

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

SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO

OIL CONSERVATION DIVISION
P.O. Box 2088

SANTA FE OFFICE

Santa Fe, New Mexico 87504-2088

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

01382
12/14/00
Approved

Operator: Conoco Inc Telephone: (505) 325-5813

Address: 3315 Bloomfield Highway Farmington, New Mexico 87401

Facility Or: Shephard & Kelsey #1E

Well Name

Location: Unit or Qtr/Qtr Sec D Sec 29 T29N R11W County San Juan

Pit Type: Separator Dehydrator Other

Land Type: BLM , State , Fee , Other

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

Reference: wellhead , other: **See Attached Report**

Footage from reference:

Direction from reference: 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 high water elevation of ground water) Greater than 100 feet (0 points)
10



Wellhead Protection Area: Yes (20 points)
(Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources) No (0 points) 0

Distance To Surface Water: Less than 200 feet (20 points)
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches) 200 feet to 1000 feet (10 points)
Greater than 1000 feet (0 points)
10

RANKING SCORE (TOTAL POINTS): 20

Date Remediation Started: _____ Date Completed: _____

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:

Refer to Attached Report

Ground Water Encountered: No _____ Yes _____ Depth _____

Final Pit: Sample location

Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Refer to attached report for Sampling and laboratory results.

Sample depth
Sample Date _____ Sample Time _____

Sample Results
Benzene (ppm) _____
Total BTEX (ppm) _____
Field headspace (ppm) _____
TFH _____

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: 2/10/00

SIGNATURE Shirley L. Ebert

PRINTED NAME Shirley L. Ebert TITLE FES



January 5, 2000

Conoco, Inc., Mid-Continent Region
Attn.: Ms. Shirley Ebert, Field SHEAR Specialist
3314 Bloomfield Hwy.
Farmington, NM 87401

RE: Final Closure Report
Conoco Location: Shephard & Kelsey #1E
Unit D, Sec. 29, T29N, R11W, NMPM, San Juan Co., NM

Project #: 4-1429

The following document is a summary of action at the Conoco location, Shephard & Kelsey #1 E and a request for closure of the location for ground water monitoring.

SUMMARY OF EVENTS:

During February, 1997, hydrocarbon contaminated soils were excavated from two areas at the Shephard and Kelsey #1E location, near a former produced water storage tank that had leaked and in the area of a former covered unlined production pit.

The produced water tank excavation involved an area of approximately 2,325 square feet, and ranged in depth from two (2) to six (6) feet below the ground surface. Approximately 180 cubic yards of soil were removed for offsite disposal and treatment. No ground water was encountered in the excavation. A monitoring well was located in the excavation and advanced to eleven feet. A ground water sample collected in March 1997, from this monitoring well indicated no impact from hydrocarbons and the site was recommended for closure.

The production pit excavation involved an area of approximately 220 square feet and to a depth of 4.5 feet below the ground surface. Approximately 30 cubic yards of contaminated soil were removed for offsite disposal and treatment. Shallow ground water was encountered in the excavation. A monitoring well was placed in the excavation prior to backfilling. A ground water sample collected in March 1997, from this monitoring well indicated residual BTEX contamination above New Mexico Water Quality Control Commission (NMWQCC) standards.

In August 1997 two additional monitoring wells were installed, and a ground water monitoring program initiated for this site. At that time, it is anticipated that ground water quality would improve by natural attenuation, since the main source of contamination was removed. During the calendar year 1997, three monitoring events were completed, in March, August and December 1997. The laboratory results for August and December 1997 were below NMWQCC.

During 1998 two sampling events were conducted, in March and June, laboratory results for the two sampling events were below NMWQCC standards for all three (3) monitoring wells, no other action has been taken at the referenced location.

This location has met the requirement of four (4) consecutive quarters of water quality for BTEX contamination at or below NMWQCC standards, indicating successful remediation of impacted ground water.

On behalf of Conoco Inc., *On Site Technologies Limited Partnership* requests that the referenced location be closed and that permission be granted by NMOCD to plugged and abandon the monitoring wells at this location in accordance with current regulation.

PO Box 2606
Farmington, NM

505-325-5667

FAX: 505-327-1496

REFERENCES

All excavation efforts, monitoring well installation and laboratory results were previously reported in the following references.

On Site Technologies, Ltd., April 16, 1997. letter to Mr. W. L. Brignon, Senior Council Conoco, Inc. Midland Division, regarding: *Former Production Pit Assessment and Remediation, Conoco Location, Shephard & Kelsey #1E, Unit D, Sec. 29, T29N, R11W, NMPM, San Juan Co., NM.*

On Site Technologies, Ltd., April 28, 1997. letter to Mr. W. L. Brignon, Senior Council Conoco, Inc. Midland Division, regarding: *Former Production Tank Leak, Assessment and Remediation, Conoco Location, Shephard & Kelsey #1E, Unit D, Sec. 29, T29N, R11W, NMPM, San Juan Co., NM.*

On Site Technologies, Ltd., February 1, 1998. letter to Ms. S. Ebert Field SHEAR Specialist, Conoco, Inc. Mid-Continent Region, regarding: *1997 Annual Ground Water Report, Conoco Location, Shephard & Kelsey #1E, Unit D, Sec. 29, T29N*

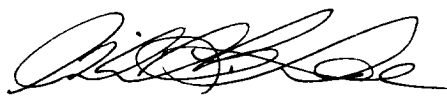
On Site Technologies, Ltd., February 8, 1999. letter to Ms. S. Ebert Field SHEAR Specialist, Conoco, Inc. Mid-Continent Region, regarding: *1998 Annual Ground Water Report, Conoco Location, Shephard & Kelsey #1E, Unit D, Sec. 29, T29N*

If there are any questions regarding this report, please contact either Myke Lane or Larry Trujillo at On Site Technologies, (505) 325-5667. Thank you for your consideration.

Respectfully submitted,

Reviewed by:


Larry Trujillo, CHMM
Project Manager


Michael K. Lane, P.E.
Senior Engineer

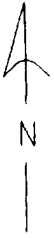
On Site Technologies, Limited Partnership

Attachments:
BTEX Summary Table
Site Map

BTEX Analytical Summary
 Shephard & Kelsey #1E
 Unit D, Sec. 29, T29N, R11W

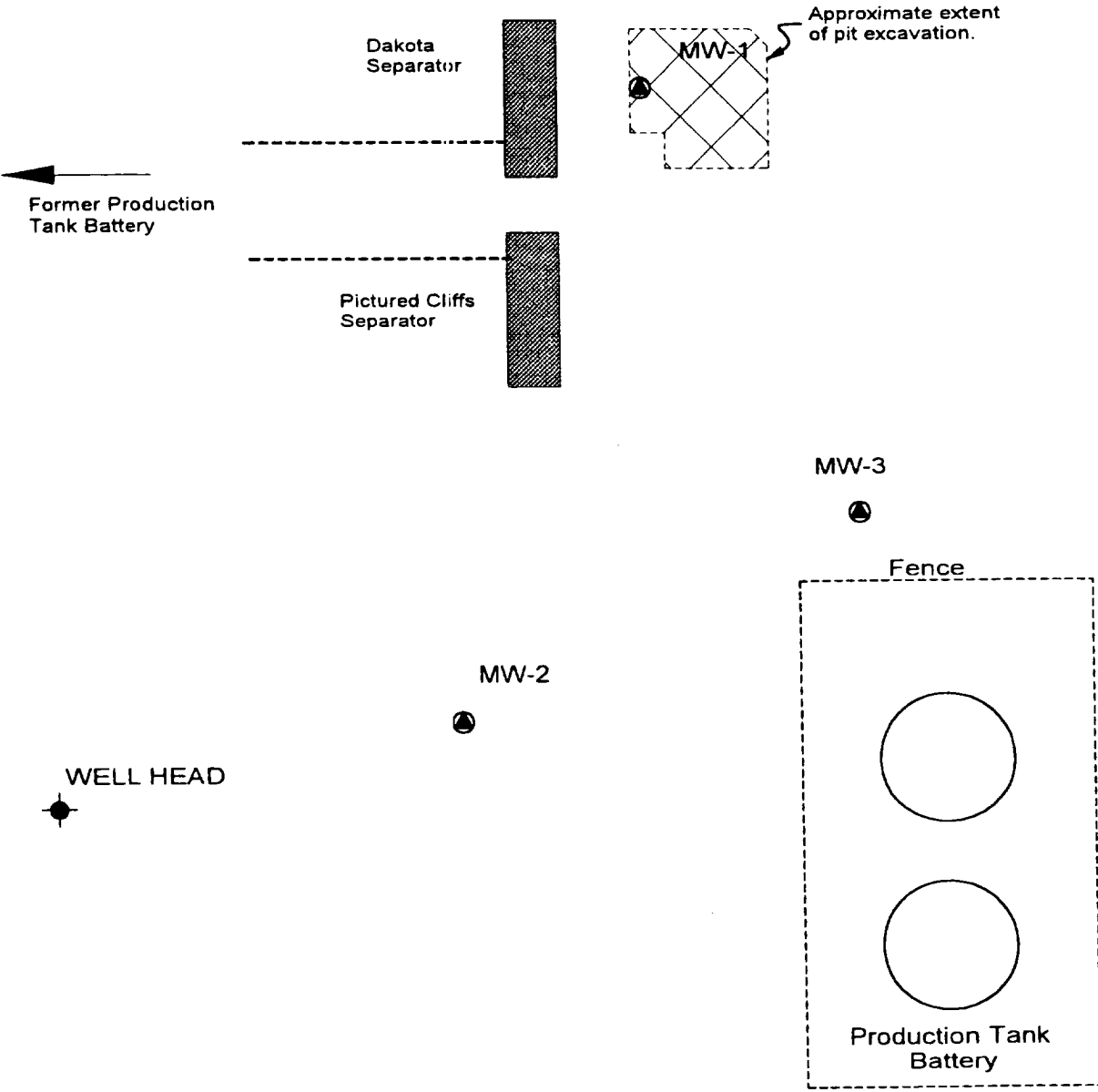
| Sample Date | Sample ID# | Monitor Well | Remarks | BTEX per EPA 8020 (ppb) | | | | |
|-------------|-------------|--------------|--------------|-------------------------|---------|--------------|--------------|--|
| | | | | Benzene | Toluene | Ethylbenzene | Total Xylene | |
| 03/20/97 | 13999 | Sep.Pit MW | On Site Lab. | 50.3 | 10.2 | 6.3 | 43.9 | |
| 08/19/97 | 15825 | MW-1 | | 7.8 | BDL | BDL | 0.2 | |
| 12/30/97 | 17247 | | | 1.6 | BDL | BDL | 0.2 | |
| 3/13/98 | 9803044-01A | | | 0.5 | BDL | BDL | BDL | |
| 6/9/98 | 9806030-01A | | | BDL | BDL | BDL | BDL | |
| 08/20/97 | 15830 | MW-2 | On Site Lab. | BDL | BDL | BDL | BDL | |
| 12/30/97 | 17248 | | | BDL | BDL | BDL | BDL | |
| 3/13/98 | 9803044-02A | | | BDL | BDL | BDL | BDL | |
| 6/9/98 | 9806030-02A | | | BDL | BDL | BDL | BDL | |
| 08/20/97 | 15381 | MW-3 | On Site Lab. | BDL | BDL | BDL | BDL | |
| 12/30/97 | 17249 | | | BDL | BDL | BDL | BDL | |
| 03/13/98 | 9803044-03A | | | BDL | BDL | BDL | BDL | |
| 6/9/98 | 9806030-03A | | | BDL | BDL | BDL | BDL | |
| WQCC | ACTION | LEVELS | | 10.0 | 750.0 | 750.0 | 620.0 | |

BDL Below Detection Levels



Scale: 1" = 20'

● Approximate location of ground water monitoring wells



| | | | | |
|---|-------------------|--------------------------|--|--|
| SHEPHARD & KELSEY #1E NE/NE, Sec. 29, T29W, R11W SAN JUAN BASIN, NM | | <h1>Site Sketch</h1> | | <p>ON SITE TECHNOLOGIES, LTD. P.O. BOX 2606, FARMINGTON, NM 87499 (505) 325-5667</p> |
| PROJECT NO: 4-1303-5 | | | | |
| FIGURE: 1 | FILE: 41303F1.CAD | PROJECT: Pit Reclamation | | |