

AP - 020

# STAGE 1 & 2 REPORTS

DATE:

Oct. 17, 2000

# CLAY OSBORN RANCH

## GROUND WATER METRICS

PREPARED BY

ENVIRONMENTAL PLUS, INC.  
1324 N. MAIN  
EUNICE, NEW MEXICO 88231

AS REQUESTED BY

E.O.T.T. ENERGY CORPORATION



ENVIRONMENTAL PLUS, INC.  
STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

Micro-Blaze

Micro-Blaze Oil™

October 17, 2000

Mr. Clay Osborn  
Jal, New Mexico 88260

Subject: Clay Osborn ground water metrics

Dear Mr. Osborn,

Mr. Wayne Brunette of E.O.T.T. Energy Corporation has requested that I send you information concerning the Shell North, Jal Mat #2, and Hanagan West remediation sites at which ground water was encountered during our drilling and sampling activities. Copies of the analytical reports are attached. Field chloride at the Jal Mat #2 site was measured to be 1494 mg/Kg  $\pm 10.0\%$ . Below is ground water level information for these sites in addition to the monitor well previously installed by Tex New-Mex located 100' southeast of the dirt tank in the southeast corner of section 12. This well has not been sampled during the recent investigations. The relatively shallow occurrence of ground water at the Hanagan West site is probably due to produced water leaks that have occurred at the same site and may not be representative of the natural ground water level.

| Site Name    | Latitude  | Longitude  | Sec/Tnshp/Rnge     | Ground Water Level<br>Feet below ground surface |
|--------------|-----------|------------|--------------------|-------------------------------------------------|
| Shell North  | 32°08'35" | 103°12'57" | N½ S12, T25S, R36E | 43.6                                            |
| Jal Mat #2   | 32°08'28" | 103°12'33" | N½ S12, T25S, R36E | 52.3                                            |
| Hanagan West | 32°08'22" | 103°13'20" | S12, T25S, R36E    | 21.7 (probably anthropogenic)                   |
| Tex New-Mex  | 32°07'50" | 103°12'28" | S12, T25S, R36E    | 60.8                                            |

If you have any questions please call me at the office or at 505.390.7864.

Sincerely,

Pat McCasland  
EPI Technical Services Manager

Cc: Ben Miller, EPI Vice President and General Manager  
Sherry Miller, EPI President

ENVIRONMENTAL PLUS, INC.

JALMAT II  
GROUND WATER ANALYSES

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

EOTT ENERGY  
ATTN: MR. WAYNE BRUNETTE  
P.O. BOX 1660  
MIDLAND, TEXAS 79703  
FAX: 915-684-3456  
FAX: 505-394-2601 (Pat McCasland)

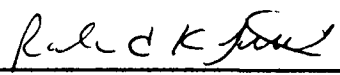
Sample Type: Water  
Sample Condition: Intact/ Iced/ 31 deg. F  
Project #: None Given  
Project Name: Clay Osborn Jalmat #2  
Project Location: Jal, N.M.

Sampling Date: 08/15/00  
Receiving Date: 08/23/00  
Analysis Date: 08/27/00

| ELT#  | FIELD CODE  | BENZENE<br>mg/L | TOLUENE<br>mg/L | ETHYLBENZENE<br>mg/L | m,p-XYLENE<br>mg/L | o-XYLENE<br>mg/L |
|-------|-------------|-----------------|-----------------|----------------------|--------------------|------------------|
| 29627 | EC02CGP6-GW | <0.001          | <0.001          | <0.001               | <0.001             | <0.001           |

|       |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|
| % IA  | 103    | 104    | 103    | 109    | 103    |
| % EA  | 102    | 100    | 98     | 98     | 94     |
| BLANK | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |

METHODS: SW 846-8021B,5030

  
Raland K. Tuttle

8-30-00  
Date

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

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ATTN: MR. WAYNE BRUNETTE  
P.O. BOX 1660  
MIDLAND, TEXAS 79703  
FAX: 915-684-3456  
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Water  
Sample Condition: Intact/ Iced/ 31 deg. F  
Project #: None Given  
Project Name: Clay Osborn Jalmat #2  
Project Location: Jal, N.M.

Sampling Date: 08/15/00  
Receiving Date: 08/23/00  
Analysis Date: 08/25/00

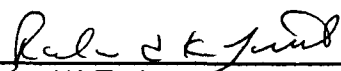
| ELT#  | FIELD CODE  | TDS<br>mg/L |
|-------|-------------|-------------|
| 29627 | EC02CGP6-GW | 3705*       |

BLANK

<10

METHODS: EPA 160.1

\*NOTE: Sample received after holding had exceeded.

  
Raland K. Tuttle

8-30-00  
Date

SHELL NORTH SITE  
GROUND WATER ANALYSES

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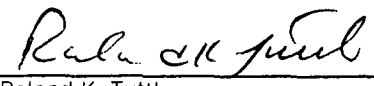
Sample Type: Water  
Sample Condition: Intact/ Iced/ 1 deg. C  
Project #: None Given  
Project Name: Clay Osborne Shell North  
Project Location: Sec12 T2SS R36E

Sampling Date: 09/01/00  
Receiving Date: 09/05/00  
Analysis Date: See Below

| ELT#  | FIELD CODE   | Chloride<br>mg/L | Sulfate<br>mg/L | Carbonate<br>mg/L | Bicarbonate<br>mg/L |
|-------|--------------|------------------|-----------------|-------------------|---------------------|
| 30396 | ECONSGP34-GW | 1968             | 900             | <1                | 299                 |

|                 |          |          |          |          |
|-----------------|----------|----------|----------|----------|
| QUALITY CONTROL | 5601     | 43.1     | *        | *        |
| TRUE VALUE      | 5000     | 50.0     | *        | *        |
| % PRECISION     | 112      | 86       | *        | *        |
| BLANK           | *        | <1.0     | <1       | <1       |
| ANALYSIS DATE   | 09/08/00 | 09/21/00 | 09/21/00 | 09/21/00 |

METHODS: EPA 325.3, 375.4, 310

  
Ralanda K. Tuttle

9-26-00  
Date



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FAX: 505-394-2601 (Pat McCasland)

Sample Type: Water  
Sample Condition: Intact/ Iced/ 1 deg. C  
Project #: None Given  
Project Name: Clay Osborne Shell North  
Project Location: Sec12 T2SS R36E

Sampling Date: 09/01/00  
Receiving Date: 09/05/00  
Analysis Date: See Below

| ELT#  | FIELD CODE   | TDS<br>mg/L | pH<br>s.u. | Conductivity<br>uS/cm |
|-------|--------------|-------------|------------|-----------------------|
| 30396 | ECONSGP34-GW | 4491        | 7.31       | 6080                  |

|                 |   |      |      |
|-----------------|---|------|------|
| QUALITY CONTROL | * | 7.01 | 1421 |
| TRUE VALUE      | * | 7.00 | 1413 |
| % PRECISION     | * | 100  | 101  |
| BLANK           | 5 | *    | *    |

|               |          |          |          |
|---------------|----------|----------|----------|
| ANALYSIS DATE | 09/07/00 | 09/15/00 | 09/15/00 |
|---------------|----------|----------|----------|

METHODS: EPA 150.1, 160.1, 120.1

  
Raland K. Tuttle

9-26-00  
Date

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FAX: 505-394-2601 (Pat McCasland)

Sample Type: Water  
Sample Condition: Intact/ Iced/ 1 deg. C  
Project #: None Given  
Project Name: Clay Osborn Shell North  
Project Location: S12 T2SS R36E

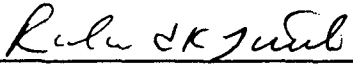
Sampling Date: 09/01/00  
Receiving Date: 09/05/00  
Analysis Date: 09/11/00  
Field Code: ECONSGP34-GW

| EPA SW846 8270 (mg/L)  | REPORT<br>LIMIT | ELT#<br>30395 | RPD | %EA | %DEV  |
|------------------------|-----------------|---------------|-----|-----|-------|
| Naphthalene            | 0.005           | ND            |     |     | 7.0   |
| Acenaphthylene         | 0.005           | ND            |     |     | -2.5  |
| Acenaphthene           | 0.005           | ND            | 5   | 111 | -12.1 |
| Fluorene               | 0.005           | ND            |     |     | -5.6  |
| Phenanthrene           | 0.005           | ND            |     |     | 0.8   |
| Anthracene             | 0.005           | ND            |     |     | 0.5   |
| Fluoranthene           | 0.005           | ND            |     |     | -5.1  |
| Pyrene                 | 0.005           | ND            | 6   | 104 | -8.3  |
| Benzo[a]anthracene     | 0.005           | ND            |     |     | -2.2  |
| Chrysene               | 0.005           | ND            |     |     | -1.3  |
| Benzo[b]fluoranthene   | 0.005           | ND            |     |     | -1.7  |
| Benzo[k]fluoranthene   | 0.005           | ND            |     |     | -20.5 |
| Benzo [a]pyrene        | 0.005           | ND            |     |     | -2.5  |
| Indeno[1,2,3-cd]pyrene | 0.005           | ND            |     |     | 29.0# |
| Dibenzo[a,h]anthracene | 0.005           | ND            |     |     | 23.2# |
| Benzo[g,h,i]perylene   | 0.005           | ND            |     |     | 36.0# |

#### % RECOVERY

|                       |     |
|-----------------------|-----|
| Nitrobenzene-d5 SURR  | 75  |
| 2-Fluorobiphenyl SURR | 118 |
| p-Terphenyl-d14 SURR  | 124 |

ND= not detected at report limit.  
Method: EPA SW 846 8270C , 3510

  
Randal K. Tuttle

9-26-00  
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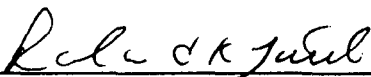
SampleType: Water  
Sample Condition: Intact/ Iced/ HCl/ 1 deg. C  
Project #: None Given  
Project Name: Clay Osborn Shell North  
Project Location: S12 T2SS R36E

Sampling Date: 09/01/00  
Receiving Date: 09/05/00  
Analysis Date: 09/10/00

| ELT#  | FIELD CODE   | GRO            | DRO              |
|-------|--------------|----------------|------------------|
|       |              | C6-C10<br>mg/L | >C10-C28<br>mg/L |
| 30397 | ECONSGP34-GW | <0.50          | <0.50            |

|       |       |       |
|-------|-------|-------|
| % IA  | 107   | 115   |
| % EA  | 74    | 89    |
| BLANK | <0.50 | <0.50 |

METHODS: SW 846-8015M GRO/DRO

  
Raland K. Tuttle

9-26-00  
Date

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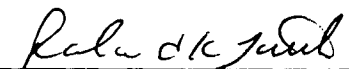
Sample Type: Water  
Sample Condition: Intact/ Iced/ HCl/ 1 deg. C  
Project #: None Given  
Project Name: Clay Osborn Shell North  
Project Location: Sec 12 T2SS R36E

Sampling Date: 09/01/00  
Receiving Date: 09/05/00  
Analysis Date: 09/06/00

| ELT#  | FIELD CODE   | BENZENE<br>mg/L | TOLUENE<br>mg/L | ETHYLBENZENE<br>mg/L | m,p-XYLENE<br>mg/L | o-XYLENE<br>mg/L |
|-------|--------------|-----------------|-----------------|----------------------|--------------------|------------------|
| 30394 | ECONSGP34-GW | <0.001          | 0.002           | <0.001               | 0.002              | 0.001            |

|       |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|
| % IA  | 113    | 110    | 104    | 108    | 100    |
| % EA  | 90     | 88     | 89     | 88     | 86     |
| BLANK | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |

METHODS: SW 846-8021B,5030

  
Raland K. Tuttle

9-26-00  
Date

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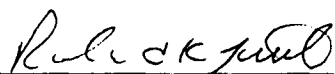
Sample Type: Water  
Sample Condition: Intact/ Iced/ 1 deg. C  
Project #: None Given  
Project Name: Clay Osborne Shell North  
Project Location: Sec12 T2SS R36E

Sampling Date: 09/01/00  
Receiving Date: 09/05/00  
Analysis Date: 09/19 & 09/20/00

| ELT#  | FIELD CODE   | Na<br>mg/L | Ca<br>mg/L | Mg<br>mg/L | K<br>mg/L |
|-------|--------------|------------|------------|------------|-----------|
| 30396 | ECONSGP34-GW | 809        | 224        | 137        | 6.64      |

|                       |       |       |       |       |
|-----------------------|-------|-------|-------|-------|
| % INSTRUMENT ACCURACY | 104   | 103   | 96    | 95    |
| % EXTRACTION ACCURACY | 108   | 100   | 94    | 112   |
| BLANK                 | <0.10 | <0.10 | <0.01 | <0.01 |

METHODS: SW 846-7770, 7140, 7450, 7610

  
Raland K. Tuttle

9-26-00  
Date

# Environmental Lab of Texas, Inc. 12600 West 1-20 East Odessa, Texas 79763 915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: **Wayne Brunette** Phone #: 915 556-0190  
Company Name & Address: **E.O.T.T.** FAX #: 915-674-3456  
Project #: **512 TASS R36E**

Project Name: **Clay Bottom Shell Mined**  
Sampler Signature: *[Signature]*  
Project Location: **512 TASS R36E**

| LAB #<br>(LAB USE ONLY) | FIELD CODE   | # CONTAINERS | Volume/Amount | MATRIX |      |     |        |       |     | PRESERVATIVE METHOD |     |       |       | SAMPLING |      |
|-------------------------|--------------|--------------|---------------|--------|------|-----|--------|-------|-----|---------------------|-----|-------|-------|----------|------|
|                         |              |              |               | WATER  | SOIL | AIR | SLUDGE | OTHER | HCL | LNH3                | ICE | NOHLE | OTHER | DATE     | TIME |
| 30394                   | ECONSGP34-GW | 2            | 40m           | ✓      |      |     |        |       | ✓   |                     | ✓   |       |       | 9.1.00   | 0922 |
| 30395                   | ECONSGP34-GW | 1            | 8L            | ✓      |      |     |        |       |     |                     | ✓   |       |       | 9.1.00   | 0906 |
| 30396                   | ECONSGP34-GW | 1            | 8L            | ✓      |      |     |        |       |     |                     | ✓   |       |       | 9.1.00   | 0908 |
| 30397                   | ECONSGP34-GW | 1            | 1/2 qt        | ✓      |      |     |        |       | ✓   |                     | ✓   |       |       | 9.1.00   | 0917 |

| RECEIVED BY:       |        |      | RECEIVED BY:       |        |      | RECEIVED BY:       |        |      |
|--------------------|--------|------|--------------------|--------|------|--------------------|--------|------|
| <i>[Signature]</i> |        |      | <i>[Signature]</i> |        |      | <i>[Signature]</i> |        |      |
| Date               | 9-5-00 | Time | Date               | 9-5-00 | Time | Date               | 9-5-00 | Time |
|                    |        |      |                    |        |      |                    |        |      |

| ANALYSIS REQUEST                     |        |   |                 |       |  |  |  |  |  |
|--------------------------------------|--------|---|-----------------|-------|--|--|--|--|--|
| TPH                                  | 8215 B | ✓ | UTEX 81120/5030 | 80213 |  |  |  |  |  |
| TCLP Metals Ag As Ba Cd Cr Pb Hg Bz  |        |   |                 |       |  |  |  |  |  |
| Total Metals Ag As Ba Cd Cr Pb Hg Bz |        |   |                 |       |  |  |  |  |  |
| TCLP Volatiles                       |        |   |                 |       |  |  |  |  |  |
| TCLP Semi Volatiles                  |        |   |                 |       |  |  |  |  |  |
| TDS                                  |        |   |                 |       |  |  |  |  |  |
| ICI                                  |        |   |                 |       |  |  |  |  |  |
| PH                                   | 8270C  | ✓ |                 |       |  |  |  |  |  |
| Ammonia/Nitrogen + General Chemistry | 105    | ✓ |                 |       |  |  |  |  |  |

Originals to W Brunette  
T J McLaughlin EPI

Temp 10C

HANAGAN WEST

GROUND WATER ANALYSES

# ENVIRONMENTAL LAB OF , INC.

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FAX: 505-394-2601 (Pat McCasland)

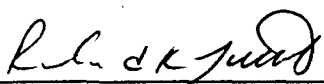
Sample Type: Water  
Sample Condition: Intact/ Iced/ HCl/ 2 deg. C  
Project #: 2000-10622  
Project Name: Clay Osborn Hanagan West  
Project Location: Sec 12 T25S R36E

Sampling Date: 09/08/00  
Receiving Date: 09/13/00  
Analysis Date: 09/14/00

| ELT#  | FIELD CODE  | BENZENE<br>mg/L | TOLUENE<br>mg/L | ETHYLBENZENE<br>mg/L | m,p-XYLENE<br>mg/L | o-XYLENE<br>mg/L |
|-------|-------------|-----------------|-----------------|----------------------|--------------------|------------------|
| 30937 | ECOHWGP9-GW | 0.001           | <0.001          | <0.001               | <0.001             | <0.001           |

|       |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|
| % IA  | 98     | 96     | 97     | 98     | 93     |
| % EA  | 97     | 96     | 98     | 100    | 94     |
| BLANK | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |

METHODS: SW 846-8021B,5030

  
Randal K. Tuttle

9-28-00  
Date



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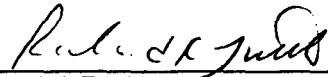
SampleType: Water  
Sample Condition: Intact/ Iced/ HCl / 2 deg. C  
Project #: 2000-10622  
Project Name: Clay Osborn Hanagan West  
Project Location: S12 T25S R36E

Sampling Date: 09/08/00  
Receiving Date: 09/13/00  
Analysis Date: 09/22/00

| ELT#  | FIELD CODE | GRO            | DRO              |
|-------|------------|----------------|------------------|
|       |            | C6-C10<br>mg/L | >C10-C28<br>mg/L |
| 30939 | EOHWGP9-GW | <0.50          | <0.50            |

|       |       |       |
|-------|-------|-------|
| % IA  | 74    | 89    |
| % EA  | 79    | 82    |
| BLANK | <0.50 | <0.50 |

METHODS: SW 846-8015M GRO/DRO

  
Raland K. Tuttle

9-28-00  
Date

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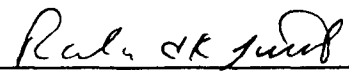
Sample Type: Water  
Sample Condition: Intact/ Iced/ 2 deg. C  
Project #: 2000-10622  
Project Name: Clay Osborn Hanagan West  
Project Location: Sec28 T20S R37E

Sampling Date: 09/08/00  
Receiving Date: 09/13/00  
Analysis Date: 09/19 & 09/20/00

| ELT#  | FIELD CODE  | Na<br>mg/L | Ca<br>mg/L | Mg<br>mg/L | K<br>mg/L |
|-------|-------------|------------|------------|------------|-----------|
| 30938 | ECOHWGP9-GW | 1815       | 1399       | 490        | 24.5      |

|       |       |       |       |       |
|-------|-------|-------|-------|-------|
| % IA  | 104   | 103   | 96    | 95    |
| % EA  | 108   | 100   | 94    | 112   |
| BLANK | <0.10 | <0.10 | <0.01 | <0.01 |

METHODS: SW 846-7770, 7140, 7450, 7610

  
Raland K. Tuttle

9-28-00  
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FAX: 505-394-2601 (Pat McCasland)

Sample Type: Water  
Sample Condition: Intact/ Iced/ 2 deg. C  
Project #: 2000-10622  
Project Name: Clay Osborn Hanagan West  
Project Location: S12 T25S R36E

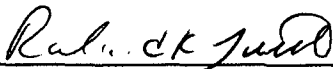
Sampling Date: 09/08/00  
Receiving Date: 09/13/00  
Analysis Date: 09/18/00  
Field Code: ECOHWGP9-GW

| EPA SW846 8270 (mg/L)  | REPORT<br>LIMIT | ELT#<br>30940 | RPD | %EA | %DEV   |
|------------------------|-----------------|---------------|-----|-----|--------|
| Naphthalene            | 0.005           | ND            |     |     | 5.7    |
| Acenaphthylene         | 0.005           | ND            |     |     | -22.5# |
| Acenaphthene           | 0.005           | ND            | 5   | 117 | -21.0# |
| Fluorene               | 0.005           | ND            |     |     | -7.0   |
| Phenanthrene           | 0.005           | ND            |     |     | -3.8   |
| Anthracene             | 0.005           | ND            |     |     | -2.6   |
| Fluoranthene           | 0.005           | ND            |     |     | 12.3   |
| Pyrene                 | 0.005           | ND            | 6   | 104 | 2.2    |
| Benzo[a]anthracene     | 0.005           | ND            |     |     | 0.7    |
| Chrysene               | 0.005           | ND            |     |     | 2.4    |
| Benzo[b]fluoranthene   | 0.005           | ND            |     |     | -19.8  |
| Benzo[k]fluoranthene   | 0.005           | ND            |     |     | -6.6   |
| Benzo[a]pyrene         | 0.005           | ND            |     |     | -10.4  |
| Indeno[1,2,3-cd]pyrene | 0.005           | ND            |     |     | 1.4    |
| Dibenzo[a,h]anthracene | 0.005           | ND            |     |     | -2.6   |
| Benzo[g,h,i]perylene   | 0.005           | ND            |     |     | 10.0   |

#### % RECOVERY

|                       |     |
|-----------------------|-----|
| Nitrobenzene-d5 SURR  | 58  |
| 2-Fluorobiphenyl SURR | 73  |
| p-Terphenyl-d14 SURR  | 100 |

ND= not detected at report limit.  
Method: EPA SW 846 8270C , 3510

  
Raland K. Tuttle

9-28-00  
Date

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

EOTT ENERGY  
ATTN: MR. WAYNE BRUNETTE  
P.O. BOX 1660  
MIDLAND, TEXAS 79703  
FAX: 915-684-3456  
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Water  
Sample Condition: Intact/ Iced/ 2 deg. C  
Project #: 2000-10622  
Project Name: Clay Osborne Hanagan West  
Project Location: Sec12 T2SS R36E

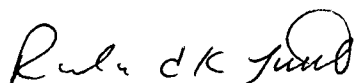
Sampling Date: 09/08/00  
Receiving Date: 09/13/00  
Analysis Date: See Below

| ELT#  | FIELD CODE  | Chloride<br>mg/L | Sulfate<br>mg/L | Carbonate<br>mg/L | Bicarbonate<br>mg/L | pH<br>s.u. | TDS<br>mg/L |
|-------|-------------|------------------|-----------------|-------------------|---------------------|------------|-------------|
| 30938 | ECOHWGP9-GW | 6027             | 1463            | <1                | 204                 | 6.84       | 16625       |

|                 |      |      |    |    |      |   |
|-----------------|------|------|----|----|------|---|
| QUALITY CONTROL | 4910 | 43.1 | *  | *  | 7.01 | * |
| TRUE VALUE      | 5000 | 50.0 | *  | *  | 7.00 | * |
| % PRECISION     | 98   | 86   | *  | *  | 102  | * |
| BLANK           | *    | <1.0 | <1 | <1 | *    | 5 |

|               |          |          |          |          |          |          |
|---------------|----------|----------|----------|----------|----------|----------|
| ANALYSIS DATE | 09/15/00 | 09/21/00 | 09/21/00 | 09/21/00 | 09/15/00 | 09/15/00 |
|---------------|----------|----------|----------|----------|----------|----------|

METHODS: EPA 325.3, 375.4, 310, 150.1, 160.1

  
Raland K. Tuttle

9-28-00  
Date

## CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

FAX# 915. 684. 3456

# E.O.T.T. ENERGY PIPELINE

Journal's reports

## SAMPLING

[illegible]

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1021

Amiens/Latons  
AH  
TDS  
PHT

REMARKS  
Originals FAX to W. Brune & Pat  
McCasland EPI, 505.394.2601

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