

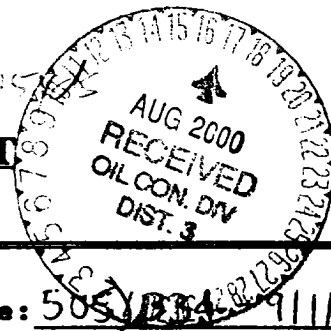
District I
O. Box 1940, Hobbs, NM
District II
O. Drawer DD, Artesia, NM 88211
District III
00 Rio Brazos Rd, Aztec, NM 87410

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

PIT REMEDIATION AND CLOSURE REPORT



Operator: KDCH Exploration Co. Telephone: 505/234-9111
Address: P.O. Box 489 Aztec, NM 87410
Facility Or: Gonzales 1
Well Name _____
Location: Unit or Qtr/Qtr Sec P sec 1 T 29N R 8W county San Juan
Pit Type: Separator ☒ Dehydrator _____ Other _____
Land Type: BLM ☒ State _____ Fee _____ Other _____

Pit Location: Pit dimensions: length 15', width 15', depth 4'
(Attach diagram) Reference: wellhead ☒, other _____
Footage from reference: _____
Direction from reference: 45 Degrees ☒ East North ☒
West of 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) 0
high water elevation of
ground water)

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) 0
lakes, ponds, rivers, streams, creeks, Greater than 1000 feet (0 points)
irrigation canals and ditches)

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 7/19/96 Dated Completed: 8/28/97
Remediation Method: Excavation ☒ Approx. cubic yards 15
(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: Contaminated soil removed and placed in an on-site landfarm.

Ground Water Encountered: No ☒ Yes ☐ Depth _____

Final Pit:
Closure Sampling:
(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location pit - bottom, center

Sample depth 4'

Sample date 7/19/96 Sample time 1600

Sample Results

Benzene(ppm) 0.34

Total BTEX(ppm) 70.0

Field headspace(ppm) 176

TPH 3775

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 8/10/00

SIGNATURE Donald L. Johnson

PRINTED NAME AND TITLE DONALD L. JOHNSON
OPERATIONS Manager

OFF: (505) 325-5667



LAB: (505) 325-1556

TOTAL PETROLEUM HYDROCARBONS

Attn: **Shawn Adams**
Company: **Contract Environmental Services, Inc.**
Address: **P.O. Box 505**
City, State: **Kirtland, NM 87417**

Date: **29-Jul-96**
COC No.: **4206**
Sample No. **11563**
Job No. **2-1000**

Project Name: **Koch Exploration - Gonsales #1**
Project Location: **GONS-201; Depth 4'**
Sampled by: **SA** Date: **19-Jul-96** Time: **16:00**
Analyzed by: **HR** Date: **24-Jul-96**
Sample Matrix: **Soil**

Laboratory Analysis

Parameter	Result	Detection Limit	Unit of Measure	Method
Total Petroleum Hydrocarbons, TPH	3775	25	mg/kg	EPA Method 418.1

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
Laboratory Fortified Blank Soil - QCBS2	< 25	< 25	mg/kg
Laboratory Fortified Spike Soil - QCSS1	935	828 - 1024	mg/kg

Duplication

Laboratory Identification	(% RSD)	Limit (% RSD)
11566-4184	6.2	15.0

Approved by: 
Date: **7/29/96**

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Shawn Adams*
Company: *Contract Environmental Services, Inc.*
Address: *P.O. Box 505*
City, State: *Kirtland, NM 87417*

Date: 29-Jul-96
COC No.: 4206
Sample No. 11563
Job No. 2-1000

Project Name: *Koch Exploration - Gonsales #1*
Project Location: *GONS-201; Depth 4'*
Sampled by: SA
Analyzed by: HR
Sample Matrix: *Soil*

Date: 19-Jul-96 Time: 16:00
Date: 23-Jul-96

Laboratory Analysis

Component	Result	Units of Measure	Detection Limit	Units of Measure
Benzene	339.4	ug/kg	0.2	ug/kg
Toluene	4458.8	ug/kg	0.2	ug/kg
Ethylbenzene	4997.6	ug/kg	0.2	ug/kg
m,p-Xylene	49044.6	ug/kg	0.2	ug/kg
o-Xylene	11199.1	ug/kg	0.2	ug/kg
TOTAL		70039.5	ug/kg	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *JAG*
Date: *7/29/96*

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TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

7/19/86 Stonebush

Arrived on location and removed fence
From pit. Began excavation and taking
samples.

PID Data:

#	Description	Reading
1	Center-bottom ~ 4'	176 ppm*
2	N-wall	190
3	S- "	189
4	E- "	183
5	W- "	182

* TO LAB FOR ANALYSIS: GONS-201 →

TPH = 3775 ppm

B = 0.3394 "

E = 4.4588 "

T = 4.9976 "

m.p-X = 49.0446 "

O-X = 11.1991 "

total = 70.0395 ppm

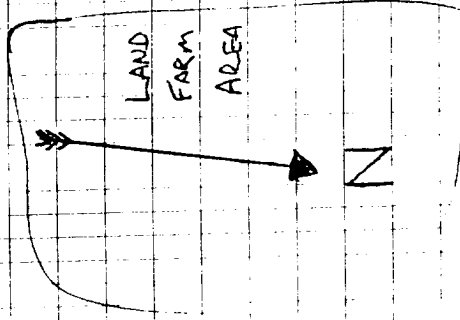
EARTH
PIT

SEP.

[]

(Temp.)
(water
tank)

② (road)



meter []

Depth: []

7-12-96-Cont'd

1 Contain excavation on sides and spread all material in land for

PID Data:

#	Description	Result
1	N-bank 4'	177 ppm
2	S-bank 4'	174
3	E-bank 4'	185
4	W-bank 4'	180

KOCH Exploration Company

Risk Analysis

Prepared by:
Contract Environmental Services, Inc.

Prepared for:
Oil Conservation Division - District III

Date: 7/31/97

Location: Gonsales 1-Separator Pit Unit-P, Sec1, T29N, R8W

Lease Number: SF-078596

Resources

Ground Water: 200 feet (PNG cathodic protection data)

Closest Surface Water: No down gradient perennial bodies within 1000 feet
(visual inspection of the area)

Water Sources: No private, domestic water source is located within
1000 feet of this site.

Risk Management

Natural Barriers: It appears that at a depth of 4 feet under this
earthen pit a natural rock barrier was encountered.
This bedrock will form a protective barrier to
protect the ground water from contamination.

Risk

The following table and conclusion summarize the risk this contamination
sources poses to the ground water.

Table 1. Total risk table.

RISK	CHOICE
Extremely Low	
Low	X
Moderate	
High	

The ground water under this site is at little risk of being impacted by
contamination from this site. The bedrock will restrict contamination travel
to the ground water so it is concluded that the **risk of ground water
contamination is low.**

Risk Analysis

Contract Environmental Services, Inc.
Post Office Box 3376
Farmington, New Mexico 87499

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: **Shawn Adams**
 Company: **Contract Environmental Services, Inc.**
 Address: **P.O. Box 3376**
 City, State: **Farmington, NM 87499**

Date: **2-Sep-97**
 COC No.: **4352**
 Sample No.: **15925**
 Job No.: **2-1000**

Project Name: **Koch Exploration - Gonsales 1**
 Project Location: **GONS-404; Soil Farm, Comp. 1&2**
 Sampled by: **SAA/PRC**
 Analyzed by: **DC/HR**
 Sample Matrix: **Soil**

Date: **25-Aug-97** Time: **15:45**
 GRO Date: **28-Aug-97**
 DRO Date: **29-Aug-97**

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Gasoline Range Organics (C5 - C9)	ND	mg/kg	0.5	mg/kg
Diesel Range Organics (C10 - C28)	ND	mg/kg	5	mg/kg

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
Gasoline Range (C5 - C9)	ND	ppb	1,801	1,752	2.8	15 %
Diesel Range (C10 - C28)	ND	ppm	200	197	1.5	15 %

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Gasoline Range (C5-C9)	91	101	(80-120)	10	20%
Diesel Range (C10-C28)	80	81	(75-125)	1	20%

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

Approved by: 
 Date: **9/2/97**

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: **Shawn Adams**
 Company: **Contract Environmental Services, Inc.**
 Address: **P.O. Box 3376**
 City, State: **Farmington, NM 87499**

Date: **2-Sep-97**
 COC No.: **4352**
 Sample No.: **15926**
 Job No.: **2-1000**

Project Name: **Koch Exploration - Gonsales 1**
 Project Location: **GONS-405; Soil Farm, Comp. 3&4**
 Sampled by: **SAA/PRC** Date: **25-Aug-97** Time: **15:45**
 Analyzed by: **DC/HR** GRO Date: **28-Aug-97**
 Sample Matrix: **Soil** DRO Date: **29-Aug-97**

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Gasoline Range Organics (C5 - C9)	ND	mg/kg	0.5	mg/kg
Diesel Range Organics (C10 - C28)	ND	mg/kg	5	mg/kg

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
Gasoline Range (C5 - C9)	ND	ppb	1,801	1,752	2.8	15%
Diesel Range (C10 - C28)	ND	ppm	200	197	1.5	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Gasoline Range (C5-C9)	91	101	(80-120)	10	20%
Diesel Range (C10-C28)	80	81	(75-125)	1	20%

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

Approved by: 
 Date: **9/2/97**

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



CHAIN OF CUSTODY RECORD

4352

Date: 8/27/97

Page 1 of 2

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Purchase Order No.:		Job No.	
Name		Title	
Company		Company	
Address		Mailing Address	
City, State, Zip		City, State, Zip	
Telephone No.		Telephone No.	
Telex No.		Telex No.	
Name: <u>SHAWN ADAMS</u>		Title: <u></u>	
Company: <u>CONTRACT ENVIRONMENTAL SERVICES, INC</u>		Company: <u></u>	
Address: <u>P.O. Box 3376</u>		Mailing Address: <u></u>	
City, State, Zip: <u>FARMINGTON NM 87499</u>		City, State, Zip: <u></u>	
Telephone No.: <u>325-1198</u>		Telephone No.: <u></u>	
Telex No.: <u></u>		Telex No.: <u></u>	
RESULTS TO		ANALYSIS REQUESTED	
REPORT		Number of Containers	
Name: <u>DRYDEN 2E, DRYDEN 1E, WALKER 2A</u>		LAB ID	
Company: <u>DRYDEN 2, GONSALES 1, MANSFIELD 1, LAMBE 3E</u>		LAB ID	
Address: <u></u>		LAB ID	
City, State, Zip: <u>87410</u>		LAB ID	
Telephone No.: <u></u>		LAB ID	
Telex No.: <u></u>		LAB ID	
Sampling Location: <u>SAA / PRC</u>		LAB ID	
Sample: <u>DRYD-400 DRYDEN 2E, COMP 3+4 Farm</u>		LAB ID	
Sample Identification		LAB ID	
SAMPLE DATE		LAB ID	
SAMPLE TIME		LAB ID	
MATRIX		LAB ID	
PRES.		LAB ID	
DRYD-401 " " COMP 1+2 " "		LAB ID	
DRYD-402, DRYDEN 2, COMP 1 " "		LAB ID	
DRYD-403, DRYDEN 1E, COMP 1+2 " "		LAB ID	
GONSALES-404, GONSALES 1, COMP 1+2 " "		LAB ID	
GONSALES-405, GONSALES 1, COMP 3+4 " "		LAB ID	
MANSFIELD-600, MANSFIELD 1, COMP 1, 2, 3 " "		LAB ID	
MANSFIELD-601, MANSFIELD 1, COMP 4, 5, 6 " "		LAB ID	
MANSFIELD-602, MANSFIELD 1E, COMP 1, 2, 3 " "		LAB ID	
WALKER 603, WALKER 2A, COMP 1, 2, 3 " "		LAB ID	
LAMBE-604, LAMBE 3E, COMP 1, 2, 3 " "		LAB ID	
Relinquished by: <u>Shawn Adams</u>		Date/Time: <u>8/27/97 9:00</u>	
Relinquished by: <u></u>		Date/Time: <u></u>	
Relinquished by: <u></u>		Date/Time: <u></u>	
Method of Shipment: <u></u>		Date/Time: <u></u>	
Authorized by: <u>Shawn Adams</u>		Date: <u>8/27/97</u>	
(Client Signature Must Accompany Request)			
Rush		24-48 Hours	
10 Working Days		Special Instructions:	

On Site Yellow - LAB Pink - Sampler Goldenrod - Client