

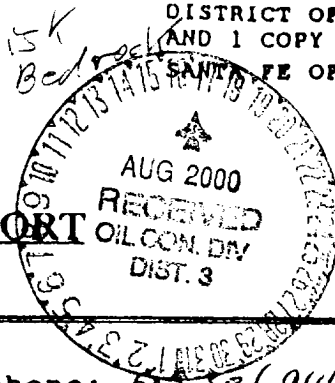
DISTRICT I
P.O. Box 1980, Hobbs, NM
DISTRICT II
P.O. Drawer DD, Artesia, NM 88211
DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410

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: PO Box 489 Aztec, NM 87410

Facility Or: Dryden 2
Well Name

Location: Unit or Qtr/Qtr Sec L Sec 22 T 28N R 8W County San Juan

Pit Type: Separator ☒ Dehydrator ☐ Other ☐

Land Type: BLM ☒, State ☐, Fee ☐, Other ☐

Pit Location: Pit dimensions: length 33', width 24', depth 4'
(Attach diagram) Reference: wellhead ☒, other ☐

Footage from reference: 66

Direction from reference: 65 Degrees ☒ East North ☒
of
☐ 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) 10
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): 10

Date Remediation Started: 9/13/95 Date Completed: 8/28/97
Remediation Method: Excavation ☒ Approx. cubic yards 120
(Check 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: Contaminated soil was removed and placed in an on-site landfarm. Bedrock was encountered at a depth of 5'-6'.

Ground Water Encountered: No ☒ Yes ☐ Depth

Final Pit: Sample location pit bottom
Closure Sampling:
If multiple samples, attach sample results and diagram of sample locations and depths)

Sample depth 6'
Sample date 9/13/95 Sample time 1313

Sample Results 8015 Modified
~~Benzene~~(ppm) Gas Range 326 ppm
~~Total BTEX~~(ppm) Dic. Range 728 ppm
Field headspace(ppm) 3456 MM 2000+
TPH 3456

Ground Water Sample: Yes ☐ No ☒ (If yes, attach sample results)

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

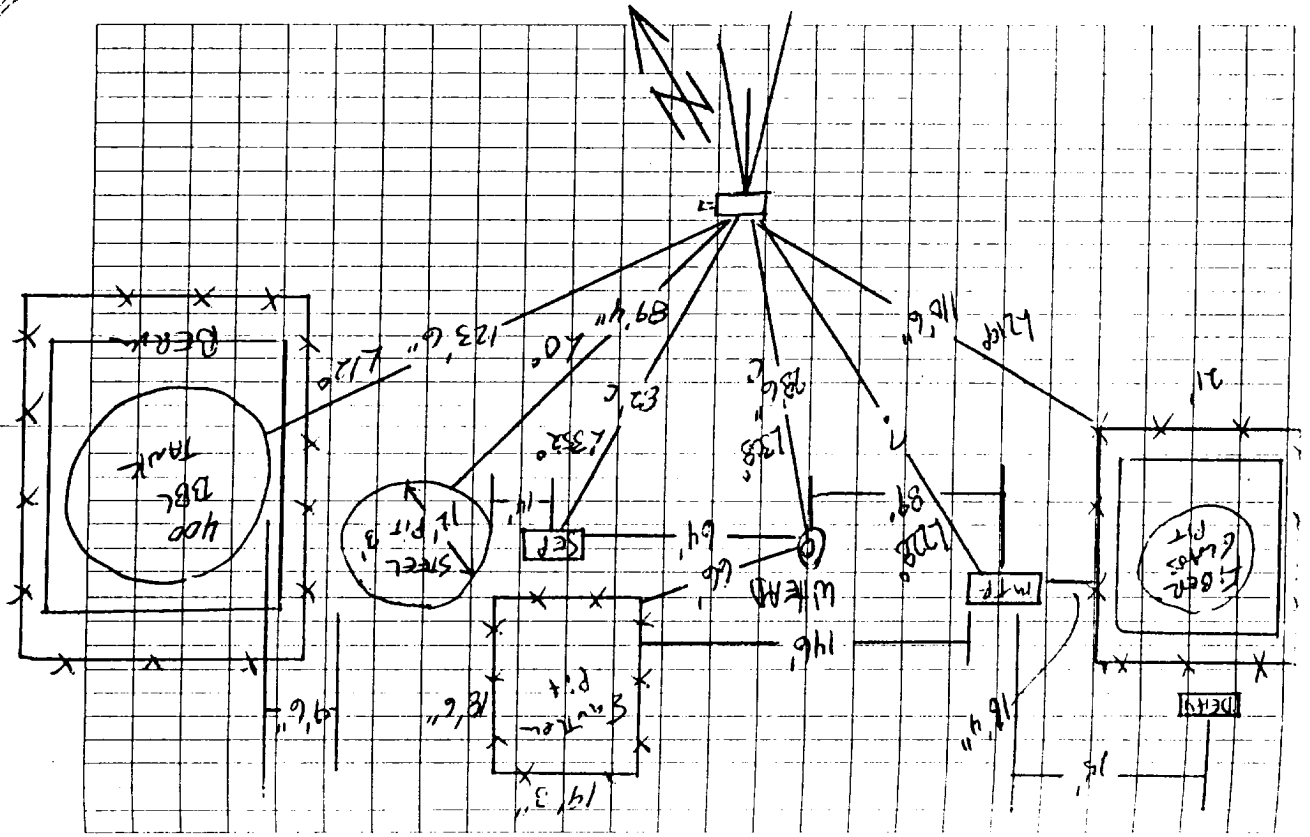
PRINTED NAME AND TITLE DONALD L. JOHNSON
Operations Manager

Koch

DATE: 8/10/85

LOCATION: BRYDEN 23

NOTES: CAME TO LOCATION TO SURVEY
IN SURFACE EQUIP AND MEASURE
DISTANCES FOR SITE PLAN.



Koch

DATE: 9/13/95

LOCATION: BRIDGES 2

NOTES: CAME TO LOCATION TO EXCAVATE
EARTHED PIT. REMOVED FENCING,
SET BIRD NET COVER OFF PIT.

Depth: 1' PID meter

2' 2000+

5-6' 2000+

NOTE: BEDROCK ENCOUNTERED AT DEPTH
OF 5-6'

TOOK 4 OZ. PIT BOTTOM SAMPLE

SAMPLE NO. RESULTS (PPM)

DRYD-101 Pit bottom 3,456.9

ANALYSIS - 101
GAS 326.3 DIESEL 778.2

OFF: (505) 325-8786



LAB: (505) 325-5667

TOTAL PETROLEUM HYDROCARBONS

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

Date: 15-Sep-95
COC No.: 3182
Sample No. 8212
Job No. 2-1000

Project Name: *Koch Exploration - Dryden 2*
Project Location: *DRYD-101 Pit Bottom*
Sampled by: SA Date: 13-Sep-95 Time: 13:13
Analyzed by: BV Date: 14-Sep-95
Type of Sample: *Soil*

Laboratory Analysis

Laboratory Identification	Sample Identification	Total Petroleum Hydrocarbons
8212-3182	<i>Koch Exploration - Dryden 2</i> <i>DRYD-101 Pit Bottom</i>	3,456 mg/kg

Method - EPA Method 418.1 Total Petroleum Hydrocarbons

Approved by: *[Signature]*
Date: 9/15/95

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OTT: (505) 325-8786

LAB: (505) 325-5667

TOTAL PETROLEUM HYDROCARBONS

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

Date: **7-Oct-95**
 COC No.: **3182**
 Sample No. **8212**
 Job No. **2-1000**

Project Name: **Koch Exploration - Dryden 2**
 Project Location: **DRYD-101 Pit Bottom**
 Sampled by: **SA** Date: **13-Sep-95** Time: **13:13**
 Analyzed by: **DC** Date: **5-Oct-95**
 Type of Sample: **Soil**

Laboratory Analysis

Analyte	Result	Units of Measure	Detection Limit	Units of Measure
Gasoline Range (C5 - C9)	326.3	mg/kg	5.0	mg/kg
Diesel Range (C10 - C28)	728.2	mg/kg	5.0	mg/kg
	TOTAL	1054.4		mg/kg

Quality Assurance ReportGRO QC No.: **0429-STD**DRO QC No.: **0430-STD****Calibration Check**

Analyte	Method Blank	Units of Measure	True Value	Analyzed Value	% Diff	Limit
Gasoline Range (C5 - C9)	< 10	ppb	1,351	1,422	5.3	15%
Diesel Range (C10 - C28)	< 5	ppm	2,000	1,988	0.6	15%

Matrix Spike

Analyte	1 - Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Gasoline Range (C5-C9)	97	104	(70-130)	5	20%
Diesel Range (C10-C28)	98	101	(70-130)	2	20%

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

Approved by: *Da 4*Date: *10/7/95*

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CHAIN OF CUSTODY, RECORD

3182

Date: 9/14/95

Page 1 of 1

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

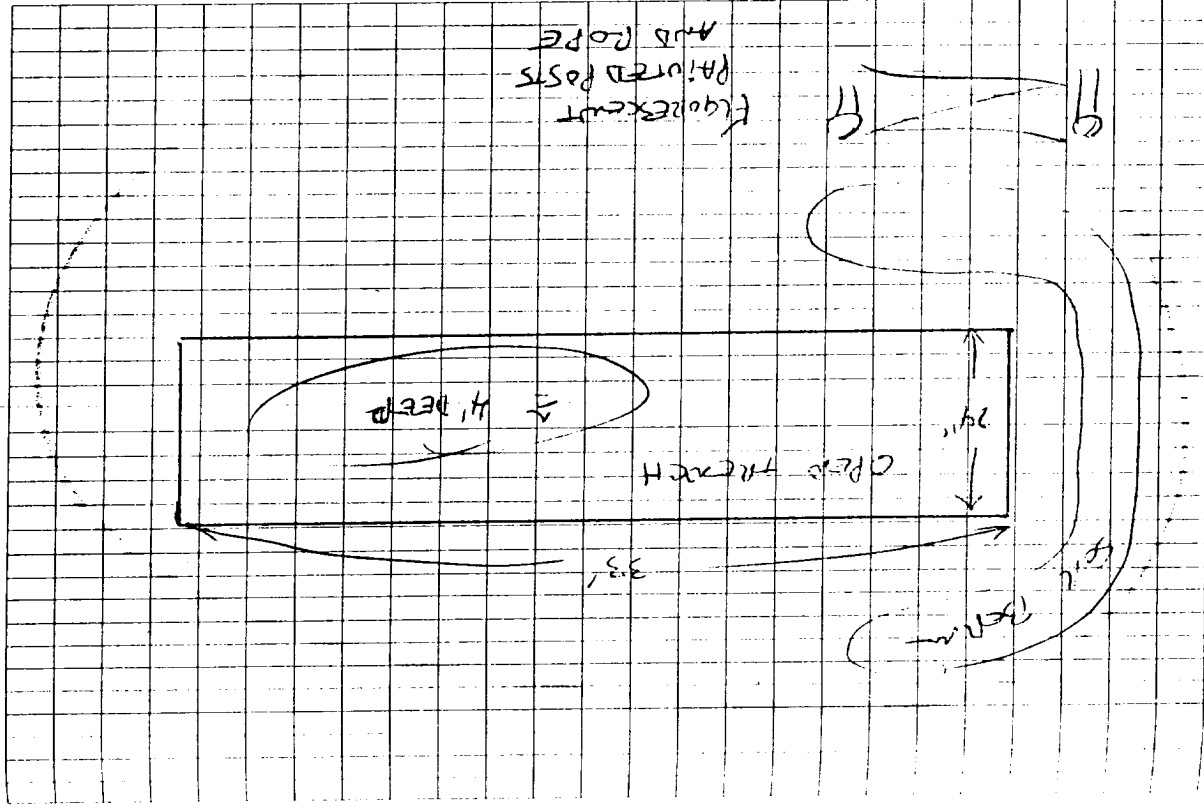
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KOCH

DATE: 8/18/85

LOCATION: DYDEN 2

NOTES: CAME TO LOCATION TO DIG
TRENCH BTWN SEPARATION AND
EARTHEN PIT. DUG DOWN TO
BED ROCK (4') AND APPROXIMATELY
33' ALONG, LEFT TRENCH OPEN
FOR VIEWING BY DENNY FOUST
UNMOD. BERMED EXPOSED END
OF TRENCH ALSO. P.D. METER
NEVER READS MORE THAN 1.4
PPM ALONG THE BASE OF THE
TRENCH. I ALSO RAN P.D. DOWN
BOTH SIDES OF EXCAVATION



KOCH Exploration Company

Risk Analysis

Prepared by:

Contract Environmental Services, Inc.

Prepared for:

Oil Conservation Division -District III

Lease Number: NN-
013861

Date:
8/4/97

Location: Separator Pit
Dryden 2—

Unit—L, 5ec22, T28N, R8W

Resources

Ground Water: 80' by cathodic protection

Closest Surface Water: N/A

Water Sources: N/A

Risk Management

Natural
Barriers:

Risk

At a depth of 5-6 feet under this earthen pit natural sandstone ledge was encountered. This sandstone bedrock will form a protective barrier to protect the ground water from contamination.

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 groundwater contamination is low.**

Risk Analysis

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

Farmington, New Mexico 87499

8/22/96 - Dryden 2

Came to location to turn and sample soil from. Ran thru 2 directions with Rototiller.

#	Location	PID	LAB Results (TPH)
1	North	0.0 ppm	Dryd-903 = 850 ppm
2	South	0.0	Dryd-904 = 2115

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.: **15923**
 Job No.: **2-1000**

Project Name: **Koch Exploration - Dryden 2**
 Project Location: **DRYD-402; Soil Farm, Comp. 1**
 Sampled by: **SAA/PRC**
 Analyzed by: **DC/HR**
 Sample Matrix: **Soil**

Date: **25-Aug-97** Time: **14:05**
 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)	16	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**

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