

Jerry E. Faust
DEPUTY OIL & GAS INSPECTOR

AUG 24 1999

JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

CA 667

SUBMIT 1 COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

PIT REMEDIATION AND CLOSURE REPORT

Operator: CONOCO, INC. Telephone: (505) 324-5884
Address: 3315 Bloomfield Hwy., Farmington, NM 87401
Facility or Well Name: NORTHEAST HAYNES 1E
Location: Unit or Qtr/Qtr Sec 0 Sec 9 T 24N R 5W County RIO ARriba
Pit Type: Separator Dehydrator X Other
Land Type: RANGE

Pit Location: Pit dimensions: length 27, width 33, depth 19
(Attach diagram) Reference: wellhead X, other
Footage from reference: 130
Direction from reference: 75 Degrees X East of North
 West of South X

Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points)	<u>20</u>
Distance to an Ephemeral Stream (Downgradient dry wash greater than ten feet in width)	Less than 100 feet (10 points) Greater than 100 feet (0 points)	<u>0</u>
Distance to Nearest Lake, Playa, or Watering Pond (Downgradient lakes, playas and livestock or wildlife watering ponds)	Less than 100 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 100 feet (20 points) 100 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 20

Date Remediation Started: 10-15-98 Date Completed: 10-20-98
Remediation Method: Excavation ☒ Approx. cubic yards 627
ck all appropriate sections) Landfarmed ☒ Insitu Bioremediation _____
Other _____

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

General Description of Remedial Action: Excavation

Groundwater Encountered: No _____ Yes ☒ Depth 19'

Final Pit: Sample location see Attached Documents
Closure Sampling: _____
(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample depth Soil @ 15' WATER @ 19'
Sample date 10-16-98 Sample time 0945/1015

Sample Results

Soil: Benzene	(ppm) <u>0.418</u>	Water: Benzene	(ppb) <u>4.1</u>
Total BTEX	(ppm) <u>4.09</u>	Toluene	(ppb) <u>21.3</u>
Field Headspace	(ppm) <u>-</u>	Ethylbenzene	(ppb) <u>0.6</u>
TPH	(ppm) <u>25.9</u>	Total Xylenes	(ppb) <u>21.8</u>

Groundwater 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

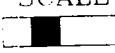
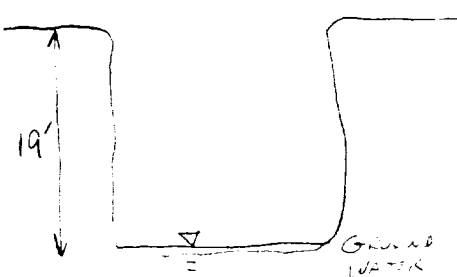
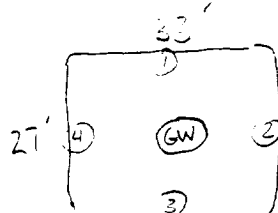
DATE 10-26-98 PRINTED NAME Jeffrey C. Blagg, P.E. #11607

SIGNATURE Jeffrey C. Blagg AND TITLE President

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES ☒ NO _____ (REASON) _____

SIGNED: Ken C. Mamm DATE: 10-27-98

CLIENT: <u>CONOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>CA667</u> C.O.C. NO: <u>6357</u>																																								
FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>																																								
LOCATION: NAME <u>NORTHEAST HAYNES WELL # 1E</u> PIT: <u>DEHY</u> QUAD/UNIT: <u>0 SEC 9</u> TWP: <u>24N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u> GTP/FOOTAGE: _____ CONTRACTOR: <u>JVJ</u>		DATE STARTED: <u>10/15/93</u> DATE FINISHED: <u>10/20/93</u> ENVIRONMENTAL SPECIALIST: <u>JCC</u>																																								
EXCAVATION APPROX <u>27</u> FT. x <u>33</u> FT. x <u>19</u> FT. DEEP. CUBIC YARDAGE: <u>627</u> DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LANDFILL</u> LAND USE: <u>RANGE</u> LEASE: _____ FORMATION: <u>MV</u>																																										
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>130'</u> FT. <u>S75°E</u> FROM WELLHEAD. DEPTH TO GROUNDWATER: <u>19'</u> NEAREST WATER SOURCE: <u>>1000</u> NEAREST SURFACE WATER: <u>>1000</u> NMOC BANKING SCORE: <u>20</u> NMOC TPH CLOSURE STD: <u>100</u> PPM SOIL AND EXCAVATION DESCRIPTION:																																										
CHECK ONE: ☒ PIT ABANDONED ☐ STEEL TANK INSTALLED ☐ FIBERGLASS TANK INSTALLED Silty clay soil. SW @ 19' @ R - BOTTOM SAMPLED FOR BTEX.																																										
FIELD 412.1 CALCULATIONS																																										
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TRAVEL NOTES: _____ CALLOUT: _____ ONSITE: _____																																										

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / Conoco
Sample ID: S @ 15'
Laboratory Number: E081
Chain of Custody No: 6357
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

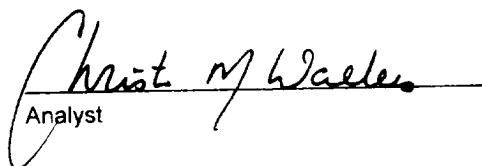
Project #: 04034-10
Date Reported: 10-19-98
Date Sampled: 10-16-98
Date Received: 10-16-98
Date Extracted: 10-19-98
Date Analyzed: 10-19-98
Analysis Requested: 8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	4.4	0.2
Diesel Range (C10 - C28)	21.5	0.1
Total Petroleum Hydrocarbons	25.9	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,
SW-846, USEPA, December 1996.

Comments: Haynes 1E.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Blagg / Conoco
Sample ID: S @ 15'
Laboratory Number: E081
Chain of Custody: 6357
Sample Matrix: Soil
Preservative: Cool
Condition: Cool & Intact

Project #: 04034-10
Date Reported: 10-19-98
Date Sampled: 10-16-98
Date Received: 10-16-98
Date Analyzed: 10-19-98
Date Extracted: 10-19-98
Analysis Requested: BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	418	8.8
Toluene	444	8.4
Ethylbenzene	205	7.6
p,m-Xylene	2,360	10.8
o-Xylene	661	5.2
Total BTEX	4,090	

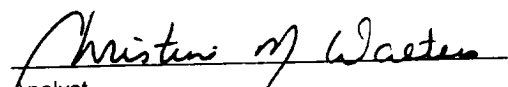
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	97 %
	Bromofluorobenzene	97 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Haynes 1E.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Conoco	Project #:	04034-10
Sample ID:	GW @ 19'	Date Reported:	10-19-98
Chain of Custody:	6357	Date Sampled:	10-16-98
Laboratory Number:	E082	Date Received:	10-16-98
Sample Matrix:	Water	Date Analyzed:	10-19-98
Preservative:	HgCl ₂ & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Benzene	4.1	1	0.2
Toluene	21.3	1	0.2
Ethylbenzene	0.6	1	0.2
p,m-Xylene	17.1	1	0.2
o-Xylene	4.7	1	0.1

Total BTEX 47.8

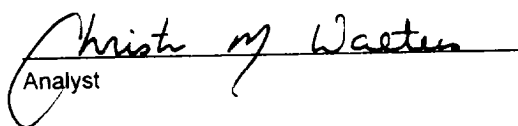
ND - Parameter not detected at the stated detection limit.

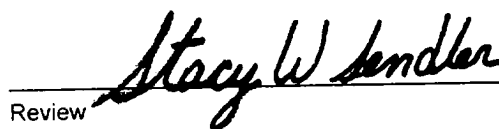
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	100 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: Haynes 1E.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / Conoco	Project #:	04034-10
Sample ID:	GW @ 19'	Date Reported:	10-21-98
Laboratory Number:	E084	Date Sampled:	10-20-98
Chain of Custody:	6359	Date Received:	10-20-98
Sample Matrix:	Water	Date Extracted:	NA
Preservative:	Cool	Date Analyzed:	10-21-98
Condition:	Cool & Intact		

Parameter	Analytical Result	Units	Units
pH	7.11	s.u.	
Conductivity @ 25° C	5,530	umhos/cm	
Total Dissolved Solids @ 180C	2,760	mg/L	
Total Dissolved Solids (Calc)	2,748	mg/L	
SAR	21.1	ratio	
Total Alkalinity as CaCO3	376	mg/L	
Total Hardness as CaCO3	272	mg/L	
Bicarbonate as HCO3	376	mg/L	6.16 meq/L
Carbonate as CO3	<1	mg/L	0.00 meq/L
Hydroxide as OH	<1	mg/L	0.00 meq/L
Nitrate Nitrogen	0.2	mg/L	0.00 meq/L
Nitrite Nitrogen	0.001	mg/L	0.00 meq/L
Chloride	77.8	mg/L	2.19 meq/L
Fluoride	1.75	mg/L	0.09 meq/L
Phosphate	1.2	mg/L	0.04 meq/L
Sulfate	1,530	mg/L	31.85 meq/L
Iron	0.001	mg/L	
Calcium	92.0	mg/L	4.59 meq/L
Magnesium	10.2	mg/L	0.84 meq/L
Potassium	6.5	mg/L	0.17 meq/L
Sodium	800	mg/L	34.80 meq/L
Cations			40.40 meq/L
Anions			40.35 meq/L
Cation/Anion Difference			0.13%

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Water And Waste Water", 18th ed., 1992.

Comments: NE Haynes 1E.

Analyst

Review

6357

Client / Project Name				Project Location		ANALYSIS / PARAMETERS												
BLAGG/CONOCO				HARNES IE														
Sampler: J-C. Seeg				Client No. 04034-10														
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	BTEX	FLH								Remarks			
S @ 15'	10/16/98	0945	E081	Soil	1	X	X											
GW @ 19'	"	1015	E082	WATER	2	X												
Relinquished by: (Signature) J-C. Seeg				Date	10/16/98	Time	1340	Received by: (Signature) [Signature]				Date	10.16.98	Time	1340			
Relinquished by: (Signature)								Received by: (Signature)										
Relinquished by: (Signature)								Received by: (Signature)										
ENVIROTECH INC. 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615														Sample Receipt		Y	N	N/A
														Received Intact				
														Cool - Ice/Blue Ice				

6359

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

**JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528**

CA 667

SUBMIT 1 COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: Conoco, Inc. Telephone: (505) 324-5884
Address: 3315 Bloomfield Hwy., Farmington, NM 87401
Facility or Well Name: NE HAYNES #1E
Location: Unit or Qtr/Qtr Sec D Sec 9 T~~2~~4N R~~5~~W County RIO ARriba
Land Type: RANGE

Date Remediation Started: 10/15/98 Date Completed: 5/19/99
Remediation Method: Landfarmed ☒ Approx. cubic yards 627
Composted ☐
Other ☐

Depth To Groundwater: (pts.) 20
Distance to an Ephemeral Stream (pts.) 0
Distance to Nearest Lake, Playa, or Watering Pond (pts.) 0
Wellhead Protection Area: (pts.) 0
Distance To Surface Water: (pts.) 0
RANKING SCORE (TOTAL POINTS): 20

Final Closure Sampling:
Sampling Date: 5/14/99 Time: 0800
Sample Results:
Field Headspace (ppm) 0.0
TPH (ppm) ND Method 8015
Other ☐

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 5/19/99 PRINTED NAME Jeffrey C. Blagg, P.E. #11607
SIGNATURE Jeffrey C. Blagg AND TITLE President

AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES ☒ NO ☐ (REASON) ☐

SIGNED: Kent Allen DATE: 6-3-99

CLIENT CONOCO BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

LOCATION NO CA667
CDD NO 6664

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

WELL NAME NE HAYNES WELL #: 1E PITS: Devg.
QUAD UNIT D SEC: 9 TWP: 24N RNG: 5W PM: NM CNTY: RA ST: NM
SITE FOOTAGE NW1/4 NW1/4 CONTRACTOR: JUC

DATE STARTED 5/14/99
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST NU

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARM

APPROX. CUBIC YARDAGE: 627

LAND USE: RANGE

LIFT DEPTH (ft): 1.5

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER >100' NEAREST WATER SOURCE >1000' NEAREST SURFACE WATER >1000'

WELL CLOSURE CODE 0 NMED TPA CLOSURE STD 5000 ppm 10/15/98

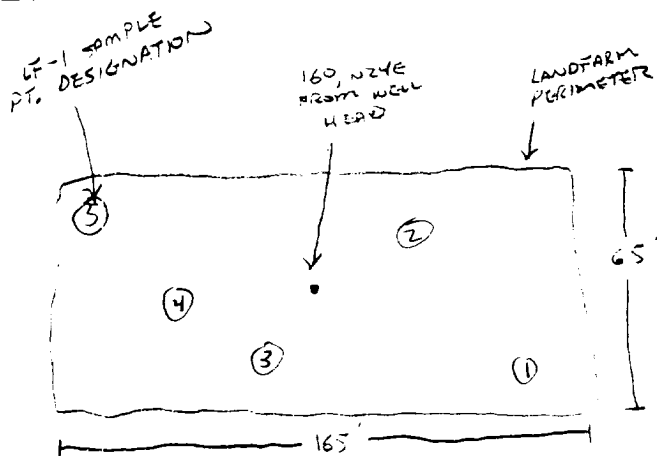
OK. WELL. ORANGE TO BROWN SAND TO CLAY, NON COHESIVE TO PLASTIC, SLIGHTLY MOIST TO MOIST, FIRM, SAMPLING DEPTHS RANGE FROM 8' TO 12 INCHES, NO APPARENT DISCOLORATION OBSERVED, NO APPARENT HC ODOR IN OVM SAMPLE, COLLECTED 5 PT. COMPOSITE SAMPLE FOR LAB ANALYSIS.

CLOSED

FIELD 418.1 CALCULATIONS

SAMPLE TYPE SAMPLE ID LAB No: WEIGHT (g) mL FREON DILUTION READ NO CALC ppm

SKETCH SAMPLE LOCATIONS



OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	0.0	LF-1	TPH (8015)	0800	ND

SCALE

0 1 FT

TRAVEL NOTES

CALCULATED NA

ONSITE 5/14/99

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

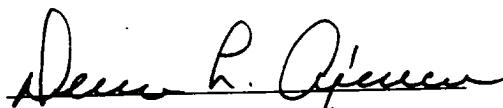
Client:	Blagg / CONOCO	Project #:	403410
Sample ID:	LF - 1	Date Reported:	05-19-99
Laboratory Number:	F264	Date Sampled:	05-14-99
Chain of Custody No:	6664	Date Received:	05-18-99
Sample Matrix:	Soil	Date Extracted:	05-18-99
Preservative:	Cool	Date Analyzed:	05-19-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

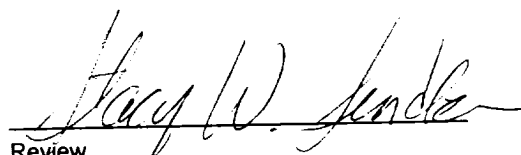
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: NE Haynes #1 E Landfarm. 5 Pt. Composite.


Analyst


Review

6664

[illegible]

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

November 2, 1998

Mr. William C. Olson
Hydrologist/Environmental Bureau
NM Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505

RECEIVED
JUL 29 1999

OIL CON. DIV.
C-113

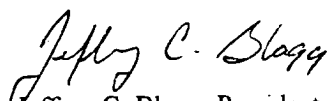
Re: Request for Closure & Notification of Groundwater Discovery
Conoco Inc. - Northeast Haynes 1E
SW/4 SE/4 (O) Sec 9 - T24N - R5W
Rio Arriba County, New Mexico

Dear Mr. Olson:

On behalf of Conoco Inc., Blagg Engineering, Inc. (BEI) conducted environmental sampling following site remediation of a dehydrator pit at the Northeast Haynes No. 1E, (O) Sec 9 - T24N - R5W, Rio Arriba County, New Mexico. This pit was remediated by excavation and on-site landfarming of the removed soils. During remedial activities, groundwater was encountered at a depth of 19 feet below ground surface.

Soil sidewalls and groundwater in the bottom center of the pit was sampled within 12 hours of groundwater discovery. The results of this environmental testing indicate there is no residual soil contamination in excess of NMOCD closure standards remaining in the pit. Additionally, the groundwater test reports indicate that there is no hydrocarbon contamination in excess of New Mexico Water Quality Commission Standards. Attached, please find a BLM Sundry Notice, pit Field Report Closure Verification, Jicarilla Apache Pit Remediation and Closure Report and attached laboratory data reports. BEI respectfully requests approval for closure of the pit at the Northeast Haynes No. 1E. Note that a request for closure of the onsite landfarm will be submitted to your office after these soils meet closure standards.

Respectfully submitted,
Blagg Engineering, Inc.


Jeffrey C. Blagg, President
NMPE 11607

Attachments: BLM Sundry, Pit Remediation & Closure Report, Field Reports, lab data reports

cc: Ms. Pat Hester, BLM - Albuquerque (2)
Mr. Kirt Sandoval, Jicarilla EPO - Dulce
Mr. Denny Foust, NMOCD - Aztec
Ms. Shirley Ebert, Conoco - Farmington