

3R - 183

APPROVALS

YEAR(S):

2001-1997



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.
- | | |
|-------------------------------------|------------------------------|
| 1. McCoy GC C #1 (Blow pit) | Unit A, Sec. 28, T30N, R12W. |
| 2. Prespent 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

July 8, 1998

CERTIFIED MAIL
RETURN RECEIPT NO. Z-235-437-304

Ms. Sandra D. Miller
El Paso Field Services
614 Reilly Ave.
Farmington, New Mexico 87401

RE: SAN JUAN BASIN ANNUAL GROUNDWATER REPORT

Dear Ms. Miller:

The New Mexico Oil Conservation Division (OCD) has completed a review of El Paso Field Services (EPFS) February 27, 1998 "RE: 1997 GROUNDWATER ANNUAL REPORT" and accompanying March 1998 "SAN JUAN BASIN PIT CLOSURES, SAN JUAN BASIN, NEW MEXICO, EL FIELD SERVICES PIT PROJECT PIT CLOSURE REPORT" and March 1998 "SAN JUAN BASIN PIT CLOSURE, SAN JUAN BASIN, NEW MEXICO, EL PASO FIELD SERVICES PIT PROJECT GROUNDWATER REPORT ANNUAL REPORT". These documents contain the results of EPFS's 1997 monitoring and remediation of contaminated ground water related to the closure of unlined oil and gas production pits at 57 sites in the San Juan Basin. The documents also requests closure for 11 of the sites based on the remediation and monitoring actions taken to date.

The OCD's review of the above referenced documents is addressed below:

A. The final pit closure, soil remediation and ground water activities conducted at the 10 sites listed below are **approved** and the OCD considers these sites closed.

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|-----|-----------------------------------|-----------------------------|
| 1. | 2C-45 Line Drip (Drip pit) | Unit P, Sec. 06, T25N, R13W |
| 2. | Miles Federal #1A (MV) (Drip pit) | Unit F, Sec. 05, T26N, R07W |
| 3. | Graham #53 (Dehy pit) | Unit L, Sec. 10, T27N, R08W |
| 4. | K-17 Line Drip (Drip pit) | Unit C, Sec. 26, T27N, R08W |
| 5. | John Charles #8 (Dehy pit) | Unit B, Sec. 13, T27N, R09W |
| 6. | Florance C LS #7 (Drip pit) | Unit F, Sec. 30, T28N, R08W |
| 7. | Trunk D Line Drip (Drip pit) | Unit F, Sec. 20, T28N, R08W |
| 8. | Trujillo GC #1 PC (Drip pit) | Unit M, Sec. 21, T29N, R10W |
| 9. | Usselman Gas Com #1 (Drip pit) | Unit B, Sec. 04, T31N, R10W |
| 10. | Lat H-37 Drip Y-3 (Line drip pit) | Unit F, Sec. 01, T31N, R13W |

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Please be advised that OCD approval does not relieve EPFS of liability if remaining contaminants are found to pose a future threat to surface water, ground water, human health or the environment. In addition, OCD approval does not relieve EPFS of responsibility for compliance with any other federal, state or local laws and regulations.

- B. The closure report for the site listed below shows that ground waters in a piezometer downgradient from the source area at the pit are still contaminated in excess of New Mexico Water Quality Control Commission (WQCC) ground water standards. In addition a review of the data shows that the downgradient extent of contamination has not been completely defined. Therefore, the OCD cannot issue final closure approval at this time and approval of closure actions at this site is **denied**. The OCD requires that EPFS install additional ground water monitoring wells to monitor and determine the extent of ground water contamination pursuant to their previously approved ground water investigation plan.

1. Sheets #2 (Drip pit) Unit H, Sec. 28, T31N, R09W.

- C. A review of the annual ground water reports for the sites listed below shows that the extent of ground water contamination in excess of WQCC standards at these sites has not been defined or the sites do not contain permanent downgradient ground water monitoring points. The OCD requires that EPFS install additional ground water monitoring wells at these sites to monitor and determine the extent of ground water contamination pursuant to their previously approved ground water investigation plan.

1. Anderson GC A#1 CH	Unit C, Sec. 28, T29N, R10W
2. D Loop Line Drip	Unit I, Sec. 33, T28N, R08W
3. Hammond #41A	Unit O, Sec. 25, T27N, R08W
4. Horton #1E	Unit H, Sec. 28, T31N, R09W
5. James F Bell #1E	Unit P, Sec. 10, T30N, R13W
6. Jennapah #1	Unit H, Sec. 36, T28N, R09W
7. K-27 Line Drip	Unit E, Sec. 04, T25N, R06W
8. K-31 Line Drip	Unit N, Sec. 16, T25N, R06W
9. Lat 3B-39 Line Drip	Unit M, Sec. 10, T29N, R09W
10. Lat L-40 Line Drip	Unit H, Sec. 13, T28N, R04W
11. Lateral 0-21 Line Drip	Unit O, Sec. 12, T30N, R09W
12. Lindrith B#24	Unit N, Sec. 09, T24N, R03W
13. K-27 Line Drip	Unit E, Sec. 04, T25N, R06W
14. Mesa CPD	Unit C, Sec. 04, T29N, R14W
15. Miles Federal #1A (CH)	Unit F, Sec. 05, T26N, R07W
16. Ramenta Et Al #1	Unit J, Sec. 13, T27N, R09W
17. State Gas Com N#1	Unit H, Sec. 16, T31N, R12W

Ms. Sandra D. Miller

July 8, 1998

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D. At the sites listed below EPS proposes to take no further actions until the operator commences remediation associated with their production pits. The OCD is sending letters to the operators of these sites requiring them to investigate and remediate soil and ground water contamination related to their activities. The OCD requests that EPFS work cooperatively with the operator to investigate and remediate contaminated ground water at these sites.

1.	Canada Mesa #2	Unit I, Sec. 24, T24N, R06W
2.	Coldiron Com A #1	Unit K, Sec. 02, T30N, R11W
3.	Fields A #7A	Unit E, Sec. 34, T32N, R11W
4.	Fogelson 4-1 Com #14	Unit P, Sec. 04, T29N, R11W
5.	Gallegos Canyon Unit Com A #142E	Unit G, Sec. 25, T29N, R12W
6.	Johnston Federal #4	Unit H, Sec. 33, T31N, R09W
7.	Johnston Federal #6A	Unit F, Sec. 35, T31N, R09W
8.	Knight #1	Unit A, Sec. 05, T30N, R13W
9.	Ohio C Govt #3	Unit P, Sec. 26, T28N, R11W
10.	Sandoval Gas Com A #1A	Unit C, Sec. 35, T30N, R09W
11.	Standard Oil Com #1	Unit N, Sec. 36, T29N, R09W
12.	Turner A #1	Unit K, Sec. 34, T31N, R11W

If you have any questions, please call 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
Mike Matush, New Mexico State Land Office



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 6, 1997

CERTIFIED MAIL
RETURN RECEIPT NO. P-410-431-203

Mr. Ricky D. Cosby
El Paso Field Services
P.O. Box 4990
Farmington, New Mexico 87499

RE: SAN JUAN BASIN GROUND WATER REPORTS

Dear Mr. Cosby:

The New Mexico Oil Conservation Division (OCD) has reviewed El Paso Field Service's (EPFS) June 2, 1997 "SEMI-ANNUAL EL PASO FIELD SERVICES PIT PROJECT GROUND WATER REPORT". This document contains EPFS's a listing of San Juan Basin pit closure sites at which EPFS has encountered ground water and a proposal to modify the reporting schedule for ground water cases from semi-annual to annual.

The above referenced proposal is approved with the following conditions:

1. EPFS will submit the annual reports on investigation/remedial activities to the OCD by December 1 of each respective year. The reports will present the information on each site as a separate case. Each case will contain:
 - a. A description of all investigation remediation activities which occurred during the past year including conclusions and recommendations.
 - b. Summary tables of all past and present laboratory analytic results of ground water quality monitoring including copies of the past years laboratory data sheets and associated quality assurance/quality control data.

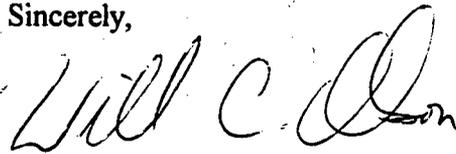
Mr. Ricky Cosby
August 6, 1997
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- c. A site map and a quarterly water table elevation map using the water table elevation of the ground water in all monitor wells.
- d. A geologic log and completion diagram for each monitor well.
- e. The disposition of all wastes generated.
- f. Isoconcentration maps for contaminants of concern at the site (ie. benzene, BTEX, chloride, TDS, etc.).

Please be advised that OCD approval does not relieve EPFS of liability if contamination exists which is beyond the scope of the work plan; if the activities fail to adequately determine the extent of contamination; or if the activities fail to adequately remediate or monitor contamination related to EPFS's activities. In addition, OCD approval does not relieve EPFS 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
Bill Liess, BLM Farmington District



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

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

January 24, 1997

CERTIFIED MAIL
RETURN RECEIPT NO. P-269-269-241

Ms. Sandra Miller
El Paso Field Services
P.O. Box 4990
Farmington, New Mexico 87499

RE: FINAL SAN JUAN BASIN PIT CLOSURE REPORTS

Dear Ms. Miler:

The New Mexico Oil Conservation Division (OCD) has completed a review of El Paso Field Services (EPFS) August 20, 1996 "PRODUCTION PIT CLOSURE SUBMITTAL" and July 1996 "SAN JUAN BASIN PIT CLOSURES, SAN JUAN BASIN, NEW MEXICO, PIT CLOSURE REPORT". These documents contain the results of pit closure activities at 39 sites which encountered shallow ground water.

The OCD's review of the above referenced documents is addressed below:

A. The pit closure/remediation activities conducted at the sites listed below are **approved**.

1. Apache Federal #4 (Drip pit)	Unit M, Sec. 07, T24N, R05W.
2. Argo #1E (Dehy pit)	Unit N, Sec. 18, T27N, R10W.
3. Burroughs Com #1 (Drip pit)	Unit H, Sec. 36, T27N, R08W.
4. Candelaria Gas Com C#1 (Drip pit)	Unit C, Sec. 27, T29N, R10W.
5. Canyon Largo Unit #298 (Drip pit)	Unit A, Sec. 03, T24N, R06W.
6. Canyon Largo Unit #302 (Drip pit)	Unit J, Sec. 03, T24N, R06W.
7. Canyon Largo Unit #336 (Drip pit)	Unit C, Sec. 24, T25N, R06W.
8. Charley Pah #4 (Drip pit)	Unit K, Sec. 12, T27N, R09W.
9. Cleveland No.6 (Drip pit)	Unit B, Sec. 21, T27N, R09W.
10. Cutler #2 (Drip pit)	Unit A, Sec. 14, T24N, R06W.
11. Federal 6 #32 CH (Drip pit)	Unit G, Sec. 06, T26N, R07W.
12. Federal R#2 (Drip pit)	Unit P, Sec. 15, T27N, R08W.
13. Flora Vista #1 (Dehy pit)	Unit F, Sec. 22, T30N, R12W.
14. Gartner LS #7 (Dehy pit)	Unit K, Sec. 26, T30N, R08W.
15. Grace Pearce #1 (Drip pit)	Unit O, Sec. 22, T29N, R11W.
16. Green Com #1 (Drip pit)	Unit E, Sec. 36, T29N, R09W.
17. Hammond Fed #1 (Drip pit)	Unit L, Sec. 25, T27N, R08W.
18. Hammond Fed #5 (Drip pit)	Unit D, Sec. 25, T27N, R08W.
19. Hammond #7 (Drip pit)	Unit G, Sec. 26, T27N, R08W.
20. Hammond #92 (Drip pit)	Unit O, Sec. 25, T27N, R08W.
21. Howell #3 (Drip pit)	Unit C, Sec. 03, T27N, R08W.
22. Krause WN Federal #1E (Drip pit)	Unit C, Sec. 32, T28N, R11W.
23. Lat 2C-55 Line Drip (Drip pit)	Unit F, Sec. 17, T25N, R07W.
24. Lindrith Unit #23 (Drip pit)	Unit O, Sec. 09, T24N, R03W.

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25. Marshall "B" #1J (Drip pit)	Unit O, Sec. 14, T27N, R09W.
26. Ona McGee #1 (Dehy pit)	Unit P, Sec. 04, T30N, R11W.
27. Price #3 (Dehy pit)	Unit A, Sec. 15, T28N, R08W.
28. Sanchez Gas Com C#1 (Drip pit)	Unit A, Sec. 28, T29N, R10W.
29. Valdez #2 (Drip pit)	Unit G, Sec. 24, T29N, R11W.

Please be advised that OCD approval does not relieve EPFS of liability if remaining contaminants are found to pose a future threat to surface water, ground water, human health or the environment. In addition, OCD approval does not relieve EPFS of responsibility for compliance with any other federal, state or local laws and/or regulations.

B. Ground waters at the sites listed below are contaminated with petroleum related constituents in excess of New Mexico Water Quality Control Commission ground water standards. At these sites, subsequent closure monitoring was not performed or the extent of ground water contamination at the sites was not been determined. Therefore, approval of these pit closure forms is denied. The OCD requests that, as necessary, EPFS investigate the extent of contamination, perform subsequent closure monitoring and/or remediate contaminated ground water pursuant to EPFS's November 29, 1995 ground water investigation/remediation work plan which was approved by the OCD on November 30, 1995.

1. 2C-22 #3 Line Drip (Drip pit)	Unit G, Sec. 13, T24N, R06W.
2. 2C-45 Line Drip (Drip pit)	Unit P, Sec. 13, T25N, R06W.
3. Canyon Largo Unit #304 (Drip pit)	Unit C, Sec. 11, T24N, R06W.
4. Gallegoc Canyon Unit #188E (Dehy)	Unit B, Sec. 30, T29N, R12W.
5. Graham #53 (Dehy pit)	Unit L, Sec. 10, T27N, R08W.
6. K-17 Line Drip (Drip pit)	Unit C, Sec. 26, T27N, R08W.
7. McGrath #1 (Drip pit)	Unit F, Sec. 07, T30N, R11W.
8. Miles Federal #1E (Dehy pit)	Unit N, Sec. 05, T26N, R07W.
9. Trunk D Line Drip (Loop D-8) (Drip)	Unit F, Sec. 20, T28N, R08W.
10. Trujillo Gas Com A#1 (Drip pit)	Unit C, Sec. 28, T29N, R10W.

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

Sincerely,


William C. Olson
Hydrogeologist
Environmental Bureau

xc: OCD Aztec District Office
Bill Liess, BLM Farmington District Office
David Deardorff, New Mexico State Land Office
Charmaine Tso, Navajo Nation EPA
Kurt Sandoval, Jicarilla Apache EPO