

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

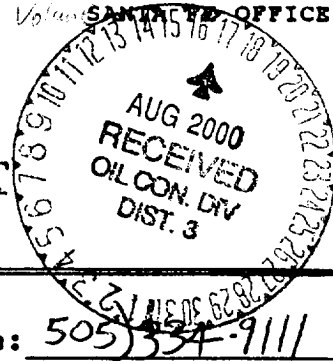
State of New Mexico
Energy, Minerals and Natural Resources Department

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

ASK TPH
LTD Volume



PIT REMEDIATION AND CLOSURE REPORT

Operator: KOCH Exploration Co. Telephone: 505) 334-9111
Address: P.O. Box 489, Aztec, NM 87410
Facility Or: Lambe 2
Well Name
Location: Unit or Qtr/Qtr Sec A Sec 20 T 31N R 10W County San Juan
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: BLM ☒ State ☐ Fee ☐ Other ☐

Pit Location: Pit dimensions: length 18', width 15', depth 14'
(Attach diagram) Reference: wellhead ☐, other Compressor Shed
Footage from reference: 20
Direction from reference: 90 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) 0
lakes, ponds, rivers, streams, creeks, Greater than 1000 feet (0 points)
irrigation canals and ditches)

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: 7/1/96 Dated Completed: _____
Remediation Method: Excavation ☒ Approx. cubic yards 150
(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 soil farm.

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 13-14 feet

Sample date 7/3/96 Sample time 1117

Sample Results

Benzene(ppm) 0.002

Total BTEX(ppm) 1.87

Field headspace(ppm) N/A

TPH N/A 3125

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

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: **10-Jul-96**
COC No.: **4199**
Sample No. **11418**
Job No. **2-1000**

Project Name: **Koch Exploration Co. - Lambe #2**
Project Location: **LAMB-200; Bottom 13-14**
Sampled by: **SA** Date: **3-Jul-96** Time: **11:17**
Analyzed by: **HR** Date: **10-Jul-96**
Sample Matrix: **Soil**

Laboratory Analysis

Parameter	Result	Detection Limit	Unit of Measure	Method
Total Petroleum Hydrocarbons, TPH	3125	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 - QCSSI	897	828 - 1024	mg/kg

Duplication

Laboratory Identification	(% RSD)	Limit (% RSD)
11418-4199	3.4	15.0

Approved by: *Da G*
Date: **7/10/96**

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: *10-Jul-96*
COC No.: *4199*
Sample No. *11418*
Job No. *2-1000*

Project Name: *Koch Exploration Co. - Lambe #2*
Project Location: *LAMB-200; Bottom 13-14'*
Sampled by: *SA* Date: *3-Jul-96* Time: *11:17*
Analyzed by: *HR* Date: *9-Jul-96*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Result	Units of Measure	Detection Limit	Units of Measure
Benzene	1.5	ug/kg	0.2	ug/kg
Toluene	258.8	ug/kg	0.2	ug/kg
Ethylbenzene	127.0	ug/kg	0.2	ug/kg
m,p-Xylene	759.7	ug/kg	0.2	ug/kg
o-Xylene	719.0	ug/kg	0.2	ug/kg
TOTAL		1866.1	ug/kg	

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

Approved by: *Da C*
Date: *7/10/96*

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TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

7/3196- [redacted] - Separator Pit

Came to location to continue excavating
sep. pit. Dug too 13-14' deep.
Trouble with PID meter. Took bottom
sample for lab analysis.

LAB-200: TPH = 3125 ppm

B = 1.5 ppb = 0.0015 ppm

T = 258.8 = 0.2588 ppm

E = 127.0 = 0.1270 ppm

m.f.-X = 759.7 = 0.7597

O-X = 719.0 = 0.7190

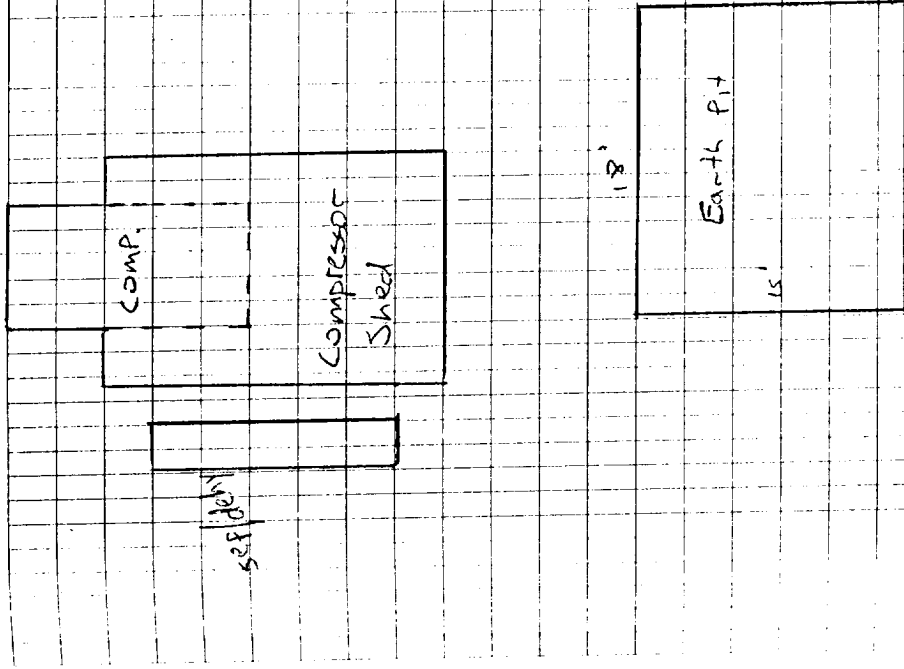
total = 1866.1 ppb = 1.8661 ppm

7/1/96 - ~~Chamber~~ - Separator Pit

- Began excavation after removing fence.
- Sampled as digging proceeded.
- Had trouble w/ PID meter - Would not read samples. Packed on samples in double-baggies to read w/ PID at office

PID Data:

#	Location	Reading
1	2' west side	207 ppm
2	4' west side	237
3	6' west side	220
4	2-3' (Repeat)	228



9/12/96 - ~~Friday~~

Ran all of soil from thru screen pits. Screen set for 1" and smaller. All larger than 1" material (gravel, cobbles and boulders) dumped into separator pit. All 1" and smaller (silt, sand; pebbles, chunks of clay) stock-piled and spread on location. Approx $\frac{1}{3}$ spread onto 12-18" thick and $\frac{2}{3}$ in spoil pile.

9/13/96 - ~~Friday~~

De-mobilized all equipment from location.

KOCH Exploration Company

Risk Analysis

Prepared by:
Contract Environmental Services, Inc.

Prepared for:
Oil Conservation Division - District III

Date: 8/5/97

Location: Lambe 2 -Separator Pit Unit-A, Sec20, T31N, R10W

Lease Number: NM-003187

Resources

Ground Water: 65 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 13-14 feet under this earthen pit
excavating became difficult causing the digging to be
halted. The difficulty in digging was caused by
large rocks, cobbles and clay. This conglomeration
would sufficiently interfere with the transport of
contaminates into the ground water below this site.

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	
Moderate	X
High	

The ground water under this site is at moderate risk of being impacted by
contamination from this site.

Risk Analysis

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

The conglomerate barrier will restrict contamination travel to the ground-water so it is concluded that the risk of ground water contamination is moderate.

Risk Analysis

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