,
irrigation canals and ditches)

Less than 200 feet (20 points)
200 feet to 1000 feet (10 points)
Greater than 1000 feet (0 points) 10

RANKING SCORE (TOTAL POINTS): 30

Date Remediation Started: 7/24/95 Date Completed: 7/24/95

Remediation Method: Excavation ☒ Approx. cubic yards 54
(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: Contaminated soils within the pit area were removed and placed on the surface for Remediation.

Ground Water Encountered: No ☐ Yes ☒ Depth 10'

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

Sample location 4 point composite from the bottom of the excavation.

Sample depth 10'

Sample date 5/15/96 Sample time _____

Sample Results

Benzene(ppm) ≤ 0.05

Total BTEX(ppm) 2.06

Field headspace(ppm) —

TPH ND

Ground Water Sample: Yes ☒ No ☐ (If yes, attach sample results)
See Attached report.

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

DATE 5/31/96

SIGNATURE Craig A. Bock

PRINTED NAME CRAIG A. Bock
AND TITLE Environmental Representative

District I
P.O. Box 1980, Hobbs, NM
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PIT REMEDIATION AND CLOSURE REPORT

Operator: Meridian Oil Inc. Telephone: 326-9700
Address: 3535 E. 30th St, Farmington, NM 87401
Facility Or: Ramona ET AL #1
Well Name _____
Location: Unit or Qtr/Qtr Sec 3 Sec 13 T 27N R 9W County San Juan
Pit Type: Separator ☒ Dehydrator _____ Other _____
Land Type: BLM _____, State _____, Fee _____, Other Navajo Indian

Pit Location: Pit dimensions: length 16', width 12', depth 1
(Attach diagram) Reference: wellhead ☒, other _____
Footage from reference: 140'
Direction from reference: 179 Degrees ☒ East North ☒
of
_____ West 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) 20
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 1000 feet (10 points)
lakes, ponds, rivers, streams, creeks, Greater than 1000 feet (0 points) 10
irrigation canals and ditches)

RANKING SCORE (TOTAL POINTS): 30

Date Remediation Started: 7/24/95 Date Completed: 7/24/95

Remediation Method: Excavation ☒ Approx. cubic yards 67
(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: Contaminated soils within the pit area were removed and Placed on the Surface for Remediation

Ground Water Encountered: No ☐ Yes ☒ Depth 10'

Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)
Sample location 4 part Composite sample from the bottom of the excavation.
Sample depth 10'
Sample date 5/15/96 Sample time _____
Sample Results

Benzene(ppm) _____
Total BTEX(ppm) _____
Field headspace(ppm) < 100 ppm
TPH ND

Ground Water Sample: Yes ☒ No ☐ (If yes, attach sample results)
See attached Report

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF
DATE 5/31/96
SIGNATURE Craig Bock PRINTED NAME CRAIG Bock
AND TITLE Environmental Representative

MAY

Zenon
Enviri
Labor

Post-It® Fax Note 7671

Date	5/30/96	# of pages	2
To	Craig Bock		
From	Sarah Kelly		
Co./Dept	Meridian		
Co.	Philip.		
Phone #			
Fax #			



Certificate of Analysis

CLIENT INFORMATION

Attention: Sarah Kelly
Client Name: Philip Environmental Inc.
Project: 15904
Project Desc: MOI Pits

Address: 4000 Monroe Road
 Farmington, NM
 87401

Fax Number: 505 326-2388
Phone Number: 505 326-2262

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
Project: AN960169
Date Received: 96/05/16
Date Reported: 96/05/24

Submission No.: 6E0481
Sample No.: 016359-016366

Regional

Laboratories:

British Columbia

Ontario

Quebec

NOTES:

'=' = not analysed ' $<$ ' = less than Method Detection Limit (MDL) 'NA' = no data available
 LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
 Solids data is based on dry weights except for biota analyses.
 Organic analyses are not corrected for extraction recovery standards except for isotope
 dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)

Methods used by Zenon are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Seventeenth Edition. Other methods are based on the principles of MISA or EPA methodologies.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at Zenon for a period of three weeks from receipt of data or as per contract.

COMMENTS:

(1) Diesel Range Organics

Certified by

5/24/96

Zenon Environmental Laboratories - Certificate of Analysis

Page 1 of 1

Blow pit separate
pit 5/17/96

Client ID:	M6	M6	M6	M6	M6
Zenon ID:	27196-2-V	29040A-1-2-V	29040A-2-2-V	29040A-3-2-A	28983A-1-2-V
Date Sampled:	016359 96	016361 96	016362 96	016363 96	016364 96
MDL	96/05/15	96/05/15	96/05/15	96/05/15	96/05/15

Component	MDL	Units	Method	M6	M6	M6	M6	M6
BTEX via SW846 Method 8260								
Benzene	0.005	mg/kg	<	<	<0.050	-	<0.25	-
Toluene	0.005	"	0.010	0.012	0.13	-	0.23	-
Ethylbenzene	0.005	"	<	<	<0.050	-	<0.25	-
m,p-Xylene	0.005	"	<	0.008	1.5	-	23	-
o-Xylene	0.005	"	<	<	0.33	-	1.6	-
Surrogate Recoveries		%						
d4-1,2-Dichloroethane			101	103	120	-	95	-
d8-Toluene			89	100	98	-	104	-
Bromofluorobenzene			90	115	83	-	103	-
TPH via SW846 Method 8015 (mod.)	19	mg/kg	<	<	<	<	(1)	(1)
Extractable Petroleum Hydrocarbons		%					160	31
Surrogate Recoveries								
5-a-Androstane			83	103	108	77	75	105
								133

Remenda #1

DP# 29040A

See first page for
explanation of symbols

OFF: (505) 325-8786



LAB: (505) 325-5667

TOTAL PETROLEUM HYDROCARBONS

Attn: Guy L. Garretson
 Company: Meridian Oil, Inc.
 Address: P.O. Box 4289
 City, State: Farmington, NM 87499

Date: 20-Nov-95
 COC No.: 3686
 Sample No. 9266
 Job No. 2-1000

Project Name: **Meridian Oil - Ramenta #1 Land Farm**
 Project Location: **Ramenta/1/1A/1LF**
 Sampled by: GG Date: 14-Nov-95 Time: 17:30
 Analyzed by: DC Date: 17-Nov-95
 Type of Sample: Soil

Laboratory Analysis

Analyte	Result	Units of Measure	Detection Limit	Units of Measure
Gasoline Range (C5 - C9)	<5.0	mg/kg	5.0	mg/kg
Diesel Range (C10 - C28)	<5.0	mg/kg	5.0	mg/kg
	TOTAL	<5.0		mg/kg

Quality Assurance Report

GRO QC No.: 0429-STD
 DRO QC No.: 0435-STD

Calibration Check

Analyte	Method Blank	Units of Measure	True Value	Analyzed Value	% Diff	Limit
Gasoline Range (C5 - C9)	<50	ppb	1,351	1,334	1.3	15%
Diesel Range (C10 - C28)	<5	ppm	2,000	2,044	2.2	15%

Matrix Spike

Analyte	1 - Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Gasoline Range (C5-C9)	97	100	(70-130)	2	20%
Diesel Range (C10-C28)	102	111	(70-130)	6	20%

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: *DAG*
 Date: 11/20/95

P. O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-8786



LA 3: (505) 325-5667

TOTAL PETROLEUM HYDROCARBONS

Attn: Guy L. Garretson
 Company: Meridian Oil, Inc.
 Address: P.O. Box 4289
 City, State: Farmington, NM 87499

Date: 20-Nov-95
 COC No.: 3686
 Sample No. 9265
 Job No. 2-1000

Project Name: Meridian Oil - Ramenta #1 Land Farm
 Project Location: Ramenta/1/1A/2LF
 Sampled by: GG Date: 14-Nov-95 Time: 17:45
 Analyzed by: DC Date: 17-Nov-95
 Type of Sample: Soil

Laboratory Analysis

Analyte	Result	Units of Measure	Detection Limit	Units of Measure
Gasoline Range (C5 - C9)	<5.0	mg/kg	5.0	mg/kg
Diesel Range (C10 - C28)	15.6	mg/kg	5.0	mg/kg
	TOTAL	15.6		mg/kg

Quality Assurance Report

GRO QC No.: 0429-STD
 DRO QC No.: 0435-STD

Calibration Check

Analyte	Method Blank	Units of Measure	True Value	Analyzed Value	% Diff	Limit
Gasoline Range (C5 - C9)	<50	ppb	1,351	1,334	1.3	15%
Diesel Range (C10 - C28)	<5	ppm	2,000	2,044	2.2	15%

Matrix Spike

Analyte	1- Percent Recovered	2- Percent Recovered	Limit	%RSD	Limit
Gasoline Range (C5-C9)	97	100	(70-130)	2	20%
Diesel Range (C10-C28)	102	111	(70-130)	6	20%

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: *[Signature]*
 Date: 11/20/95

P. O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-8786



LAB: (505) 325-5667

TOTAL PETROLEUM HYDROCARBONS

Attn: Guy L. Garretson
Company: Meridian Oil, Inc.
Address: P.O. Box 4289
City, State: Farmington, NM 87499

Date: 20-Nov-95
COC No.: 3686
Sample No. 9264
Job No. 2-1000

Project Name: Meridian Oil - Ramenta #1 Sand Farm
Project Location: Ramenta/1/1A/3LF
Sampled by: GG Date: 14-Nov-95 Time: 18:00
Analyzed by: DC Date: 17-Nov-95
Type of Sample: Soil

Laboratory Analysis

Analyte	Result	Units of Measure	Detection Limit	Units of Measure
Gasoline Range (C5 - C9)	<5.0	mg/kg	5.0	mg/kg
Diesel Range (C10 - C28)	<5.0	mg/kg	5.0	mg/kg
	TOTAL	<5.0		mg/kg

Quality Assurance Report

GRO QC No.: 0429-STD
DRO QC No.: 0435-STD

Calibration Check

Analyte	Method Blank	Units of Measure	True Value	Analyzed Value	% Diff	Limit
Gasoline Range (C5 - C9)	<50	ppb	1,351	1,334	1.3	15%
Diesel Range (C10 - C28)	<5	ppm	2,000	2,044	2.2	15%

Matrix Spike

Analyte	1- Percent Recovered	2- Percent Recovered	Limit	%RSD	Limit
Gasoline Range (C5-C9)	97	100	(70-130)	2	20%
Diesel Range (C10-C28)	102	111	(70-130)	6	20%

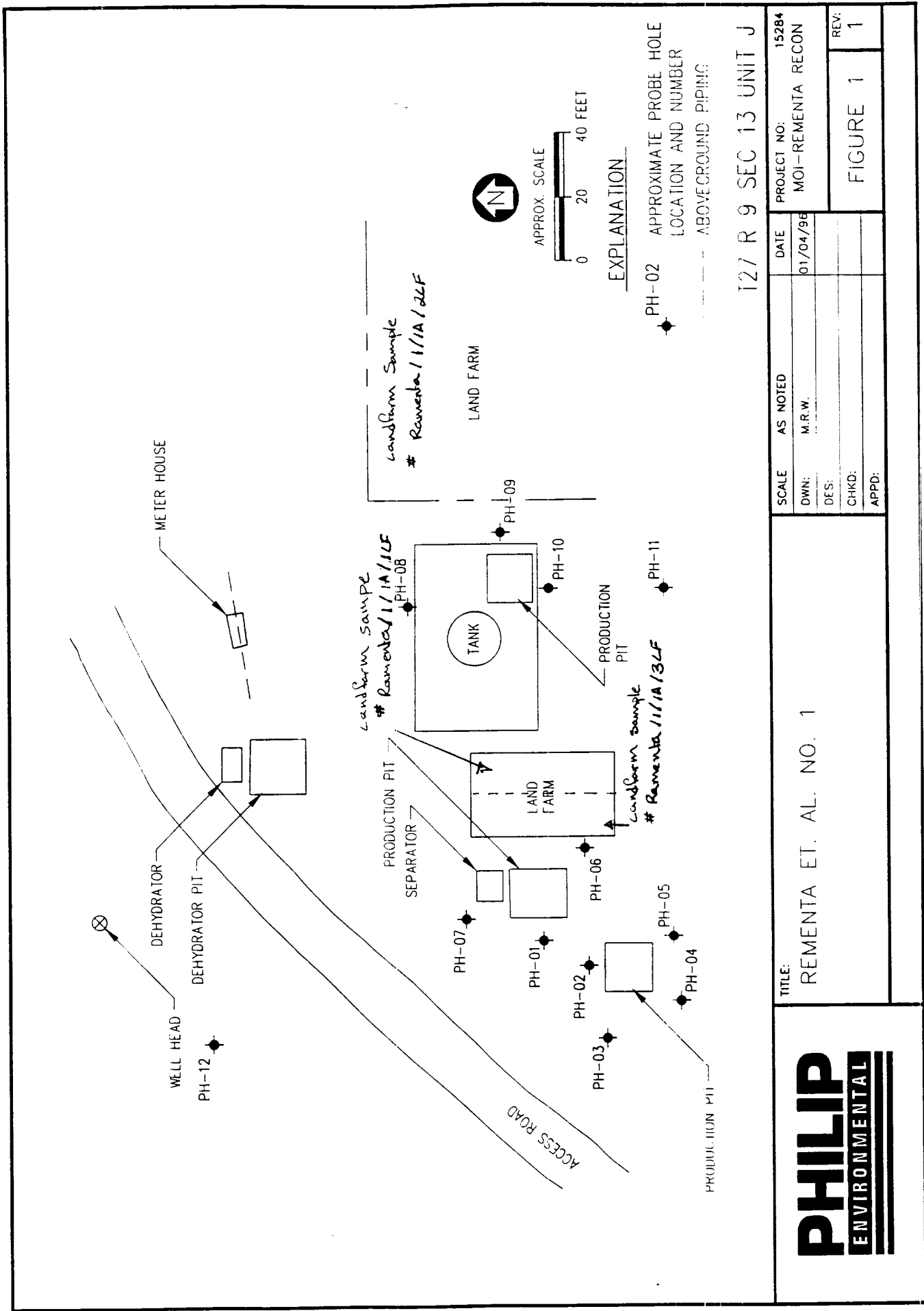
Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: 

Date: 11/20/95

P. O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



127 R 9 SEC 13 UNIT J

<div>PHILIP</div> <div>ENVIRONMENTAL</div>	TITLE: REMENTA ET. AL. NO. 1	SCALE	AS NOTED	DATE	PROJECT NO: 15284 MOI-REMENTA RECON	
		DWN:	M.R.W.	01/04/96		
		DES:				
		CHKD:			REV: 1	
		APPD:			FIGURE 1	