

Denny B. Foust
DEPUTY OIL & GAS INSPECTOR



SEP 11 0 1996
PRODUCTION PIT ASSESSMENT FORM

WELL NAME: Candelario ETAL WELL NO.: # 1 DP NO.: 28981A

OPERATOR NAME: Meridian Oil P/L DISTRICT: Ballard

COORDINATES: LETTER: B SECTION: 01 TOWNSHIP: 27 RANGE: 09

OR LATITUDE: _____ LONGITUDE: _____

PIT TYPE: DEHYDRATOR: THP LOCATION DRIP: _____ LINE DRIP: _____ OTHER: Separator
Blow Pit

SITE ASSESSMENT DATE: 3/23/95 FOREMAN NO.: 337 AREA: 309

NMOCD ZONE: (FROM NMOCD MAPS) INSIDE (1) OUTSIDE (2)

LAND TYPE: BLM (1) STATE (2) FEE (3) INDIAN Navajo

DEPTH TO GROUNDWATER

LESS THAN 50 FT (20 POINTS) (1)

50 FT TO 99 FT (10 POINTS) (2)

GREATER THAN 100 FT (0 POINTS) (3)

WELLHEAD PROTECTION AREA:
Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction?, or; is it less than 200 ft from a private domestic water source (or 1000' on Navajo surface)?

(1) YES (20 POINTS)

(2) NO (0 POINTS)

HORIZONTAL DISTANCE TO SURFACE WATER BODY

LESS THAN 200 FT (20 POINTS) (1)

200 FT TO 1000 FT (10 POINTS) (2)

GREATER THAN 1000 FT (0 POINTS) (3)

NAME OF SURFACE WATER BODY Blanco Canyon Wash

(Surface Water Body: Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)

DISTANCE TO NEAREST EPHEMERAL STREAM (1) < 100' (NAVAJO PITS ONLY)

(2) > 100'

TOTAL HAZARD RANKING SCORE: 60 POINTS

WELL NAME: Candeharia ETAL WELL NO.: #1 DP No.: 28981A

OPERATOR NAME: Meridian Oil P/L DISTRICT: Ballard

COORDINATES: LETTER: B SECTION: 01 TOWNSHIP: 27 RANGE: 09

PIT TYPE: DEHYDRATOR: _____ LOCATION DRIP: _____ LINE DRIP: _____ OTHER: ^{Separator} Below Pit

FOREMAN No.: 337 AREA: 309

INITIAL REMEDIATION ACTIVITIES

DATE: 7-25-95 TIME: 1430

GROUND WATER ENCOUNTERED? Y N

INSIDE NMOCD ZONE

FINAL EXCAVATION DIMENSIONS: LENGTH: 4' WIDTH: 4' DEPTH: 6'

APPROX. CUBIC YARDS: 3.5 FINAL PID READING: 30

REMEDICATION METHOD: ONSITE LANDFARM _____

OFFSITE LANDFARM _____ LOCATION: _____

OTHER Back Aug by pit.

LANDFARM DIMENSIONS: LENGTH: _____ WIDTH: _____

OUTSIDE NMOCD ZONE

FINAL SAMPLE DEPTH: _____ FINAL PID READING: _____

EXCAVATION SAMPLING INFORMATION

IF PID READINGS ARE LESS THAN 100 PPM, SAMPLE TAKEN DURING EXCAVATION)

SAMPLE DATE: 7-25-95 SAMPLE NOS Can #1-A

SAMPLE ANALYSIS: TPH METHOD 418.1 ONLY

IF PID READINGS ARE GREATER THAN 100 PPM, NO SAMPLE WILL BE TAKEN DURING EXCAVATION.
THE EXCAVATION WILL BE SAMPLED PRIOR TO BACKFILLING (SEE ADDITIONAL SAMPLING SECTION).

REMARKS: Pit was real small, Aug down in center took 5 point composite sample. It was 30 ppm Put fence up + left open.

SIGNATURE: James J. Larrow

DATE: 7-25-95

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.: 3694
 Sample No. 9274
 Job No. 2-1000

Project Name: *Meridian Oil - Candelario #1 Landfarm.*
 Project Location: *Candelario/1/1A/LF*
 Sampled by: GG Date: 14-Nov-95 Time: 15:35
 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) | 5.6 | mg/kg | 5.0 | mg/kg |
| | TOTAL | 5.6 | | 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: *Ja4*
 Date: *11/20/95*

P. O. BOX 2606 • FARMINGTON, NM 87499

Lab ID: 9507248-11A
Sample ID: CAN #1-A

Collected: 07/25/95 15:00:00
Matrix: SOIL

| TEST / METHOD | RESULT | UNITS | LIMIT | D_F | DATE ANAL | BATCH_ID |
|---------------------------------------|--------|-------|-------|-----|-----------|----------|
| TRPH/EPA 418.1 Total Petroleum HCs | 55.5 | mg/Kg | 5.0 | 1.0 | 08/02/95 | STRPH275 |

Lab ID: 9507248-12A
Sample ID: CAN #1-B

Collected: 07/26/95 10:15:00
Matrix: SOIL

| TEST / METHOD | RESULT | UNITS | LIMIT | D_F | DATE ANAL | BATCH_ID |
|---------------------------------------|--------|-------|-------|-----|-----------|----------|
| TRPH/EPA 418.1 Total Petroleum HCs | 10.1 | mg/Kg | 5.0 | 1.0 | 08/02/95 | STRPH275 |

Lab ID: 9507248-13A
Sample ID: CHAR #2-A

Collected: 07/26/95 11:15:00
Matrix: SOIL

| TEST / METHOD | RESULT | UNITS | LIMIT | D_F | DATE ANAL | BATCH_ID |
|---------------------------------------|--------|-------|-------|-----|-----------|----------|
| TRPH/EPA 418.1 Total Petroleum HCs | 11.8 | mg/Kg | 5.0 | 1.0 | 08/02/95 | STRPH275 |

Lab ID: 9507248-14A
Sample ID: HUER #97-A

Collected: 07/26/95 13:30:00
Matrix: SOIL

| TEST / METHOD | RESULT | UNITS | LIMIT | D_F | DATE ANAL | BATCH_ID |
|---------------------------------------|--------|-------|--------|------|-----------|-----------|
| BTEX/SW846 8020A | | | | | | |
| Benzene | ND | mg/Kg | 0.0010 | 5000 | 08/08/95 | SGCVOA136 |
| Toluene | 9.4 | mg/Kg | 0.0010 | 5000 | 08/08/95 | SGCVOA136 |
| Ethylbenzene | ND | mg/Kg | 0.0010 | 5000 | 08/08/95 | SGCVOA136 |
| P-&m-Xylene | 30 | mg/Kg | 0.0020 | 5000 | 08/08/95 | SGCVOA136 |
| O-Xylene | ND | mg/Kg | 0.0010 | 5000 | 08/08/95 | SGCVOA136 |
| TRPH/EPA 418.1 Total Petroleum HCs | 251 | mg/Kg | 5.0 | 5.0 | 08/07/95 | STRPH277 |

Lab ID: 9507248-15A
Sample ID: HUER #97-B

Collected: 07/26/95 14:15:00
Matrix: SOIL

| TEST / METHOD | RESULT | UNITS | LIMIT | D_F | DATE ANAL | BATCH_ID |
|------------------|--------|-------|--------|------|-----------|-----------|
| BTEX/SW846 8020A | | | | | | |
| Benzene | ND | mg/Kg | 0.0010 | 5000 | 08/08/95 | SGCVOA136 |
| Toluene | 25 | mg/Kg | 0.0010 | 5000 | 08/08/95 | SGCVOA136 |
| Ethylbenzene | 7.0 | mg/Kg | 0.0010 | 5000 | 08/08/95 | SGCVOA136 |
| P-&m-Xylene | 97 | mg/Kg | 0.0020 | 5000 | 08/08/95 | SGCVOA136 |
| O-Xylene | 15 | mg/Kg | 0.0010 | 5000 | 08/08/95 | SGCVOA136 |
| TRPH/EPA 418.1 | | | | | | |