District I
10. Box 1980, Hobbs, NM
District II
10. Drawer DD, Artesia, NM 88211
District III
000 Rio Brazos Rd, Aztec, NM 87410

State of New Hexico 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 REPOR

| operator: KOCH Exploration Conditions: P.O. Box 489 Aztec Pacility or: Gardner 4A Well Name Location: Unit or Qtr/Qtr Sec P Pit Type: Separator Dehydrator Land Type: BLM , State , Fee | NM 87410 Sec 25 T 32NR 9W county San Juan Other Drip |
|--|--|
| (Attach diagram) Reference: wellhead V Footage from reference | h 25', width 25', depth 4' , other : 80 ce: 80 Degrees Vest North 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) |
| 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) |
| 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) |
| | RANKING SCORE (TOTAL POINTS): 10 |

Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

| FORM APPROVED Budget Bureau No. 1004-0135 | |
|--|---|
| Budget Bureau No. 1004-0135 | , |
| Expires: March 31, 1993 | |

| 8 | Lease Designation and Serral No | |
|-----|---------------------------------|--|
| NM- | 013642 | |

| SUNDRY | NOTICES | AND | REPORTS | ON WELLS | , |
|--------|---------|-----|---------|----------|---|
| | | | | | |

SUBMIT IN TRIPLICATE

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposite 25

If Indian, Allottee or Tribe Name

NA

| If Unit or CA | Agreement | Designation |
|---------------|-----------|-------------|
| NA | | |

| I. Type of Well Oil Well X Gas Well Other | | 8. Well Name and No |
|--|------------------------------|---|
| 2. Name of Operator Koch Exploration Company | oci non | Gardner 4A 9. API Well No. 30-045-22768 |
| 3. Address ard Telephone No. P.O. Box 489 Aztec, New Mexico | | 10. Field and Pool, or Exploratory Area Blanco Mesa Verde |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey l | Description) | 11. County or Parish, State |
| S25, T32N, R9W (M) 1030' FSL & 870' FEL | | San Juan County New Mexico |
| 12. CHECK APPROPRIATE BOX(s) T | O INDICATE NATURE OF NOTICE. | , REPORT, OR OTHER DATA |
| TYPE OF SUBMISSION | TYPE OF | ACTION |
| X Notice of Intent | Abandonment | Change of Plans |
| | Recompletion | New Construction |
| Subsequent Report | Plugging Back | Non-Routine Fracturing |
| | Casing Repair | Water Shut-Off |
| Final Abandonment Notice | Altering Casing | Conversion to Injection |
| | X Other add Lewis Shale | Dispose Water |
| | | (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) |
| 13. Describe Proposed or Compelted Operations (Clearly state all p | | Country and proposed work. If well is directionally drilled |

give subsurface locations and measured and true vertical depths for

We plan on adding the Lewis Shale completion to the existing Mesa Verde. 7", 20# - 26# K-55 casing @ 3542' with 4 1/2", 10.5#, K-55 casing from surface to TD of 6171'. PBTD is 6127'. We will complete the Lewis Shale through 4 1/2" casing w/ isolation tool.

Lewis Shale Completion will be a 2 stage Foam Frac as Follows:

Lower Lewis Shale 4785' - 5070', perforate 50 - .38" holes, and use 100,000# 20/40 Brady Sand.

Upper Lewis Shale 4390' - 4690', perforate 50 - .38" holes, and use 100,000# 20/40 Brady Sand.

To complete this formation we will need to construct an earthen blow pit (30' x 50' x 10' deep). All work will be within existing disturbed location. We will close pit when all water has been removed and re-seed to BLM specs.

We plan on completing this formation upon BLM approval and rig availability.

| I hereby certify that the foregoing is frue and correct | |
|---|--|
| Signed Title Operations Manager Date 7/35/00 | |
| (This space for Federal or State office use) Date 9/29/00 | |
| Approved by Title Date | |

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jursidiction

| | 1-107 |
|--|---|
| Date Remediation St | arted: 5 27 97 Date Completed: 5 27 97 |
| Comediation Method: | Excavation Approx. cubic yards |
| (Check all appropriate sections) | Landfarmed Insitu Bioremediation |
| | other No Action Required |
| | V |
| Remediation Location | n: Onsite Offsite |
| ie. landfarmed onsite, | |
| tme and location of faite facility) | |
| mneral Description | or Remedial Action: No Action Required |
| | |
| | |
| | |
| | |
| | |
| | ered: No Yes Depth |
| round Water Encount | tered: No v les septi |
| | 2) 1 |
| inal Pit: :losure Sampling: | Sample location <u>mid-pit</u> |
| if multiple samples, ttach sample results | |
| nd diagram of sample ocations and depths) | Sample depth |
| | Sample date $\frac{5 27/97}{}$ Sample time $\frac{1315}{}$ |
| | Sample Results |
| | Benzene(ppm) ND |
| | Total BTEX(ppm) ND |
| | Field headspace(ppm) 1.0 |
| | трн 29 |
| | _ |
| round Water Sample: | Yes No (If yes, attach sample results) |
| | T THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST |
| F MY KNOWLEDGE AND | |
| ATE 8/10/00 | PRINTED NAME DONALD L. Johnson AND TITLE OPERATIONS Manager |
| IGNATURE And & | AND TITLE OPERATIONS Manager |
| L | |

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Shawn Adams

Date:

3-Jun-97

Company: Contract Environmental Services, Inc.

COC No.:

4315

Address:

P.O. Box 3376

Sample No.:

14733

City, State: Farmington, NM 87499

Job No.:

2-1000

Project Name:

Koch Exploration - Gardner 4A

Project Location:

GARD4A-100; Mid Pit 4'

Sampled by:

DGM

Date:

27-May-97 Time:

13:15

analyzed by:

HR

Date:

30-May-97

Sample Matrix:

Soil

Laboratory Analysis

| Parameter | Results as Received | Limit of Quantitation | Unit of Measure | Method |
|-----------------------------------|------------------------|--------------------------|--------------------|------------------|
| Total Petroleum Hydrocarbons, TPH | **29** | 25 | mg/kg | EPA Method 418.1 |

ND - Not Detected at Limit of Quantitation

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 | 828 | 828 - 1024 | mg/kg |

Duplication

| Laboratory Identification | % RSD | Limit % RSD |
|---------------------------|-------|----------------|
| 14761-6382 | 1.0 | 15,0 |

Approved by:

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Shawn Adams

Date:

10-Jun-97

Company: Contract Environmental Services, Inc.

COC No.:

4315

Sample No.:

14733

Address: City, State: Farmington, NM 87499

P.O. Box 3376

Job No.:

2-1000

Project Name:

Koch Exploration & Gardner 4A

Project Location:

¿GARD4A-100; Midpit 4'

Sampled by:

DGM HR

Date: Date:

4-Jun-97

27-May-97 Time:

13:15

Analyzed by: Sample Matrix:

Soil

Laboratory Analysis

| Parameter | | Results as Received | Unit of Measure | Limit of Quantitation | Unit of Measure |
|---------------------------------|-------|------------------------|--------------------|--------------------------|--------------------|
| Benzene | | ŃĎ | ug/kg | 1 | ug/kg |
| ff duene | | ND | ug/kg | 1 | ug/kg |
| Ethylbenzene | | ND | ug/kg | 11 | ug/kg |
| m.d Kylene | | ND | ug/kg | 1 | ug/kg |
| m,p ™X ylene o-Xylene | | ND | ug/kg | 1 | ug/kg |
| | | ₹ : | | | |
| | TOTAL | ND | ug/kg | J | |

ND - Not Detected at Limit of Quantitation

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

SERWICES INC H732 -4315 82499 14133 14334 14735 4136 Telefax No. ANALYSIS REQUESTED くく Company Coutlet Fild, Randue Company 3.0 pm 4.0 P/m 243 ppm 1.8 pm JUANT. Company Correct Ful; Radia, Radia, Radia, Radia, State, Zip favor in star. 707 7.8H 325-1178 40Ams **CHAIN OF CUSTODY RECORD** Name Sthaw Telephone No. 19197 × \succ Containers Number of PRES. 3 9 V V ИО 657 W. Maple • P. O. Box 2606 • Farmington NM 87499 LAB (505) 325-5667 • FAX: (505) 325-6256 MATRIX 100 5/28/97 0930 80; 5/24/97 1100 50; 5/28/47 (200 Soi 5/24/AF 1315 | S/27/97 1400 TIME Dept. SAMPLE DATE 0/1/10 0 Ŕ Garlery Mider Job No. 34 mid oit Gardner 4A midpit 3 mid put Gardner 5 mid pit Company Kact Exploration ح ج Sampling Location: Address 180 130x 489 SAMPLE IDENTIFICATION Gardner Gardner ON SITE Name Day Colanson City, State, Zip Artec TECHNOLOGIES, LTD. GARD 4A-100 CARD4-101 Purchase Order No.: GAR5 - 100 GARD 3-100 GARD 3A-10 INVOICE

LABID

 $\mathcal{L}_{i}^{i}\sim \mathcal{I}\Omega_{i}^{i}$

Method of Shipment:

Authorized by: _

Relinquished by: Relinquished by:

Date/Time 5/2

Date/Time

Special Instructions:

10 Working Days

24-48 Hours

Rush The

Date 4/18

(Clent Signature Must Accompany Request)

Received by: Received by:

Received by:

Date/Time 4/18/9

786

Relinquished by:

Date/Time Date/Time planistal

431

CES Summary of KOCH Project for 5/27/97

| Sample Number | Location | PID (ppm) | Remarks |
|---|---|---------------------------|--|
| Gardner 5 1 2 West bank bottom East bank bottom Northbank bottom South bank bottom | mid-pit 4' below surface west-pit 4' below surface | 243 171 0 0 0 | hit bedrock on both sample locations |
| West bank bottom East bank bottom Northbank bottom South bank bottom | mid-pit 4' below surface | 1 0 0 0 | hit bedrock on sample location |
| Gardner 4 1 West bank bottom East bank bottom Northbank bottom South bank bottom | mid-pit 4' below surface | 4 0 0 0 0 | no bedrock hit-sample below limit at depth |

