

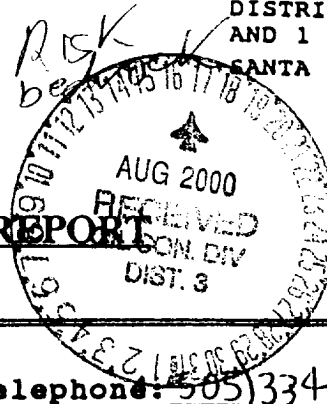
District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
1000 Rio Brazos Rd, Aztec, NM 87410

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

PIT REMEDIATION AND CLOSURE REPORT



Operator: KOCH Exploration Co. Telephone: 505)334-9111
Address: P.O. Box 489 Aztec, NM 87410
Facility Or: Dryden 1E
Well Name
Location: Unit or Qtr/Qtr Sec A Sec 28 T 28N R 8W county San Juan
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: BLM ☒, State ☐, Fee ☐, Other ☐

Pit Location: Pit dimensions: length 10', width 10', depth 3'
(Attach diagram) Reference: wellhead ☒, other ☐
Footage from reference: _____
Direction from reference: 90 Degrees ☐ East North ☐
☒ 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) 20
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)
lakes, ponds, rivers, streams, creeks, Greater than 1000 feet (0 points) 0
irrigation canals and ditches)

RANKING SCORE (TOTAL POINTS): 20

Date Remediation Started: 7/15/96

Dated Completed: 7/18/96 ^{0.3} 8/28/97

Remediation Method: Excavation ☒
(Check all appropriate sections) Landfarmed ☒

Approx. cubic yards 12

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. Bedrock encountered at three feet depth. No further excavation possible with standard equipment.

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

Sample depth 3'

Sample date 7/15/96

Sample time 1200

Sample Results

Benzene(ppm) 0.27

Total BTEX(ppm) 23.92

Field headspace(ppm) 415

TPH 2344

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

11/13/88 Dryden, NE

Arrived on location and removed fence from pit. Began excavating and sampling pit. Hit sandstone (bedrock) at 3'.

PID Data

#	Description	Result
1	bottom-center ~3'	415 ppm *
2	N-bank ~3'	38
3	S - " ~3'	7.0
4	E - " ~3'	52
5	W - bank ~3'	8.0

* TO LAB: DRYD-800 → 3' deep on Sandstone

TPH = 2344 ppm

B = 0.2706 ppm

T = 2.1562 "

E = 0.4669 "

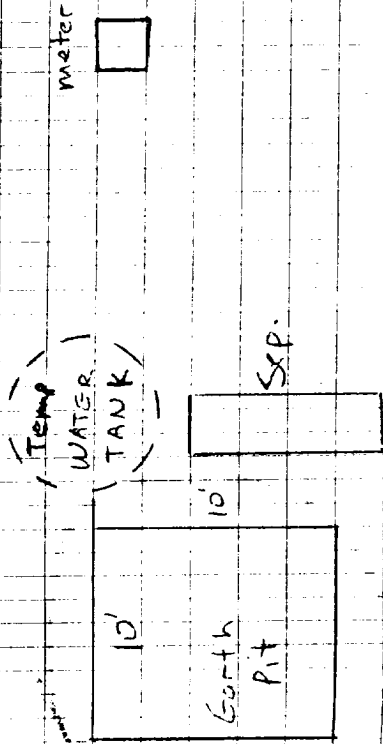
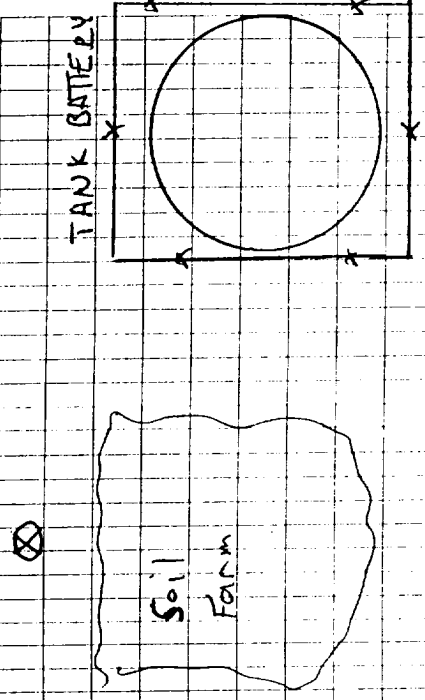
mp-X = 17.581 "

O-X = 3.4403 "

total = 23.915 "

Pit was backfilled with clean material.

well head



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: **23-Jul-96**
COC No.: **4205**
Sample No. **11560**
Job No. **2-1000**

Project Name: **Koch Exploration Company - Dryden #1E**
Project Location: ***DRYD-800; Pit Bottom 3' on Sandstone**
Sampled by: **SA** Date: **15-Jul-96** Time: **12:00**
Analyzed by: **HR** Date: **23-Jul-96**
Sample Matrix: **Soil**

Laboratory Analysis

Parameter	Result	Detection Limit	Unit of Measure	Method
Total Petroleum Hydrocarbons, TPH	2344	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	917	828 - 1024	mg/kg

Duplication

Laboratory Identification	(% RSD)	Limit (% RSD)
11559-4205	< 0.1	15.0

Approved by: 

Date: **7/23/96**

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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: **23-Jul-96**
COC No.: **4205**
Sample No. **11560**
Job No. **2-1000**

Project Name: **Koch Exploration Company - Dryden #1E**
Project Location: **DRYD-800; Pit Bottom 3' on Sandstone**
Sampled by: **SA** Date: **15-Jul-96** Time: **12:00**
Analyzed by: **HR** Date: **22-Jul-96**
Sample Matrix: **Soil**

Laboratory Analysis

Component	Result	Units of Measure	Detection Limit	Units of Measure
Benzene	270.6	ug/kg	0.2	ug/kg
Toluene	2156.2	ug/kg	0.2	ug/kg
Ethylbenzene	466.9	ug/kg	0.2	ug/kg
m,p-Xylene	17581.0	ug/kg	0.2	ug/kg
o-Xylene	3440.3	ug/kg	0.2	ug/kg
TOTAL		23915.0	ug/kg	

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

Approved by: 
Date: **7/23/96**

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CHAIN OF CUSTODY RECORD

420

Page 1 of 1.

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

[illegible]

KOCH Exploration Company

Risk Analysis

Prepared by:
Contract Environmental Services, Inc.

Prepared for:
Oil Conservation Division - District III

Date: 7/31/97

Location: Dryden 1E-Separator Pit Unit-A, Sec28, T28N, R8W

Lease Number: NM-013861

Resources

Ground Water: 40 feet and 300 feet (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: At a depth of 3 feet under this earthen pit a natural sandstone ledge was encountered. This sandstone 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 sandstone 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.: **15924**
 Job No.: **2-1000**

Project Name: **Koch Exploration - Dryden 1E**
 Project Location: **DRYD-403; Soil Farm, Comp. 1&2**
 Sampled by: **SAA/PRC** Date: **25-Aug-97** Time: **14:30**
 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)	10	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 -

4352

ON SITE

TECHNOLOGIES, LTD.

Purchase Order No.:		Job No.	
Name: DON JOHNSON		Title:	
Company: KOCU EXPLORATION	Dept.:	Company: CONTRACT ENVIRONMENTAL SERVICES, INC	
Address: P.O. Box 489		Mailing Address: P.O. Box 3376	
City, State, Zip: AZTEC NM 87410		City, State, Zip: FARMINGTON NM 87499	
Telephone No.:		Telefax No.:	

SEND INVOICE TO				REPORT RESULTS TO			
Name: DON JOHNSON				Name: SHAWN ADAMS			
Company: KOCU EXPLORATION				Company: CONTRACT ENVIRONMENTAL SERVICES, INC			
Address: P.O. Box 489				Mailing Address: P.O. Box 3376			
City, State, Zip: AZTEC NM 87410				City, State, Zip: FARMINGTON NM 87499			
Telephone No.:				Telefax No.:			

Sampling Location: DEYDEN 2E, DRYDEN 1E, MANSFIELD 1, WALKER 2A DRYDEN 2, GONSALES 1, MANSFIELD 1E, LAMBE 3E							
Sampler: SAA / PRC							

SAMPLE IDENTIFICATION				SAMPLE		PRES.	Number of Containers	LAB ID
		DATE	TIME	MATRIX				
DRYD-400	DRYDEN 2E, COMP 3+4	8/25/97	1:30	SOIL	NO		1	15711-4351
DRYD-401	" " COMP 1+2	" "	" "	"	"		1	15712
DRYD-402	DRYDEN 2, COMP 1	" "	2:05	"	"		1	15723
DRYD-403	DRYDEN 1E, COMP 1+2	" "	2:30	"	"		1	15724
GONS-404	GONSALES 1, COMP 1+2	" "	3:45	"	"		1	15725
GONS-405	GONSALES 1, COMP 3+4	" "	3:45	"	"		1	15726
MANS-600	MANSFIELD 1, COMP 1, 2, 3	8/26/97	10:00	"	"		1	15727
MANS 601	MANSFIELD 1, COMP 4, 5, 6	" "	10:00	"	"		1	15728
MANS 602	MANSFIELD 1E, COMP 1, 2, 3	" "	10:30	"	"		1	15729
WALK 603	WALKER 2A, COMP 1, 2, 3	" "	1:15	"	"		1	15730
LAMBE-604	LAMBE 3E, COMP 1, 2, 3	8/26/97	3:15	"	ICE		1	15731

Relinquished by:	Date/Time: 8/27/97 9:00	Received by:	Date/Time: 8/27/97 15:32
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:
Method of Shipment:		Rush	Special Instructions:
Authorized by:	Date: 8/27/97	24-48 Hours	10 Working Days