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

APPROPRIATE DISTRICT OFFICE AND 1 COPY TO

SANTA FE OFFICE

SUBMIT 1 COPY TO

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

Operator: <u>Conoco Inc</u> Telephone <u>:(505) 3</u>	25-5813
Address: 3315 Bloomfield Highway, Farmington, I	Ma.
Facility Or: <u>San Juan 28-7-19</u> Well Name	2007 CON CONTROL OF THE PARTY O
Location: Unit or Qtr/Qtr Sec <u>G</u> Sec <u>25 T28N</u>	R7W County San Juan
Pit Type: Separator Dehydrator Other_Blo	ow Down Pit
Land Type: BLM X State, Fee, Other	
Pit Location: Pit dimensions: length <u>10'</u> , width <u>9'</u> , de (Attach diagram) Reference: wellhead <u>X</u> , other	
Footage from reference: 88'	
Direction from reference: Approximately 50 degrees	West of 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) 10
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) 0
	RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: 6/8	<u>//1995</u> Date Completed:	: <u>3/13/00</u>
Remediation Method: Excava	tion Approx.	cubic yards
(Check all appropriate sections) Landfar	med Insitu Bio	premediation <u>X</u>
Other		
	~ "	
Remediation Location: Onsite (ie. landfarmed onsite, name and location)	on of offsite facility)	
General Description Of Remed	tial Action:	
During June, 1995, the reference	ed location, located on Bur	reau of Land Management lands, was assessed by
	-	contaminated. Flow was stopped and pit was back approximate center of the pit of the pit. By record,
groundwater sampling was cond	ucted from August 1995, to	to March 2000
Ground Water Encountered:	No X Yes Depth _'	
Final Pit: Closure Sampling:	Sample location Refer to	o attached report
(if multiple samples, attach sample results		
and diagram of sample locations and depths)	Sample depth <i>Refer to a</i>	attached report
, , , , , , , , , , , , , , , , , , ,	Sample Date`	Sample Time
	Sample Results	
	Benzene (ppm)	
	Total BTEX (ppm) Field headspace (ppm)	
	TPH	
Ground Water Sample: Yes _	No (If yes, attac	ch sample results)
LUEDEDY CEDTIEV THAT THE	INFORMATION AROVE I	IS TRUE AND COMPLETE TO THE BEST
OF MY KNOWLEDGE AND BEL		13 TRUE AND CONFLETE TO THE BEST
DATE SIGNATURE: 100	BCoh.	
PRINTEDNAME:	F. CUGA	TITLE Environmental Court
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	LOCATION:_ STARTED:	Saw Juan	s 28-7 #	t 19					UNIT_(
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- o SOIL SAMPLE LOCATION
- A BACKGROUND SAMPLE LOCATIO



March 2, 2001

FAX: 505-327-1496

Project #: 2-1358

Conoco, Inc., San Juan/Lobo Business Unit Attn.: Mr. Gary Ledbetter SHEAR Specialist 3314 Bloomfield Hwy.

Farmington, NM 87401

RE: 2000 Annual Ground Water Report and Request for Closure

Conoco Location: San Juan 28-7 #19

Unit G. Sec. 25, T28N, R7W, NMPM, San Juan Co., NM

Dear Mr. Ledbetter:

The following report summarizes the ground water remediation and monitoring activities conducted by On Site Technologies Limited Partnership and/or others on behalf of Conoco, Inc., at the referenced oil and gas location. This report covered the prior calendar year of 2000, and follows the format outlined in the *Comprehensive Ground Water Remediation and Long-Term Monitoring Plan for Conoco Locations in the San Juan Basin, New Mexico*, submitted to the New Mexico Oil Conservation Division on October 15, 1997.

SUMMARY OF EVENTS:

During June, 1995, the referenced location was assessed by Conoco and it was determined that the blow down pit was contaminated. Flow was stopped and pit was back filled. A single groundwater monitoring well was set in the approximate center of the pit of the pit. During the installation of the monitoring well soil sample were collected at 8, 18, 30 and 36 feet below the ground surface (BGS) and by record field screened for volatile organic compounds. Bedrock (weathered sandstone) was encountered at 38 feet BGS. No evidence of laboratory results for soil samples were located in the Conoco local files. Records indicate that groundwater monitoring was conducted from August, 1995 to March, 2000.

Due to the time frame that the initial site assessment was conducted, laboratory results and QA/QC documents for soil and water sampling could not be located in local Conoco files and may have been previously submitted to the New Mexico Oil Conservation Division (NMCOD).

Laboratory results of the groundwater monitoring event from August, 1995 indicated that volatile organics, Benzene and Toluene above New Mexico Water Quality Control Commission (NMWQCC) standards present. Laboratory result from groundwater sampling event March, 1996 to March, 1999 showed a steady decline in volatile organic contamination, but volatile organic contamination levels for Benzene remained above NMWQCC standards. Sampling events, June, 1999, September, 1999, December, 1999 and March 2000, laboratory results showed volatile organics of concern were below NMWQCC standards.

SAMPLING:

Following the approved Conoco plan, during each sampling event, water levels were measured on all monitoring wells prior to purging and sampling. Samples were collected in laboratory supplied containers, preserved as needed, and proper chain-of-custody protocol followed. The laboratory analyses ordered, followed the Conoco Ground Water Plan.

Conoco, Inc.: San Juan 28-7 #19
On Site Technologies, Ltd.
2000 Annual Ground Water Summary

Table 1, summarizes the monitoring well data and water levels measured during each sampling event. Table 2, summarizes the laboratory results for BTEX compounds from all water sampling completed at the referenced site, including assessment data.

Copies of all laboratory reports for the calendar year 2000, along with all laboratory QA/QC documentation and chains-of-custody, are attached with this report. Previous groundwater sampling laboratory results have been submitted to NMOCD.

CONCLUSIONS:

The following conclusions are based on 2000 ground water monitoring results and trends, site observations, information gathered from available records, available laboratory results, and *ON SITE* 's past experience on similar sites.

- 1. BTEX contamination of ground water has been below NMWQCC standards for the last four sampling events (June 1999, September 1999, December 1999, and March 2000).
- 2. The referenced location has continued to show hydrocarbon contamination at or below NMWQCC groundwater quality standards.
- 3. The site was met requirements of Conoco's Comprehensive Ground Water Remediation and Long-Term Monitoring for Conoco Locations in the San Juan Basin, New Mexico of four (4) consecutive quarters of water quality at or below NMWQCC standards

RECOMMENDATIONS:

On behalf of Conoco Inc., ON SITE TECHNOLOGIES LIMITED PARTNERSHIP requests that the referenced location be closed. Conoco's has met the requirements of the approved 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 at the referenced site and permission be grated that groundwater monitoring wells be plugged and abandoned in accordance with current regulations and guidelines

LIMITATIONS AND CLOSURE:

This annual groundwater report documents the results of ground water monitoring for the referenced Conoco well location during the calendar year 2000. This report follows the Conoco Ground Water Plan, dated October 15, 1997.

The scope of On Site Technologies' services consisted of project management, periodic water sampling and measurement of water levels, laboratory testing for ground water quality, and preparation of the annual report. All work has been performed in accordance with generally accepted professional practices in petroleum and environmental engineering, and hydrogeology.

This document has been prepared by On Site Technologies for the exclusive use of Conoco Inc., as it pertains to the referenced well location operated by Conoco.

Conoco, Inc.: San Juan 28-7 #19
On Site Technologies, Ltd.
2000 Annual Ground Water Summary

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

Lawrence "Larry" Trujillo, C.H.M.M.

Project Manager

ON SITE TECHNOLOGIES LIMITED PARTNERSHIP

Reviewed by:

Michael K. Lane, P.E. Senior Engineer

Attachments:

Table 1: Monitoring Well Details and Ground Water Levels Summary

Table 2: Ground Water BTEX Analytical Summary

Figure 1: Site Sketch

Figure 2: Ground Water Potentiometric Map (Not Applicable) Boring Logs and Monitoring Well Diagrams (Not Available)

Laboratory Results, QA/QC, Chain of Custody

Acknowledgment: CONOCO, Inc.		
	(Name/Title)	
	(Date)	

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 #19, Unit G, Sec. 25, T28N, R7W, NMPM, San Juan Co., NM.

On Site Technologies, Ltd., February 1, 1998, letter to Ms. Shirley Ebert, SHEAR Specialist, Conoco, Inc., Midland Division, regarding1997 Annual Ground Water Report, Conoco Location, San Juan 28-7-19, Unit G, Sec. 25, T28N, R7W, NMPM, San Juan Co., NM.

On Site Technologies, Ltd., February 7, 1999, letter to Ms. Shirley Ebert, SHEAR Specialist, Conoco, Inc., Midland Division, regarding1998 Annual Ground Water Report, Conoco Location, San Juan 28-7-19, Unit G, Sec. 25, T28N, R7W, NMPM, San Juan Co., NM.

On Site Technologies, Ltd., January 6, 2000, letter to Ms. Shirley Ebert, SHEAR Specialist, Conoco, Inc., Midland Division, regarding 1999 Annual Ground Water Report, *Conoco Location, San Juan 28-7-19, Unit G, Sec. 25, T28N, R7W, NMPM, San Juan Co., NM.*

Table1
Ground Water Level Summary

Unit G, Elevation at Total Depth of Well Types	an Juan 28-7-19 Sec. 25, T28N, R7W	Well-Type Screen Interval (ft): Sample Date Depth to Groundwater Relative Groundwater (BGS):
1 2	San Juan 28-7-19 Unit G, Sec. 25, T28N, R7W	n at Total Depth of Well Type Screen Interval (ft) Samp

	Relative Groundwater Elevation (ft)	6134.99	3135.10	6134.97	6134.99	6134.87	6134.87	6134.84	6134.77	6134.54	6134.72	6134.68	6135.06	6134.99
	Depth to Groundwater (ft) (BTOC)*	79.01	78.90	79.03	79.01	79.13	79.19	79.19	79.23	79.46	79.28	79.32	78.94	79.01
2	Sample Date	03/26/97	06/10/97	10/9/97	12/22/97	3/9/98	86/6/9	9/14/98	12/9/98	3/1/99	66/2/9	9/10/99	12/13/99	3/13/00
OILL G. GCC. 20, 12014, 17/14	Total Depth of Well Type Screen Interval (ft) Sample Date Well (ft)*	N/A												
, 0	Well Type	2" PVC												
	Total Depth of Well (ft)*	86.09												
	Well Number Elevation at ground surface													
	Well Number													

BGS - approximate measurements taken as Below Ground Surface BTOC - Below Top of Casing

NM - Not Measured

Table 2 BTEX Analytical Summary San Juan 28-7-19 Unit G, Sec. 25, T28N, R7W

Sample Date	Sample ID#	Monitor	Remarks	100	BT6	BTEX per EPA 8020	50
		Well		The second		(ddd)	
				Benzene	Toluene	Ethylbenzene	Total Xylene
08/11/95	G01373	MW#1	IML	65.2	973.0	33.5	124.5
03/12/96	039600376		IWI	14.0	12.0	11.0	78.0
07/17/96	039601348		IML	0.4	0.3	0.7	0.8
03/26/97	14046		On Site Lab.	48.1	25.9	1.0	406
04/21/97	14293		On Site Lab.	168.0	119.0	3.7	27.0
06/10/97	14895		On Site Lab.	27.4	13.8	1.0	3.0
10/9/97	16562		On Site Lab.	49.5	8.1	1.8	4.7
12/22/97	17207		On Site Lab.	59.2	23.9	1.4	8.5
3/6/8	9803028-01A		On Site Lab.	6.5	2.4	6.0	1.0
86/6/9	9806042-01A		On Site Lab.	22.0	7.1	BDL	3.2
9/14/98	9809028-01A		On Site Lab.	24.0	8.4	BDL	5.0
12/9/98	9812023-01A		On Site Lab.	35.0	12.0	BDL	6.2
3/1/99	9903002-01A		On Site Lab.	21.0	18.0	9.0	3.6
66/2/9	9906018-01A		On Site Lab.	3.0	2.1	1.2	3.4
9/10/99	9909036-01A		On Site Lab.	2.1	BDL	BDL	9.0
12/13/99	9909036-01A		On Site Lab.	6.2	3.3	BDL	BDL
3/13/00	0003016-01A		On Site Lab.	2.9	1.1	BDL	BDL
Wacc	ACTION	LEVELS		10.0	0.057	750.0	620.0
BDL Below Detection Levels	ction Levels						

LAB: (505) 325-1556

March 17, 2000

Larry Trujillo Conoco, Inc. 3315 Bloomfield Hwy Farmington, NM 87401 TEL: (505) 327-9557

TEL: (505) 327-9557 FAX (505) 324-5825

RE: 2-1358; San Juan 28-7-19

Order No.: 0003016

Dear Larry Trujillo,

On Site Technologies, LTD. received 1 sample on 3/13/2000 for the analyses presented in the following report.

The Samples were analyzed for the following tests: Aromatic Volatiles by GC/PID (SW8021B)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

Conoco, Inc.

Project:

2-1358; San Juan 28-7-19

Lab Order:

0003016

CASE NARRATIVE

Date: 20-Mar-00

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

OFF: (505) 325-5667

LAB: (505) 325-1556

Date: 17-Mar-00

ANALYTICAL REPORT

Client:

Conoco, Inc.

Work Order: 0003016

Lab ID:

Project:

0003010

0003016-01A

Matrix: AQUEOUS

2-1358; San Juan 28-7-19

Client Sample Info: San Juan 28-7-19

Client Sample ID: MW-1

Collection Date: 3/13/2000 8:30:00 AM

COC Record: 10569

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID	sv	V8021B			Analyst: DC
Benzene	2.9	0.5	μg/L	1	3/14/2000
Toluene	1.1	0.5	μg/L	1	3/14/2000
Ethylbenzene	ND	0.5	μg/L	1	3/14/2000
m,p-Xylene	ND	1	μg/L	1	3/14/2000
o-Xylene	ND	0.5	μg/L	1	3/14/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

CHAIN OF CUSTODY RECORD

113/03	
Date:	

612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499 LAB: (505) 325-5667 • FAX: (505) 327-1496

ON SITE TECHNOLOGIES, LTD.

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Date: _

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