

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-144
June 1, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☐

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

| | | |
|--|--|---|
| Operator: <u>Koch Exploration Company, LLC.</u> Telephone: <u>505-334-9111</u> e-mail address: _____ | | |
| Address: <u>PO Box 489, Aztec, NM 87410</u> Facility or well name: <u>Moore 1</u> API #: <u>300524189</u> U/L <u>C 800 FNL, 1825 FWL, Sec 5, T 30N, R 8W</u> | | |
| County: <u>San Juan</u> | Latitude <u>36°50.42</u> (GPS) | Longitude <u>107°42.06</u> (GPS) NAD: 1927 <input type="checkbox"/> 1983 <input type="checkbox"/> |
| Surface Owner: Federal <input type="checkbox"/> State <input type="checkbox"/> Private <input checked="" type="checkbox"/> Indian <input type="checkbox"/> | | |
| Pit Type: Drilling <input type="checkbox"/> Production <input checked="" type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input type="checkbox"/> Unlined <input checked="" type="checkbox"/> Liner type: Synthetic <input type="checkbox"/> Thickness _____ mil Clay <input type="checkbox"/> Pit Volume <u>NA</u> bbl | Below-grade tank Volume: <u>NA</u> bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not. _____ | |
| Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) | Less than 50 feet | (20 points) |
| | 50 feet or more, but less than 100 feet | (10 points) |
| | 100 feet or more <input checked="" type="checkbox"/> | (0 points) <input checked="" type="checkbox"/> |
| 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 <input checked="" type="checkbox"/> | (0 points) <input checked="" type="checkbox"/> |
| Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.) | Less than 200 feet | (20 points) |
| | 200 feet or more, but less than 1000 feet | (10 points) |
| | 1000 feet or more <input checked="" type="checkbox"/> | (0 points) <input checked="" type="checkbox"/> |
| Ranking Score (Total Points) | | 0 |

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☒ offsite ☐ If offsite, name of facility: (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface _____ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: Decommissioned Separator Pit. Pit has been backfilled with clean native and imported soils. Reseeding will be performed when season and weather allow. A separate C-144 is being filed with NMOCD for the Production Pit.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 11/23/05

Printed Name/Title Donald Johnson - Field Operations Man Signature Donald L. Johnson

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval: DEPUTY OIL & GAS INSPECTOR, DIST. 1

Printed Name/Title _____

Signature Denny Hunt

Date: NOV 23 2005



November 23, 2005

KOCH EXPLORATION COMPANY LLC

RE: Sampling activities for Pit Closure at the Moore 1 Well Location. Unit C, Sec. 5, T 30N, R 8W, Dakota, San Juan County, NM. Fed Lease: NMSFO78580. API: 3004524189.

On November 4, 2005, SMA mobilized to the unlined separator pit at the Moore 1 Well Location. The dimensions of the unlined pit were approximately 15 X 15 X 3 feet. SMA collected a five-point composite soil sample from the center and each corner of the pit bottom for field analysis by Photo Ionization Detector (PID). Refusal at sandstone was met at 4 to 8 inches below grade. A four-point composite soil sample was collected from the sidewalls for field analysis by PID. The pit bottom composite sample showed a PID reading of 0.2 units and the sidewall composite sample showed a PID reading of 0.1 units. Soil samples for closure were collected for laboratory analysis. Samples were analyzed for Diesel Range Organics (DRO), and Gasoline Range Organics (GRO) by USEPA Method 8015B. Since the Moore 1 pits are under BLM Order # 06MH012W, samples were analyzed by US EPA Method 8021B for BTEX. The samples were placed on ice and transported to the laboratory by the sampling technician, where Chain of Custody Protocols were followed. The laboratory analysis of the closure samples showed hydrocarbon levels of:

| November 4, 2005 | PID Units | DRO ppm | GRO ppm | BTEX ppm |
|--------------------|-----------|---------|---------|----------|
| 4 Point Sidewall | 0.1 | <25 | BDL | BDL |
| 5 Point Pit Bottom | 0.2 | BDL | BDL | BDL |

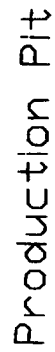
BDL: Below Detection Limits

No remedial excavation is required based on laboratory analysis of soil samples. The location is in a non-vulnerable area which requires closure levels of less than 10 ppm Benzene, 50 ppm BTEX, and 5,000 ppm Total Petroleum Hydrocarbons (TPH= GRO+DRO). Koch Exploration Company LLC, requests closure for this pit. Groundwater was not encountered.

Respectfully submitted,

Don Johnson
Field Operations Manager
Koch Exploration Company LLC

Cc: Ms. Peg Young, KEC Environmental Compliance Manager
Mr. Steve Ellington, KMS Environmental Compliance Director



Wellhead

Sampling Point



612 E. MURRAY DR. PH. (505) 325-5667
FARMINGTON, NM 87401 FAX (505) 327-1498

APPROVED:

DRWN BY: JPH

CHK'D BY:

PROJECT NO: 5115155

DATE: _____

DATE: 11/18/05

DATE: _____

SHEET: 1 OF 1

Moore 1

800 FNL, 1825 FWL, S5, T30N, R8W

API 3004524189

San Juan County, NM

612 E. Murray Drive
Farmington, NM 87499

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P.O. Box 3788
Shiprock, NM 87420

Off: (505) 327-1072

ANALYTICAL REPORT

Date: 17-Nov-05 Off: (505) 368-4065

CLIENT: Souder, Miller & Associates
Work Order: 0511016
Project: Moore #1/5115155
Lab ID: 0511016-001A

Client Sample Info: Moore #1
Client Sample ID: Production Pit SW
Collection Date: 11/4/2005 10:05:00 AM
Matrix: SOIL

| Parameter | Result | PQL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|--------------------------|------|--------------|----|---------------|
| DIESEL RANGE ORGANICS | | SW8015B | | Analyst: jem | | |
| T/R Hydrocarbons: C10-C28 | ND | 25.0 | | mg/Kg | 1 | 11/15/2005 |
| Surr: o-Terphenyl | 89.6 | 46.8-124 | | %REC | 1 | 11/15/2005 |
| GASOLINE RANGE ORGANICS | | SW8015B (SW5035A) | | Analyst: jem | | |
| T/R Hydrocarbons: C6-C10 | ND | 4.50 | | mg/Kg | 25 | 11/11/2005 |
| Surr: Trifluorotoluene | 109 | 71.9-125 | | %REC | 25 | 11/11/2005 |
| AROMATIC VOLATILES BY GC/PID | | SW8021B (SW5035A) | | Analyst: jem | | |
| Benzene | ND | 50.0 | | µg/Kg | 25 | 11/14/2005 |
| Toluene | ND | 50.0 | | µg/Kg | 25 | 11/14/2005 |
| Ethylbenzene | ND | 50.0 | | µg/Kg | 25 | 11/14/2005 |
| m,p-Xylene | ND | 100 | | µg/Kg | 25 | 11/14/2005 |
| o-Xylene | ND | 50.0 | | µg/Kg | 25 | 11/14/2005 |
| Surr: Fluorobenzene | 97.5 | 80-120 | | %REC | 25 | 11/14/2005 |
| Surr: 1,4-Difluorobenzene | 100 | 80-120 | | %REC | 25 | 11/14/2005 |
| Surr: 4-Bromochlorobenzene | 100 | 50-140 | | %REC | 25 | 11/14/2005 |

Qualifiers: ND - Not Detected at the Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
H - Parameter exceeded Maximum Allowable Holding Time

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
E - Value above Upper Quantitation Limit - UQL

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612 E. Murray Drive
Farmington, NM 87499

Off: (505) 327-1072

ANALYTICAL REPORT

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P.O. Box 3788
Shiprock, NM 87420

Date: 17-Nov-05 Off: (505) 368-4065

CLIENT: Souder, Miller & Associates

Work Order: 0511016

Project: Moore #1/5115155

Lab ID: 0511016-002A

Client Sample Info: Moore #1

Client Sample ID: Production Pit Pit Bottom

Collection Date: 11/4/2005 10:00:00 AM

Matrix: SOIL

| Parameter | Result | PQL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|--------------------------|------|--------------|----|---------------|
| DIESEL RANGE ORGANICS | | SW8015B | | Analyst: jem | | |
| T/R Hydrocarbons: C10-C28 | 55.5 | 25.0 | | mg/Kg | 1 | 11/15/2005 |
| Surr: o-Terphenyl | 98.9 | 46.8-124 | | %REC | 1 | 11/15/2005 |
| GASOLINE RANGE ORGANICS | | SW8015B (SW5035A) | | Analyst: jem | | |
| T/R Hydrocarbons: C6-C10 | ND | 4.50 | | mg/Kg | 25 | 11/11/2005 |
| Surr: Trifluorotoluene | 109 | 71.9-125 | | %REC | 25 | 11/11/2005 |
| AROMATIC VOLATILES BY GC/PID | | SW8021B (SW5035A) | | Analyst: jem | | |
| Benzene | ND | 50.0 | | µg/Kg | 25 | 11/14/2005 |
| Toluene | ND | 50.0 | | µg/Kg | 25 | 11/14/2005 |
| Ethylbenzene | ND | 50.0 | | µg/Kg | 25 | 11/14/2005 |
| m,p-Xylene | ND | 100 | | µg/Kg | 25 | 11/14/2005 |
| o-Xylene | ND | 50.0 | | µg/Kg | 25 | 11/14/2005 |
| Surr: Fluorobenzene | 98.0 | 80-120 | | %REC | 25 | 11/14/2005 |
| Surr: 1,4-Difluorobenzene | 99.8 | 80-120 | | %REC | 25 | 11/14/2005 |
| Surr: 4-Bromochlorobenzene | 110 | 50-140 | | %REC | 25 | 11/14/2005 |

Qualifiers: ND - Not Detected at the Practical Quantitation Limit
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H - Parameter exceeded Maximum Allowable Holding Time

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
E - Value above Upper Quantitation Limit - UQL

612 E. Murray Drive
Farmington, NM 87499

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P.O. Box 3788
Shiprock, NM 87420

Off: (505) 327-1072

ANALYTICAL REPORT

Date: 17-Nov-05 Off: (505) 368-4065

CLIENT: Souder, Miller & Associates
Work Order: 0511016
Project: Moore #1/5115155
Lab ID: 0511016-003A

Client Sample Info: Moore #1
Client Sample ID: Separator Pit SW
Collection Date: 11/4/2005 10:30:00 AM
Matrix: SOIL

| Parameter | Result | PQL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|------------------|------|-------|----|---------------|
| DIESEL RANGE ORGANICS | | | | | | |
| | | SW8015B | | | | Analyst: jem |
| T/R Hydrocarbons: C10-C28 | 16 | 25.0 | J | mg/Kg | 1 | 11/15/2005 |
| Surr: o-Terphenyl | 80.1 | 46.8-124 | | %REC | 1 | 11/15/2005 |
| GASOLINE RANGE ORGANICS | | | | | | |
| | | SW8015B | | | | Analyst: jem |
| | | (SW5035A) | | | | |
| T/R Hydrocarbons: C6-C10 | ND | 4.50 | | mg/Kg | 25 | 11/11/2005 |
| Surr: Trifluorotoluene | 109 | 71.9-125 | | %REC | 25 | 11/11/2005 |
| AROMATIC VOLATILES BY GC/PID | | | | | | |
| | | SW8021B | | | | Analyst: jem |
| | | (SW5035A) | | | | |
| Benzene | ND | 50.0 | | µg/Kg | 25 | 11/14/2005 |
| Toluene | ND | 50.0 | | µg/Kg | 25 | 11/14/2005 |
| Ethylbenzene | ND | 50.0 | | µg/Kg | 25 | 11/14/2005 |
| m,p-Xylene | ND | 100 | | µg/Kg | 25 | 11/14/2005 |
| o-Xylene | ND | 50.0 | | µg/Kg | 25 | 11/14/2005 |
| Surr: Fluorobenzene | 97.2 | 80-120 | | %REC | 25 | 11/14/2005 |
| Surr: 1,4-Difluorobenzene | 100 | 80-120 | | %REC | 25 | 11/14/2005 |
| Surr: 4-Bromochlorobenzene | 103 | 50-140 | | %REC | 25 | 11/14/2005 |

Qualifiers: ND - Not Detected at the Practical Quantitation Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
E - Value above Upper Quantitation Limit - UQL

612 E. Murray Drive
Farmington, NM 87499

Off: (505) 327-1072

ANALYTICAL REPORT

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P.O. Box 3788
Shiprock, NM 87420

Date: 17-Nov-05 Off: (505) 368-4065

CLIENT: Souder, Miller & Associates
Work Order: 0511016
Project: Moore #1/5115155
Lab ID: 0511016-004A

Client Sample Info: Moore #1
Client Sample ID: Separator Pit Pit Bottom
Collection Date: 11/4/2005 10:25:00 AM
Matrix: SOIL

| Parameter | Result | PQL | Qual | Units | DF | Date Analyzed |
|-------------------------------------|--------|--------------------------|------|--------------|----|---------------|
| DIESEL RANGE ORGANICS | | SW8015B | | Analyst: jem | | |
| T/R Hydrocarbons: C10-C28 | ND | 25.0 | | mg/Kg | 1 | 11/15/2005 |
| Surr: o-Terphenyl | 78.9 | 46.8-124 | | %REC | 1 | 11/15/2005 |
| GASOLINE RANGE ORGANICS | | SW8015B (SW5035A) | | Analyst: jem | | |
| T/R Hydrocarbons: C6-C10 | ND | 4.50 | | mg/Kg | 25 | 11/11/2005 |
| Surr: Trifluorotoluene | 109 | 71.9-125 | | %REC | 25 | 11/11/2005 |
| AROMATIC VOLATILES BY GC/PID | | SW8021B (SW5035A) | | Analyst: jem | | |
| Benzene | ND | 50.0 | | µg/Kg | 25 | 11/14/2005 |
| Toluene | ND | 50.0 | | µg/Kg | 25 | 11/14/2005 |
| Ethylbenzene | ND | 50.0 | | µg/Kg | 25 | 11/14/2005 |
| m,p-Xylene | ND | 100 | | µg/Kg | 25 | 11/14/2005 |
| o-Xylene | ND | 50.0 | | µg/Kg | 25 | 11/14/2005 |
| Surr: Fluorobenzene | 97.8 | 80-120 | | %REC | 25 | 11/14/2005 |
| Surr: 1,4-Difluorobenzene | 99.7 | 80-120 | | %REC | 25 | 11/14/2005 |
| Surr: 4-Bromochlorobenzene | 95.5 | 50-140 | | %REC | 25 | 11/14/2005 |

Qualifiers: ND - Not Detected at the Practical Quantitation Limit
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