

District I
P.O. Box 1980, Hobbs, NM
District
P.O. Drawer DD, Artesian, NM
88211
DEPUTY OIL & GAS INSPECTOR
1000 Rio Brazos Rd. Aztec, NM
87410

JUN 23 1998

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: Twin Mounds 30-1
Well Name _____
Location: Unit or Qtr/Qtr D Sec 30 T30N R14W County San Juan
Pit Type: Separator X Dehydrator _____ Other _____
Land Type: BLM X State _____ Fee _____ Other _____

Pit Location: Pit dimensions: length 15', width 15', depth 2'
(Attach diagram)
Reference: wellhead X, other _____
Footage from reference: 200'
Direction from reference: 45 Degrees _____ East North _____
of
_____ West South X

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

RECEIVED
FEB - 9 1998

Less than 50 feet (20 points)
50 feet to 99 feet (10 points)
Greater than 100 feet (0 points)
0

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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DIST. 3

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: 7/21/97 Date Completed: 7/29/97

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: Pit sampled on 7-21-97. A samples was taken at center three feet below pit bottom at bed rock (sandstone) PID reading on sample was 832 ppm, sample was submitted to Lab for TPH analysis total TPH 6678 ppm. Pit closed during site rehabilitation on 7/30/97. Pit covered during site re-hab on July 29, 1997.

Closed per Attached Risk-Based Closure

Ground Water Encountered: No ☒ Yes _____ Depth _____

Final Pit:

Sample location: Sample taken from center of pit

Closure Sampling:

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

Sample depth Three feet below bottom of the pit at bedrock

Sample date 7-21-1997 Sample time 1058 hours

Sample Results

Benzene (ppm) _____

Total BTEX (ppm) _____

Field headspace (ppm) 832

TPH 6678

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

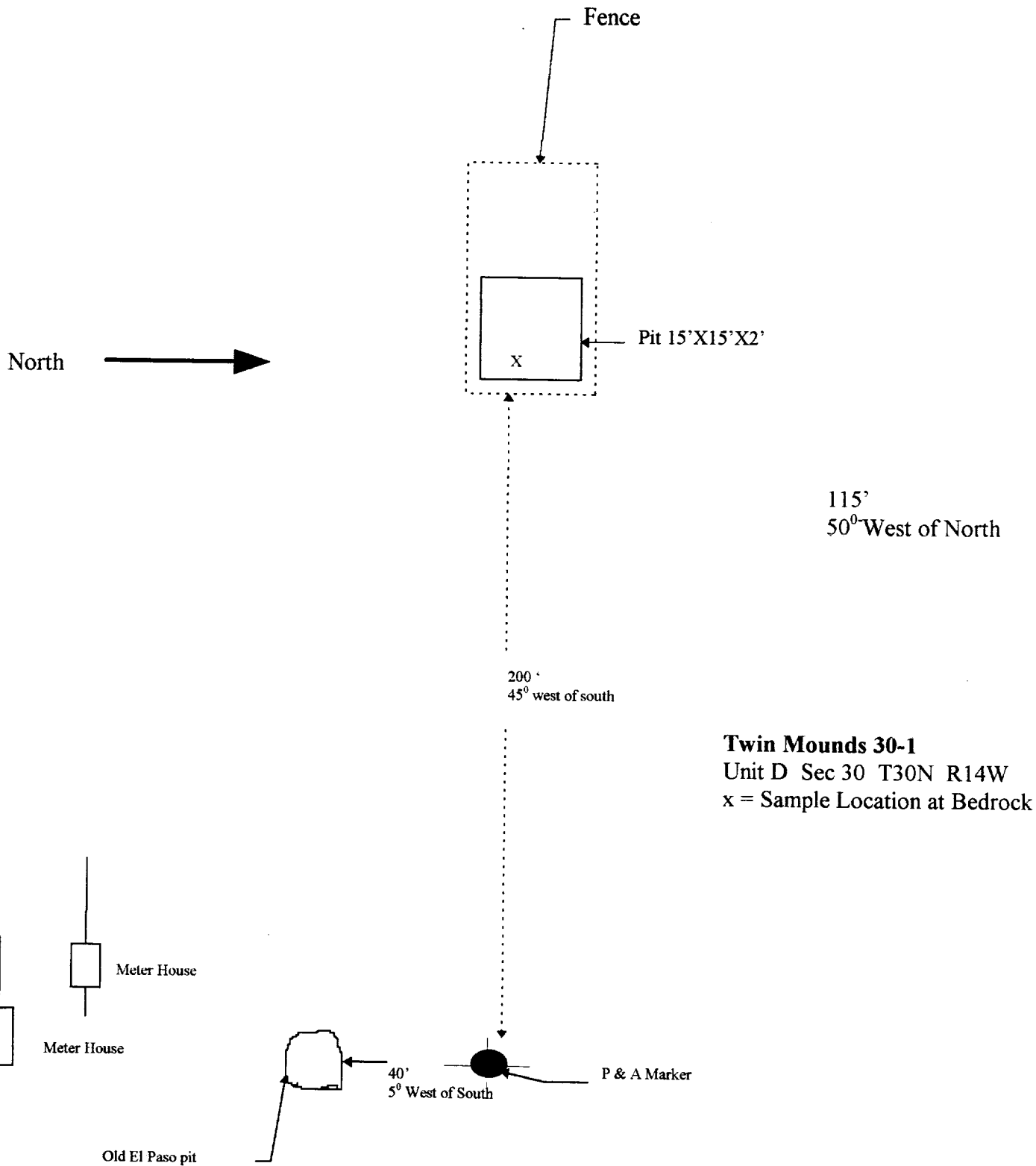
SIGNATURE

Shirley L. Ebert

PRINTED NAME
AND TITLE

Shirley L. Ebert

Shear Specialist



Operator: Conoco
Location Name: Twin Mounds 30-1
Pit:
Location: Unit D, Sec. 30, T30N, R14W
Risk Ranking: 0

RATIONAL FOR RISK-BASED CLOSURE OF PRODUCTION PITS LOCATED OUTSIDE OF THE VULNERABLE ZONE IN SAN JUAN BASIN

This production pit location was ranked according to the criteria in the New Mexico Oil Conservation Division's Unlined Surface Impoundment Closure Guidelines and received a ranking score of zero. The estimated depth to groundwater is greater than 100-feet beneath ground surface (bgs), the pit is not in a well head protection area, and there is no surface water bodies within 1,000 horizontal feet of the pit location.

The primary source, discharge to pit has been removed. There has been no discharge to the pit for at least four (4) years and the pit has been closed for at least one year.

Each pit was back filled with clean soil and graded in a manner to divert precipitation away from excavated area. Minimal infiltration of rainfall is expected. Any rainfall that does infiltrate the ground surface must migrate through clean backfill before reaching the residual hydrocarbons.

There is no source material at the ground surface, so direct contact with livestock and populous is not likely.

In general, outside of the vulnerable area and alluvial valleys, bedrock material is generally encountered within twenty (20) feet of the ground surface. Bedrock material in the San Juan Basin consists of interbedded sandstones, shales and clays. According to Freeze and Cherry, 1979, the hydraulic conductivity of the bedrock material are as follows:

Sandstone	10^{-9} to 10^{-13} cm/sec
Shale	10^{-12} to 10^{-16} cm/sec
Clay	10^{-12} to 10^{-15} cm/sec

Based on this information, the residual hydrocarbons should not migrate to groundwater.

Natural process (bioremediation) are degrading the residual hydrocarbon to carbon dioxide and water and will continue until source is gone, therefore minimizing any impact to the environment.

Based on the above information, it is highly unlikely that any source material will impact groundwater or ever find an exposure pathway to effect human health, therefore

Conoco Inc. requests closure of this pit location.

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: *24-Jul-97*
 COC No.: *6635*
 Sample No.: *15417*
 Job No.: *4-1356*

Project Name: *Conoco, Inc. - Twin Mounds 30-1*
 Project Location: *4-1356 Sample #1*
 Sampled by: *LT* Date: *21-Jul-97* Time: *10:58*
 Analyzed by: *DC* GRO Date: *21-Jul-97*
 Sample Matrix: *Soil* DRO Date: *22-Jul-97*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Gasoline Range Organics (C5 - C9)</i>	<i>532</i>	<i>mg/kg</i>	<i>250</i>	<i>mg/kg</i>
<i>Diesel Range Organics (C10 - C28)</i>	<i>6146</i>	<i>mg/kg</i>	<i>10</i>	<i>mg/kg</i>

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>	<i>ND</i>	<i>ppb</i>	<i>1,351</i>	<i>1,208</i>	<i>11.1</i>	<i>15%</i>
<i>Diesel Range (C10 - C28)</i>	<i>ND</i>	<i>ppm</i>	<i>200</i>	<i>194</i>	<i>2.9</i>	<i>15%</i>

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
<i>Gasoline Range (C5-C9)</i>	<i>106</i>	<i>95</i>	<i>(80-120)</i>	<i>10</i>	<i>20%</i>
<i>Diesel Range (C10-C28)</i>	<i>88</i>	<i>93</i>	<i>(84-118)</i>	<i>5</i>	<i>20%</i>

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

Approved by: *[Signature]*
 Date: *7/24/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- FORMULA TO BE USED IN CONJUNCTION WITH THE ANALYSIS REPORT -

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	Goldenrod -- Client
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