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APPROVALS

YEAR(S):

2001 - 1999



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor

Jennifer A. Salisbury

Cabinet Secretary

Lori Wrotenbery

Director

Oil Conservation Division

December 26, 2001

CERTIFIED MAIL

RETURN RECEIPT NO: 5357-8215

Ms. Nina Hutton
Cross Timbers Oil Company
810 Houston St., Suite 2000
Fort Worth, Texas 76102-6298

RE: PIT CLOSURE/GROUND WATER MONITORING REPORTS

Dear Ms. Hutton:

The New Mexico Oil Conservation Division (OCD) has reviewed Cross Timbers Oil Company's (CTOC) May 11, 2000 "CROSS TIMBERS OPERATING COMPANY (CTOC) 2000 ANNUAL GROUNDWATER REPORTS, SAN JUAN COUNTY, NM, PERMANENT CLOSURE REQUESTED" which was submitted on behalf of CTOC by their consultant Blagg Engineering, Inc. This document contains the results of CTOC's investigation, remediation and monitoring of soil and ground water contamination related to the disposal of oilfield wastes in unlined pits at 7 sites in the San Juan Basin and requests closure of the remedial actions.

Below is the OCD's review of the above referenced document:

- A. The soil and ground water remedial actions at the sites listed below are satisfactory and the OCD **approves** of the closure of these pit sites. Please be advised that OCD approval does not relieve CTOC of responsibility if remaining contaminants pose a future threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve CTOC of responsibility for compliance with any other federal, state, tribal or local laws and regulations.
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| 1. McCoy GC C #1 (Blow pit) | Unit A, Sec. 28, T30N, R12W. |
| 2. Prespentt GC #1 (Blow pit) | Unit O, Sec. 21, T29N, R10W. |
| 3. Sullivan Frame A#1 (Reserve pit) | Unit D, Sec. 30, T29N, R10W. |
- B. The site listed below initially had ground water contaminated with benzene, toluene, ethylbenzene and xylene (BTEX) in excess of New Mexico Water Quality Control Commission (WQCC) standards. The report for this site does not contain 4 consecutive rounds of water quality sampling events demonstrating that ground water meets WQCC standards. Therefore,

approval of the closure actions at this site is **denied**. The OCD requires that CTOC continue ground water quality monitoring at these sites. Pursuant to the previously approved ground water management plan, the OCD will reconsider issuing final closure approval after CTOC demonstrates that ground water quality at all monitoring points are below WQCC standards for a minimum of 4 consecutive quarters.

1. Hare GC B #1E (Separator pit) Unit E, Sec. 23, T29N, R11W.

C. The sites listed below were initially found to have ground water contaminated with benzene, toluene, ethylbenzene and xylene (BTEX) in excess of New Mexico Water Quality Control Commission (WQCC) standards. The reports for these sites do not contain 4 consecutive rounds of water quality sampling events demonstrating that ground water meets WQCC standards. While the reports maintain that there may be a discrepancy in some of the prior elevated BTEX sampling results, upon a review of the site data it is not clear whether the discrepancy is the result of laboratory error or biodegradation of dissolved BTEX during the 4 to 5 month time lag between sampling events. The OCD has observed a similar decrease in magnitude of BTEX as a result of biodegradation within similar time frames at other sites. In addition, a review of the reports shows that there is only one other downgradient ground water monitoring well at each site. These wells are laterally off gradient of the direction of ground water flow at the sites and as a result there was no downgradient delineation of the extent of the BTEX plume. Therefore, approval of the closure actions at these sites is **denied**. The OCD requires that CTOC install additional ground water monitoring wells at these sites to delineate the downgradient extent of contamination and continue the site ground water quality monitoring. The OCD will reconsider issuing final closure approval after CTOC demonstrates that the downgradient extent of contamination has been determined and that ground water quality at all monitoring points are below WQCC standards for a minimum of 4 consecutive quarters, pursuant to the previously approved ground water management plan.

1. Jack Frost B #2 (Separator pit) Unit D, Sec. 27, T27N, R10W.
2. E.J. Johnson C#1E (Tank drain pit) Unit C, Sec. 21, T27N, R10W.
3. Stedje GC #1 (Separator pit) Unit F, Sec. 27, T30N, R12W.

If you have any questions, please contact me at (505) 476-3491.

Sincerely,



William C. Olson
Hydrologist
Environmental Bureau

xc: Denny Foust, OCD Aztec District Office
Bill Liess, BLM Farmington District Office
Nelson Velez, Blagg Engineering, Inc.



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

April 22, 1999

CERTIFIED MAIL
RETURN RECEIPT NO: Z-274-520-642

Ms. Nina Hutton
Cross Timbers Oil Company
810 Houston St., Suite 2000
Fort Worth, Texas 76102-6298

RE: PIT CLOSURE/GROUND WATER MONITORING REPORTS

Dear Ms. Hutton:

The New Mexico Oil Conservation Division (OCD) has reviewed Cross Timbers Oil Company's (CTOC) February 17, 1999 "CROSS TIMBERS OIL CO. (AMOCO) PIT CLOSURE/GROUNDWATER MONITORING REPORTS, SAN JUAN COUNTY, NEW MEXICO" which was submitted on behalf of CTOC by their consultant Blagg Engineering, Inc. This document contains the results of CTOC's investigation, remediation and monitoring of ground water contamination related to the disposal of oilfield wastes in unlined pits at 20 sites in the San Juan Basin and requests closure of the remedial actions.

Below is the OCD's review of the above referenced documents:

- A. The soil and ground water remedial actions at the sites listed below are satisfactory and the OCD **approves** of the closure of these pit sites. Please be advised that OCD approval does not relieve CTOC of liability if remaining contaminants pose a future threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve CTOC of responsibility for compliance with any other federal, state, tribal or local laws and regulations.

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| 1. Abrams GC C #1 (Blow pit) | Unit F, Sec. 25, T29N, R10W. |
| 2. Anderson GC A#1(Blow pit) | Unit C, Sec. 28, T29N, R10W. |
| 3. Armenta GC A#1 (Blow pit) | Unit D, Sec. 27, T29N, R10W. |
| 4. Baca GC A#1 (Blow pit) | Unit H, Sec. 26, T29N, R10W. |
| 5. Baca GC A#1 (Dehy pit) | Unit H, Sec. 26, T29N, R10W. |
| 6. Chavez GC C#1R (Blow/seperator pit) | Unit J, Sec. 23, T29N, R10W. |
| 7. Federal GC 3-1 (Blow pit) | Unit N, Sec. 23, T29N, R10W. |
| 8. Garcia GC B#1E (Blow pit) | Unit M, Sec. 21, T29N, R10W. |
| 9. Hare GC C#1 (Blow pit) | Unit M, Sec. 25, T29N, R10W. |
| 10. Hare GC C#1E (Blow pit) | Unit F, Sec. 25, T29N, R10W. |

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| 11. Hare GC F#1 (Separator pit) | Unit G, Sec. 23, T29N, R11W. |
| 12. Lefkovitz GC B#1 (Blow pit) | Unit A, Sec. 25, T29N, R10W. |
| 13. Lefkovitz GC B#1 (Separator pit) | Unit A, Sec. 25, T29N, R10W. |
| 14. Masden GC #1 (Separator pit) | Unit A, Sec. 28, T29N, R11W. |
| 15. Romero GC A#1 (Separator pit) | Unit K, Sec. 27, T29N, R10W. |
| 16. Stedje GC #1 (Blow pit) | Unit F, Sec. 27, T30N, R12W. |
| 17. Stedje GC #1E (Separator pit) | Unit A, Sec. 27, T30N, R12W. |
| 18. Trujillo GC A#1 (Blow pit) | Unit C, Sec. 28, T29N, R10W. |

B. The sites listed below have chloride and/or total dissolved solids (TDS) contamination of ground water in excess of New Mexico Water Quality Control Commission (WQCC) standards. In addition, the downgradient and/or lateral extent of chloride and/or TDS contamination in ground water at these sites has not been completely defined. Therefore, approval of the closure actions at these sites is **denied**. The OCD requires that CTOC investigate the extent of and remediate these contaminants at each site pursuant to the previously approved ground water management plan.

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| 1. Baca GC A #1A (Blow/separator pit) | Unit F, Sec. 26, T29N, R10W. |
| 2. Haney GC B#1E (Separator pit) | Unit M, Sec. 20, T29N, R10W. |

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

Sincerely,



William C. Olson
Hydrologist
Environmental Bureau

xc: Denny Foust, OCD Aztec District Office
Bill Liess, BLM Farmington District Office
Nelson Velez, Blagg Engineering, Inc.