2R - 34

GENERAL CORRESPONDENCE

YEAR(S):

2003 - 1994

Transwestern Pipeline Company
1400 Smith Street
Houston, TX 77002
713-853-6161

2R34

May 1, 2003

Mr. William C. Olson
Environmental Bureau
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: Case #2R034
Groundwater Remediation
Atoka-1 Compressor Station
Transwestern Pipeline Company
Eddy County, New Mexico

Dear Bill,

Field activities for the final closure and abandonment of the remediation system at the Atoka-1 Station were completed on March 13, 2003. These activities included the plugging and abandonment of 14 shallow soil vapor extraction (SVE) wells and two off-site monitor wells. The six on-site monitor wells were left in-place as per a condition of the site closure approval letter issued by your office (copy attached). A record of the well abandonment activities was submitted to the NM State Engineer District No. 2 office. A copy of this submittal is enclosed for your files. Abandonment activities also included the removal of the SVE blower unit, SVE conveyance system piping and manifold, and all other associated surface equipment.

If you have any questions or comments regarding this transmittal, please contact me at (713) 646-7644 or George Robinson at (713) 345-1537.

Sincerely,

Bill Kendrick

Bill Kendrick
Director, Environmental Affairs

xc w/enclosure:

Bryan Arrant	NMOCD Artesia District Office
Larry Campbell	Transwestern Pipeline Company
George C. Robinson, PE	Cypress Engineering

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

February 21, 2003

Mr. Bill Kendrick
Transwestern Pipeline Company
1400 Smith St.
Houston, Texas 77002

RE: CASE #2R034
GROUND WATER REMEDIATION
ATOKA 1 COMPRESSOR STATION
EDDY COUNTY, NEW MEXICO

Dear Mr. Kendrick:

The New Mexico Oil Conservation Division has reviewed Transwestern Pipeline Company's (TPC) August 13, 2002 "TRANSMITTAL OF CLOSURE PETITION, ATOKA-1 COMPRESSOR STATION, TRANSWESTERN PIPELINE COMPANY, EDDY COUNTY, NEW MEXICO." This document requests closure of the soil and ground water remedial actions and permission to plug and abandon the monitor wells and vapor extraction wells at TPC's Atoka 1 Compressor Station located in the NE/4 NE/4 of Section 1, Township 18 South, Range 27 East. The request is based upon a demonstration that the ground water underlying the facility is not classified as protectable ground water.

The closure request as contained in the above-referenced document is approved with the following conditions:

1. TPC will not plug and abandon the monitor wells located within the boundaries of the compressor station facility.

2. TPC shall plug and abandon the offsite monitor wells and all vapor extraction wells by cutting the casing off below the ground surface and grouting the annular space from the bottom to the top with a cement grout containing 3-5% bentonite.

Please be advised that OCD approval does not relieve TPC of responsibility if remaining contamination poses a future threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve TPC 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) 476-3491.

Sincerely,

William C. Olson
Hydrologist
Environmental Bureau

cc: Chris Williams, OCD Hobbs District Supervisor
George Robinson, Cypress Engineering Services, Inc.

Cypress Engineering

10235 West Little York Road, Suite 256
Houston, Texas 77040
(713) 856-7980 office
(713) 856-7981 fax

2R234

April 10, 2003

Mr. Ken Fresquez
New Mexico State Engineer District No. 2
1900 West Second Street
Roswell, NM 88201

RE: Plugging Notification Form wr-20 (MW-6, MW-7 and SVE 1 through SVE 14)
Plug and Abandonment Drawing
Atoka – 1 Compressor Station

Dear Mr. Fresquez:

On Wednesday April 9, 2003 I spoke with you about the abandonment of ground water monitor wells and soil vapor extraction wells located at the Transwestern Pipeline Company, Atoka – 1 Compressor Station. Sixteen wells were plugged and abandoned at this site after receiving approval from the New Mexico Energy, Minerals and Natural Resources Department on February 21, 2003. Enclosed please find the completed plugging information requested on form wr-20 for the abandoned wells. I have also included a site map showing the prior location of these wells.

If you have any questions or need further information, please contact me at (713) 345-1529.

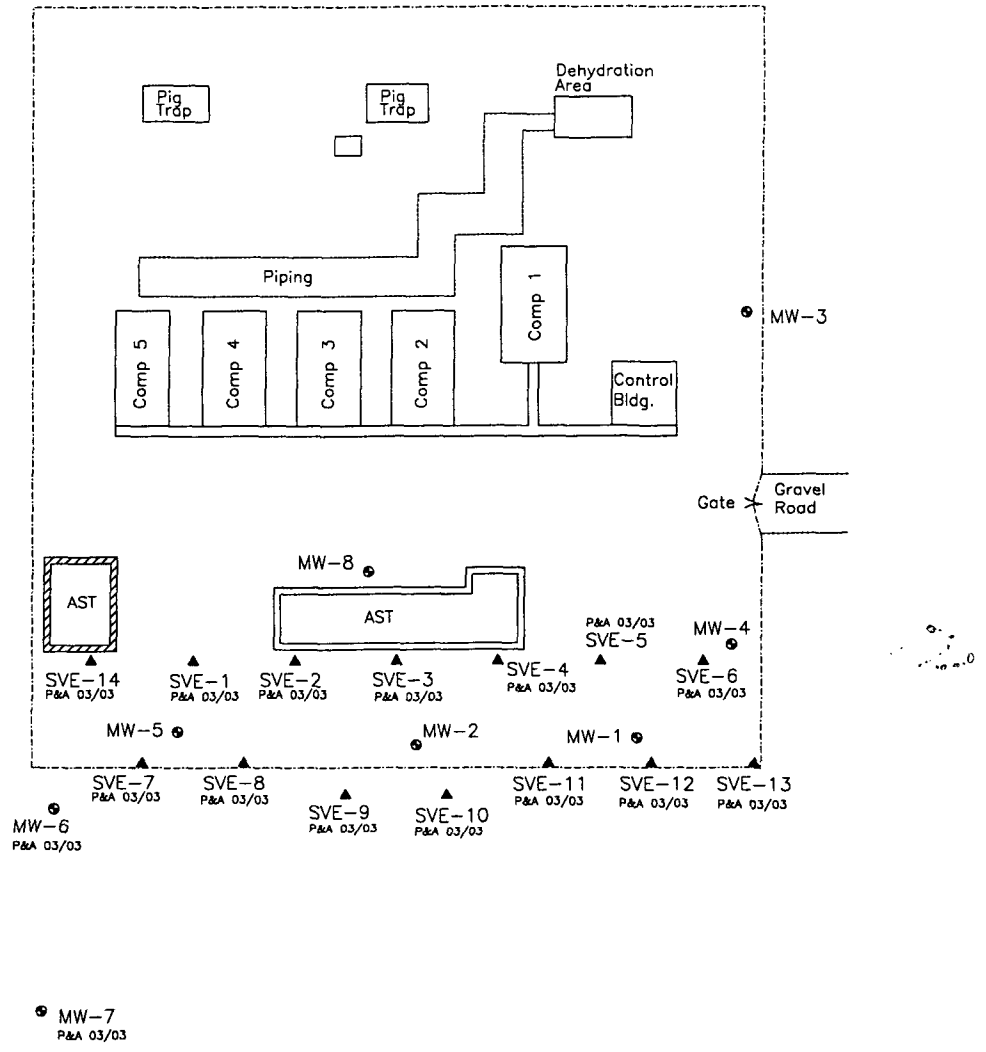
Sincerely,

Sandra Sharp
Sr. Environmental Manager

Enclosures

cc: Lawrence Campbell Transwestern Pipeline Company - Roswell, NM

F:\...\drawings\atoka\atksite.dwg (01/10/03)



PLUG AND ABANDONMENT
MARCH 12-13, 2003
ATOKA-1 COMPRESSOR STATION
TRANSWESTERN PIPELINE COMPANY

CYPRESS ENGINEERING SERVICES, INC.

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: TRANSWESTERN PIPELINE COMPANY Work Phone: (505) 625-8022
Contact: MR. LAWRENCE CAMPBELL Home Phone: _____
Address: 6381 NORTH MAIN ST
City: ROSWELL State: NM Zip: 88201

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. ____1/4 ____1/4 ____1/4 Section: 1 Township: 18S Range: 27E N.M.P.M.
in EDDY County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
_____ Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: _____d _____m _____s Longitude: _____d _____m _____s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD __ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): _____

3. DRILLING CONTRACTOR

License Number: _____
Name: W. COWSER Work Phone: 1-800-553-7455
Agent: GEOPROJECTS INTL. INC. Home Phone: _____
Mailing Address: 8834 CIRCLE DRIVE
City: AUSTIN State: TX Zip: 78736

4. DRILLING RECORD

Drilling began: 11/29/94 ; Completed: 11/30/94 ; Type tools: AIR ROTARY ;
Size of hole: 3.88 in.; Total depth of well: 46.5 ft.;
Completed well is: SHALLOW (shallow, artesian);
Depth to water upon completion of well: 36.00 ft.

File Number: _____ Trn Number: _____
Form: wr-20 page 1 of 4

MW-6

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	To	Thickness in feet	Description of water-bearing formation	Estimated Yield (GPM)

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet Top	Bottom	Length (feet)	Type of Shoe	Perforations From	To
2"	PVC		0	46.5	46.5	PVC	31	46

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	To	Hole Diameter	Sacks of mud	Cubic Feet of Cement	Method of Placement

8. PLUGGING RECORD

Plugging Contractor: ATKINS ENGINEERING ASSOCIATES, INC.
Address: 2904 WEST SECOND STREET, ROSWELL, NM 88202
Plugging Method: CEMENT SLURRY GROUT w/5% BENTONITE F/TD to SURFACE w/TREMIE PIPE
Date Well Plugged: MARCH 12-13, 2003

Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet Top	Bottom	Cubic Feetof Cement
1	0	46.5	4.1
2			
3			
4			
5			

MW-6

File Number: ______________

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

9. LOG OF HOLE

Depth in Feet From	To	Thickness in feet	Color and Type of Material Encountered

MW-6

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

10. ADDITIONAL STATEMENTS OR EXPLANATIONS:

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

_____ _____
Driller (mm/dd/year)

==========

FOR STATE ENGINEER USE ONLY

Quad _____; FWL _____; FSL _____; Use _____; Location No. _____

MW-6

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: TRANSWESTERN PIPELINE COMPANY Work Phone: (505) 625-8022
Contact: MR. LAWRENCE CAMPBELL Home Phone: _____
Address: 6381 NORTH MAIN ST
City: ROSWELL State: NM Zip: 88201

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. ____1/4 ____1/4 ____1/4 Section: 1 Township: 18S Range: 27E N.M.P.M.
in EDDY County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
_____ Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: _____d _____m _____s Longitude: _____d _____m _____s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD __ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): _____

3. DRILLING CONTRACTOR

License Number: _____
Name: W. COWSER Work Phone: 1800.553.7455
Agent: GEOPROJECTS INTL, INC Home Phone: _____
Mailing Address: 8834 CIRCLE DRIVE
City: AUSTIN State: TX Zip: 78736

4. DRILLING RECORD

Drilling began: 11/30/94 ; Completed: 11/30/94 ; Type tools: AIR ROTARY ;
Size of hole: 3.88 in.; Total depth of well: 46.0 ft.;
Completed well is: SHALLOW (shallow, artesian);
Depth to water upon completion of well: 45.58 ft.

MW-7

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	To	Thickness in feet	Description of water-bearing formation	Estimated Yield (GPM)

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet Top	Bottom	Length (feet)	Type of Shoe	Perforations From	To
2	PVC		0	46.0	46	PVC	31	46

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	To	Hole Diameter	Sacks of mud	Cubic Feet of Cement	Method of Placement

8. PLUGGING RECORD

Plugging Contractor: ATKINS ENGINEERING ASSOCIATES, INC.
Address: 2904 WEST SECOND STREET, ROSWELL, NM 88202
Plugging Method: CEMENT SLURRY GROUT W/5% BENTONITE F/TD TO SURFACE W/TREMIE PIPE
Date Well Plugged: MARCH 12-13, 2003

Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet Top	Bottom	Cubic Feetof Cement
1	0	46.0	4.0
2			
3			
4			
5			

MW-7

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

9. LOG OF HOLE

Depth in Feet From	To	Thickness in feet	Color and Type of Material Encountered

MW-7

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

10. ADDITIONAL STATEMENTS OR EXPLANATIONS:

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

_____ _____
Driller (mm/dd/year)

==========

FOR STATE ENGINEER USE ONLY

Quad ____; FWL ____; FSL ____; Use _____; Location No. _____

File Number: _____ Trn Number: _____
Form: wr-20

mw-7

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: TRANSWESTERN PIPELINE COMPANY Work Phone: (505) 625-8022
Contact: MR. LAWRENCE CAMPBELL Home Phone: _____
Address: 6381 NORTH MAIN ST
City: ROSWELL State: NM Zip: 88201

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. ____1/4 ____1/4 ____1/4 Section: 1 Township: 18S Range: 27E N.M.P.M.
in EDDY County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
_____ Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: _____d _____m _____s Longitude: _____d _____m _____s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD __ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): _____

3. DRILLING CONTRACTOR

License Number: _____
Name: _____ Work Phone: _____
Agent: EADES Home Phone: _____
Mailing Address: 1200 EAST BENDER
City: Hobbs State: NM Zip: 88240

4. DRILLING RECORD

Drilling began: 10/30/95 ; Completed: 10/30/95 ; Type tools: Air Rotary ;
Size of hole: 6.125 in.; Total depth of well: 36.5 ft.;
Completed well is: SHALLOW (shallow, artesian);
Depth to water upon completion of well: DRY ft.

File Number: _____ Trn Number: _____
Form: wr-20 page 1 of 4

SVE-1

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	To	Thickness in feet	Description of water-bearing formation	Estimated Yield (GPM)

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet Top	Bottom	Length (feet)	Type of Shoe	Perforations From	To
2	SCH 40 PVC		0	35	35	SCH 40 PVC	15	35

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	To	Hole Diameter	Sacks of mud	Cubic Feet of Cement	Method of Placement

8. PLUGGING RECORD

Plugging Contractor: ATKINS ENGINEERING ASSOCIATES, INC.
Address: 2904 WEST SECOND STREET, ROSWELL, NM 88202
Plugging Method: CEMENT SLURRY GROUT W/5% BENTONITE F/TD TO SURFACE W/TREMIE PIPE
Date Well Plugged: MARCH 12-13, 2003

Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet Top	Bottom	Cubic Feetof Cement
1	0	35	3.1
2			
3			
4			
5			

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

9. LOG OF HOLE

Depth in Feet From	To	Thickness in feet	Color and Type of Material Encountered

SVE-1

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

10. ADDITIONAL STATEMENTS OR EXPLANATIONS:

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

_____ _____
Driller (mm/dd/year)

==========

FOR STATE ENGINEER USE ONLY

Quad ____; FWL ____; FSL ____; Use _____; Location No. _____

SVE-1

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: TRANSWESTERN PIPELINE COMPANY Work Phone: (505) 625-8022
Contact: MR. LAWRENCE CAMPBELL Home Phone: _____
Address: 6381 NORTH MAIN ST
City: ROSWELL State: NM Zip: 88201

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. ____1/4 ____1/4 ____1/4 Section: 1 Township: 18S Range: 27E N.M.P.M.
in EDDY County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
_____ Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: ____d ____m ____s Longitude: ____d ____m ____s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD __ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): _____

3. DRILLING CONTRACTOR

License Number: _____
Name: _____ Work Phone: _____
Agent: EADES Home Phone: _____
Mailing Address: 1200 EAST BENDER
City: HOBBS State: NM Zip: 88240

4. DRILLING RECORD

Drilling began: 10/31/95 ; Completed: 10/31/95 ; Type tools: AIR ROTARY ;
Size of hole: 6.125 in.; Total depth of well: 43.0 ft.;
Completed well is: SHALLOW (shallow, artesian);
Depth to water upon completion of well: DRY ft.

SVE-2

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	To	Thickness in feet	Description of water-bearing formation	Estimated Yield (GPM)

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet Top	Bottom	Length (feet)	Type of Shoe	Perforations From	To
2	SCH 40 PVC		0	43	43	SCH 40 PVC	18	43

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	To	Hole Diameter	Sacks of mud	Cubic Feet of Cement	Method of Placement

8. PLUGGING RECORD

Plugging Contractor: ATKINS ENGINEERING ASSOCIATES, INC.
Address: 2904 WEST SECOND STREET, ROSWELL, NM 88202
Plugging Method: CEMENT SLURRY GROUT W/5% BENTONITE F/TD TO SURFACE W/TREMIE PIPE
Date Well Plugged: MARCH 12-13, 2003

Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet Top	Bottom	Cubic Feetof Cement
1	0	43	3.8
2			
3			
4			
5			

SVE-2

File Number: ______________

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

9. LOG OF HOLE

Depth in Feet From	To	Thickness in feet	Color and Type of Material Encountered

SVE-3

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

10. ADDITIONAL STATEMENTS OR EXPLANATIONS:

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

_____ _____
Driller (mm/dd/year)

==========

FOR STATE ENGINEER USE ONLY

Quad _____; FWL _____; FSL _____; Use _____; Location No. _____

SVE-2

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: TRANSWESTERN PIPELINE COMPANY Work Phone: (505) 625-8022
Contact: MR. LAWRENCE CAMPBELL Home Phone: _____
Address: 6381 NORTH MAIN ST
City: ROSWELL State: NM Zip: 88201

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. ____1/4 ____1/4 ____1/4 Section: 1 Township: 18S Range: 27E N.M.P.M.
in EDDY County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
_____ Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: _____d _____m _____s Longitude: _____d _____m _____s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD __ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): _____

3. DRILLING CONTRACTOR

License Number: _____
Name: _____ Work Phone: _____
Agent: EADES Home Phone: _____
Mailing Address: 1200 EAST BENDER
City: Hobbs State: NM Zip: 88240

4. DRILLING RECORD

Drilling began: 10/31/95 ; Completed: 10/31/95 ; Type tools: Air Rotary;
Size of hole: 6.125 in.; Total depth of well: 45.0 ft.;
Completed well is: SHALLOW (shallow, artesian);
Depth to water upon completion of well: DRY ft.

File Number: _____ Trn Number: _____
Form: wr-20 page 1 of 4

SVE-3

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	To	Thickness in feet	Description of water-bearing formation	Estimated Yield (GPM)

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet Top	Bottom	Length (feet)	Type of Shoe	Perforations From	To
2	sch 40 PVC		0	45.0	45	sch 40 PVC	25	45

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	To	Hole Diameter	Sacks of mud	Cubic Feet of Cement	Method of Placement

8. PLUGGING RECORD

Plugging Contractor: ATKINS ENGINEERING ASSOCIATES, INC.
Address: 2904 WEST SECOND STREET, ROSWELL, NM 88202
Plugging Method: CEMENT SLURRY GROUT W/5% BENTONITE F/TD TO SURFACE W/TREMIE PIPE
Date Well Plugged: MARCH 12-13, 2003

Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet Top	Bottom	Cubic Feetof Cement
1	0	45	3.9
2			
3			
4			
5			

SVE-3

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

9. LOG OF HOLE

Depth in Feet From	To	Thickness in feet	Color and Type of Material Encountered

SVE-3

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

10. ADDITIONAL STATEMENTS OR EXPLANATIONS:

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

_____ _____
Driller (mm/dd/year)

==========

FOR STATE ENGINEER USE ONLY

Quad ____; FWL ____; FSL ____; Use _____; Location No. _____

SVE-3

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: TRANSWESTERN PIPELINE COMPANY Work Phone: (505) 625-8022
Contact: MR. LAWRENCE CAMPBELL Home Phone: _____
Address: 6381 NORTH MAIN ST
City: ROSWELL State: NM Zip: 88201

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. ___1/4 ___1/4 ___1/4 Section: 1 Township: 18S Range: 27E N.M.P.M.
in EDDY County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
_____ Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: _____d _____m _____s Longitude: _____d _____m _____s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD __ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): _____

3. DRILLING CONTRACTOR

License Number: _____
Name: EADES Work Phone: _____
Agent: _____ Home Phone: _____
Mailing Address: 1200 EAST BENDER
City: HOBBS State: NM Zip: 88240

4. DRILLING RECORD

Drilling began: 10/31/95 ; Completed: 10/31/95 ; Type tools: AIR ROTARY
Size of hole: 6.125 in.; Total depth of well: 53.0 ft.;
Completed well is: SHALLOW (shallow, artesian);
Depth to water upon completion of well: 42.84 ft.

File Number: _____ Trn Number: _____
Form: wr-20 page 1 of 4

SVE-4

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	To	Thickness in feet	Description of water-bearing formation	Estimated Yield (GPM)

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet Top	Bottom	Length (feet)	Type of Shoe	Perforations From	To
2	Sch 40 PVC		0	53.0	53	Sch 40 PVC	28	53

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	To	Hole Diameter	Sacks of mud	Cubic Feet of Cement	Method of Placement

8. PLUGGING RECORD

Plugging Contractor: ATKINS ENGINEERING ASSOCIATES, INC.
Address: 2904 WEST SECOND STREET, ROSWELL, NM 88202
Plugging Method: CEMENT SLURRY GROUT W/5% BENTONITE F/TD TO SURFACE W/TREMIE PIPE
Date Well Plugged: MARCH 12-13, 2003

Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet Top	Bottom	Cubic Feetof Cement
1	0	53	4.6
2			
3			
4			
5			

SVE-4

File Number: ______________

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

9. LOG OF HOLE

Depth in Feet From	To	Thickness in feet	Color and Type of Material Encountered

SVE-4

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

10. ADDITIONAL STATEMENTS OR EXPLANATIONS:

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

_____ _____
Driller (mm/dd/year)

==========

FOR STATE ENGINEER USE ONLY

Quad _____; FWL _____; FSL _____; Use _____; Location No. _____

File Number: _____ Trn Number: _____
Form: wr-20

SVE-4

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: TRANSWESTERN PIPELINE COMPANY Work Phone: (505) 625-8022
Contact: MR. LAWRENCE CAMPBELL Home Phone: _____
Address: 6381 NORTH MAIN ST
City: ROSWELL State: NM Zip: 88201

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. ____1/4 ____1/4 ____1/4 Section: 1 Township: 18S Range: 27E N.M.P.M.
in EDDY County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
_____ Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: _____d _____m _____s Longitude: _____d _____m _____s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD __ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): _____

3. DRILLING CONTRACTOR

License Number: _____
Name: _____ Work Phone: _____
Agent: EADES Home Phone: _____
Mailing Address: 1200 EAST BENDER
City: Hobbs State: NM Zip: 88240

4. DRILLING RECORD

Drilling began: 11/01/95; Completed: 11/01/95; Type tools: Air Rotary;
Size of hole: 6.125 in.; Total depth of well: 46 ft.;
Completed well is: SHALLOW (shallow, artesian);
Depth to water upon completion of well: DRY ft.

SVE-5

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	To	Thickness in feet	Description of water-bearing formation	Estimated Yield (GPM)

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet Top	Bottom	Length (feet)	Type of Shoe	Perforations From	To
2	SCH 40 PVC		0	46	46	SCH 40 PVC	26	46

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	To	Hole Diameter	Sacks of mud	Cubic Feet of Cement	Method of Placement

8. PLUGGING RECORD

Plugging Contractor: ATKINS ENGINEERING ASSOCIATES, INC.
Address: 2904 WEST SECOND STREET, ROSWELL, NM 88202
Plugging Method: CEMENT SLURRY GROUT W/5% BENTONITE F/TD TO SURFACE W/TREMIE PIPE
Date Well Plugged: MARCH 12-13, 2003

Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet Top	Bottom	Cubic Feetof Cement
1	0	46	4.0
2			
3			
4			
5			

SVE-5

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

9. LOG OF HOLE

Depth in Feet From	To	Thickness in feet	Color and Type of Material Encountered

SVE-5

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

10. ADDITIONAL STATEMENTS OR EXPLANATIONS:

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

_____ _____
Driller (mm/dd/year)

==========

FOR STATE ENGINEER USE ONLY

Quad _____; FWL _____; FSL _____; Use _____; Location No. _____

SVE-5

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: TRANSWESTERN PIPELINE COMPANY Work Phone: (505) 625-8022
Contact: MR. LAWRENCE CAMPBELL Home Phone: _____
Address: 6381 NORTH MAIN ST
City: ROSWELL State: NM Zip: 88201

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. ___1/4 ___1/4 ___1/4 Section: 1 Township: 18S Range: 27E N.M.P.M.
in EDDY County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
_____ Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: _____d _____m _____s Longitude: _____d _____m _____s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD __ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): _____

3. DRILLING CONTRACTOR

License Number: _____
Name: _____ Work Phone: _____
Agent: EADES Home Phone: _____
Mailing Address: 1200 EAST BENDER
City: Hobbs State: NM Zip: 88240

4. DRILLING RECORD

Drilling began: 11/1/95 ; Completed: 11/1/95 ; Type tools: Air Rotary ;
Size of hole: 6.125 in.; Total depth of well: 43 ft.;
Completed well is: SHALLOW (shallow, artesian);
Depth to water upon completion of well: DRY ft.

SVE-6

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	To	Thickness in feet	Description of water-bearing formation	Estimated Yield (GPM)

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet Top	Bottom	Length (feet)	Type of Shoe	Perforations From	To
2	sch 40 PVC		0	43	43	sch 40 PVC	23	43

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	To	Hole Diameter	Sacks of mud	Cubic Feet of Cement	Method of Placement

8. PLUGGING RECORD

Plugging Contractor: ATKINS ENGINEERING ASSOCIATES, INC.
Address: 2904 WEST SECOND STREET, ROSWELL, NM 88202
Plugging Method: CEMENT SLURRY GROUT w/5% BENTONITE F/TD to SURFACE w/TREMIE PIPE
Date Well Plugged: MARCH 12-13, 2003

Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet Top	Bottom	Cubic Feetof Cement
1	0	43	3.8
2			
3			
4			
5			

SVE-6

File Number: ______________

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

9. LOG OF HOLE

Depth in Feet From	To	Thickness in feet	Color and Type of Material Encountered

File Number: ______________ Trn Number: ______________

Form: wr-20

SVE-6

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

10. ADDITIONAL STATEMENTS OR EXPLANATIONS:

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

_____ _____
Driller (mm/dd/year)

==========

FOR STATE ENGINEER USE ONLY

Quad _____; FWL _____; FSL _____; Use _____; Location No. _____

SVE-6

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: TRANSWESTERN PIPELINE COMPANY Work Phone: (505) 625-8022
Contact: MR. LAWRENCE CAMPBELL Home Phone: _____
Address: 6381 NORTH MAIN ST
City: ROSWELL State: NM Zip: 88201

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. ___1/4 ___1/4 ___1/4 Section: 1 Township: 18S Range: 27E N.M.P.M.
in EDDY County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
_____ Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: _____d ____m _____s Longitude: _____d ____m _____s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD __ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): _____

3. DRILLING CONTRACTOR

License Number: _____
Name: _____ Work Phone: _____
Agent: EADES Home Phone: _____
Mailing Address: 1200 EAST BENDER
City: Hobbs State: NM Zip: 88240

4. DRILLING RECORD

Drilling began: 10/31/95 ; Completed: 10/31/95 ; Type tools: AIR ROTARY;
Size of hole: 6.125 in.; Total depth of well: 39.5 ft.;
Completed well is: SHALLOW (shallow, artesian);
Depth to water upon completion of well: 35.00 ft.

File Number: _____ Trn Number: _____
Form: wr-20 page 1 of 4

SVE-7

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	To	Thickness in feet	Description of water-bearing formation	Estimated Yield (GPM)

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet Top	Bottom	Length (feet)	Type of Shoe	Perforations From	To
2	sch 40 PVC		0	39.5	39.5	sch 40 PVC	19.5	39.5

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	To	Hole Diameter	Sacks of mud	Cubic Feet of Cement	Method of Placement

8. PLUGGING RECORD

Plugging Contractor: ATKINS ENGINEERING ASSOCIATES, INC.
Address: 2904 WEST SECOND STREET, ROSWELL, NM 88202
Plugging Method: CEMENT SLURRY GROUT w/5% BENTONITE F/TD to SURFACE w/TREMIE PIPE
Date Well Plugged: MARCH 12-13, 2003

Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet Top	Bottom	Cubic Feetof Cement
1	0	39.5	3.4
2			
3			
4			
5			

SVE-7

File Number: ______________

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

9. LOG OF HOLE

Depth in Feet From	To	Thickness in feet	Color and Type of Material Encountered

SVE-7

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

10. ADDITIONAL STATEMENTS OR EXPLANATIONS:

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

_____ _____
Driller (mm/dd/year)

==========

FOR STATE ENGINEER USE ONLY

Quad ____; FWL ____; FSL ____; Use _____; Location No. _____

SVE-7

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: TRANSWESTERN PIPELINE COMPANY Work Phone: (505) 625-8022
Contact: MR. LAWRENCE CAMPBELL Home Phone: _____
Address: 6381 NORTH MAIN ST
City: ROSWELL State: NM Zip: 88201

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. ___1/4 ___1/4 ___1/4 Section: 1 Township: 18S Range: 27E N.M.P.M.
in EDDY County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
_____ Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: _____d _____m _____s Longitude: _____d _____m _____s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD __ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): _____

3. DRILLING CONTRACTOR

License Number: _____
Name: _____ Work Phone: _____
Agent: EADES Home Phone: _____
Mailing Address: 1200 EAST BENDER
City: Hobbs State: NM Zip: 88240

4. DRILLING RECORD

Drilling began: 10/31/95 ; Completed: 10/31/95 ; Type tools: Air Rotary ;
Size of hole: 6.125 in.; Total depth of well: 41 ft.;
Completed well is: SHALLOW (shallow, artesian);
Depth to water upon completion of well: 34.50 ft.

File Number: _____ Trn Number: _____
Form: wr-20 page 1 of 4

SVE-8

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	To	Thickness in feet	Description of water-bearing formation	Estimated Yield (GPM)

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet Top	Bottom	Length (feet)	Type of Shoe	Perforations From	To
2	sch 40 PVC		0	41	41	sch 40 PVC	21	41

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	To	Hole Diameter	Sacks of mud	Cubic Feet of Cement	Method of Placement

8. PLUGGING RECORD

Plugging Contractor: ATKINS ENGINEERING ASSOCIATES, INC.
Address: 2904 WEST SECOND STREET, ROSWELL, NM 88202
Plugging Method: CEMENT SLURRY GROUT W/5% BENTONITE F/TD TO SURFACE W/TREMIE PIPE
Date Well Plugged: MARCH 12-13, 2003

Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet Top	Bottom	Cubic Feetof Cement
1	0	41	3.6
2			
3			
4			
5			

SVE-8

File Number: ____________

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

9. LOG OF HOLE

Depth in Feet From	To	Thickness in feet	Color and Type of Material Encountered

SVE-8

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

10. ADDITIONAL STATEMENTS OR EXPLANATIONS:

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

_____ _____
Driller (mm/dd/year)

==========

FOR STATE ENGINEER USE ONLY

Quad ____; FWL ____; FSL ____; Use _____; Location No. _____

SVE-8

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: TRANSWESTERN PIPELINE COMPANY Work Phone: (505) 625-8022
Contact: MR. LAWRENCE CAMPBELL Home Phone: _____
Address: 6381 NORTH MAIN ST
City: ROSWELL State: NM Zip: 88201

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. ___1/4 ___1/4 ___1/4 Section: 1 Township: 18S Range: 27E N.M.P.M.
in EDDY County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
_____ Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: _____d _____m _____s Longitude: _____d _____m _____s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD __ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): _____

3. DRILLING CONTRACTOR

License Number: _____
Name: _____ Work Phone: _____
Agent: EADES Home Phone: _____
Mailing Address: 1200 EAST BENDER
City: HOBBS State: NM Zip: 88240

4. DRILLING RECORD

Drilling began: 10/31/95; Completed: 10/31/95; Type tools: Air Rotary;
Size of hole: 6.125 in.; Total depth of well: 45 ft.;
Completed well is: SHALLOW (shallow, artesian);
Depth to water upon completion of well: 35.44 ft.

SVE-9

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	To	Thickness in feet	Description of water-bearing formation	Estimated Yield (GPM)

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet Top	Bottom	Length (feet)	Type of Shoe	Perforations From	To
2	SCH 40 PVC		0	44	44	SCH 40 PVC	24	44

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	To	Hole Diameter	Sacks of mud	Cubic Feet of Cement	Method of Placement

8. PLUGGING RECORD

Plugging Contractor: ATKINS ENGINEERING ASSOCIATES, INC.
Address: 2904 WEST SECOND STREET, ROSWELL, NM 88202
Plugging Method: CEMENT SLURRY GROUT W/5% BENTONITE F/TD to SURFACE W/TREMIE PIPE
Date Well Plugged: MARCH 12-13, 2003

Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet Top	Bottom	Cubic Feetof Cement
1	0	44	3.8
2			
3			
4			
5			

SVE-9

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

9. LOG OF HOLE

Depth in Feet From	To	Thickness in feet	Color and Type of Material Encountered

SVE-9

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

10. ADDITIONAL STATEMENTS OR EXPLANATIONS:

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

_____ _____
Driller (mm/dd/year)

==========

FOR STATE ENGINEER USE ONLY

Quad _____; FWL _____; FSL _____; Use _____; Location No. _____

SVE-9

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: TRANSWESTERN PIPELINE COMPANY Work Phone: (505) 625-8022
Contact: MR. LAWRENCE CAMPBELL Home Phone: _____
Address: 6381 NORTH MAIN ST
City: ROSWELL State: NM Zip: 88201

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. ____1/4 ____1/4 ____1/4 Section: 1 Township: 18S Range: 27E N.M.P.M.
in EDDY County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
_____ Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: _____d _____m _____s Longitude: _____d _____m _____s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD __ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): _____

3. DRILLING CONTRACTOR

License Number: _____
Name: _____ Work Phone: _____
Agent: EADES Home Phone: _____
Mailing Address: 1200 EAST BENDER
City: HOBBS State: NM Zip: 88240

4. DRILLING RECORD

Drilling began: 10/31/95 ; Completed: 10/31/95 ; Type tools: AIR ROTARY ;
Size of hole: 6.125 in.; Total depth of well: 58 ft.;
Completed well is: SHALLOW (shallow, artesian);
Depth to water upon completion of well: DRY ft.

File Number: _____ Trn Number: _____
Form: wr-20 page 1 of 4

SVE-10

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	To	Thickness in feet	Description of water-bearing formation	Estimated Yield (GPM)

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet Top	Bottom	Length (feet)	Type of Shoe	Perforations From	To
2	sch 40 PVC		0	58	58	sch 40 PVC	28	58

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	To	Hole Diameter	Sacks of mud	Cubic Feet of Cement	Method of Placement

8. PLUGGING RECORD

Plugging Contractor: ATKINS ENGINEERING ASSOCIATES, INC.
Address: 2904 WEST SECOND STREET, ROSWELL, NM 88202
Plugging Method: CEMENT SLURRY GROUT w/5% BENTONITE F/TD to SURFACE w/TREMIE PIPE
Date Well Plugged: MARCH 12-13, 2003

Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet Top	Bottom	Cubic Feetof Cement
1	0	58	5.1
2			
3			
4			
5			

SVE-10

File Number: ______________

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

9. LOG OF HOLE

Depth in Feet From	To	Thickness in feet	Color and Type of Material Encountered

SVE-10

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

10. ADDITIONAL STATEMENTS OR EXPLANATIONS:

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

_____ _____
Driller (mm/dd/year)

==========

FOR STATE ENGINEER USE ONLY

Quad _____; FWL _____; FSL _____; Use _____; Location No. _____

SVE-10

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: TRANSWESTERN PIPELINE COMPANY Work Phone: (505) 625-8022
Contact: MR. LAWRENCE CAMPBELL Home Phone: _____
Address: 6381 NORTH MAIN ST
City: ROSWELL State: NM Zip: 88201

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. ____1/4 ____1/4 ____1/4 Section: 1 Township: 18S Range: 27E N.M.P.M.
in EDDY County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
_____ Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: _____d _____m _____s Longitude: _____d _____m _____s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD __ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): _____

3. DRILLING CONTRACTOR

License Number: _____
Name: _____ Work Phone: _____
Agent: EADES Home Phone: _____
Mailing Address: 1200 EAST BENDER
City: Hobbs State: NM Zip: 88240

4. DRILLING RECORD

Drilling began: 10/30/95 ; Completed: 10/30/95 ; Type tools: Air Rotary;
Size of hole: 6.125 in.; Total depth of well: 45 ft.;
Completed well is: SHALLOW (shallow, artesian);
Depth to water upon completion of well: DRY ft.

SVE-11

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	To	Thickness in feet	Description of water-bearing formation	Estimated Yield (GPM)

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet Top	Bottom	Length (feet)	Type of Shoe	Perforations From	To
2	SCH 40 PVC		0	44	44	SCH 40 PVC	24	44

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	To	Hole Diameter	Sacks of mud	Cubic Feet of Cement	Method of Placement

8. PLUGGING RECORD

Plugging Contractor: ATKINS ENGINEERING ASSOCIATES, INC.
Address: 2904 WEST SECOND STREET, ROSWELL, NM 88202
Plugging Method: CEMENT SLURRY GROUT W/5% BENTONITE F/TO to SURFACE W/TREMIE PIPE
Date Well Plugged: MARCH 12-13, 2003

Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet Top	Bottom	Cubic Feetof Cement
1	0	44	3.8
2			
3			
4			
5			

SVE-11

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

9. LOG OF HOLE

Depth in Feet From	To	Thickness in feet	Color and Type of Material Encountered

SVE-11

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

10. ADDITIONAL STATEMENTS OR EXPLANATIONS:

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

_____ _____
Driller (mm/dd/year)

==========

FOR STATE ENGINEER USE ONLY

Quad _____; FWL _____; FSL _____; Use _____; Location No. _____

SVE-11

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: TRANSWESTERN PIPELINE COMPANY Work Phone: (505) 625-8022
Contact: MR. LAWRENCE CAMPBELL Home Phone: _____
Address: 6381 NORTH MAIN ST
City: ROSWELL State: NM Zip: 88201

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. ___1/4 ___1/4 ___1/4 Section: 1 Township: 18S Range: 27E N.M.P.M.
in EDDY County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
_____ Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: ° ___d ___m ___s Longitude: ___d ___m ___s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD __ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): _____

3. DRILLING CONTRACTOR

License Number: _____
Name: _____ Work Phone: _____
Agent: EADES Home Phone: _____
Mailing Address: 1200 EAST BENDER
City: Hobbs State: NM Zip: 88240

4. DRILLING RECORD

Drilling began: 11/1/95 ; Completed: 11/1/95 ; Type tools: Air Rotary ;
Size of hole: 6.125 in.; Total depth of well: 45 ft.;
Completed well is: SHALLOW (shallow, artesian);
Depth to water upon completion of well: DRY ft.

File Number: _____ Trn Number: _____
Form: wr-20 page 1 of 4

SVE-12

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	To	Thickness in feet	Description of water-bearing formation	Estimated Yield (GPM)

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet Top	Bottom	Length (feet)	Type of Shoe	Perforations From	To
2	sch 40 pvc		0	45	45	sch 40 PVC	25	45

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	To	Hole Diameter	Sacks of mud	Cubic Feet of Cement	Method of Placement

8. PLUGGING RECORD

Plugging Contractor: ATKINS ENGINEERING ASSOCIATES, INC.
Address: 2904 WEST SECOND STREET, ROSWELL, NM 88202
Plugging Method: CEMENT SLURRY GROUT W/5% BENTONITE F/TD TO SURFACE W/TREMIE PIPE
Date Well Plugged: MARCH 12-13, 2003

Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet Top	Bottom	Cubic Feetof Cement
1	0	45	3.9
2			
3			
4			
5			

SVE-12

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

9. LOG OF HOLE

Depth in Feet From	To	Thickness in feet	Color and Type of Material Encountered

SVE-12

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

10. ADDITIONAL STATEMENTS OR EXPLANATIONS:

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

_____ _____
Driller (mm/dd/year)

==========

FOR STATE ENGINEER USE ONLY

Quad ____; FWL ____; FSL ____; Use _____; Location No. _____

SVE-12

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: TRANSWESTERN PIPELINE COMPANY Work Phone: (505) 625-8022
Contact: MR. LAWRENCE CAMPBELL Home Phone: _____
Address: 6381 NORTH MAIN ST
City: ROSWELL State: NM Zip: 88201

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. ____1/4 ____1/4 ____1/4 Section: 1 Township: 18S Range: 27E N.M.P.M.
in EDDY County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
_____ Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: _____d ____m _____s Longitude: _____d ____m _____s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD __ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): _____

3. DRILLING CONTRACTOR

License Number: _____
Name: _____ Work Phone: _____
Agent: EADES Home Phone: _____
Mailing Address: 1200 EAST BENDER
City: HOBBS State: NM Zip: 88240

4. DRILLING RECORD

Drilling began: 11/1/95 ; Completed: 11/1/95 ; Type tools: AIR ROTARY ;
Size of hole: 6.125 in.; Total depth of well: 58 ft.;
Completed well is: SHALLOW (shallow, artesian);
Depth to water upon completion of well: DRY ft.

File Number: _____ Trn Number: _____
Form: wr-20 page 1 of 4

SVE-13

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	To	Thickness in feet	Description of water-bearing formation	Estimated Yield (GPM)

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet Top	Bottom	Length (feet)	Type of Shoe	Perforations From	To
2	Sch 40 PVC		0	58	58	Sch 40 PVC	28	58

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	To	Hole Diameter	Sacks of mud	Cubic Feet of Cement	Method of Placement

8. PLUGGING RECORD

Plugging Contractor: ATKINS ENGINEERING ASSOCIATES, INC.
Address: 2904 WEST SECOND STREET, ROSWELL, NM 88202
Plugging Method: CEMENT SLURRY GROUT W/5% BENTONITE F/TD TO SURFACE W/TREMIE PIPE
Date Well Plugged: MARCH 12-13, 2003

Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet Top	Bottom	Cubic Feetof Cement
1	0	58	5.1
2			
3			
4			
5			

SVE-13

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

9. LOG OF HOLE

Depth in Feet From	To	Thickness in feet	Color and Type of Material Encountered

SVE-13

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

10. ADDITIONAL STATEMENTS OR EXPLANATIONS:

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

_____ _____
Driller (mm/dd/year)

==========

FOR STATE ENGINEER USE ONLY

Quad _____; FWL _____; FSL _____; Use _____; Location No. _____

SVE-13

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: TRANSWESTERN PIPELINE COMPANY Work Phone: (505) 625-8022
Contact: MR. LAWRENCE CAMPBELL Home Phone: _____
Address: 6381 NORTH MAIN ST
City: ROSWELL State: NM Zip: 88201

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. ____1/4 ____1/4 ____1/4 Section: 1 Township: 18S Range: 27E N.M.P.M.
in EDDY County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
_____ Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: _____d _____m _____s Longitude: _____d _____m _____s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD __ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): _____

3. DRILLING CONTRACTOR

License Number: _____
Name: _____ Work Phone: _____
Agent: EADES Home Phone: _____
Mailing Address: 1200 EAST BENDER
City: Hobbs State: NM Zip: 88240

4. DRILLING RECORD

Drilling began: 11/2/95 ; Completed: 11/2/95 ; Type tools: Air Rotary;
Size of hole: 6.125 in.; Total depth of well: 40 ft.;
Completed well is: SHALLOW (shallow, artesian);
Depth to water upon completion of well: DRY ft.

File Number: _____ Trn Number: _____
Form: wr-20 page 1 of 4

SVE-14

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	To	Thickness in feet	Description of water-bearing formation	Estimated Yield (GPM)

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet Top	Bottom	Length (feet)	Type of Shoe	Perforations From	To
2	SCH 40 PVC		0	40	40	SCH 40 PVC	15	40

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	To	Hole Diameter	Sacks of mud	Cubic Feet of Cement	Method of Placement

8. PLUGGING RECORD

Plugging Contractor: ATKINS ENGINEERING ASSOCIATES, INC.
Address: 2904 WEST SECOND STREET, ROSWELL, NM 88202
Plugging Method: CEMENT SLURRY GROUT W/5% BENTONITE F/TD TO SURFACE W/TREMIE PIPE
Date Well Plugged: MARCH 12-13, 2003

Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet Top	Bottom	Cubic Feetof Cement
1	0	40	3.5
2			
3			
4			
5			

SVE-14

File Number: ______________

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

9. LOG OF HOLE

Depth in Feet From	To	Thickness in feet	Color and Type of Material Encountered

SVE-14

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

10. ADDITIONAL STATEMENTS OR EXPLANATIONS:

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

_____ _____
Driller (mm/dd/year)

==========

FOR STATE ENGINEER USE ONLY

Quad ____; FWL ____; FSL ____; Use _____; Location No. _____

File Number: _____ Trn Number: _____
Form: wr-20

SVE-14

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

February 21, 2003

Mr. Bill Kendrick
Transwestern Pipeline Company
1400 Smith St.
Houston, Texas 77002

RE: CASE #2R034
GROUND WATER REMEDIATION
ATOKA 1 COMPRESSOR STATION
EDDY COUNTY, NEW MEXICO

Dear Mr. Kendrick:

The New Mexico Oil Conservation Division has reviewed Transwestern Pipeline Company's (TPC) August 13, 2002 "TRANSMITTAL OF CLOSURE PETITION, ATOKA-1 COMPRESSOR STATION, TRANSWESTERN PIPELINE COMPANY, EDDY COUNTY, NEW MEXICO." This document requests closure of the soil and ground water remedial actions and permission to plug and abandon the monitor wells and vapor extraction wells at TPC's Atoka 1 Compressor Station located in the NE/4 NE/4 of Section 1, Township 18 South, Range 27 East. The request is based upon a demonstration that the ground water underlying the facility is not classified as protectable ground water.

The closure request as contained in the above-referenced document is approved with the following conditions:

1. TPC will not plug and abandon the monitor wells located within the boundaries of the compressor station facility.

2. TPC shall plug and abandon the offsite monitor wells and all vapor extraction wells by cutting the casing off below the ground surface and grouting the annular space from the bottom to the top with a cement grout containing 3-5% bentonite.

Please be advised that OCD approval does not relieve TPC of responsibility if remaining contamination poses a future threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve TPC 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) 476-3491.

Sincerely,

William C. Olson
Hydrologist
Environmental Bureau

cc: Chris Williams, OCD Hobbs District Supervisor
George Robinson, Cypress Engineering Services, Inc.

Transwestern Pipeline Company
1400 Smith Street
Houston, TX 77002
713-853-6161

August 13, 2002

Mr. William C. Olson
Environmental Bureau
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: Transmittal of Closure Petition
Atoka-1 Compressor Station
Transwestern Pipeline Company
Eddy County, New Mexico

Dear Bill,

The enclosed petition for termination of remediation and monitoring activities at the subject facility is submitted for review and approval by the NMOCD. The petition was prepared at Transwestern's request by Tetra Tech EM Inc. of Albuquerque, New Mexico with direction from our internal consultant, George Robinson with Cypress Engineering. The objective of this document is to support a site closure request by demonstrating that the shallow water-bearing zones beneath the site should be classified as a non-protectable resource based on lack of potential beneficial uses for the groundwater.

If you have any questions or comments regarding this petition, please contact me at (713) 646-7644 or George Robinson at (713) 345-1537.

Sincerely,

Bill Kendrick
Director, Environmental Affairs

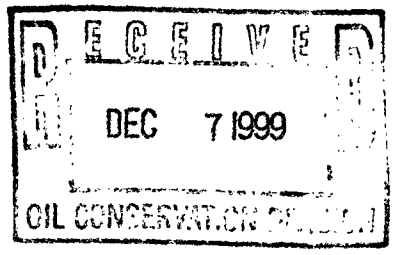
xc w/enclosure:

Bryan Arrant	NMOCD Artesia District Office
Larry Campbell	Transwestern Pipeline Company
Louis Soldano	Transwestern Pipeline Company
George C. Robinson, PE	Cypress Engineering

Cypress Engineering

10[redacted] West Little York Road, Suite 256
Houston, Texas 77040
(713) 856-7980 office
(713) 856-7981 fax

December 6, 1999



Mr. William C. Olson
Environmental Bureau
New Mexico Oil Conservation Division
2040 S. Pacheco St.
Santa Fe, New Mexico 87505

RE: Report of Ground Water Remediation Activities
Transwestern Pipeline Company - Atoka-1 Compressor Station
Eddy County, New Mexico

Dear Bill,

The attached report is submitted pursuant to the NMOCD's requirements for reporting of ground water remediation activities at the subject facility.

If you have any questions or comments regarding this report, please contact me at (713) 646-7327 or Larry Campbell at (505) 625-8022 .

Sincerely,

George C. Robinson, PE
President/Principal Engineer

xc w/attachment: Larry Campbell — Transwestern Pipeline Company
Bryan Arrant — NMOCD Artesia District Office

Transwestern Pipeline Company
P. O. Box 1188
Houston, TX 77251-1188

August 10, 1998

RECEIVED
AUG 20 1998
ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Mr. William C. Olson
Environmental Bureau
New Mexico Oil Conservation Division
2040 S. Pacheco St.
Santa Fe, New Mexico 87505

RE: Report of Ground Water Remediation Activities
Transwestern Pipeline Company - Atoka-1 Compressor Station
Eddy County, New Mexico

Dear Bill,

The attached report is submitted pursuant to the NMOCD's requirements for reporting of ground water remediation activities at the subject facility.

If you have any questions or comments regarding this report, please contact me at (505) 625-8022 or George Robinson at (713) 646-7327.

Sincerely,

Larry Campbell

Larry Campbell
Division Environmental Specialist

LC/gcr

xc w/attachments: BRIAN ARRANT (~~Mark Ashley~~) NMOCD Artesia District Office
George Robinson Cypress Engineering Services

1/6/99 1535 hrs
Verbal approval to George Robinson
for purge water disposal.
Bill Olson

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 10, 1997

CERTIFIED MAIL
RETURN RECEIPT NO: P-269-269-297

Mr. Larry Campbell
Transwestern Pipeline Company
P.O. Box 1188
Houston, Texas 77251-1188

RE: TRANSWESTERN PIPELINE CO. ATOKA-1 COMPRESSOR STATION

Dear Mr. Campbell:

The New Mexico Oil Conservation Division (OCD) has completed a review of Transwestern Pipeline Company's (TPC) March 3, 1997 "SEMI-ANNUAL REPORT OF GROUND WATER REMEDIATION ACTIVITIES, TRANSWESTERN PIPELINE COMPANY ATOKA-1 COMPRESSOR STATION, EDDY COUNTY, NEW MEXICO". This document contains the results of TPC's remedial actions at the Atoka-1 Compressor Station during the second half of 1996. The document also contains TPC's proposal to modify the sampling schedule from quarterly to semi-annually; report on the remedial actions and monitoring on an annual basis and; dispose on the ground surface contaminated monitor well purge water which is less than New Mexico Water Quality Control Commission standards.

The proposed disposal, sampling and reporting modifications, as contained in the above referenced documents, are approved.

Please be advised that OCD approval does not relieve TPC of liability should contamination exist which is outside the scope of work plan, or if the proposed work plan fails to the adequately remediate and monitor contamination at the site. In addition, OCD approval does not relieve TPC of responsibility for compliance with any other federal, state or local laws and/or regulations.

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

Sincerely,

William C. Olson
Hydrogeologist
Environmental Bureau

xc: OCD Artesia District Office
George Robinson, Cypress Engineering Services, Inc.

P 269 269 297

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail *(See reverse)*

Sent to	
Street & Number	
Post Office, State, & ZIP Code	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	$
Postmark or Date	

PS Form **3800**, April 1995

ENRON
Transwestern Pipeline Company

P. O. Box 1188 Houston, Texas 77251-1188 (713) 853-6161

May 2, 1996

Mr. William C. Olson
Environmental Bureau
New Mexico Oil Conservation Division
2040 S. Pacheco St.
Santa Fe, New Mexico 87505

RE: Semi-Annual Report of Groundwater Remediation Activities
Transwestern Pipeline Company Atoka-1 Compressor Station
Eddy County, New Mexico

Dear Bill,

The attached report is submitted pursuant to the NMOCD's requirements for semi-annual reporting of groundwater remediation activities at the subject facility.

If you have any questions or comments regarding this report, please contact me at (505) 625-8022 or George Robinson at (713) 646-7327.

Sincerely,

Larry Campbell

Larry Campbell
Division Environmental Specialist

LC/sls

xc w/attachments:

Mark Ashley	NMOCD Artesia District Office
Gene Brazfield	TW Operations
George Robinson	Cypress Engineering Services

ENRON
OPERATIONS CORP.

P. O. Box 1188 Houston, Texas 77251-1188 (713) 853-6161

August 10, 1995

Mr. Bill Olson
Environmental Bureau
New Mexico Oil Conservation Division
2040 S. Pacheco St.
Santa Fe, New Mexico 87505

RE: TW Atoka-1 Station Remediation Plan; and
TW WT-1 Station Dehydration Unit Area Remediation Plan; and
TW Bell Lake Plant Assessment and Remediation Plan

Dear Bill,

Enclosed are copies of the three subject remediation plans. Also enclosed are copies of the following supporting documents for the Bell Lake plan:

1. Brown & Caldwell. 1994. *Subsurface Investigation, Transwestern Bell Lake Plant, Jal, New Mexico.* April 1994.
2. Brown & Caldwell. 1995. *Final Monitoring Well Installation and Intrinsic Bioremediation Evaluation Report, Transwestern Pipeline Company Bell Lake Plant, Lea County, New Mexico.* July 1995.

Transwestern will implement the proposed corrective action activities upon review and approval of your office.

If you have any questions regarding any of the plans, please contact me at (713) 646-7644 or George Robinson at (713) 646-7327.

Sincerely,

Bill Kendrick

Bill Kendrick
EOC Environmental Affairs
Manager, Projects Group

gcr/BK

ENRON
OPERATIONS CORP.

P. O. Box 1188 Houston, Texas 77251-1188 (713) 853-6161

July 25, 1995

Mr. Bill Olson
Environmental Bureau
New Mexico Oil Conservation Division
2040 S. Pacheco St.
Santa Fe, New Mexico 87505

RE: TW Atoka-1 Station Remediation Plan &
TW Bell Lake Plant Assessment and Remediation Plan

Dear Bill,

The purpose of this letter is to inform your office that the two subject plans will be submitted to your office for review by August 11, 1995.

Please contact me at (713) 646-7644 or George Robinson at (713) 646-7327 if this schedule presents a problem.

Sincerely,

Bill Kendrick
EOC Environmental Affairs
Manager, Projects Group

gcr/BK

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 26, 1995

CERTIFIED MAIL
RETURN RECEIPT NO: P-667-242-266

Mr. Bill Kendrick
ENRON Operations Corp.
P.O. Box 1188
Houston, Texas 77251-11881

RE: TRANSWESTERN PIPELINE CO. ATOKA 1 COMPRESSOR STATION

Dear Mr. Kendrick:

The New Mexico Oil Conservation Division (OCD) has completed a review of Transwestern Pipeline Company's (TPC) March 1995 "ADDITIONAL INVESTIGATION AND CLOSURE ACTIVITIES AT THE TRANSWESTERN PIPELINE COMPANY ATOKA 1 COMPRESSOR STATION, ARTESIA, NEW MEXICO" which was received by the OCD on March 31, 1995. This document contains the results of TPC's remedial and investigation actions at the Atoka 1 Compressor Station.

The OCD approves of the remedial and investigation actions conducted to date. However, the report does not include recommendations for contaminated ground water or for remaining contaminated soils at the facility. Therefore, the OCD requires that TPC submit, by July 31, 1995, a plan to address remaining soil and ground water contamination at the site.

Please submit all original documents to the OCD Santa Fe Office with copies provided to the OCD Artesia Office.

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

Sincerely,

William C. Olson
Hydrogeologist
Environmental Bureau

xc: Tim Gum, OCD Artesia District Supervisor
Ray Smith, OCD Artesia District
George Robinson, Cypress Engineering Services, Inc.

ENRON
OPERATIONS CORP.

P. O. Box 1188 Houston, Texas 77251-1188 (713) 853-6161

January 26, 1995

Mr. William C. Olson
Environmental Bureau
New Mexico Oil Conservation Division
2040 S. Pacheco St.
Santa Fe, New Mexico 87505

RE: Final Disposition of Waste Material
Transwestern Pipeline Company Atoka-1 Compressor Station
Eddy County, New Mexico

Dear Bill,

In the course of closure of an out-of-service surface impoundment at the subject facility, TPC removed an oily sludge material from the bottom of the impoundment and stockpiled the material on plastic at the site. TPC subsequently loaded the material into drums (a total of 20 drums, each with 55 gallon capacity) and collected a grab sample from 5 of the 20 drums. A single composite sample was made from the five grab samples and the composite sample was delivered to a laboratory for analysis. Because analytical results indicate elevated levels of benzene (benzene concentration in a TCLP extract is 0.7 mg/L), TPC proposes to dispose of the material, including the plastic liner used, at the Rollins hazardous waste incineration facility in Deer Park, Texas. A copy of the laboratory analysis report is enclosed.

TPC, as operator of the subject facility, will implement the proposed disposition of the waste material upon review and approval by your office. If you have any questions regarding this proposal, please contact me at (713) 646-7644 or George Robinson at (713) 646-7327.

Sincerely,

Bill Kendrick

Bill Kendrick
EOC Environmental Affairs
Manager, Projects Group

gcr/BK

2/9/95
Verbal Approval to
George Robinson
Wm Olson

ENRON
OPERATIONS CORP.

P. O. Box 1188 Houston, Texas 77251-1188 (713) 853-6161

January 24, 1995

Mr. William C. Olson
Environmental Bureau
New Mexico Oil Conservation Division
2040 S. Pacheco St.
Santa Fe, New Mexico 87505

RE: Soil and Ground Water Investigations
TPC Atoka 1 Compressor Station
Eddy County, New Mexico

Dear Bill,

Your office approved an investigation work plan for the subject facility in a letter dated September 28, 1994. Condition #5 of the approval requires that " TPC will submit to the OCD by January 27, 1995 a report containing the results of the investigation and closure activities." Both the investigation and closure activities outlined in the closure plan have been completed, however, TPC is still in the process of preparing the investigation report. Upon completion of the report and an internal review, TPC will deliver the report to the NMOCD. The report will be submitted no later than March 31, 1995.

If you have any questions regarding this change in schedule, please contact me at (713) 646-7644 or George Robinson at (713) 646-7327.

Sincerely,

Bill Kendrick
Manager, Projects Group

gcr/BK

ENRON
OPERATIONS CORP.

P. O. Box 1188 Houston, Texas 77251-1188 (713) 853-6161

Fax received on 12/21/94 WLO

December 21, 1994

Mr. William C. Olson
Environmental Bureau
New Mexico Oil Conservation Division
2040 S. Pacheco St.
Santa Fe, New Mexico 87505

RE: Disposal of Investigation Derived Wastes
Transwestern Pipeline Company Atoka-1 Compressor Station

Dear Bill,

Transwestern Pipeline Company (TPC) requests approval from your office for the disposal of purge water which was removed from five ground water monitor wells located at the subject facility. This facility is part of TPC's natural gas pipeline gathering system located approximately 12 miles east of Artesia, NM. TPC proposes to dispose of the purge water in the on-site oily waste water tank. Analytical results for each of the five monitor wells and two trip blanks are attached.

If you have any questions regarding this request, please contact George Robinson at (713) 646-7327.

Sincerely,

Bill Kendrick
Projects Group Manager
EOC Environmental Affairs

gcr/BK

12/21/94
Verbally Approved
to George Robinson
WLO

TERRA LABORATORIES, LTD.
2525 SOUTH SHORE BLVD, SUITE 100
LEAGUE CITY, TX 77573
713/334-5052 FAX 713/334-3116

PRELIMINARY REPORT

Report Date: DEC. 14 1994 Page # 1

Brown and Caldwell
1415 Louisiana, Suite 2500
Houston , TX 77002

Customer#: 309
Job Number:

Attn: Wright, Lynn

Date Collected:12/02/94

Sample Number: 94008429
Sample ID: MW-3

Time Collected:1100
Date Received: 12/06/94

Test Code	Analyte	Result	Units	Method	Analyst
BTEXW'D	BTEX Analysis Prep(Date/Time)	12/08 1801	init.	6-5030	PRS
BZ8020W	Benzene	.014	ppm	6-8020	PRS
TOL8020W	Toluene	< 0.002	ppm	6-8020	PRS
EBZ8020W	Ethylbenzene	< 0.002	ppm	6-8020	PRS
XYLSTLw	Total Xylenes	< 0.004	ppm	6-8020	PRS
BTEXTLw	Total BTEX	< 0.022	ppm	6-8020	PRS
aaaTFTw	aaa-TFT (surr)	111.	%	82-114	PRS
4BFBw	4-BFB (surr)	102.	%	85-115	PRS
HGT'W'D	Mercury Analysis (D/T)	12/13 1430	init.		RR
HgCVAAw	Mercury	< 0.0002	mg/L	6-7470	RR
DMiWW'D	Acid Digestion(Date/Time)	12/07 1400	init.	6-3015	RR
BNAXW'D	Base/neutral/acid Extraction(D/	12/06 1300	init.	6-3510	BKW
S8270'D	Semivolatile Organics (D/T)	12/09 1943	init.	6-8270	MSB
AcenpheW	Acenaphthene	< 0.010	mg/L	6-8270	MSB
AcenphyW	Acenaphthylene	< 0.010	mg/L	6-8270	MSB
AnthrcnW	Anthracene	< 0.010	mg/L	6-8270	MSB
BzaAnthW	Benzo(a)anthracene	< 0.010	mg/L	6-8270	MSB
BzaPyrnW	Benzo(a)pyrene	< 0.010	mg/L	6-8270	MSB
BzbFAntW	Benzo(b)fluoroanthene	< 0.010	mg/L	6-8270	MSB
BzghipeW	Benzo(g,h,i)perylene	< 0.010	mg/L	6-8270	MSB

Rev 12/14/94
Larry DeHaan

TERRA LABORATORIES, LTD.
2525 SOUTH SHORE BLVD, SUITE 100
LEAGUE CITY, TX 77573
713/334-5052 FAX 713/334-3116

PRELIMINARY REPORT

Report Date: DEC. 14 1994 Page # 2

Brown and Caldwell
1415 Louisiana, Suite 2500
Houston , TX 77002

Customer#: 309
Job Number:

Attn: Wright, Lynn

Date Collected:12/02/94

Sample Number: 94008429
Sample ID: MW-3

Time Collected:1100
Date Received: 12/06/94

Test Code	Analyte	Result	Units	Method	Analyst
BzkFAntW	Benzo(k)fluoroanthene	< 0.010	mg/L	6-8270	MSB
ChrysenW	Chrysene	< 0.010	mg/L	6-8270	MSB
dBzahAnW	Dibenz(a,h)anthracene	< 0.010	mg/L	6-8270	MSB
FAnthenW	Fluoranthene	< 0.010	mg/L	6-8270	MSB
FluorenW	Fluorene	< 0.010	mg/L	6-8270	MSB
IndnPyrW	Indeno(1,2,3-cd)pyrene	< 0.010	mg/L	6-8270	MSB
NaphthlW	Naphthalene	< 0.010	mg/L	6-8270	MSB
PhnAnthW	Phenanthrene	< 0.010	mg/L	6-8270	MSB
PyreneW	Pyrene	< 0.010	mg/L	6-8270	MSB
NitBzd5W	Nitrobenzene-d5 (surr)	87.	%	35-114	MSB
2FbiPhnW	2Fluorobiphenyl (surr)	82.	%	43-116	MSB
trPhd14W	Terphenyl-d14 (surr)	81.	%	33-141	MSB
CLAUTO'D	Chloride, Titrimetric (D/T)	12/13 0930	init.		CJT
ClAuto	Chloride, Titrimetric	470	mg/L	3-325.2	CJT

COMMENTS:
FOOTNOTES: MI - Surrogate recovery is not reportable due to matrix interferences
Dil.Fx.- Minimum dilution required to allow acceptable quantitation
init=date and time initiated B=found in blank J=>mdl< reporting limit

Preparation and Analysis Method References:

1. ASTM: American Society for Testing and Materials, 1984.
2. EPA-600/4-79-020, Methods for Chemical Analysis of Water and Wastes, 1978 (revised 1983).
3. EPA-600/4-82-057, Methods for Organic Chemical Analysis of Municipal & Industrial Wastewater, 1982.
4. HACH: Test Methods, accepted by EPA in November, 1983.
5. SM: Standard Methods for the Examination of Water and Wastewater, 18th edition.
6. SW: SW-846, Test Methods for Evaluation of Solid Waste, Third edition. Update I, July 1992.

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TERRA LABORATORIES, LTD.
2525 SOUTH SHORE BLVD, SUITE 100
LEAGUE CITY, TX 77573
713/334-5052 FAX 713/334-3116

PRELIMINARY REPORT

Report Date: DEC. 14 1994 Page # 1

Brown and Caldwell
1415 Louisiana, Suite 2500
Houston , TX 77002

Customer#: 309
Job Number:

Attn: Wright, Lynn

Date Collected:12/02/94

Sample Number: 94008430
Sample ID: MW-4

Time Collected:1145
Date Received: 12/06/94

Test Code	Analyte	Result	Units	Method	Analyst
BTEXW'D	BTEX Analysis Prep(Date/Time)	12/08 1821	init.	6-5030	PRS
BZ8020W	Benzene	.23	ppm	6-8020	PRS
TOL8020W	Toluene	.060	ppm	6-8020	PRS
EBZ8020W	Ethylbenzene	< 0.002	ppm	6-8020	PRS
XYLSTLw	Total Xylenes	.13	ppm	6-8020	PRS
BTEXTLw	Total BTEX	< 0.422	ppm	6-8020	PRS
aaaTFTw	aaa-TFT (surr)	MI	%	82-114	PRS
4BFBw	4-BFB (surr)	103.	%	85-115	PRS
BNAXW'D	Base/neutral/acid Extraction(D/	12/06 1300	init.	6-3510	BKW
S8270'D	Semivolatile Organics (D/T)	12/09 2035	init.	6-8270	MSB
AcenpheW	Acenaphthene	< 0.010	mg/L	6-8270	MSB
AcenphyW	Acenaphthylene	< 0.010	mg/L	6-8270	MSB
AnthrcnW	Anthracene	< 0.010	mg/L	6-8270	MSB
BzaAnthW	Benzo(a)anthracene	< 0.010	mg/L	6-8270	MSB
BzaPyrnW	Benzo(a)pyrene	< 0.010	mg/L	6-8270	MSB
BzbFAntW	Benzo(b)fluoroanthene	< 0.010	mg/L	6-8270	MSB
BzghipeW	Benzo(g,h,i)perylene	< 0.010	mg/L	6-8270	MSB
BzkFAntW	Benzo(k)fluoroanthene	< 0.010	mg/L	6-8270	MSB
ChrysenW	Chrysene	< 0.010	mg/L	6-8270	MSB
dBzahAnW	Dibenz(a,h)anthracene	< 0.010	mg/L	6-8270	MSB

12/14/94

TERRA LABORATORIES, LTD.
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LEAGUE CITY, TX 77573
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PRELIMINARY REPORT

Report Date: DEC. 14 1994 Page # 2

Brown and Caldwell
1415 Louisiana, Suite 2500
Houston , TX 77002

Customer#: 309
Job Number:

Attn: Wright, Lynn

Date Collected:12/02/94

Sample Number: 94008430
Sample ID: MW-4

Time Collected:1145
Date Received: 12/06/94

Test Code	Analyte	Result	Units	Method	Analyst
FAnthenW	Fluoranthene	< 0.010	mg/L	6-8270	MSB
FluorenW	Fluorene	< 0.010	mg/L	6-8270	MSB
IndnPyrW	Indeno(1,2,3-cd)pyrene	< 0.010	mg/L	6-8270	MSB
NaphthlW	Naphthalene	< 0.010	mg/L	6-8270	MSB
PhnAnthW	Phenanthrene	< 0.010	mg/L	6-8270	MSB
PyreneW	Pyrene	< 0.010	mg/L	6-8270	MSB
NitBzd5W	Nitrobenzene-d5 (surr)	71.	%	35-114	MSB
2FbiPhnW	2Fluorobiphenyl (surr)	83.	%	43-116	MSB
trPhd14W	Terphenyl-d14 (surr)	72.	%	33-141	MSB
EGT'W'D	Mercury Analysis (D/T)	12/13 1430	init.		RR
HgCVAAw	Mercury	< 0.0002	mg/L	6-7470	RR
DMiWW'D	Acid Digestion(Date/Time)	12/07 1400	init.	6-3015	RR
CLAUTO'D	Chloride, Titrimetric (D/T)	12/13 0930	init.		CJT
ClAuto	Chloride, Titrimetric	170	mg/L	3-325.2	CJT

COMMENTS:
FOOTNOTES: MI - Surrogate recovery is not reportable due to matrix interferences
Dil.Fx.- Minimum dilution required to allow acceptable quantitation
init=date and time initiated B=found in blank J=>mdl< reporting limit

Preparation and Analysis Method References:

1. ASTM: American Society for Testing and Materials, 1984.
2. EPA-600/4-79-020, Methods for Chemical Analysis of Water and Wastes, 1978 (revised 1983).
3. EPA-600/4-82-057, Methods for Organic Chemical Analysis of Municipal & Industrial Wastewater, 1982.
4. HACH: Test Methods, accepted by EPA in November, 1983.
5. SM: Standard Methods for the Examination of Water and Wastewater, 18th edition.
6. SW: SW-846, Test Methods for Evaluation of Solid Waste, Third edition. Update I, July 1992.

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LAB ANALYSIS REPORT

Report Date: DEC. 12 1994 Page # 1

Brown and Caldwell
1415 Louisiana, Suite 2500
Houston , TX 77002

Reviewed by:TMG
Customer#: 309
Job Number:

Attn: Wright, Lynn

Date Collected:12/02/94

Sample Number: 94008431
Project Name: ATOKA 1
Sample ID: TB-1

Time Collected:1700

Date Received: 12/06/94

Test Code	Analyte	Result	Units	Method	Analyst
BTEXW'D	BTEX Analysis Prep(Date/Time)	12/08 1840	init.	6-5030	PRS
BZ8020W	Benzene	< 0.002	ppm	6-8020	PRS
TOL8020W	Toluene	< 0.002	ppm	6-8020	PRS
EBZ8020W	Ethylbenzene	< 0.002	ppm	6-8020	PRS
XYLSTLw	Total Xylenes	< 0.004	ppm	6-8020	PRS
BTEXTLw	Total BTEX	< 0.010	ppm	6-8020	PRS
aaaTFTw	aaa-TFT (surr)	91.	%	82-114	PRS
4BFBw	4-BFB (surr)	89.	%	85-115	PRS

COMMENTS:

FOOTNOTES: MI - Surrogate recovery is not reportable due to matrix interferences
Dil.Fx.- Minimum dilution required to allow acceptable quantitation
ppm = mg/L(Liquid), mg/kg(Solid) ppb = ug/L(Liquid), ug/kg(Soil)
init = date & time initiated B=found in blank J=>mdl< reporting limit

Preparation and Analysis Method References:

1. ASTM: American Society for Testing and Materials, 1984.
2. EPA-600/4-79-020, Methods for Chemical Analysis of Water and Wastes, 1978 (revised 1983).
3. EPA-600/4-82-057, Methods for Organic Chemical Analysis of Municipal & Industrial Wastewater, 1982.
4. HACH: Test Methods, accepted by EPA in November, 1983.
5. SM: Standard Methods for the Examination of Water and Wastewater, 18th edition.
6. SW: SW-846, Test Methods for Evaluation of Solid Waste, Third edition. Update I, July 1992.

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PRELIMINARY REPORT

Report Date: DEC. 14 1994 Page # 1

Brown and Caldwell
1415 Louisiana, Suite 2500 Customer#: 309
Houston , TX 77002 Job Number:

Attn: Wright, Lynn Date Collected:12/02/94

Sample Number: 94008439 Time Collected:1300
Sample ID: MW-5 GRAB Date Received: 12/06/94

Test Code	Analyte	Result	Units	Method	Analyst
BTEXW'D	BTEX Analysis Prep(Date/Time)	12/09 1051	init.	6-5030	PRS
BZ8020W	Benzene	6.2	ppm	6-8020	PRS
TOL8020W	Toluene	13	ppm	6-8020	PRS
EBZ8020W	Ethylbenzene	1.1	ppm	6-8020	PRS
KYLSTLw	Total Xylenes	7.4	ppm	6-8020	PRS
BTEXTLw	Total BTEX	27.7	ppm	6-8020	PRS
aaaTFTw	aaa-TFT (surr)	105.	%	82-114	PRS
4BFBw	4-BFB (surr)	92.	%	85-115	PRS
BNAXW'D	Base/neutral/acid Extraction(D/	12/06 1300	init.	6-3510	BKW
S8270'D	Semivolatile Organics (D/T)	12/09 2127	init.	6-8270	MSB
AcenpheW	Acenaphthene	< 0.010	mg/L	6-8270	MSB
AcenphyW	Acenaphthylene	< 0.010	mg/L	6-8270	MSB
AnthrcnW	Anthracene	< 0.010	mg/L	6-8270	MSB
BzaAnthW	Benzo(a)anthracene	< 0.010	mg/L	6-8270	MSB
BzaPyrnW	Benzo(a)pyrene	< 0.010	mg/L	6-8270	MSB
BzbFAntW	Benzo(b)fluoroanthene	< 0.010	mg/L	6-8270	MSB
BzghipeW	Benzo(g,h,i)perylene	< 0.010	mg/L	6-8270	MSB
BzkFAntW	Benzo(k)fluoroanthene	< 0.010	mg/L	6-8270	MSB
ChrysenW	Chrysene	< 0.010	mg/L	6-8270	MSB
dBzahAnW	Dibenz(a,h)anthracene	< 0.010	mg/L	6-8270	MSB

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PRELIMINARY REPORT

Report Date: DEC. 14 1994 Page # 2

Brown and Caldwell
1415 Louisiana, Suite 2500
Houston , TX 77002

Customer#: 309
Job Number:

Attn: Wright, Lynn

Date Collected:12/02/94

Sample Number: 94008439
Sample ID: MW-5 GRAB

Time Collected:1300
Date Received: 12/06/94

Test Code	Analyte	Result	Units	Method	Analyst
FAnthenW	Fluoranthene	< 0.010	mg/L	6-8270	MSB
FluorenW	Fluorene	< 0.010	mg/L	6-8270	MSB
IndnPyrW	Indeno(1,2,3-cd)pyrene	< 0.010	mg/L	6-8270	MSB
NaphthlW	Naphthalene	< 0.010	mg/L	6-8270	MSB
PhnAnthW	Phenanthrene	< 0.010	mg/L	6-8270	MSB
PyreneW	Pyrene	< 0.010	mg/L	6-8270	MSB
NitBzd5W	Nitrobenzene-d5 (surr)	70.	%	35-114	MSB
2FbiPhnW	2Fluorobiphenyl (surr)	78.	%	43-116	MSB
trPhd14W	Terphenyl-d14 (surr)	69.	%	33-141	MSB
HGT'W'D	Mercury Analysis (D/T)	12/13 1430	init.		RR
HgCVAAw	Mercury	< 0.0002	mg/L	6-7470	RR
DMiWW'D	Acid Digestion(Date/Time)	12/07 1400	init.	6-3015	RR
CLAUTO'D	Chloride, Titrimetric (D/T)	12/13 0930	init.		CJT
ClAuto	Chloride, Titrimetric	530	mg/L	3-325.2	CJT

COMMENTS: BTEX Dil.Fx. X 50
FOOTNOTES: MI - Surrogate recovery is not reportable due to matrix interferences
Dil.Fx.- Minimum dilution required to allow acceptable quantitation
init=date and time initiated B=found in blank J=>mdl< reporting limit

Preparation and Analysis Method References:

1. ASTM: American Society for Testing and Materials, 1984.
2. EPA-600/4-79-020, Methods for Chemical Analysis of Water and Wastes, 1978 (revised 1983).
3. EPA-600/4-82-057, Methods for Organic Chemical Analysis of Municipal & Industrial Wastewater, 1982.
4. HACH: Test Methods, accepted by EPA in November, 1983.
5. SM: Standard Methods for the Examination of Water and Wastewater, 18th edition.
6. SW: SW-846, Test Methods for Evaluation of Solid Waste, Third edition. Update I, July 1992.

12/14/94
Larry D. Stallcup

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PRELIMINARY REPORT

Report Date: DEC. 14 1994 Page # 1

Brown and Caldwell
1415 Louisiana, Suite 2500
Houston , TX 77002

Customer#: 309
Job Number:

Attn: Wright, Lynn

Date Collected:12/02/94

Sample Number: 94008440
Sample ID: MW-6 GRAB

Time Collected:1345
Date Received: 12/06/94

Test Code	Analyte	Result	Units	Method	Analyst
BTEXW'D	BTEX Analysis Prep(Date/Time)	12/08 1544	init.	6-5030	PRS
BZ8020W	Benzene	.36	ppm	6-8020	PRS
TOL8020W	Toluene	< 0.01	ppm	6-8020	PRS
EBZ8020W	Ethylbenzene	.050	ppm	6-8020	PRS
XYLSTLw	Total Xylenes	< 0.02	ppm	6-8020	PRS
BTEXTLw	Total BTEX	< 0.44	ppm	6-8020	PRS
aaaTFTw	aaa-TFT (surr)	104.	%	82-114	PRS
4BFBw	4-BFB (surr)	93.	%	85-115	PRS
BNAXW'D	Base/neutral/acid Extraction(D/	12/06 1300	init.	6-3510	BKW
S8270'D	Semivolatile Organics (D/T)	12/09 2218	init.	6-8270	MSB
AcenpheW	Acenaphthene	< 0.010	mg/L	6-8270	MSB
AcenphyW	Acenaphthylene	< 0.010	mg/L	6-8270	MSB
AnthrcnW	Anthracene	< 0.010	mg/L	6-8270	MSB
BzaAnthW	Benzo(a)anthracene	< 0.010	mg/L	6-8270	MSB
BzaPyrnW	Benzo(a)pyrene	< 0.010	mg/L	6-8270	MSB
BzbFAntW	Benzo(b)fluoroanthene	< 0.010	mg/L	6-8270	MSB
BzghipeW	Benzo(g,h,i)perylene	< 0.010	mg/L	6-8270	MSB
BzkFAntW	Benzo(k)fluoroanthene	< 0.010	mg/L	6-8270	MSB
ChrysenW	Chrysene	< 0.010	mg/L	6-8270	MSB
dBzahAnW	Dibenz(a,h)anthracene	< 0.010	mg/L	6-8270	MSB

12/14/94

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LEAGUE CITY, TX 77573
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PRELIMINARY REPORT

Report Date: DEC. 14 1994 Page # 2

Brown and Caldwell
1415 Louisiana, Suite 2500
Houston , TX 77002

Customer#: 309
Job Number:

Attn: Wright, Lynn

Date Collected:12/02/94

Sample Number: 94008440
Sample ID: MW-6 GRAB

Time Collected:1345
Date Received: 12/06/94

Test Code	Analyte	Result	Units	Method	Analyst
FAnthenW	Fluoranthene	< 0.010	mg/L	6-8270	MSB
FluorenW	Fluorene	< 0.010	mg/L	6-8270	MSB
IndnPyrW	Indeno(1,2,3-cd)pyrene	< 0.010	mg/L	6-8270	MSB
NaphthlW	Naphthalene	< 0.010	mg/L	6-8270	MSB
PhnAnthW	Phenanthrene	< 0.010	mg/L	6-8270	MSB
PyreneW	Pyrene	< 0.010	mg/L	6-8270	MSB
NitBzd5W	Nitrobenzene-d5 (surr)	71.	%	35-114	MSB
2FbiPhnW	2Fluorobiphenyl (surr)	82.	%	43-116	MSB
trPhd14W	Terphenyl-d14 (surr)	70.	%	33-141	MSB
HGT'W'D	Mercury Analysis (D/T)	12/13 1430	init.		RR
HgCVAAw	Mercury	< 0.0002	mg/L	6-7470	RR
DMiWW'D	Acid Digestion(Date/Time)	12/07 1400	init.	6-3015	RR
CLAUTO'D	Chloride, Titrimetric (D/T)	12/13 0930	init.		CJT
ClAuto	Chloride, Titrimetric	420	mg/L	3-325.2	CJT

COMMENTS: BTEX Dil.Fx. X 5
FOOTNOTES: MI - Surrogate recovery is not reportable due to matrix interferences
Dil.Fx.- Minimum dilution required to allow acceptable quantitation
init=date and time initiated B=found in blank J=>mdl< reporting limit

Preparation and Analysis Method References:

1. ASTM: American Society for Testing and Materials, 1984.
2. EPA-600/4-79-020, Methods for Chemical Analysis of Water and Wastes, 1978 (revised 1983).
3. EPA-600/4-82-057, Methods for Organic Chemical Analysis of Municipal & Industrial Wastewater, 1982.
4. HACH: Test Methods, accepted by EPA in November, 1983.
5. SM: Standard Methods for the Examination of Water and Wastewater, 18th edition.
6. SW: SW-846, Test Methods for Evaluation of Solid Waste, Third edition. Update I, July 1992.

Rec'd 12/14/94
[illegible]

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PRELIMINARY REPORT

Report Date: DEC. 14 1994 Page # 1

Brown and Caldwell
1415 Louisiana, Suite 2500
Houston , TX 77002

Customer#: 309
Job Number:

Attn: Wright, Lynn

Date Collected: 12/02/94

Sample Number: 94008441
Sample ID: MW-7 GRAB

Time Collected: 1430
Date Received: 12/06/94

Test Code	Analyte	Result	Units	Method	Analyst
BTEXW'D	BTEX Analysis Prep(Date/Time)	12/08 1604	init.	6-5030	PRS
BZ8020W	Benzene	.62	ppm	6-8020	PRS
TOL8020W	Toluene	1.1	ppm	6-8020	PRS
EBZ8020W	Ethylbenzene	.17	ppm	6-8020	PRS
XYLSTLw	Total Xylenes	1.1	ppm	6-8020	PRS
BTEXTLw	Total BTEX	2.99	ppm	6-8020	PRS
aaaTFTw	aaa-TFT (surr)	106.	%	82-114	PRS
4BFBw	4-BFB (surr)	MI	%	85-115	PRS
BNAXW'D	Base/neutral/acid Extraction(D/	12/06 1300	init.	6-3510	BKW
S8270'D	Semivolatile Organics (D/T)	12/09 2310	init.	6-8270	MSB
AcenpheW	Acenaphthene	< 0.010	mg/L	6-8270	MSB
AcenphyW	Acenaphthylene	< 0.010	mg/L	6-8270	MSB
AnthrcnW	Anthracene	< 0.010	mg/L	6-8270	MSB
BzaAnthW	Benzo(a)anthracene	< 0.010	mg/L	6-8270	MSB
BzaPyrnW	Benzo(a)pyrene	< 0.010	mg/L	6-8270	MSB
BzbFAntW	Benzo(b)fluoroanthene	< 0.010	mg/L	6-8270	MSB
BzghipeW	Benzo(g,h,i)perylene	< 0.010	mg/L	6-8270	MSB
BzkFAntW	Benzo(k)fluoroanthene	< 0.010	mg/L	6-8270	MSB
ChrysenW	Chrysene	< 0.010	mg/L	6-8270	MSB
dBzahAnW	Dibenz(a,h)anthracene	< 0.010	mg/L	6-8270	MSB

Rw 12/14/94
[illegible]

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LEAGUE CITY, TX 77573
713/334-5052 FAX 713/334-3116

PRELIMINARY REPORT

Report Date: DEC. 14 1994 Page # 2

Brown and Caldwell
1415 Louisiana, Suite 2500
Houston , TX 77002

Customer#: 309
Job Number:

Attn: Wright, Lynn

Date Collected:12/02/94

Sample Number: 94008441
Sample ID: MW-7 GRAB

Time Collected:1430
Date Received: 12/06/94

Test Code	Analyte	Result	Units	Method	Analyst
FAnthenW	Fluoranthene	< 0.010	mg/L	6-8270	MSB
FluorenW	Fluorene	< 0.010	mg/L	6-8270	MSB
IndnPyrW	Indeno(1,2,3-cd)pyrene	< 0.010	mg/L	6-8270	MSB
NaphthlW	Naphthalene	< 0.010	mg/L	6-8270	MSB
PhnAnthW	Phenanthrene	< 0.010	mg/L	6-8270	MSB
PyreneW	Pyrene	< 0.010	mg/L	6-8270	MSB
NitBzd5W	Nitrobenzene-d5 (surr)	74.	%	35-114	MSB
2FbiPhnW	2Fluorobiphenyl (surr)	92.	%	43-116	MSB
trPhd14W	Terphenyl-d14 (surr)	58.	%	33-141	MSB
HGT'W'D	Mercury Analysis (D/T)	12/13 1430	init.		RR
HgCVAAw	Mercury	< 0.0002	mg/L	6-7470	RR
DMiWW'D	Acid Digestion(Date/Time)	12/07 1400	init.	6-3015	RR
CLAUTO'D	Chloride, Titrimetric (D/T)	12/13 0930	init.		CJT
ClAuto	Chloride, Titrimetric	350	mg/L	3-325.2	CJT

COMMENTS: BTEX Dil.Fx. X 5
FOOTNOTES: MI - Surrogate recovery is not reportable due to matrix interferences
Dil.Fx.- Minimum dilution required to allow acceptable quantitation
init=date and time initiated B=found in blank J=>mdl< reporting limit

Preparation and Analysis Method References:

1. ASTM: American Society for Testing and Materials, 1984.
2. EPA-600/4-79-020, Methods for Chemical Analysis of Water and Wastes, 1978 (revised 1983).
3. EPA-600/4-82-057, Methods for Organic Chemical Analysis of Municipal & Industrial Wastewater, 1982.
4. HACH: Test Methods, accepted by EPA in November, 1983.
5. SM: Standard Methods for the Examination of Water and Wastewater, 18th edition.
6. SW: SW-846, Test Methods for Evaluation of Solid Waste, Third edition. Update I, July 1992.

12/14/94

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713/334-5052 FAX 713/334-3116

LAB ANALYSIS REPORT

Report Date: DEC. 12 1994 Page # 1

Brown and Caldwell
1415 Louisiana, Suite 2500
Houston , TX 77002

Reviewed by:TMG
Customer#: 309
Job Number:

Attn: Wright, Lynn

Date Collected:12/02/94

Sample Number: 94008442
Project Name: ATOKA 1
Sample ID: TB-2 GRAB

Time Collected:1700
Date Received: 12/06/94

Test Code	Analyte	Result	Units	Method	Analyst
BTEXW'D	BTEX Analysis Prep(Date/Time)	12/08 1919	init.	6-5030	PRS
BZ8020W	Benzene	< 0.002	ppm	6-8020	PRS
TOL8020W	Toluene	< 0.002	ppm	6-8020	PRS
EBZ8020W	Ethylbenzene	< 0.002	ppm	6-8020	PRS
XYLSTLw	Total Xylenes	< 0.004	ppm	6-8020	PRS
BTEXTLw	Total BTEX	< 0.010	ppm	6-8020	PRS
aaaTFTw	aaa-TFT (surr)	85.	%	82-114	PRS
4BFBw	4-BFB (surr)	84.	%	85-115	PRS

COMMENTS:

FOOTNOTES: MI - Surrogate recovery is not reportable due to matrix interferences
Dil.Fx.- Minimum dilution required to allow acceptable quantitation
ppm = mg/L(Liquid), mg/kg(Solid) ppb = ug/L(Liquid), ug/kg(Soil)
init = date & time initiated B=found in blank J=>mdl< reporting limit

Preparation and Analysis Method References:

1. ASTM: American Society for Testing and Materials, 1984.
2. EPA-600/4-79-020, Methods for Chemical Analysis of Water and Wastes, 1978 (revised 1983).
3. EPA-600/4-82-057, Methods for Organic Chemical Analysis of Municipal & Industrial Wastewater, 1982.
4. HACH: Test Methods, accepted by EPA in November, 1983.
5. SM: Standard Methods for the Examination of Water and Wastewater, 18th edition.
6. SW: SW-846, Test Methods for Evaluation of Solid Waste, Third edition. Update I, July 1992.

Rev 12/14/94

TERRA LABORATORIES LTD.

2525 South Shore Blvd. League City, Texas 77573 (713) 334-5052 Fax: (713) 334-3116

CHAIN OF CUSTODY

REPORT TO		REMIT TO	
COMPANY	Brown & Caldwell	COMPANY	Same ↓
ADDRESS	1415 Louisiana, Ste. 2500	ADDRESS	
CITY	Houston; STATE TX; ZIP	CITY	STATE; ZIP
ATTN	Mr. Lynn Wright; PHONE 713/759-0999; FAX 713/759-0952	ATTN	PHONE; FAX
Client Comments:		Project Name: Atoka 1	P.O. #
		Turnaround Time: Standard	Release #

ANALYSES REQUESTED

DATE	24HR TIME	MATRIX	COMPOSITE	GRAB	SAMPLE DESCRIPTION	NUMBER OF CONTAINERS	BTEX GOLD	PAHs	Total RCRA Metals	Major Cats & Ans.	TERRA SAMPLE NO.
12/2/94	1100/1115	GW			MW-3	5	X	X	X	X	94-8429
12/2/94	1145/1200	GW			MW-4	5	X	X	X	X	8430
		~~GW~~			~~MW-5~~	~~5~~	~~X~~	~~X~~	~~X~~	~~X~~	
		~~GW~~			~~MW-6~~	~~5~~	~~X~~	~~X~~	~~X~~	~~X~~	
		~~GW~~			~~MW-7~~	~~5~~	~~X~~	~~X~~	~~X~~	~~X~~	
12/2/94	1700	Water			TB-1	2	X				8431

Collected by:	Date:	Time:	Received by Terra:	Date:	Time:	Remarks:
[signature]	12/5/94	1730	FED EX			12-6-94 6°C
Relinquished by:	Date:	Time:	Received by: [signature]	Date: 12-6-94	Time: 1016	
Relinquished by:	Date:	Time:	Received by:	Date:	Time:	

TERRA LABORATORIES LTD.

2525 South Shore Blvd. League City, Texas 77573 (713) 334-5052 Fax: (713) 334-3116

CHAIN OF CUSTODY

TRANSWESTERN

REPORT TO:			REMIT TO:		
COMPANY Brown & Caldwell			COMPANY SAME		
ADDRESS 1415 Louisiana, Ste. 2500			ADDRESS		
CITY Houston	STATE TX	ZIP 77002	CITY	STATE	ZIP
ATTN Mr. Lynn Wright	PHONE 713/759-0999	FAX 713/759-0952	ATTN	PHONE	FAX
Client Comments:			Project Name: ATOKA 1	P.O.#	
			Turnaround Time Standard	Release #	

ANALYSES REQUESTED

DATE	24HR TIME	MATRIX	COMPOSITE	GRAB	SAMPLE DESCRIPTION	NUMBER CONTAINERS	BTEX 8020	TPH 8100	Total RCRA Metals	Major Cats & Ans	TERRA SAMPLE NO.
12/5/94	1300/1315	GW		X	MW-5	5	X	X	X	X	941-8439
	1345/1400			X	MW-6	5	X	X	X	X	8440
	1430/1445			X	MW-7	5	X	X	X	X	8441
	1700	Water		X	TB-2	2	X				8442

Collected by:	Date:	Time:	Received by Terra:	Date:	Time:	Remarks
[signature]	12/5/94	1730	FED EX			WZ 0°C 12-6-94
Relinquished by:	Date:	Time:	Received by: [signature]	Date: 12-6-94	Time: 1020	
Relinquished by:	Date:	Time:	Received by:	Date:	Time:	

CES
Cypress Engineering Services, Inc.

16300 Katy Freeway, Suite 105
Houston, Texas 77094-1609
(713) 578-3115
fax (713) 578-3491

George C. Robinson, P.E.
Environmental Engineer
Cypress Engineering Services, Inc.

c/o: Environmental Affairs Dept.
ENRON Operations Corp.
Room 3AC-3142
P.O. Box 1188
Houston, TX 77251-1188

(713) 646-7327
fax (713) 646-7247

FAX Transmission

To: Bill Olson **Fax:** 505-827-7154

From: George C. Robinson **Date:** November 23, 1994

Comments: **Pages:** 11 (including this cover)

Bill, attached is the analytical information for the Atoka-1 soil. We plan to begin treatment on Tuesday next week. I have also mailed a copy of this information to you. Please let me know if there is a problem with what I have sent. Thanks, George

Please call if you do not receive this transmission in its entirety!

bc:	Mike Terraso	Enron Operations Corp.	Houston, TX
	L. Kunkel	Transwestern Pipeline Co.	Roswell, NM
	L. Campbell	Transwestern Pipeline Co.	Roswell, NM

ENRON
OPERATIONS CORP.

P. O. Box 1188 Houston, Texas 77251-1188 (713) 853-6161

November 23, 1994

Mr. William C. Olson
Environmental Bureau
New Mexico Oil Conservation Division
2040 S. Pacheco St.
Santa Fe, New Mexico 87505

RE: Treatment of Excavated Soil at the Transwestern Pipeline Company Atoka 1 Compressor Station

Dear Bill,

In a letter dated November 2, 1994, Transwestern Pipeline Company (TPC) requested approval from your office for the on-site treatment of excavated soil which contains petroleum hydrocarbon compounds. Your office responded with a letter of approval dated November 14, 1994. A condition of the approval was for TPC to demonstrate by appropriate analyses the hazardous characteristics of the soil. TPC has determined that the soil is non-hazardous. Attached are two summary tables taken from a report of the initial subsurface investigation of the subject facility. This report was prepared by Brown & Root Environmental and dated October 20, 1993. A copy of this report was delivered to your office by Larry Campbell in early 1994. Table 1 of the report is attached and indicates which analyses were completed on soil samples collected from the site. Soil samples AT1-2A, AT1-2B, and AT1-4A are most representative of the soil excavated. Analyses for TPH, volatile organics, and semi-volatile organics were completed for each of these samples. The results are presented in Table 2 which is also attached. The results indicate that soil in this area contains elevated concentrations of TPH and BTEX compounds, but does not contain any compounds at a concentration greater than the minimum theoretical concentration necessary for the soil to be hazardous by analysis of a TCLP extract (i.e. benzene greater than 10.0 mg/kg). The detections of non-BTEX compounds are presumably laboratory artifacts as indicated by their presence in samples that were not impacted by elevated TPH or BTEX compounds. To complete the hazardous characterization, TPC collected a sample from the excavated soil pile and delivered it to a lab for analysis for the eight RCRA regulated metals. A copy of the analytical results is attached. The results indicate that the soil does not contain any of the eight metal constituents at a concentration greater than the minimum theoretical concentration necessary for the soil to be hazardous by analysis of a TCLP extract (i.e. barium greater than 2,000 mg/kg). In light of this information, TPC plans to proceed with the approved treatment of stockpiled soil. TPC has scheduled soil treatment activities to begin on Tuesday, November 29, 1994.

If you have any questions regarding this information, please contact George Robinson at (713) 646-7327.

Sincerely,

Marc N. Phillips

for: Bill Kendrick
Projects Group Manager
EOC Environmental Affairs

gcr/BK

xc: Mark Ashley NMOCD Artesia District Office

TABLE 1

SUMMARY OF ANALYSES
Atoka 1 Compressor Station
Atoka, New Mexico

	Analyses Performed				
Sample ID	TPH	BTEX	Volatile Organics	Semi-volatile Organics	TDS
SOIL					
AT1-1A	X		X	X	
AT1-1B	X		X	X	
AT1-2A	X		X	X	
AT1-2B	X		X	X	
AT1-3A	X		X	X	
AT1-4A	X		X	X	
AT1-5A	X		X	X	
AT1-6A	X		X	X	
AT1-7A	X	X			
AT1-8A	X	X			
AT1-9A	X	X			
AT1-10A	X	X			
AT1-10B	X	X			
AT1-10C	X	X			
GROUNDWATER					
AT1-2W	X		X	X	X
MW-2	X	X			X
MW-3	X	X			X
MW-4	X	X			X

TABLE 2

ANALYTICAL RESULTS FOR SOIL SAMPLES
Atoka 1 Compressor Station
Atoka, New Mexico

PARAMETER	Units	Sample Depth	AT1-1A 16-17	AT1-2A 12-14	AT1-2B 32-33	AT1-3A 20-22	AT1-4A 18-20	AT1-6A 10.5-20.5	AT1-7A 47-48.5	AT1-10A 5-7	AT1-10B 13-15
Petroleum Hydrocarbons	mg/kg		40	70	4,400	<20	410	<20	150	<20	<20
VOLATILES											
2-Butanone	ug/kg		<10	<10	<2,400	<10	<2,400	14	NA	NA	NA
Acetone	ug/kg		<10	<10	<2,400	<10	<2,400	20	NA	NA	NA
Benzene	ug/kg		<5	<5	<1,200	<5	<1,200	<5	2,000	<5	<5
Ethylbenzene	ug/kg		<5	<5	970	<5	6,200	<5	1,700	<5	<5
Methylene chloride	ug/kg		<5	<5	<1,200	30	<1,200	<5	NA	NA	NA
Toluene	ug/kg		<5	<5	30,000	<5	1,900	<5	6,700	<5	<5
Xylene (total)	ug/kg		<5	<5	40,000	<5	40,000	<5	12,300	7	6
SEMI-VOLATILES											
bis(2-Ethylhexyl)phthalate	ug/kg		<330	<330	<330	<330	1,500	<330	NA	NA	NA

NOTE: *Only samples with concentrations of analytes reported as greater than detection limits are shown.*
Soil samples collected borings AT1-5, AT1-8, and AT1-9 contained no analytes whose concentration was greater than detection limits.

CES
Cypress Engineering Services, Inc.

16300 Katy Freeway, Suite 105
Houston, Texas 77094-1609
(713) 578-3115
fax (713) 578-3491

November 2, 1994

Mr. William C. Olson
Environmental Bureau
New Mexico Oil Conservation Division
2040 S. Pacheco St.
Santa Fe, New Mexico 87505

RE: Treatment of Excavated Soil at the Transwestern Pipeline Company Atoka 1 Compressor Station

Dear Bill,

The purpose of this letter is to request approval for the proposed treatment and final disposition of excavated soil. Approximately 570 cubic yards of soil were recently excavated in accordance with the recently approved work plan for the subject facility. Excavation activities were halted due to very limited space within the facility boundary. An additional 300 to 500 cubic yards remain to be excavated. Subsequent to the initial excavation work, we have obtained permit from the BLM for access to property adjacent to the facility. Therefore, we plan to resume excavation activities within the next couple of weeks and will temporarily stockpile additional excavated soil just outside the facility boundary.

The table below indicates preliminary laboratory results for samples collected from the excavated soil. Final results, including BTEX analysis, will be available within the next few days.

Soil Pile ID	Volume cubic yards	# of samples composited	TPH mg/kg
large pile north	210	8	1800
large pile south	230	8	4100
medium pile north	60	4	490
medium pile south	50	4	30000
small pile	20	2	5800
Totals & Average TPH	570	26	5200

These results indicate the TPH concentration of soil which was located immediately adjacent to and below the former waste impoundment. The soil remaining to be excavated could reasonably be expected to contain lower TPH concentrations.

Transwestern proposes to process the excavated soil through a Royer soil shredder. A brochure from the contractor which will be providing this service is attached. During the shredding process, a water based nutrient solution will be sprayed on the soil as the soil exits the shredding equipment. The nutrient solution will consist of a 50/50 mixture of the commonly available fertilizers indicated below (or a comparable brand):

Miracle-Gro; 36-6-6
Total Nitrogen 36%
1.2% Ammoniacal Nitrogen
1.9% Nitrate Nitrogen
32.9% Urea Nitrogen
Phosphoric Acid (P_2O_5)..... 6%
Soluble Potash (K_2O) 6%
Chelated Iron 0.325%

and, Miracle-Gro; 18-24-16
Total Nitrogen..... 18%
6.3% Ammoniacal Nitrogen
5.0% Nitrate Nitrogen
6.7% Urea Nitrogen
Phosphoric Acid (P_2O_5) 24%
Soluble Potash (K_2O)..... 16%
Chelated Iron 0.10%
Copper 0.05%
Manganese..... 0.05%
Zinc 0.05%

The processed soil will be placed directly back into the excavated area as it exits the soil shredder. Prior experience with this method of processing soil has indicated that, within a period of two to three months after processing, BTEX concentrations can be reduced to below detection levels and TPH concentrations can reasonably be expected to be reduced to approximately 50% of the original concentration. Transwestern has proposed this action because it is a cost effective method to reduce the potential for future leaching of hydrocarbon compounds to ground water to a level commensurate with the specific conditions and environmental setting of the Atoka-1 Station site. The specific conditions and setting include such factors as: 1) the lack of current ground water use in the area; 2) the limited amount of storm water infiltration in the area; 3) the relatively low initial TPH concentration; and 4) the effectiveness of the soil shredding process to reduce BTEX concentrations.

Transwestern would like to implement the proposed soil treatment within the next two to three weeks. If you have any questions regarding this proposal, please contact me at (713) 646-7327.

Sincerely,

George C. Robinson, P.E.
Environmental Engineer
Cypress Engineering Services, Inc.

c/o: Environmental Affairs Dept.
ENRON Operations Corp.
Room 3AC-3142
P.O. Box 1188
Houston, TX 77251-1188

bc:	Bill Kendrick	Enron Operations Corp.	Houston, TX
	L. Kunkel	Transwestern Pipeline Co.	Roswell, NM
	L. Campbell	Transwestern Pipeline Co.	Roswell, NM

FIERY FURNACE ENVIRONMENTAL
P. O. Box 4802 • Midland, Texas 79704
(915) 694-7793 • Fax (915) 694-7872

FIERY FURNACE ENVIRONMEN
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Sales Representative

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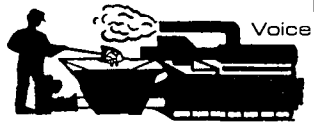

SOIL SHREDDING/MIXING TO REDUCE SOIL TPH CONTENT

Soil shredding and/or mixing can be used to lower the total petroleum hydrocarbon (TPH) content of soils which have been contaminated. The process utilizes equipment (Royer) which mechanically reduces the soil to small particles, thus allowing a much greater surface area of the soil to be exposed to the atmosphere.

This shredding and aeration has been used by Fiery Furnace Environmental on numerous occasions with TPH reductions of at least 60 per cent. A typical job involves shredding soil contaminated with crude oil from a tank battery spill. The TPH at the outset was in excess of 80,000 ppm. The completed job saw TPH levels reduced to less than 10,000 ppm.

Fiery Furnace Environmental also has available the equipment to add measured amounts of liquids to the soil as it exits the shredder/mixer. This feature allows the addition of nutrients or fertilizers and the capability of moisture content enhancement for dust control in dry soils.

Royer Shredder-Mixers: Machinery for an improved environment.

	300	365	401
Stationary stone grate	■	■	■
Shaker grate	□	■	■
Lumpbreakers	■	■	□
Trash-Away conveyor	■	■	■
Service platform w/rails	■	■	■
Hopper platform w/rails	■	■	■
Hydrostatic drive	■	■	■
Programmable controller	□	□	■
Electric brakes	■	■	□
Air brakes	□	□	■
Highway lights	■	■	■
Highway tires	■	■	■
Leveling jacks	■	■	■
Gas engine	□	□	□
Diesel engine	■	■	■

■ Standard ■ Optional □ Not Available

Operating and Construction Features:

A. Stone grate—heavy welded steel; keeps large rocks, trash out of hopper.

B. Shredding belt—faced with rows of steel cleats that shred, mix and aerate material.

C. Lump breakers—"swing-away" weights break up lumps, level depth of material moving to the shredding belt.

D. Conveyor—steel-flighted belt moves material from the receiving hopper to the shredding belt.

E. Trash-Away conveyor—receives non-shreddable material rejected by the shredding belt. Discharges 90° to processed material.

F. Variable sweep and deflector—manually operated sweep controls particle size, fine to coarse. Adjustable deflector regulates discharge angle of the processed material. Accessible from service platforms.

G. Service platform—heavy-gage steel. Serves as observation deck. (Hopper platform is also available.)

H. Clean-out gate—hinged, heavy-gage steel. Provides access to back of hopper for clean out.

Standard equipment and options are listed in the chart at left. Use the chart to help determine which Royer Shredder-Mixer is right for your operation. Every Royer Shredder-Mixer is designed and built to provide years of reliable service, and each is packed with quality features to make your job easier and more productive.

Whether you're in the business of producing topsoil or peat, operating your community's composting program, or engaged in recycling other friable, organic materials, you'll find that Royer Shredder-Mixers will do your job faster and better.

ROYER™
INDUSTRIES, INC.
P.O. Box 1232 • Kingston, PA 18704
Phone: 717-287-9624
FAX: 717-283-0578

To implement its policy of continuing product improvement, Royer reserves the right to alter designs and specifications without notice.

Printed in U.S.A. 5M-891

BROWN AND CALDWELL

October 7, 1994

Mr. William C. Olson
Environmental Bureau
New Mexico Oil Conservation Division
Post Office Box 2088
State Land Office Building
Santa Fe, New Mexico 87304

19-1618.02

Subject: Closure of Former Concrete Lined Surface Impoundment, Atoka 1 Compressor Station

Dear Mr. Olson:

On behalf of ENRON Operations Corp., Brown and Caldwell is submitting this letter as notification of closure activities at the Atoka 1 Compressor Station. The initial activities are scheduled to begin on October 12, 1994 and will involve the closure of the former concrete lined surface impoundment and excavation of impacted soil in the vicinity of boring AT1-4. The closure and excavation work is anticipated to take seven days and will be conducted in accordance with the Work Plan/Closure Plan for Atoka 1 Compressor Station dated August 29, 1994 and your approval letter dated September 28, 1994.

The subsurface investigation of soil and groundwater will be conducted following the completion of the closure and excavation activities.

If you have any questions or require additional information please contact me at (713) 759-0999.

Very truly yours,

BROWN AND CALDWELL

Lynn M Wright

Lynn M. Wright
Hydrogeologist

LMW:tjw

cc: Mr. Tim Gum, New Mexico OCD Artesia District Office
Mr. Bill Kendrick, ENRON Operations Corp.
Mr. George Robinson, ENRON Operations Corp.

1415 Louisiana, Suite 2500, Houston, TX 77002 (713) 759-0999 Fax (713) 759-0952

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

September 28, 1994

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

CERTIFIED MAIL
RETURN RECEIPT NO: P-667-242-167

Mr. Bill Kendrick
ENRON Operations Corp.
P.O. Box 1188
Houston, Texas 77251-11881

RE: INVESTIGATION AND SOIL REMEDIATION WORK PLAN
ATOKA 1 COMPRESSOR STATION

Dear Mr. Kendrick:

The New Mexico Oil Conservation Division (OCD) has completed a review of Transwestern Pipeline Company's (TPC) August 29, 1994 "SOIL AND GROUND WATER INVESTIGATIONS, ATOKA 1 COMPRESSOR STATION, EDDY COUNTY, NEW MEXICO" and August 29, 1994 "WORK PLAN/CLOSURE PLAN FOR ATOKA 1 COMPRESSOR STATION, EDDY COUNTY, NEW MEXICO" which were submitted on behalf of TPC by ENRON Operations Corp. This document contains TPC's proposed work plan for additional soil borings and installation of ground water monitoring wells to further define the extent of contamination related to TPC's activities at the Atoka 1 Compressor Station. The work plan also includes TPC's proposed methods for closure of the former concrete lined surface impoundment at the facility.

The work plan as contained in the above referenced document is approved with the following conditions:

1. The monitor wells will be constructed with a minimum of ten feet of well screen below the water table and five feet of well screen above the water table.

2. In addition to the ground water analyses proposed, TPC will analyze ground water for polynuclear aromatic hydrocarbons (PAH's), heavy metals and major cations and anions using appropriate EPA approved methods.

NOTE: Because there is no New Mexico Water Quality Control Commission ground water standard for total petroleum hydrocarbons (TPH), the OCD does not require that TPC analyze ground water for TPH.

3. Duplicate samples will be taken of 10 % of the soil samples analyzed for benzene, toluene, ethylbenzene and xylene (BTEX) and total petroleum hydrocarbons (TPH) using immunoassay methods. These duplicates will be analyzed for BTEX and TPH using standard EPA laboratory methods.

4. All wastes generated during the investigation and closure activities will be stored onsite until TPC submits to the OCD for approval the hazardous characteristics of the wastes and the proposed method of disposal/remediation.

5. TPC will submit to the OCD by January 27, 1995 a report containing the results of the investigation and closure activities.

6. TPC will notify the OCD at least one week in advance of scheduled activities such that the OCD has the opportunity to witness the events and/or split samples.

7. All original documents will be sent to the OCD Santa Fe Office with copies sent to the OCD Artesia Office.

Please be advised that OCD approval does not relieve TPC of liability should the investigation fail to adequately define the extent of contamination or fail to adequately remediate contaminants related to TPC's activities. In addition, OCD approval does not relieve TPC of responsibility for compliance with any other federal, state or local laws and/or regulations.

If you have any questions, please contact me at (505) 827-5885.

Sincerely,

William C. Olson
Hydrogeologist
Environmental Bureau

xc: OCD Artesia Office

Phone (505) 623-2761
FAX (505) 625-8060

Transwestern Pipeline Company
TECHNICAL OPERATIONS
P. O. Box 1717 • Roswell, New Mexico 88202-1717

September 12, 1994

Mr. Roger Anderson
Oil Conservation Division
State Land Office Building
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Dear Mr. Anderson:

Transwestern Pipeline company, owner and operator of the Atoka No. 1 Compressor Station, requests approval from the Oil Conservation Division (OCD) to dispose of oil and natural gas wastes (concrete materials) generated from the exploration and production area of Southeastern New Mexico. This request specifically addresses approval to bury on site approximately 10 to 15 cu. yds. of the concrete lined surface impoundment. The location of the proposed disposal site will be the into the excavation from remediation of the soils underlying this pit. Prior to placement of the concrete into the excavation area, the concrete will be steam cleaned to remove any hydrocarbon contamination which may be present. In addition, the liquids collected from the steaming operation, will be collected and placed into the facility's oily waste water tank for recycling.

Should you require any additional information concerning this project, contact our Roswell Technical Operations at (505) 625-8022.

Sincerely,

Larry Campbell

Larry Campbell
Division Environmental Specialist

xc: Greg McIlwain
Rich Jolly
Omer Parker
George Robinson 3AC 3142
file

Mr. Gary Bowers, Bureau of Land Management, Carlsbad, New Mexico

Phone (505) 623-2761
FAX (505) 625-8060

Transwestern Pipeline Company
TECHNICAL OPERATIONS
P. O. Box 1717 • Roswell, New Mexico 88202-1717

September 13, 1994

Mr. Gary Bowers
Reality Dept.
Bureau of Land Management
P.O. Box 1778
Carlsbad, New Mexico 88221-1778

Dear Mr. Bowers:

Transwestern Pipeline company, owner and operator of the Atoka No. 1 Compressor Station, in T.18S., R.27E., Sec.1, Lea County, requests approval from the Bureau of Land Management (BLM) to dispose of oil and natural gas wastes (concrete materials) generated from the exploration and production area of Southeastern New Mexico. This request specifically addresses approval to bury on site approximately 10 to 15 cu. yds. of the concrete which comprises the lined surface impoundment present at the facility. This impoundment collected condensate and used motor oils generated from the compression of natural gas at the facility. Transwestern will be performing remediation activities of this feature, and anticipates removal of surface and subsurface soil materials underlying the impoundment The location of the proposed disposal site for the concrete will be the into the excavation area.

Prior to placement of the concrete into the excavation area, the concrete will be steam cleaned to remove any hydrocarbon contamination which may be present. The liquids collected from the steaming operation, will be collected and placed into the facility's oily waste water tank for recycling.

Should you require any additional information concerning this project, contact our Roswell Technical Operations at (505) 625-8022.

Sincerely,

Larry Campbell

Larry Campbell
Division Environmental Specialist

xc: Greg McIlwain
Rich Jolly
Omer Parker
George Robinson 3AC 3142
file

Mr. Roger Anderson, Oil Conservation Division, Santa Fe, New Mexico

ENRON
OPERATIONS CORP.

P. O. Box 1188 Houston, Texas 77251-1188 (713) 853-6161

August 29, 1994

Mr. William C. Olson
Environmental Bureau
New Mexico Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

RE: Soil and Ground Water Investigations
Atoka 1 Compressor Station
Eddy County, New Mexico

Dear Bill,

Enclosed are two copies of a work plan for the subject facility. The work plan outlines Transwestern Pipeline Company's (TPC) intended activities associated with the removal of an out-of-service surface impoundment and the further delineation of petroleum hydrocarbons in subsurface soil and ground water in the vicinity of the former surface impoundment. TPC will implement the work plan within thirty days of approval of by the NMOCD and approval for off-site access by the BLM.

If you have any questions regarding this work plan, please contact me at (713) 646-7644 or George Robinson at (713) 646-7327.

Sincerely,

Bill Kendrick
Manager, Projects Group

gcr/BK

bc:	M. Terraso	ENRON Operations Corp.	Houston, TX
	L. Kunkel	Transwestern Pipeline Co.	Roswell, NM
	L. Campbell	Transwestern Pipeline Co.	Roswell, NM
	G. Robinson	Cypress Engineering Services	Houston, TX

ENRON
OPERATIONS CORP.

P. O. Box 1188 Houston, Texas 77251-1188 (713) 853-6161

July 25, 1994

Mr. William C. Olson
Environmental Bureau
New Mexico Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

RE: Soil and Ground Water Investigations
Atoka 1 Compressor Station
Eddy County, New Mexico

Dear Bill,

Larry Campbell of Transwestern Pipeline Company (TPC) recently sent me a copy of your letter sent to Larry's attention dated June 1, 1994 regarding the subject facility investigation. In your letter, TPC was requested to provide a work plan to complete the definition of the extent of soil and ground water contamination and a closure plan for the former surface impoundment by July 29,1994. As you and George Robinson discussed this morning, on behalf of TPC, ENRON Operations Corporation's Environmental Affairs Department will provide the requested items to the NMOCD by August 31, 1994.

If you have any questions regarding this request, please contact me at (713) 646-7644 or George Robinson at (713) 646-7327.

Sincerely,

Bill Kendrick
Manager, Projects Group

gcr/BK

xc:	M. Terraso	ENRON Operations Corp.	Houston, TX
	L. Campbell	Transwestern Pipeline Co.	Roswell, NM
	G. Robinson	Cypress Engineering Services	Houston, TX

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

June 1, 1994

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

CERTIFIED MAIL
RETURN RECEIPT NO. P-111-334-121

Mr. Larry Campbell
Transwestern Pipeline Company
P.O. Box 1717
Roswell, New Mexico 88202-1717

RE: SOIL AND GROUND WATER INVESTIGATIONS
ATOKA 1 COMPRESSOR STATION
EDDY COUNTY, NEW MEXICO

Dear Mr. Campbell:

On May 27, 1994, the New Mexico Oil Conservation Division (OCD) met with you to discuss Transwestern Pipeline Company's (TPC) recent soil and ground water investigations at TPC's Atoka 1 Compressor Station. At this meeting, the OCD expressed their concern that the investigation did not completely define the extent of contamination related to TPC's activities.

Based upon the discussions at this meeting and the OCD's review of TPC's March 16, 1994 "SUBSURFACE PIT INVESTIGATION, ATOKA 1 COMPRESSOR STATION", the OCD requests that TPC submit to OCD by July 29, 1994 the following items:

1. A work plan to complete the definition of the extent of soil and ground water contamination related to TPC's activities.

2. A closure plan for the formerly used concrete lined surface impoundment.

If you have any questions, please contact me at (505) 827-5885.

Sincerely,

William C. Olson
Hydrogeologist
Environmental Bureau

xc: OCD Artesia Office

State of New Mexico
ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT
Santa Fe, New Mexico 87505

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

☐ Telephone ☑ Personal | Time 1300 | Date 5/27/94

Originating Party	Other Parties
Larry Campbell - ENRON	Bill Olson Roger Anderson, Bobby Myers Chris Eustice - Envir. Bureau

Subject

Atoka 1 & 2 and Eunice Compressor Station Remediations

Discussion

Discussed status of environmental remediation at the above sites
OCD awaiting final report on Eunice Station
ENRON wants final closure on Atoka 2 pit closure
OCD ~~Bill~~ believes Atoka 1 needs additional investigation

Conclusions or Agreements

OCD will send ENRON letter on Atoka 1 requesting additional investigation
ENRON will submit letter requesting final closure at Atoka 2 remediation
ENRON will submit final report on clean up at Eunice Compressor

Distribution Atoka 1 file
ENRON Atoka 2 file
Eunice Compressor file

Signed Bill Olson

Phone (505) 623-2761
FAX (505) 625-8060

Transwestern Pipeline Company
TECHNICAL OPERATIONS
P. O. Box 1717 • Roswell, New Mexico 88202-1717

March 16, 1994

Mr. Roger Anderson
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Re: Subsurface pit investigation , Atoka 1 Compressor Station

Dear Mr. Anderson:

Enclosed find a copy of the report describing the subsurface investigation of a concrete lined surface impoundment located at the Atoka No. 1 Compressor Station. Brown and Root Environmental was contracted to perform the drilling investigation.

The impoundment was historically used to store condensate and liquid wastes generated during activities at the facility. This feature was taken out of service in 1992.

At your convenience, review this report. Transwestern Pipeline Company will be contacting your agency in the near future to discuss remediation activities and formal closure of this pit.

Should you require any additional information concerning review of this report, contact our Roswell Technical Operations at 625-8022.

Sincerely,

Larry Campbell

Larry Campbell
Division Environmental Specialist

xc: w/o attachments

Greg McIlwain
Rich Jolly
Omer Parker
file