

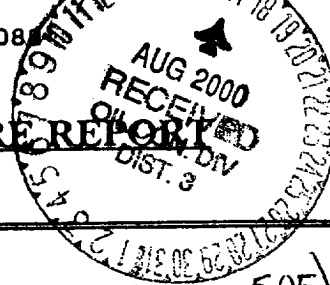
District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
1000 Rio Brazos Rd, Aztec, NM 87410

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: Walker 1A
Well Name

Location: Unit or Qtr/Qtr sec P sec 13 T 31N R 10W 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: 65'

Direction from reference: 90 Degrees ☒ East North ☐
of
☐ West 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) 20

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) 0

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): 20

Date Remediation Started: 7/10/97 Dated Completed: 8/25/97
Remediation Method: Excavation ☒ Approx. cubic yards 12
(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

Sample depth 3'

Sample date 7/10/96 Sample time 1500

Sample Results

Benzene(ppm) 0.004

Total BTEX(ppm) 0.85

Field headspace(ppm) 825

TPH 1635

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 DONALD L. Johnson
AND TITLE Operations Manager

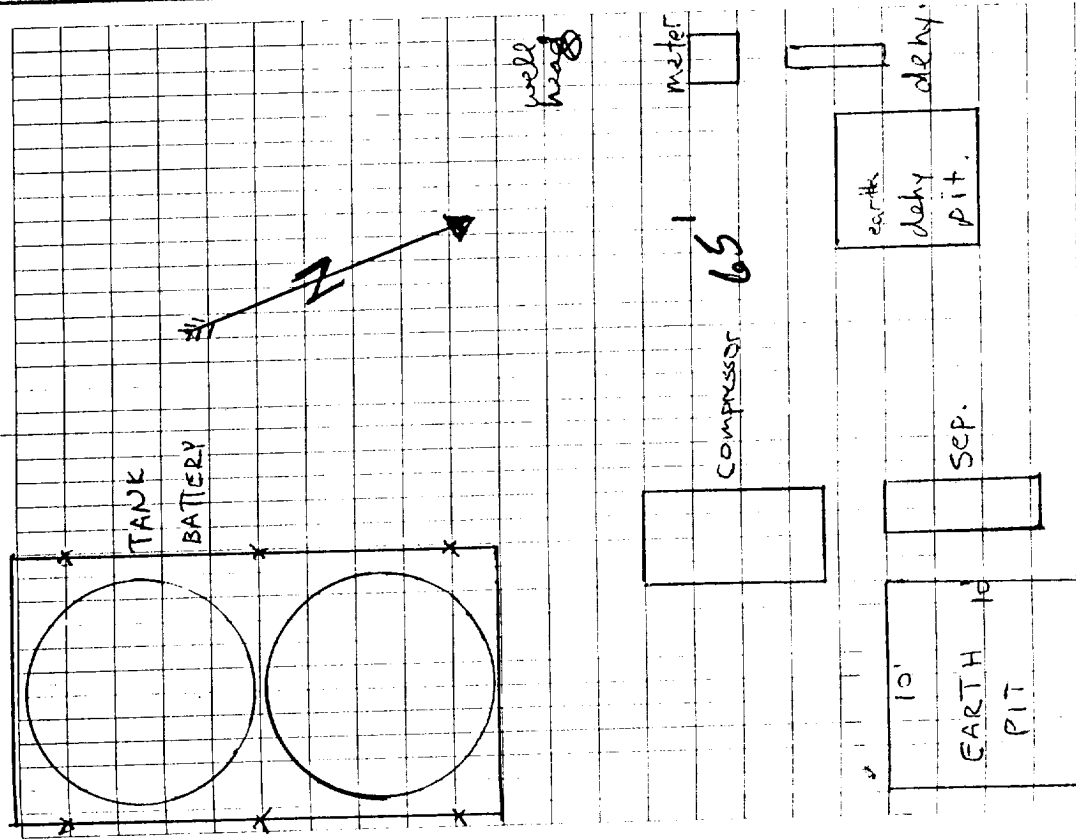
5/16/96 10:42 PM

Arrived on location and removed fence.

Began excavating and sampling pit. ~~11 ft~~
 Sandstone (bed rock) at 3' deep.

PID Data:		
#	Description	Result
1	2' deep - bottom water	907 ppm
2	3' deep - Sandstone - bottom	825 *
3	N-bank - above sandstone	166
4	S-bank "	218
5	E-bank "	11.4
6	W-bank "	4.0

* To LAB: WKLK-200
 TPH = 1635 ppm
 $B = 0.0039$ ppm
 $T = 0.0363$ ppm
 $E = 0.1481$ ppm
 $MP-X = 0.5591$ ppm
 $O-X = 0.1068$ ppm
 total = 0.8547 ppm



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: **12-Jul-96**
COC No.: **4201**
Sample No. **11483**
Job No. **2-1000**

Project Name: **Koch Exploration Company - Walker #1A**
Project Location: **WALK-200; 3' Pit Bottom**
Sampled by: **SA** Date: **10-Jul-96** Time: **15:00**
Analyzed by: **HR** Date: **11-Jul-96**
Sample Matrix: **Soil**

Laboratory Analysis

Parameter	Result	Detection Limit	Unit of Measure	Method
Total Petroleum Hydrocarbons, TPH	1635	25	mg/kg	EPA Method 418.1

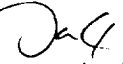
Quality Assurance Report

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	936	828 - 1024	mg/kg

Duplication

Laboratory Identification	(% RSD)	Limit (% RSD)
11481-4201	1.2	15.0

Approved by: 

Date: **7/12/96**

P.O. BOX 2606 • FARMINGTON, NM 87499

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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: **12-Jul-96**
COC No.: **4201**
Sample No. **11483**
Job No. **2-1000**

Project Name: **Koch Exploration Co. - Walker #1A**
Project Location: **WALK-200; 3' Pit Bottom**
Sampled by: **SA**
Analyzed by: **HR**
Sample Matrix: **Soil**

Date: **10-Jul-96** Time: **15:00**
Date: **11-Jul-96**

Laboratory Analysis

Parameter	Result	Units of Measure	Detection Limit	Units of Measure
Benzene	3.9	ug/kg	0.2	ug/kg
Toluene	36.8	ug/kg	0.2	ug/kg
Ethylbenzene	148.1	ug/kg	0.2	ug/kg
m,p-Xylene	559.1	ug/kg	0.2	ug/kg
o-Xylene	106.8	ug/kg	0.2	ug/kg
Σ TOTAL		854.7		ug/kg

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

Approved by: *JaG*
Date: *7/12/96*

CHAIN OF CUSTODY RECORD

ON SITE

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

TECHNOLOGIES, LTD.

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KOCH Exploration Company

Risk Analysis

Prepared by:
Contract Environmental Services, Inc.

Prepared for:
Oil Conservation Division - District III

Date: 7/31/97

Location: Walker 1A-Separator Pit Unit-P, Sec13, T31N, R10W

Lease Number: NM-013688-A

Resources

Ground Water: 40 feet and 200 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 2. 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: **27-Aug-97**
 COC No.: **4318**
 Sample No.: **15885**
 Job No.: **2-1000**

Project Name: **Koch Exploration - Walker 1A**
 Project Location: **WALK-104; Soil Farm Composite**
 Sampled by: **SAA/PRC** Date: **19-Aug-97** Time: **15.25**
 Analyzed by: **DC/HR** GRO Date: **21-Aug-97**
 Sample Matrix: **Soil** DRO Date: **25 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)	19	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	1,950	7.9	15%
Diesel Range (C10 - C28)	ND	ppm	200	206	2.8	15%

Matrix Spike

Parameter	1- Percent Recovered	2- Percent Recovered	Limit	RPD	RPD Limit
Gasoline Range (C5-C9)	71	64	(80-120)	10	20%
Diesel Range (C10-C28)	76	74	(84-118)	2	20%

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

Approved by: *[Signature]*
 Date: **8/27/97**

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