

3R - 261

APPROVALS

YEAR(S):

2000-1997



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenberg
Director
Oil Conservation Division

August 14, 2000

CERTIFIED MAIL
RETURN RECEIPT NO. 5051-3488

Mr. Joe Larkin
Halliburton Energy Services
4100 Clinton Dr., Bldg 3, 1107E
Houston, Texas 77020

**RE: OLD WELLEX FACILITY
FARMINGTON, NEW, MEXICO**

Dear Mr. Larkin:

The New Mexico Oil Conservation Division (OCD) has reviewed Halliburton Energy Services (HES) June 7, 2000 "ANNUAL GROUNDWATER REPORT, WELLEX FACILITY, 2600 BLOOMFIELD HIGHWAY, FARMINGTON, NEW MEXICO" and June 9, 2000 "REQUEST FOR CLOSURE OF FORMER WELLEX FACILITY, FARMINGTON, NEW MEXICO" which were submitted on behalf of HES by their consultant ENTACT. These documents contain the results of HES's remediation and monitoring of contaminated ground water related to a remediated waste disposal pit at the old Wellex/Otis Engineering facility in Farmington, New Mexico. The document also contains HES's request for closure of the site remediation and monitoring actions since ground water has been remediated to below New Mexico Water Quality Control Commission (WQCC) standards as demonstrated in 4 consecutive quarterly sampling events.

The above-referenced closure request is **approved with the following conditions:**

1. HES shall plug and abandon the site monitor wells by either pulling the casing or cutting the casing off below the surface and filling the hole or casing annulus with a cement grout containing 3-5% bentonite.
2. HES shall submit a final plugging and abandonment report to the OCD. The report shall be submitted to the OCD Santa Fe Office by September 15, 2000 with a copy provided to the OCD Aztec District Office.

Mr. Joe Larkin
August 14, 2000
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Please be advised that OCD approval does not relieve HES of liability should remaining contaminants pose a future threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve HES of responsibility for compliance with any other federal, state or local laws and regulations.

The OCD would like to thank HES for their cooperation in remediation of the former Wellex site.

If you have any questions or comments, please call me at (505) 827-7154.

Sincerely,

A handwritten signature in black ink, appearing to read "Will Olson". The signature is written in a cursive, flowing style.

William C. Olson
Hydrologist
Environmental Bureau

xc: Denny Foust, OCD Aztec District Office
Marty Cox, ENTACT



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

May 17, 1999

CERTIFIED MAIL
RETURN RECEIPT NO. Z-274-520-660

Mr. Joe Larkin
Halliburton Energy Services
4100 Clinton Dr., Bldg 3, 1107E
Houston, Texas 77020

**RE: OLD WELLEX FACILITY
FARMINGTON, NEW, MEXICO**

Dear Mr. Larkin:

The New Mexico Oil Conservation Division (OCD) has reviewed Halliburton Energy Services (HES) March 31, 1999 "FORMER WELLEX FACILITY, FARMINGTON, NEW MEXICO" which was submitted on behalf of HES by their consultant ENTACT. This document contains the results of HES's monitoring of ground water quality adjacent to a remediated waste disposal pit at the old Wellex/Otis Engineering facility in Farmington, New Mexico. The document also contains HES's long term ground water sampling plan.

The above referenced ground water sampling plan is **approved with the following conditions:**

1. Ground water from the monitor wells shall be sampled and analyzed using EPA approved methods and quality assurance/quality control (QA/QC) procedures.
2. HES shall submit the results of the quarterly ground water monitoring to the OCD in an annual report. The report shall be submitted to the OCD Santa Fe Office by June 1, 2000 with a copy provided to the OCD Aztec District Office. The annual report shall contain:
 - a. A description of all quarterly monitoring activities which have occurred including conclusions and recommendations.
 - b. A quarterly water table potentiometric map showing the location of the former disposal area, monitor wells and any other pertinent site features as well as the direction and magnitude of the hydraulic gradient.

Mr. Joe Larkin
May 17, 1999
Page 2

- c. Summary tables of all past and present ground water quality sampling results and copies of all laboratory analytical data sheets and associated QA/QC data taken within the past year.
- d. Quarterly isopleth maps for contaminants of concern.
- e. The disposition of all wastes generated.

Please be advised that OCD approval does not relieve HES of liability should the sampling plan fail to adequately monitor contamination related to HES's activities, or if contamination exists which is outside the scope of the work plan. In addition, OCD approval does not relieve HES of responsibility for compliance with any other federal, state or local laws and regulations.

If you have any questions or comments, please call me at (505) 827-7154.

Sincerely,



William C. Olson
Hydrologist
Environmental Bureau

xc: Denny Foust, OCD Aztec District Office
Marty Cox, ENTACT

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PS Form 3800, April 1995



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

March 26, 1998

CERTIFIED MAIL
RETURN RECEIPT NO. Z-235-437-250

Mr. Joe Larkin
Halliburton Energy Services
4100 Clinton Dr., Bldg 3, 1107E
Houston, Texas 77020

**RE: OLD WELLEX FACILITY
FARMINGTON, NEW, MEXICO**

Dear Mr. Larkin:

The New Mexico Oil Conservation Division (OCD) has completed a review of the following Halliburton Energy Services (HES) documents which were submitted on behalf of HES by their consultant Tetra Tech NUS, Inc:

- March 16, 1998 "PRESENCE OF 4,4 DDD IN SOIL AT THE FORMER WELLEX FACILITY, FARMINGTON, NEW MEXICO".
- January 27, 1998 "WORK PLAN FOR SOURCE REMOVAL AND GROUNDWATER MONITORING WELL INSTALLATION, FORMER WELLEX FACILITY, FARMINGTON, NEW MEXICO".
- October 30, 1997 "SITE INVESTIGATION REPORT FOR WELLEX/OTIS ENGINEERING FACILITY, HALLIBURTON ENERGY SERVICES, 2600 EAST BLOOMFIELD HIGHWAY, FARMINGTON, NEW MEXICO".

These documents contain the results of HES's investigation of contamination related to a waste disposal pit at the old Wellex/Otis Engineering facility in Farmington, New Mexico. The documents also contain HES's work plan for remediation of contaminated soils and installation of ground water monitoring wells to determine potential ground water impacts.

The above referenced work plan is approved with the following conditions:

1. The excavation backfill will be mounded above the ground surface to prevent runoff from ponding over the former pit location.
2. All soil and water quality samples will be collected and analyzed using EPA approved methods and quality assurance/quality control (QA/QC).

Mr. Joe Larkin
March 26, 1998
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3. All water quality samples will be analyzed for concentrations of aromatic and halogenated volatile organics, polynuclear aromatic hydrocarbons, WQCC metals and cations and anions.
4. HES will submit a report on the investigation to the OCD Santa Fe Office by June 5, 1998. A copy of the report will also be provided to the OCD Aztec District Office. The report will contain:
 - a. A description of all activities which occurred during the investigation including conclusions and recommendations.
 - b. A facility map showing the locations of relevant site features including the size of excavated areas and all soil and water sampling locations.
 - c. A water table potentiometric map showing the magnitude and direction of the hydraulic gradient.
 - c. A summary of all laboratory analytic results including copies of the laboratory analytical data sheets and associated QA/QC data.
 - d. The disposition of all wastes generated.
5. HES will notify the OCD at least 1 week in advance of all scheduled activities such that the OCD has the opportunity to witness the events and/or split samples.

Please be advised that OCD approval does not relieve HES of liability if contamination exists which is beyond the scope of the work plan or if the activities fail to adequately remediate contamination related to HES's activities. In addition, OCD approval does not relieve HES of responsibility for compliance with any other federal, state or local laws and/or regulations.

If you have any questions, please call me at (505) 827-7154.

Sincerely,



William C. Olson
Hydrogeologist
Environmental Bureau

xc: Denny Foust, OCD Aztec District Office
Jeff Johnston, Tetra Tech NUS, Inc.

Z 235 437 250

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PS Form 3800, April 1995



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

August 13, 1997

CERTIFIED MAIL
RETURN RECEIPT NO. P-410-431-207

Mr. Todd Dean
Halliburton Energy Services
P.O. Drawer 1431
Duncan, Oklahoma 73536

**RE: OLD WELLEX FACILITY
FARMINGTON, NEW, MEXICO**

Dear Mr. Dean:

The New Mexico Oil Conservation Division (OCD) has completed a review of Halliburton Energy Services (HES) June 27, 1997 "TRANSMITTAL OF WORK PLAN" which was submitted on behalf of HES by their consultant Brown & Root. This document contains HES's work plan for investigation of the extent of contamination related to a waste disposal pit at the old Wellex/Otis Engineering facility in Farmington, New Mexico.

The above referenced work plan is approved with the following conditions:

1. All samples will be collected and analyzed using EPA approved methods and quality assurance/quality control (QA/QC).
2. All soil samples collected for metals concentrations will be analyzed for concentrations of total metals in soils and not for TCLP metals.
3. HES will collect a soil metals sample from an undisturbed area such that natural background metals concentrations can be determined.
4. HES will submit a report on the investigation to the OCD Santa Fe Office by October 31, 1997. A copy of the report will also be provided to the OCD Aztec District Office. The report will contain:
 - a. A description of all activities which occurred during the investigation including conclusions and recommendations.

Mr. Todd Dean
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- b. A facility map showing the locations of relevant site features and all sampling locations.
 - c. A summary of all laboratory analytic results including copies of the laboratory analytical data sheets and associated QA/QC data.
 - d. The disposition of all wastes generated.
5. HES will notify the OCD at least 1 week in advance of all scheduled activities such that the OCD has the opportunity to witness the events and/or split samples.

Please be advised that OCD approval does not relieve HES of liability if contamination exists which is beyond the scope of the work plan or if the activities fail to adequately determine the extent of contamination. In addition, OCD approval does not relieve HES of responsibility for compliance with any other federal, state or local laws and/or regulations.

If you have any questions, please call me at (505) 827-7154.

Sincerely,



William C. Olson
Hydrogeologist
Environmental Bureau

xc: Denny Foust, OCD Aztec District Office
Charles A. Remkes, Brown & Root

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PS Form 3800, April 1995