

Donny E. Frost
District II
P.O. Box 1987, Hobbs, NM
SECURITY OIL & GAS INSPECTOR
District III
P.O. Drawer DD, Artesia, NM
88211
JUN 23 1998
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
(Revised 3/9/94)

Approved
PIT REMEDIATION AND CLOSURE REPORT

Operator: Conoco, Inc Telephone: 915-686-5453

Address: 10 Destra Drive, Suite 100W, Midland, TX 79705-4500

Facility Or

Well Name: Mudge Federal #4 Pit #1

Location: Unit or Qtr/Qtr Unit D Sec 33 T27N R11W County San Juan

Pit Type: Separator Dehydrator X Other

Land Type: BLM X, State , Fee , Other

Pit Location: Pit dimensions: length 30', width 30' depth 3'
(Attach diagram)

Reference: wellhead X, other

Footage from reference: 70'

Direction from reference: Degrees East North
of
 West South X

Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water) **RECEIVED** MAR 23 1998
Less than 50 feet (20 points)
50 feet to 99 feet (10 points)
Greater than 100 feet (0 points)
0

OIL CON. DIV.
DIST. 3

Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources) 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)
0

RANKING SCORE (TOTAL POINTS):
0

Date Remediation Started: Unknown Date Completed: 9/16/97

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

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

General Description Of Remedial Action:

Three samples were taken, at 3 feet below the bottom of the pit.
Samples taken at, center of pit, south and west sidewall of pit.
Center sample PID reading 28.0 ppm south sidewall PID reading 20.4 ppm
and west sidewall PID reading 23.6 ppm.
The samples were split, composited and placed into a clean jar with a
Teflon® Closure.
Samples was transported to laboratory for TPH analysis per EPA Method
8015M. Lab. results for TPH, 12.0 ppm.
Pit covered during site rehab on 9/16/97.
Ground Water Encountered: No X Yes _____ Depth _____

Final Pit:

Closure Sampling:

(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location: 3 point composite of center, south and west sidewall of pit

Sample depth: 3' below bottom of pit.

Sample date: 7/4/97

Sample time: 1146

Sample Results

Benzene (ppm)

Total BTEX (ppm) 20.0 to 28.0 range.

Field headspace (ppm)

TPH (ppm) 12.0

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 3/19/98

SIGNATURE Shirley L. Ebert

PRINTED NAME
AND TITLE

SHIRLEY L. EBERT SHEAR & SHELTON

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Larry Trujillo*
Company: *On Site Technologies, Ltd. c/o Conoco*
Address: *612 E. Murray Drive*
City, State: *Farmington, NM 87401*

Date: *11-Jun-97*
COC No.: *6397*
Sample No.: *14833*
Job No.: *4-1403*

Project Name: *Conoco - Mudge Federal #4*
Project Location: *Mudge #4; Pit #1, @ 8' below base*
Sampled by: *LT* Date: *4-Jun-97* Time: *11:24*
Analyzed by: *DC/HR* GRO Date: *6-Jun-97*
Sample Matrix: *Soil* DRO Date: *6-Jun-97*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Gasoline Range Organics (C5 - C9)</i>	ND	mg/kg	0.5	mg/kg
<i>Diesel Range Organics (C10 - C28)</i>	12	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

GRO QC No.: 0537-STD

DRO QC No.: 0548-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
<i>Gasoline Range (C5 - C9)</i>	ND	ppb	1,351	1,227	9.6	15%
<i>Diesel Range (C10 - C28)</i>	ND	ppm	100	106	5.6	15%

Matrix Spike

Parameter	1- Percent Recovered	2- Percent Recovered	Limit	RPD	RPD Limit
<i>Gasoline Range (C5-C9)</i>	93	96	(80-120)	3	20%
<i>Diesel Range (C10-C28)</i>	76	89	(84-118)	15	20%

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

Approved by: *[Signature]*
Date: *6/11/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

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CHAIN OF CUSTODY RECORD

6397

Date: 6/11/1991Page 1 of 1

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

[illegible]

Distribution: White - On Site Yellow - LAB Pink - Sampler Goldonrod - Client

District I
P.O. Box 1980, Hobbs, NM

State of New Mexico
Energy, Minerals and Natural Resources Department

SUBMIT 1 COPY TO
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AND 1 COPY TO
SANTA FE OFFICE

District II
P.O. Drawer DD, Artesia, NM
88211

District III
1000 Rio Brazos, Santa Fe, NM 87504
NM 87504
DEPUTY OIL & GAS INSPECTOR

OIL CONSERVATION DIVISION
P.O. Box 2088

Santa Fe, New Mexico 87504-2088

(Revised 3/9/94)

JUN 23 1998

PIT REMEDIATION AND CLOSURE REPORT

Operator: Conoco, Inc Telephone: 915-686-5453

Address: 10. Destra Drive, Suite 100W, Midland, TX 79705-4500

Facility Or
Well Name: Mudge Federal #4 Pit #2

Location: Unit or Qtr/Qtr Unit D Sec 33 T27N R11W County San Juan

Pit Type: Separator Dehydrator X Other

Land Type: BLM X, State , Fee , Other

Pit Location: Pit dimensions: length 30', width 30' depth 3'
(Attach diagram)

Reference: wellhead X, other

Footage from reference: 125'

Direction from reference: Degrees X 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)
<u>0</u>	

Wellhead Protection Area:

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

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

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)
<u>0</u>	

RANKING SCORE (TOTAL POINTS):

0

Date Remediation Started: Unknown _____ Date
Completed: 9/16/97 _____

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

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

General Description Of Remedial Action:

Three sample were taken, center of pit, east and west sidewall of pit.
Center sample PID reading 17.5 ppm, east sidewall. PID reading 20.1 ppm
and west sidewall PID reading 12.6 ppm. The samples were, composited and
placed into a clean jar with a Teflon® closure.

Sample was transported to laboratory for TPH analysis per EPA Method 8015.
Lab. results for TPH, 7.0 ppm.

Pit covered during site rehab on 9/16/97.

Ground Water Encountered: No ☒ Yes _____ Depth _____

Final Pit:

Closure Sampling:

(if multiple samples,
attach sample results
and diagram of sample
locations and depths)

Sample location: 3 point composite of center, east and
west sidewall of pit

Sample depth: 3' below bottom of pit.

Sample date: 7/4/97

Sample time: 1131

Sample Results

Benzene (ppm)

Total BTEX (ppm)

Field headspace (ppm) Center 17.5

East sidewall 20.1

West sidewall 12.6

TPH 7.0 ppm

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 3/19/98

SIGNATURE Shirley L. Ebert

PRINTED NAME
AND TITLE

Shirley L. Ebert Site Air Spec.

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Larry Trujillo*
 Company: *On Site Technologies, Ltd. c/o Conoco*
 Address: *612 E. Murray Drive*
 City, State: *Farmington, NM 87401*

Date: *11-Jun-97*
 COC No.: *6397*
 Sample No.: *14834*
 Job No.: *4-1403*

Project Name: *Conoco - Mudge Federal #4*
 Project Location: *Mudge #4; Pit #2*
 Sampled by: *LT* Date: *4-Jun-97* Time: *11:31*
 Analyzed by: *DC/HR* GRO Date: *6-Jun-97*
 Sample Matrix: *Soil* DRO Date: *6-Jun-97*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Gasoline Range Organics (C5 - C9)</i>	ND	mg/kg	0.5	mg/kg
<i>Diesel Range Organics (C10 - C28)</i>	7	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

GRO QC No.: 0537-STD

DRO QC No.: 0548-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
<i>Gasoline Range (C5 - C9)</i>	ND	ppb	1,351	1,227	9.6	15%
<i>Diesel Range (C10 - C28)</i>	ND	ppm	100	106	5.6	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Gasoline Range (C5-C9)</i>	93	96	(80-120)	3	20%
<i>Diesel Range (C10-C28)</i>	76	89	(84-118)	15	20%

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

Approved by: *[Signature]*
 Date: *6/11/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH YOU

CHAIN OF CUSTODY RECORD

1500

Date:

Page 1 of 1

TECHNOLOGIES, LTD.

[illegible]

Distribution: White – On Site Yellow – LAB Pink – Sampler Goldenrod – Client