

3R - 96

REPORTS

DATE:

1999



February 14, 2000

Mr. Wm. "Bill" Olsen, Hydrologist
 NMOCD
 P. O. Box 2088
 Santa Fe, NM, 87504 - 2088

RE: Conoco Groundwater Report Summary

On behalf of Conoco *On Site Technologies Limited Partnership*, is submitting the enclosed 1999 Annual Groundwater report for twelve (12) sites.

LOCATION NAME	LEGAL DESCRIPTION	RECOMMENDATION
Farmington B Com 1	Unit H, S 12, T29N, R12W	WSP-1 still has high BTEX, all other at or below NMWQCC standards, continue monitoring of WSP #1
San Juan 28-7#19	Unit G, S 25, T28N, R7W	Sample well in March, 2000, if below NMWQCC standard, discontinue sampling and complete pit closure report.
San Juan 28-7#47	Unit A, S 20, T28N, R7W	Sample well in March, 2000, if below NMWQCC standard, discontinue sampling and complete pit closure report.
Nell-Hall#1	Unit M, S 07, T30N, R11W	Continue to monitor as required in NMCOD letter dated September, 1998
Farmington C Com 1	Unit L, S 15, T29N, R13W	Continue to monitor as required in NMCOD letter dated September, 1998
Farmington B Com 1E	Unit O, S 15, T29N, R13W	Free product is still present in MW-1. ORC socks are saturated and appear to have become ineffective (refer to enclosed report).
Salmon # 1	Unit P, S 30, T29N, R11W	DG#2 still has high BTEX, Continue monitoring in accordance with NMOCD letter dated September, 1998, ASTs installed on the location by the landowner (refer to enclosed report) up gradient of DG#2.
San Juan 28-7#126	Unit M, S 1, T27N, R7W	4 quarters of sampling below NMWQCC standards, recommend closure, pit closure report enclosed.
San Juan 28-7#219	Unit N, S 20, T28N, R7W	4 quarters of sampling below NMWQCC standards, recommend closure, pit closure report enclosed.
S&K1	Unit L, S 29, T29N, R11W	4 quarters of sampling below NMWQCC standards recommend closure, pit closure report enclosed.
Farmington Com 1	Unit P, S 11, T29N, R13W	4 quarters of sampling below NMWQCC standards recommend closure, pit closure report enclosed.
S&K1E	Unit D, S 29, T29N, R11W	4 quarters of sampling below OCD action levels recommend closure, pit closure report enclosed.

PO Box 2606
 Farmington, NM

505-325-5667

FAX: 505-327-1496

February 14, 2000

Conoco Inc.
Summary of 1999 Ground Water Monitoring
On Site Technologies, Ltd.

If there are any questions or concerns on this matter, feel free to contact me at (505) 325-5667.

Thank you for your time and considerations.

Respectfully submitted,



Larry Trujillo, CHMM
Environmental Specialist
On Site Technologies Limited Partnership

CC:

Shirley Ebert, SHEAR, Conoco Inc., Farmington Office
Neal Goates, Sr. Environmental Specialist, Conoco Inc.
Denny Foust, NMOCD Aztec Office
Bill Liess, BLM Farmington Office
File

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
AND 1 COPY TO

SANTA FE OFFICE

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

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

Address: 3315 Bloomfield Highway Farmington, New Mexico 87401

Facility Or: San Juan 28-7-219

Well Name

Location: Unit or Qtr/Qtr Sec N Sec 20 T28N R7W 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 Greater than 100 feet (0 points)
high water elevation of
ground water) 10

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)
irrigation canals and ditches) 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) _____

TPH _____

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 FSS

ON SITE
TECHNOLOGIES, LTD.

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: San Juan 28-7-219
Unit N, Sec. 20, T28N, R7W, NMPM, San Juan Co., NM

Project # 2-1361

The following report document is a summary of action at the Conoco location, San Juan 28-7-219 and request for closure of the location for ground water monitoring.

SUMMARY:

During 1996 and 1997 this location was sampled for BTEX constituents in accordance with Conoco's ground water monitoring plan. Laboratory results indicated that BTEX levels of contamination were at or below New Mexico Water Quality Control Commission standards.

In accordance with the Conoco's Comprehensive Ground Water Remediation and Long-Term Monitoring for Conoco Locations in the San Juan Basin, New Mexico, four (4) consecutive quarters of water quality at or below NMWQCC standards had been met, and no further action had been taken at the site.

On behalf of Conoco Inc., *On Site Technologies Limited Partnership*, request that the referenced location be closed and monitoring well be plugged and abandon in accordance with current regulation.

If there are any questions regarding this status 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
Project Manager


Michael K. Lane, P.E.
Senior Engineer

On Site Technologies, Limited Partnership

Attachments:

Ground Water BTEX Analytical Summary
Other Constituents Analytical Summary
Site Sketch

PO Box 2606
Farmington, NM

505-325-5667

FAX: 505-327-1496

References:

New Mexico Oil Conservation Division, January 31, 1997 letter to Mr. Neal Goates, Senior Environmental Specialist, Conoco, Inc. Midland Division, regarding: *Ground Water Contamination Assessment San Juan Unit Wells #219, #47, #19, #126., Conoco Location, San Juan 28-7-#219, Unit N, Sec. 20, T28N, R7W, NMPM, San Juan Co., NM.*

On Site Technologies, February 1, 1998 letter to Ms. Shirley Ebert, Field SHEAR Specialist, Conoco, Inc. Midland Division, regarding: *1997 Annual Ground Water Report, Conoco Location, San Juan 28-7-#219, Unit N, Sec. 20, T28N, R7W, NMPM, San Juan Co., NM.*

On Site Technologies
 Other Constituents Analytical Summary
 San Juan 28-7-219
 Unit N, Sec. 20, T28N, R7W
API Results

CATIONS				ANIONS			
PARAMETER	RESULTS	UNIT OF MEASURE	WQCC Standards	PARAMETER	RESULTS	UNIT OF MEASURE	WQCC Standards
Sodium	Na	205.0	mg/L	Chloride	Cl	12.0	mg/L
Calcium	Ca	478.0	mg/L	Sulfate	SO ₄	1710.0	mg/L
Magnesium	Mg	34.2	mg/L	Carbonate	CO ₃	<1	mg/L
Potassium	K	5.4	mg/L	Bicarbonate	HCO ₃	250.0	mg/L
				Hydroxide	HO	<1	mg/L
				Sulfide	S ₂	NA	mg/L
				Iron	Fe	0.07	mg/L
				Total Dissolved Solids		2694.0	mg/L
				pH		6.92	between 6 and 9
				Resistivity		3.4602	ohm-m
				Specific Gravity		1.0030	
				Total hardness of CaCO ₃		1334.0	mg/L

Sample Date: October 9, 1997

Cation-Anion Balance
 Difference Cation-Anion me/L 4.30
 Total Cation-Anion me/L 75.75
 Difference Cation-Anion 5.7%

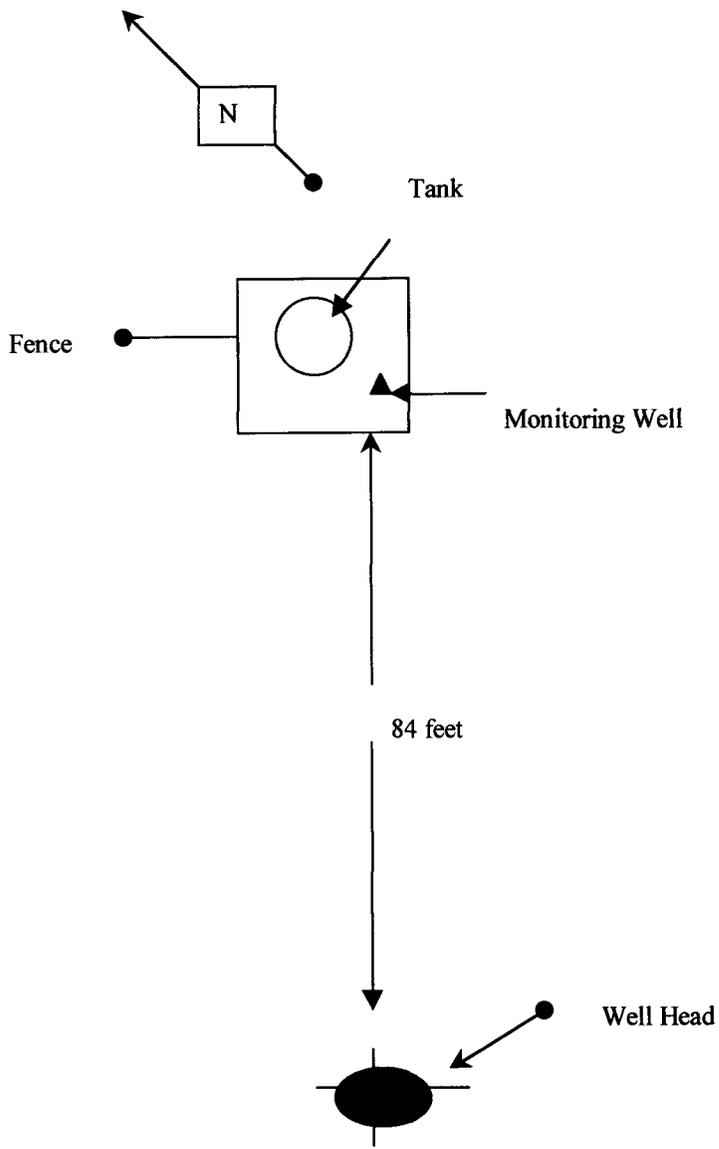
RCRA Metals
 Test Method SW-846

PARAMETER	RESULTS	UNITS	WQCC	UNITS
Mercury by CVAA	<0.0005	mg/L	0.002	mg/L
Arsenic by ICP	<0.15	mg/L	0.1	mg/L
Barium by ICP	0.27	mg/L	1.0	mg/L
Cadmium by ICP	<0.020	mg/L	0.01	mg/L
Chromium by ICP	<0.050	mg/L	0.05	mg/L
Lead by ICP	<0.20	mg/L	0.05	mg/L
Selenium by ICP	<0.35	mg/L	0.05	mg/L
Silver by ICP	<0.030	mg/L	0.05	mg/L

On Site Technologies
 BTEX Analytical Summary
 San Juan 28-7-219
 Unit N, Sec. 20, T28N, R7W

Sample Date	Sample ID#	Monitor Well	Remarks	BTEX per EPA 8020 (ppb)			
				Benzene	Toluene	Ethylbenzene	m,p-Xylene
08/11/95	0396G01375	MW#1	IML	170.0	993.0	165.0	54.1
03/12/96	0396G0350	MW#1	IML	0.10	0.27	BDL	BDL
07/15/96	0396G01343	MW#1	IML	5.0	10.1	BDL	3.5
03/26/97	14049	MW#1	On Site Lab.	8.4	19.2	0.6	6.0
06/10/97	14897	MW#1	On Site Lab.	0.3	0.5	BDL	0.3
10/09/97	16560	MW#1	On Site Lab.	0.3	BDL	BDL	BDL
WQCC	ACTION	LEVELS		10.0	750.0	750.0	620.0

BDL, Below Detection Levels



On Site Technologies Limited Partnership
Conoco Location 28-7-219
Unit N, Section 20, T28N, R7W
Not to scale