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REPORTS

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4/2006

GENERAL REMEDIATION WORK PLAN

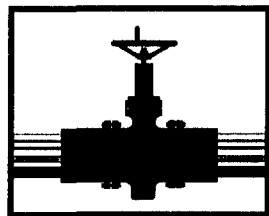
Clay Osborn
Rocky Top Ranch Sites
Jal, Lea County, New Mexico
Sections 7, 12 and 13, T25S R36E
Sections 7 and 18, T25S R37E

April 2006

Prepared For:

New Mexico Oil Conservation Division
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Santa Fe, New Mexico 87505

Prepared By:



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1.0 BACKGROUND

Plains Pipeline, L.P. (Plains) is the owner/operator of several pipelines present on the Clay Osborn Rocky Top Ranch property located in Jal, New Mexico. These pipeline assets were acquired by Eott Energy (later renamed Link Energy) from Shell and from Texas-New Mexico Pipe Line Company (TNMPLC) between 1993 and 1999. Plains acquired the Link Energy assets on April 1, 2004.

The Rocky Top Ranch is located in southern Lea County, New Mexico approximately $\frac{3}{4}$ -mile northwest of Jal and made up of the SE $\frac{1}{4}$ of Section 7, the S $\frac{1}{2}$ of Section 12 and the entire Section 13 of Township 25 South (T25S) and Range 36 East (R36E) and the S $\frac{1}{2}$ of Section 7 and the entire Section 18 of T25S and R37E.

This General Work Plan is provided for NMOCD review and approval. A list of the ten (10) sites that are the subject of this General Work Plan is included in Table 1 in Attachment A. A Site Location Map is included as Figure 1 in Attachment B. Please note that a site-specific work plan will be prepared for each site and will include a summary of the investigation data, categorization of the site based on site-specific characteristics, and a detailed summary of the proposed remedial activities.

2.0 PLAN OBJECTIVES

Plains proposes to remediate crude oil impacted sites at the Rocky Top Ranch, consistent with the remediation/abatement goals and objectives set forth in the New Mexico Oil Conservation Division (NMOCD) "*NMOCD Guidelines for Remediation of Leaks, Spills and Releases, August 13, 1993.*" In addition, when applicable, appropriate risk-based thresholds for the contaminants of concern (CoCs) will be proposed based on the relative risk posed by the CoC residuals to local groundwater, area water wells, surface water bodies and impacts on surface reclamation success.

Plains has prepared the following general work plan for typical or standardized soil remediation objectives that will: 1) limit the amount of surface impact to the areas surrounding each of the remediation sites; 2) be effective on all the sites so that remediation at each site can be conducted in a similar manner; 3) be in accordance with New Mexico Oil Conservation Division (NMOCD) general soil remediation guidelines and accepted practices for the area; and 4) use risk-based remediation principles when and where practical. Information gathered during the subsurface site investigations conducted in these impacted areas in 2001 revealed three (3) potential remediation scenarios: 1) sites where the surface areas have restored themselves naturally, the surface expression of the release is difficult to identify, and the impacts are limited to the surface and/or shallow soils; 2) sites where impacts are limited in depth and total excavation and treatment of the impacted soil is practical; and, 3) sites where soil impacts are deeper and partial excavation of the impacted soil with risk-based closure is warranted. The investigation data also indicates that soil impacts are generally deeper at the source of pipeline leak and shallower along the

flowpath. Prior to initiating any remedial activities at these sites, several of the sites will require soil delineation and evaluation of potential groundwater impacts. Each remediation scenario is described further in Section 5.0 below.

3.0 INVESTIGATION AND DELINEATION OF NEW SITES

There are four (4) previously, uninvestigated historical sites that are potentially subject to remediation. Plains will conduct a site investigation at each location to delineate the vertical and horizontal extent of soil impacts and assess the potential impact to groundwater. In the event one or more of the six (6) previously identified sites requires additional delineation prior to or during the soil remediation phase of work, Plains will conduct these activities. The site-specific Work Plan for each site will contain details of the proposed investigation activities such as location, number and depth of soil borings as well as a sampling and analysis plan.

4.0 PROPOSED TPH AND BTEX REMEDIAL GOALS

Based on the results of the previous investigation activities, the site-specific remedial goals in soil are 10 mg/Kg for benzene, 50 mg/Kg for BTEX and 100 mg/Kg for TPH. However, for those sites where risk-based closure will be proposed, Plains will install an impermeable liner at a depth of 10 to 15 feet bgs to isolate the deeper soil impacts and the treated soils, and the site-specific remedial goals of 10 mg/Kg benzene, 50 mg/Kg BTEX, and 100 mg/Kg TPH will only apply to the sidewalls (lateral extent) of the excavation. For soils excavated, treated, and utilized as backfill over a liner, the site-specific remedial goals will be 10 mg/Kg benzene, 50 mg/Kg BTEX, and 2,000 mg/Kg TPH.

5.0 REMEDIATION STRATEGIES

5.1 SURFACE RESTORATION SITES (SCENARIO 1)

For at least one of the known sites, the investigation data indicates the surface area has restored itself naturally, the surface expression of the release is difficult to identify, the impacts are limited to the surface and/or shallow soils, and there is no threat to groundwater. Listed below are the typical steps involved for a site in this category.

- Scrape the surface asphaltines where apparent and remove;
- Blend the underlying 1 to 2 feet of soil with native soil and contour;
- Do not disturb areas that have already re-vegetated.

5.2 TOTAL EXCAVATION (SCENARIO 2)

At several of the sites, investigation data indicates that soil impacts are limited in vertical extent (i.e. 10 to 15 feet in depth) and total excavation of the impacted soil is practical. Listed below are the typical steps involved for a site in this category.

- Excavation of impacted soil to below site guidelines.
- Collect and analyze soil samples from the walls and floor of the excavation to confirm that the remediation has met the site guidelines.
- 2. • Relocation of excavated soil to the centralized soil treatment area for blending and aeration.
- Collect and analyze treated soil to confirm that the soil treatment activities have met the site guidelines.
- Prepare a risk-based closure proposal for submittal and approval by the NMOCD.
- Install an impermeable liner in the bottom of the excavation to isolate the excavated/treated soils from the underlying non-impacted soils to prevent vertical migration of petroleum hydrocarbons and allow these soils to further attenuate over time (see liner detail below).
- Backfill the excavation with treated soil and restore the area to as close as possible to pre-spill conditions.

REVEGETATION ?

5.3 LIMITED EXCAVATION AND RISK-BASED CLOSURE (SCENARIO 3)

At several of the sites, investigation data indicates that soil impacts in the source area extend to between 10 feet and 45 feet below ground surface and excavation of all of the impacted soil to below NMOCD guidelines is not practical for these sites. Several of these sites also have an impacted "flowpath" area where the depth of the soil impacts are generally less than 10 feet in depth and excavation of the flowpath area is practical. Listed below are the typical steps involved for a site in this category.

- Excavation of impacted soil to approximately 10 feet below ground surface where investigation data indicates deeper soil impacts remain.
- If portions of the impacted area (flowpath for example) appear to be shallow, then excavate the impacted soil from shallow impacted areas to below NMOCD guidelines.
- Collect and analyze soil samples from the walls and floor of the excavation to confirm that the horizontal extent of the soil remediation effort has met the site guidelines.
- 1. • Relocation of excavated soil to the centralized soil treatment area for blending and aeration.
- Collect and analyze treated soil to confirm that the soil treatment activities have met the site guidelines.
- Prepare a risk-based closure proposal for submittal and approval by the NMOCD.
- Install an impermeable liner in the bottom of the excavation to isolate the impacted soil and prevent vertical migration of petroleum hydrocarbons (see liner details below).
- Backfill the excavation with treated soil and restore the area to as close as possible to pre-spill conditions.

5.4 LINER DETAILS

Soils impacted above site standards will be isolated from the near surface environment with the installation of an oversized 20 mil polyethylene liner that is impermeable and impervious to water and petroleum hydrocarbon. Establishment of the 3-foot wide clean area buffer around the contaminated soil in the floor of the excavation will be determined using a calibrated photoionization detector (PID) and confirmed by laboratory analysis of grab samples collected around the perimeter of the excavation. The liner shall be cushioned above and below with a 3 to 4-inch layer of sand or a geotextile to protect it from puncture and tearing during the backfilling process. After the liner has been properly installed, the excavation will be backfilled with soil remediated to acceptable levels in the soil treatment area, contoured to the natural grade and seeded with a seed mix acceptable to the landowner.

6.0 SAMPLING AND LABORATORY ANALYSIS

The Work Plan soil sampling program will consist in general of the collection of an appropriate number of confirmation soil samples from the walls and floor of the excavations and from the treated soil stockpiles. Each site-specific Work Plan will include details as to the number and location of confirmation soil samples. Soil samples will be analyzed for TPH gasoline range organics (GRO) and TPH diesel range organics (DRO) utilizing EPA Method SW-846 #8015 and benzene, toluene, ethylbenzene and xylene (BTEX) using EPA Method SW-846 #8021b.

The soil samples collected will be placed in laboratory prepared glassware, sealed with custody tape and placed on ice in a cooler which was secured with a custody seal. The samples and completed chain-of-custody forms will be relinquished to the selected laboratory for analysis.

7.0 CENTRALIZED SOIL TREATMENT FACILITY

Plains proposes to utilize the soil landfarm area currently located adjacent to the Jalmat #22A site as a centralized soil treatment and processing area. Prior to transporting the excavated soil to this area, the existing soil in the landfarm will be pushed up into stockpiles with a bulldozer to be later utilized as blending material during the soil treatment process. Soil excavated from each of the remediation sites will be loaded and transported to this centralized soil treatment facility where the soil will be blended, screened, and/or aerated to reduce contaminant concentrations to Work Plan limits (10 mg/Kg benzene, 50 mg/Kg BTEX, and 2,000 mg/Kg TPH). Treated soils will be segregated into approximate 500 cubic yard stockpiles.

To verify that the soil treatment process has met the Work Plan objectives, a composite soil sample will be collected and analyzed from each 500 cubic yard stockpile. Soil samples will be analyzed for TPH gasoline range organics (GRO) and diesel range organics (DRO) utilizing EPA Method SW-846 #8015 and benzene, toluene, ethylbenzene and xylene (BTEX) using EPA Method SW-846 #8021b. If laboratory results indicate the stockpile sample is below the site-specific remediation goals, the stockpiled soil will be flagged as ready to be utilized for backfill over a liner. In the event the

stockpile analytical results indicate TPH and/or BTEX results above the site-specific remediation goals, then the stockpile will be reprocessed and the sampling/verification procedure will be repeated.

8.0 BACKFILL AND SITE RESTORATION

Upon verification that the excavation activities have met the goals of the Work Plan, each site will be backfilled with treated soil that has also met the objective of the Work Plan for reuse as backfill. The backfill will be placed and compacted in lifts and the surface will be contoured to match the surrounding area. The site will be reseeded with a native grasses.

9.0 NOTIFICATIONS

At least 48-hours prior to collecting laboratory samples, Plains will notify the Hobbs, New Mexico office of the NMOCD of the intent to collect laboratory samples.

10.0 REPORTING

Remediation and monitoring activities and analytical information will be summarized in a closure report for each individual release site and submitted to the NMOCD requesting "no further action" be required at that particular site.

11.0 SITE RESTORATION

After the sites have been backfilled, the landfarm area and remediated release site will be reseeded. Follow-up inspections will be made at least quarterly to verify acceptable revegetation of the landfarmed area and the other areas disturbed during remediation of the sites.

TABLES

**Plains Pipeline, L.P.
Clay Osborn – Rocky Top Ranch Sites
Jal, Lea County, New Mexico**

Site Name	Legal Description	GPS Coordinates
Jalmat #1	Section 7, T25N, R37E	Lat : 32.1403 N Long : 103.2106 W
Jalmat #2	Section 7, T25N, R37E	Lat : 32.1408 N Long : 103.2106 W
Jalmat #3	Section 7, T25N, R37E	Lat : 32.1378 N Long : 103.2106 W
Jalmat #22A	Section 18, T25N, R37E	Lat : 32.1328 N 328 / 328 Long : 103.2106 W
Jalmat #22B	Section 18, T25N, R37E	Lat : 32.1319 N Long : 103.2106 W
Shell North 6" (East of Road)	Section 12, T25N, R36E	Lat : 32.1428 N Long : 103.2161 W
TM -245-2	Section 18, T25N, R37E	Lat : 32.1314 N Long : 103.2105 W
DT-27	Section 7, T25N, R37E	Lat : 32.1402 N Long : 103.2104W
SH 0193-2	Section 12, T25N, R36E	Lat : 32.1418 N Long : 103.2125 W
SH 0184-1	Section 18, T25N, R37E	Lat : 32.1313 N Long : 103.1983 W

1R-412

1R-411

1R-83

FIGURES

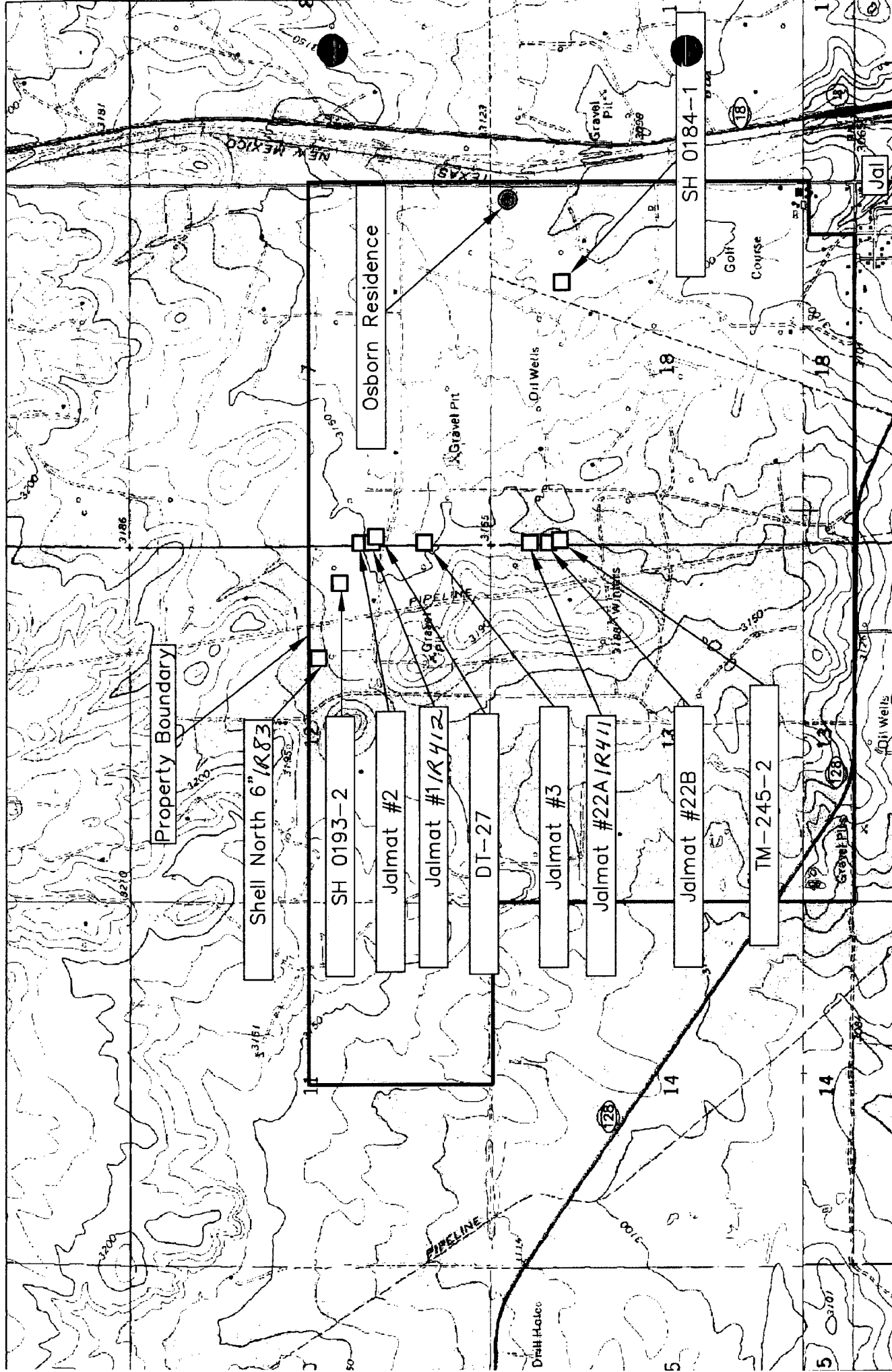
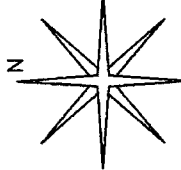


Figure 1
Area Map
Plains Pipeline, L.P.
Clay Osborn Rocky Top Ranch

Lea County, New Mexico
SE 1/4 Sec. 11, S 1/2 Sec. 12, & 13 T25S R36E
S 1/2 Sec. 7 and Sec. 18, T25S R37E
Elevation: ~3,100 feet amsl

DWG By: Daniel Dominguez
January 2006
REvised:
0 2000 4000 SHEET
1 of 1



AGREEMENT OF SETTLEMENT AND RELEASE

THIS AGREEMENT OF SETTLEMENT AND RELEASE (the "Agreement"), made and entered into as of the ____ day of _____, 2006, by WILBUR C. OSBORN and GERALDINE B. OSBORN, for the benefit of TEXAS-NEW MEXICO PIPELINE COMPANY INC., SHELL PIPELINE COMPANY LP, TEXACO PIPELINE INC., SHELL PIPE LINE LLC (DE) TEXACO TRADING AND TRANSPORTATION INC., EQUILON ENTERPRISES LLC d/b/a SHELL OIL PRODUCTS US, EQUILON PIPELINE COMPANY LLC n/k/a SHELL PIPELINE COMPANY LP, SHELL OIL COMPANY, PLAINS PIPELINE, L.P. and all other "Released Entities" as further defined below:

RECITALS

(A) Landowners are the owners of the "Property" (further defined in Exhibit 1 hereto) or have the legal right and authority, through binding legal agreements, to control or act on behalf of any other interest holders of the Property, including the right to settle and release any and all claims with respect to the Property.

(B) The term "Released Entities" shall mean and include TEXAS-NEW MEXICO PIPELINE COMPANY INC. INC., SHELL PIPELINE COMPANY LP, TEXACO PIPELINE INC., SHELL PIPE LINE LLC (DE) TEXACO TRADING AND TRANSPORTATION INC., EQUILON ENTERPRISES LLC d/b/a SHELL OIL PRODUCTS US, EQUILON PIPELINE COMPANY LLC n/k/a SHELL PIPELINE COMPANY LP, SHELL OIL COMPANY, PLAINS PIPELINE, L.P., and all their respective successors, assignees, representatives, officers, directors, employees, agents, principals, parents, subsidiaries, affiliates, partners, members,

predecessors, insurers, including American International Specialty Lines Insurance Company, servants, and attorneys, including Miller Stratvert P.A., Thompson & Knight, LLP and Locke, Lidell & Sapp. This release shall be fully binding and a complete settlement between the Plaintiffs and Released Entities, their respective executors, administrators, personal representatives, heirs, successors, assignees, representatives, agents and all parties represented by or claiming through such Parties.

(C) The term "Landowners" shall mean and include WILBUR C. OSBORN and GERALDINE B. OSBORN, including any future owner of any interest in the Property claiming under the present interest holders in the Property, and the respective executors, administrators, personal representatives, heirs, devisees, successors and assigns of each and any of said persons, and any and all persons for whom said persons own and/or control any property interest, including lessors of surface rights in the Property.

(D) The Landowners desire to enter into this Agreement with respect to the Property.

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS THAT, for and in consideration of Ten Dollars and no/100 (\$10.00) and other good and valuable consideration, WILBUR C. OSBORN and GERALDINE B. OSBORN, individually, and as representatives of all Landowners as hereinabove defined, do hereby release and agree as follows:

LANDOWNERS ON BEHALF OF THEMSELVES OR ANY OTHER ENTITIES HEREBY COMPLETELY RELEASE AND FOREVER DISCHARGE THE RELEASED ENTITIES (AS DEFINED ABOVE) to the full extent permitted by law from any and all claims, liabilities, demands, obligations, actions, causes of action or complaints of whatever nature which were brought, or which could have been brought by the Landowners, whether known or

unknown, arising from, or which are the subject of, WILBUR C. OSBORN and GERALDINE B. OSBORN v. TEXAS-NEW MEXICO PIPELINE COMPANY, INC.; TEXACO PIPELINE INC., SHELL PIPELINE COMPANY, L.P.; SHELL PIPELINE GP LLC; SHELL PIPELINE CORPORATION/SHELL PIPELINE LLC (DE), NO. CIV-04-1-34 LCS/KBM, UNITED STATES DISTRICT COURT FOR THE DISTRICT OF NEW MEXICO, or arising from or relating to the Property including but not limited to future movement or migration of any contamination which is on or under the Property (as hereinafter defined); provided however that Plaintiffs do not release Plains Pipeline, L.P. ("Plains") from damages which might arise as a result of their future operations on the Property after the date of this Agreement. The Osborns acknowledge that this release covers all damages related to the remediation of the sites listed in Exhibit B by Plains and any other areas associated with the remediation so long as Plains complies with the separate Access Agreement to be entered into between Wilbur C. Osborn and Geraldine B. Osborn and Plains. This release does not cover damages resulting from a breach of the Access Agreement.

1. Landowners' release and discharge against the Released Entities is intended to be as broad a release of claims against the predecessors, successors, parents, subsidiaries and affiliates of the Release Entities and all of the officers, directors, employees and agents of such companies, as is permitted by law. All Released Entities shall have standing to enforce the release terms of this Agreement, and Landowners to the Property stipulate that the other Released Entities are intended beneficiaries of this Agreement.

2. To the full extent permitted by law, the terms and provisions of this Agreement are and shall be covenants running with the land binding upon the undersigned and any and every other current or future person or legal entity within the definition of the term

Landowners to the end that all who hereafter deal with the Property will have notice of and be subject to this Agreement.

IN WITNESS WHEREOF, this Agreement is executed as of the day and year first above written.

**WILBUR C. OSBORN and
GERALDINE B. OSBORN**

By: _____
WILBUR C. OSBORN

By: _____
GERALDINE B. OSBORN

SUBSCRIBED and SWORN TO before me on this the ____ day of _____, 2006,
by WILBUR C. OSBORN.

NOTARY PUBLIC, State of _____
Notary's Printed Name: _____

My commission expires:

SUBSCRIBED and SWORN TO before me on this the ____ day of _____, 2006,
by GERALDINE B. OSBORN.

NOTARY PUBLIC, State of _____
Notary's Printed Name: _____

My commission expires:

Exhibit 1

LEGAL DESCRIPTION

(DEDED)

Section 1, Township 25, Range 36, 160.0 Acres being the Southwest quarter.

Section 11, Township 25, Range 36, 160 Acres Being the Southeast quarter.

Section 12, Township 25, Range 36, 320 Acres being the South half.

Section 13, Township 25, Range 36, being the entire section.

Section 7, Township 25, Range 37, 317.32 Acres being Lots 3-4, and the East half of the Southwest quarter, and the Southeast quarter of said section 7.


Section 18, Township 25, Range 37, 155.76 acres being Lots 1, 2, 3, 4. 203.40 acres Located in the East half of the West half, and the West half of the East half, Tract beginning 1321.2 feet West of the Northeast corner section, thence West approximately 2638.8 feet, South approximately 5280 feet, East approximately 718 feet, North 19 deg. 46 min. East approximately 5613.9 to the point of beginning.

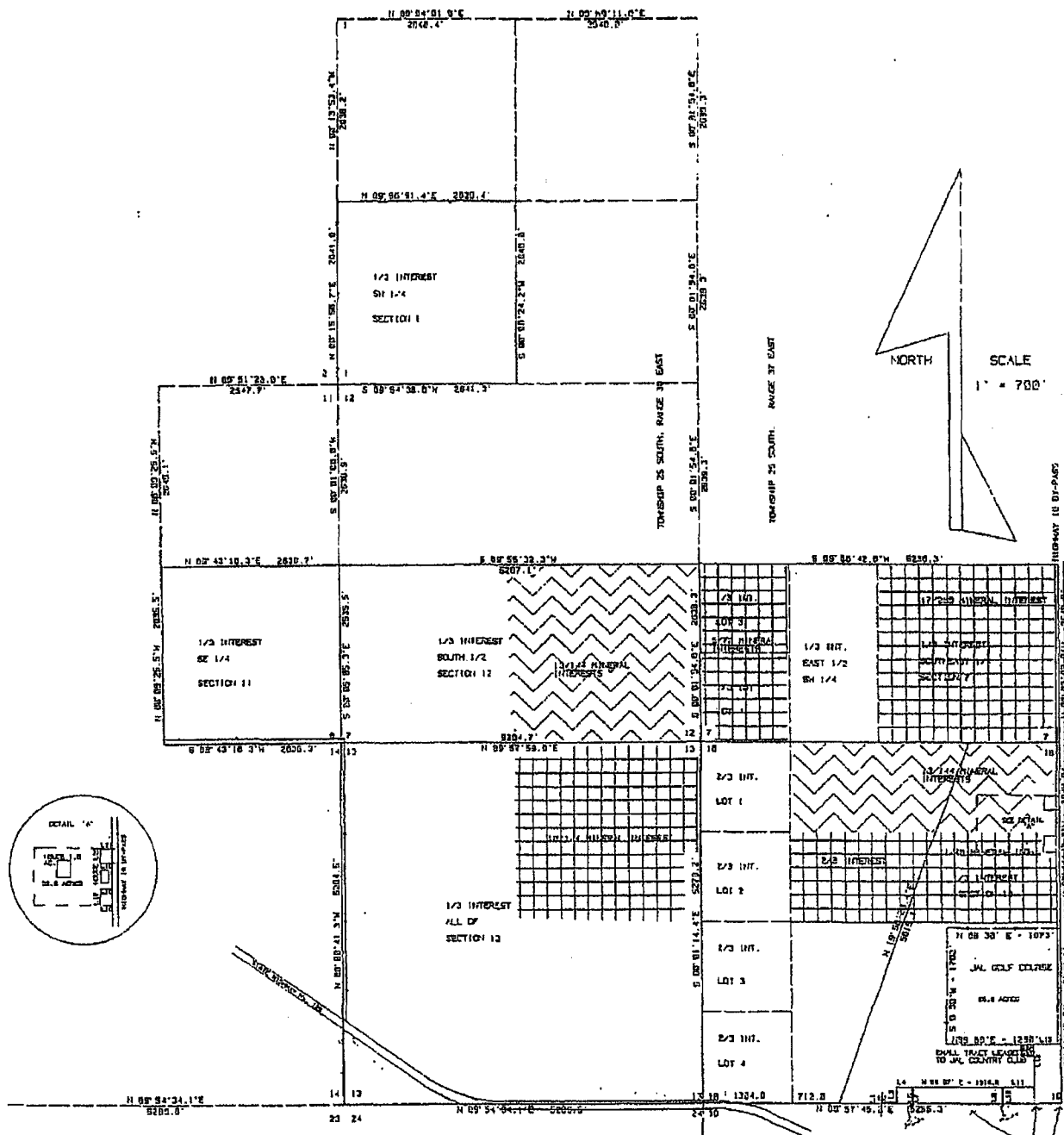
Section 18, Township 25, Range 37 1.0 Acres located in the Northeast quarter. Beginning South 89 deg. 57 min. West 50 feet, and North 0 deg. 3 min. West 1165 feet from the Southeast corner of the Northeast quarter of section 18, thence South 89 deg. 57 min. West 210 feet, North 0 deg. 3 min. West 197.8 feet, North 84

OK 

deg. 27 min. East 211 feet, South 0 deg. 3 min. East 218 feet to the point of beginning.

Section 18, Township 25, Range 37, 255.99 acres located in the East half. Tract beginning at the Northeast corner of section 18, thence South 89 deg. 52 min. West 1321.2 feet to the intersect of the Jal corporate boundary, thence South 19 deg. 46 min. West along Jal corp. Boundary line 5610.7 feet more or less to the South line of section 18, East along said line 602 feet, more or less, to the South quarter corner of section 18, North 20 feet, East 230 feet, North 210 feet, East 210 feet, South 210 feet, East 20 feet, North 210 feet, East 1310 feet, South 198 feet, more or less, East 10 feet, North 198 feet, East 440 feet, North 400.6 feet, East 20 feet, North 222 feet, East 400 feet to the East Line of Section 18, North along the East line of Section 18, to a point 1165 feet North of the East quarter corner of Section 18, South 89 deg. 57 min. West 260 feet, North 0 deg. 3 min. West 179.8 feet, North 84 deg. 27 min. East 211 feet, South 0 deg. 3 min. East 218 feet, North 89 deg. 57 min. East 50 feet to the East line of Section 18, thence North along said line 419 feet, West 210 feet, North 210 feet, East 210 feet, to the East line of Section 18, North along said East line to the Northeast corner of section 18, and the point of beginning.

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PLAT OF SW 1/4 SECTION 1, THE SE 1/4 OF SECTION 11, AND THE SOUTH 1/2 OF SECTION 12, ALL OF SECTION 13, T-25-S, R-36-E, N.M.P.M., AND SOUTH 1/2 OF SECTION 7, AND ALL OF SECTION 18 EXCEPT AS SHOWN ON THE PLAT, T-25-S, R-37-E, N.M.P.M., LEA COUNTY, NEW MEXICO.

I, TRUMAN GASKIN, DO HEREBY CERTIFY THAT THIS PLAT REPRESENTS A SURVEY MADE ON THE ORIGIN, UNDER MY SUPERVISION ON THE DAY OF THE 12th MONTH OF 1901, AND IS TO THE BEST OF MY KNOWLEDGE TRUE AND CORRECT.

Truman Gaskin
 TRUMAN GASKIN, REGISTERED PUBLIC SURVEYOR
 NEW MEXICO 10, 2120

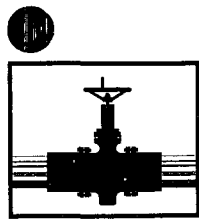


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70	N 00° 54' 21.0" E	2640.4
71	N 00° 54' 21.0" E	2640.4
72	N 00° 54' 21.0" E	2640.4
73	N 00° 54' 21.0" E	2640.4
74	N 00° 54' 21.0" E	2640.4
75	N 00° 54' 21.0" E	2640.4
76	N 00° 54' 21.0" E	2640.4
77	N 00° 54' 21.0" E	2640.4
78	N 00° 54' 21.0" E	2640.4
79	N 00° 54' 21.0" E	2640.4
80	N 00° 54' 21.0" E	2640.4
81	N 00° 54' 21.0" E	2640.4
82	N 00° 54' 21.0" E	2640.4
83	N 00° 54' 21.0" E	2640.4
84	N 00° 54' 21.0" E	2640.4
85	N 00° 54' 21.0" E	2640.4
86	N 00° 54' 21.0" E	2640.4
87	N 00° 54' 21.0" E	2640.4
88	N 00° 54' 21.0" E	2640.4
89	N 00° 54' 21.0" E	2640.4
90	N 00° 54' 21.0" E	2640.4
91	N 00° 54' 21.0" E	2640.4
92	N 00° 54' 21.0" E	2640.4
93	N 00° 54' 21.0" E	2640.4
94	N 00° 54' 21.0" E	2640.4
95	N 00° 54' 21.0" E	2640.4
96	N 00° 54' 21.0" E	2640.4
97	N 00° 54' 21.0" E	2640.4
98	N 00° 54' 21.0" E	2640.4
99	N 00° 54' 21.0" E	2640.4
100	N 00° 54' 21.0" E	2640.4

11.11 AC
 Approximate
 Information

EXHIBIT B

- 1) Jalmat #1
- 2) TM 0245-2
- 3) Jalmat #22B
- 4) Jalmat #22A
- 5) Jalmat 2
- 6) DT-27
- 7) Jalmat #3
- 8) East half Shell 6" (east of road)
- 9) SH 0193-2
- 10) SH 0184-1



PLAINS
MARKETING, L.P.

May 12, 2006

Mr. Ed Martin
State of New Mexico
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

1R-467

Re: Plains Pipeline, L.P.
Document Submittal
Clay Osborn - Rocky Top Ranch
Jal, Lea County, New Mexico

Dear Mr. Martin:

Plains Pipeline, L.P. (Plains) is pleased to submit the attached Document Submittal for the soil remediation project sites located on the Osborn's Rocky Top Ranch in Jal, Lea County, New Mexico. These documents include the original soil investigation report, annual groundwater monitoring reports (where monitor wells are present), and various correspondences. Plains assumes this information is already in your files; however, for convenience purposes we have prepared one document containing the reports.

Should you have any questions or comments, please contact me at (713) 646-4657.

Sincerely,

Jeffrey P. Dann, P.G.
Sr. Environmental Specialist
Plains All American

Attachment: Document Submittal

File: n/jeff-files/Osborn-RockyTopRanch/DocumentSubmittal CovrLtr.doc

E.O.T.T. ENERGY CORPORATION

SITE INVESTIGATION AND REMEDATION PROPOSAL

CLAY OSBORN JALMAT #3
Ref. # 2000-10610

SW¼ SW¼ UL-M Section 7 T25S R37E
~½ mile Northwest of Jal
Lea County, New Mexico
Latitude: 32°08'16"N Longitude: 103°12'38"W

December 8, 2001

Prepared by

Environmental Plus, Inc.
2100 Avenue O
P.O. Box 1558
Eunice, New Mexico 88231
Tele 505•394•3481 FAX 505•394•2601



JAN 3 2002

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1.0 INTRODUCTION

This site is located in Unit Letter M, in the SW¼ of the SW¼ of Section 7 T25S R37E, approximately ½ mile northwest of Jal, Lea County New Mexico at Latitude 32°08'16"N and Longitude 103°12'38"W. The property is owned by Clay and Gerry Osborn who live in the ranch headquarters approximately 1 mile southeast of the site. A topographical map is included in Attachment I. The leak is historical and the crude oil release and recovery volumes unknown. Photographs are included as Attachment IV.

2.0 ENVIRONMENTAL MEDIA CHARACTERIZATION

Chemical parameters of the soil and ground water were characterized consistent with the characterization and remediation/abatement goals and objectives set forth in the New Mexico Oil Conservation Division (NMOCD) approved **"General Work Plan for Remediation of E.O.T.T. Pipeline Spills, Leaks and Releases in New Mexico, July 2000"** and the NMOCD guidelines published in the following documents;

- Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993)
- Unlined Surface Impoundment Closure Guidelines (February 1993)

Acceptable thresholds for **contaminants/constituents of concern** (CoCs), i.e., TPH, Benzene, and the sum of Benzene, Toluene, Ethyl Benzene, and total Xylene (BTEX), will be determined based on the NMOCD Ranking Criteria as follows;

- Depth to Ground water, i.e., distance from the lower most acceptable concentration to the ground water.
- Wellhead Protection Area, i.e., distance from fresh water supply wells.
- Distance to Surface Water Body, i.e., horizontal distance to all down gradient surface water bodies.

2.1 GEOLOGICAL DESCRIPTION

The United States Geological Survey (USGS) Ground-Water Report 6, "Geology and Ground-Water Conditions in Southern Lea County, New Mexico," A. Nicholson and A. Clebsch, 1961, describes the near surface geology of southern Lea County as an intergrade of the Quaternary Alluvium (QA) sediments, i.e., fine to medium sand, with the mostly eroded Cenozoic Ogallala (CO) formation. During the investigation a yellowish to tan silty clay interbed was identified at ~55 feet below ground surface ('bgs) and supports a 3-foot thick zone of saturation. Typically, the QA and CO formations in the area are capped by a thick interbed of caliche and was encountered at 5-7'bgs.

2.2 ECOLOGICAL DESCRIPTION

The area is typical of the Upper Chihuahuan Desert Biome consisting primarily of hummocky sand hills covered with Harvard Shin Oak (*Quercus harvardi*) interspersed with Honey Mesquite (*Prosopis glandulosa*) along with typical desert grasses and weeds. Mammals represented, include Orrd's and Merriam's Kangaroo

Rat, Deer Mouse, White Throated Wood Rat, Cottontail Rabbit, Black Tailed Jackrabbit, and the Mule Deer. Reptiles, Amphibians, and Birds are numerous and typical of area. A survey of Listed, Threatened, or Endangered species was not conducted.

2.3 AREA GROUND WATER

The unconfined ground water aquifer is estimated to occur beneath the site at approximately 55.0' bgs and is consistent with information provided by the New Mexico Tech Geoinformation website, (www.geoinfo.nmt.edu/.esrimap), the New Mexico Office of the State Engineer, and other local information available for the site. Copies of the State Engineer's Average Depth to Ground Water Reports for Range 36E and 37E in Township 25 are included in Attachment II. According to the USGS, the ground water elevation decreases generally to the southeast.

2.4 AREA WATER WELLS

There are no water wells within 1000 horizontal feet of the site.

2.5 AREA SURFACE WATER BODIES

There are no permanent or intermittent surface water bodies within 1000 horizontal feet of the site.

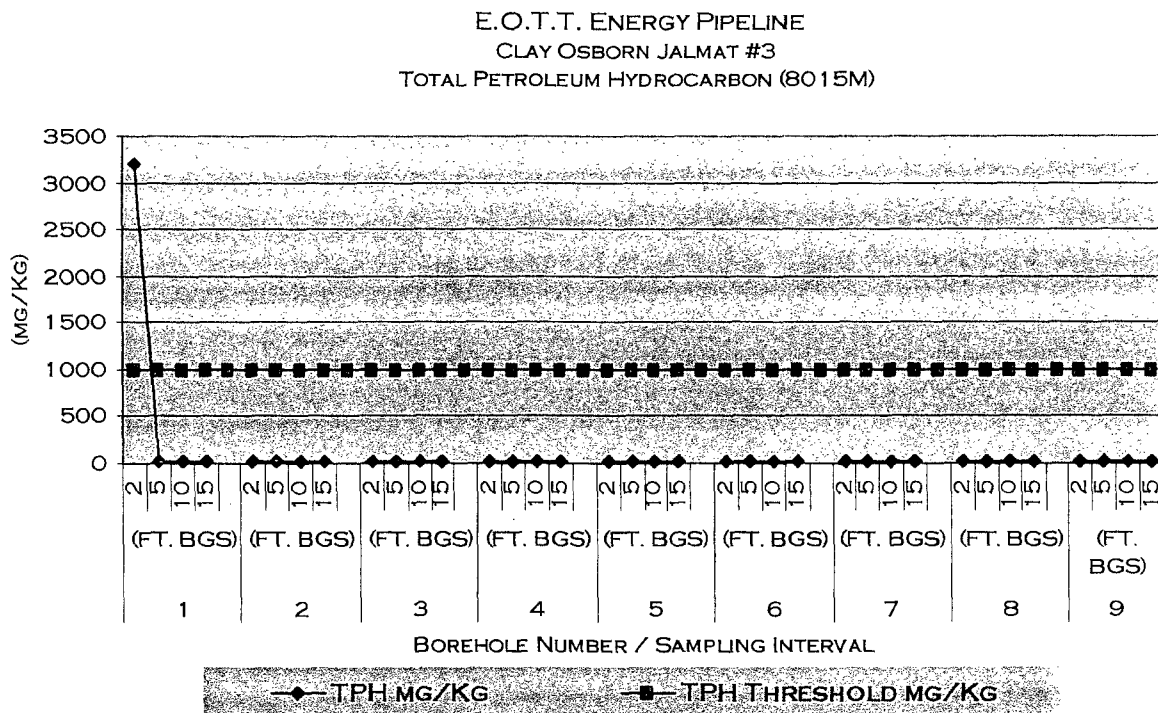
3.0 NMOCD SITE RANKING

Based on the proximity of the site to protectable area water wells, surface water bodies, and depth to ground water from the lower most contamination, the NMOCD ranking score for the site is 20 points with the soil remedial goals highlighted below in the Site Ranking Matrix.

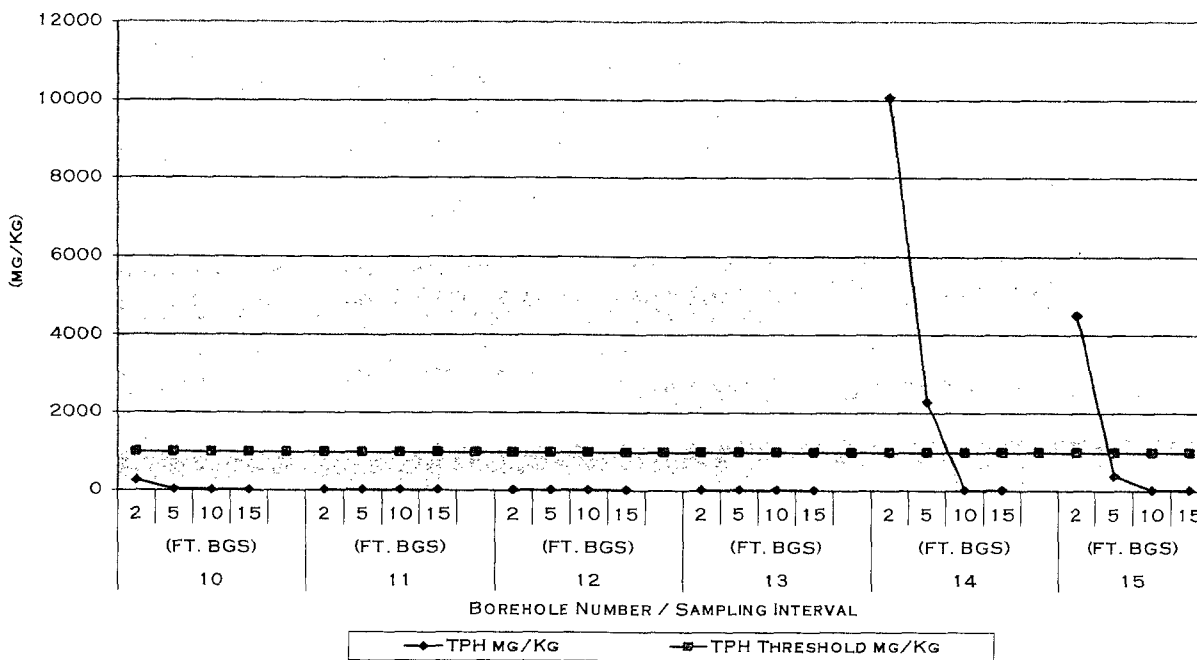
1. Ground Water	2. Wellhead Protection Area	3. Distance to Surface Water Body
If Depth to GW <50 feet: <i>20 points</i>	If <1000' from water source, or; <200' from private domestic water source: <i>20 points</i>	<200 horizontal feet: <i>20 points</i>
If Depth to GW 50 to 99 feet: <i>10 points</i>		200-100 horizontal feet: <i>10 points</i>
If Depth to GW >100 feet: <i>0 points</i>	If >1000' from water source, or; >200' from private domestic water source: <i>0 points</i>	>1000 horizontal feet: <i>0 points</i>
Ground water Score = 20	Wellhead Protection Area Score = 0	Surface Water Score = 0
Site Rank (1+2+3) = 20 + 0 + 0 = 20 points		
Total Site Ranking Score and Acceptable Concentrations		
Parameter	>19	
Benzene ¹	10 ppm	
BTEX ¹	50 ppm	
TPH	100 ppm	
¹ 100 ppm field VOC headspace measurement may be substituted for lab analysis		

4.0 SUBSURFACE SOIL INVESTIGATION

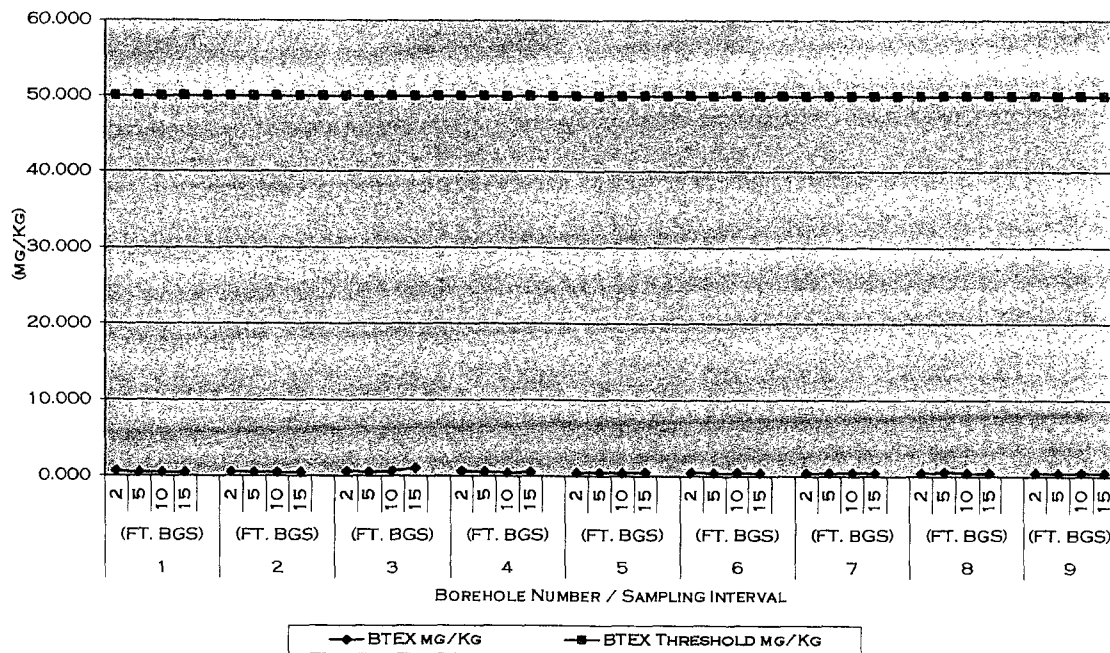
Strategically located boreholes were sampled discretely at 5' vertical intervals using a hollow stem auger and stainless steel sample probe with a vinyl sleeve. All samples were jarred immediately and refrigerated with the remainder decanted into a zip lock bag for Volatile Organic Constituent (VOC) Headspace analysis using a calibrated Photoionization Detector (PID). Sampling equipment was decontaminated routinely between sampling iterations. The site sample location map is included in Attachment I. The visible spill area perimeter defines the horizontal extent of CoC contamination and involves approximately 4,490 ft² and is restricted to the pipeline right of way. Vertical contamination was detected to 2'bgs in BH1, to 10'bgs in BH14, and to 5'bgs at BH15. Estimated affected soil volume is 499 yd³ and accounts for the contamination around BH14 and BH15 and the upper 2' of soil over the remainder of the affected area. The original analytical reports are provided and summarized in Attachment III. The data is illustrated below.



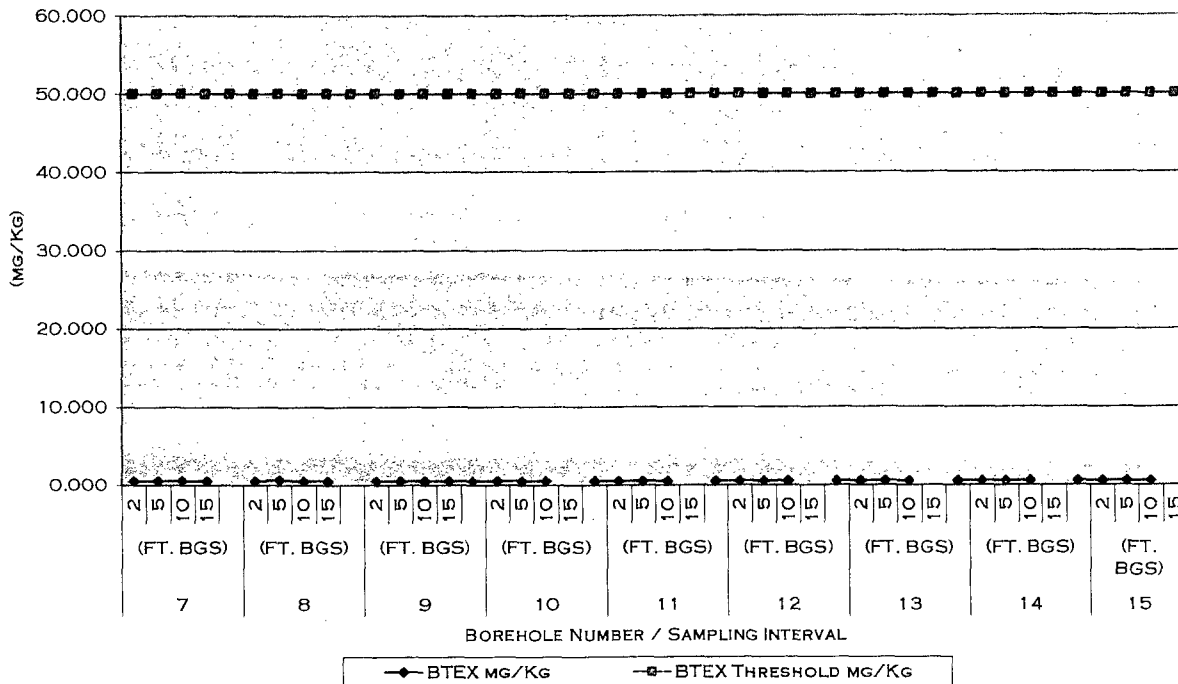
E.O.T.T. ENERGY PIPELINE
CLAY OSBORN JALMAT #3
TOTAL PETROLEUM HYDROCARBON (BO15M)



E.O.T.T. ENERGY PIPELINE
CLAY OSBORN JALMAT #3
BTEX DELINEATION



E.O.T.T. ENERGY PIPELINE
CLAY OSBORN JALMAT #3
BTEX DELINEATION



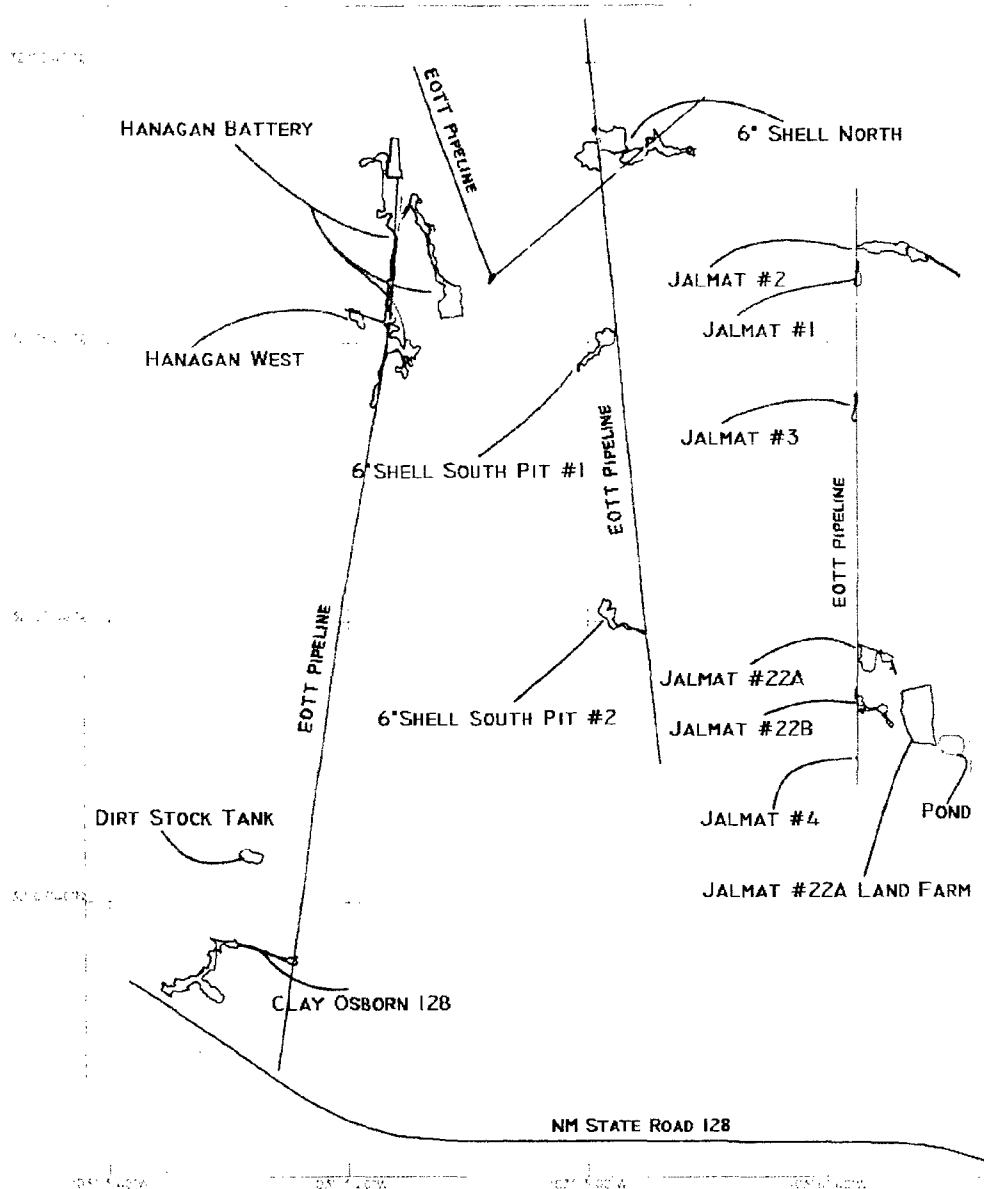
5.0 GROUND WATER INVESTIGATION

The soil investigation did not warrant a ground water investigation at this site.

6.0 RESTORATION PROPOSAL

It is proposed to excavate the soil contaminated above the CoC remedial goals in the areas of BH14 and BH15 and land spread on the east side of the site. The estimated soil volume is 225 yd³. The upper 2 feet of soil from the remainder of the site, approximately 274 yd³, will likewise be placed in the land farm cell and the excavation backfilled with local clean soil. The land farmed soil will be disked monthly, tested quarterly, and may be amended with nutrients or clean soil, shredded, or treated with bio-attenuation accelerants. After achieving the NMOCD remedial goals the remediated soil will be contoured to grade and reseeded. The estimated soil volume affected at the site is approximately 499 yd³.

ATTACHMENT I: SITE MAPS



E.O.T.T. ENERGY PIPELINE
CLAY OSBORN RANCH REMEDIATION SITES
T25S-R36E & R37E NORTHWEST OF JAL LEA COUNTY, NM

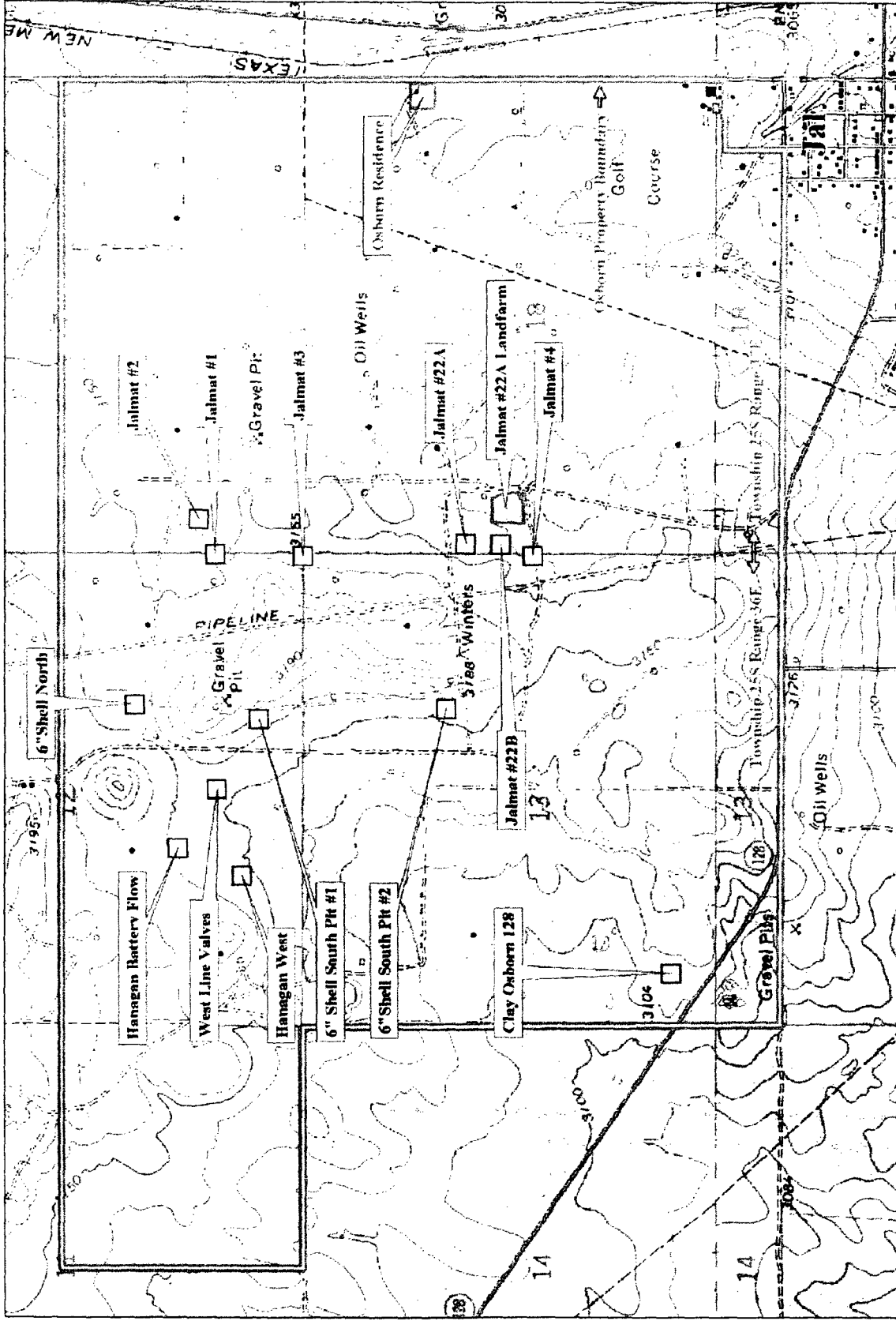
1 477.0 NS
WGS 1984

SCALE 1 IN = 1,250 FT

CO172a0.88-

12-26-200





Copyright © 2000 DeLorme, TopoTrends Advanced Print Kit TE. Scale: 1 : 17,600 Zoom Level: 13.0 Datum: WGS84

32°08'16.5"N

32°08'16.0"N

32°08'15.5"N

32°08'15.0"N

32°08'14.5"N

103°12'38.5"W 103°12'38.0"W 103°12'37.5"W 103°12'37.0"W 103°12'36.5"W

Clay Osborn Jalmat #3

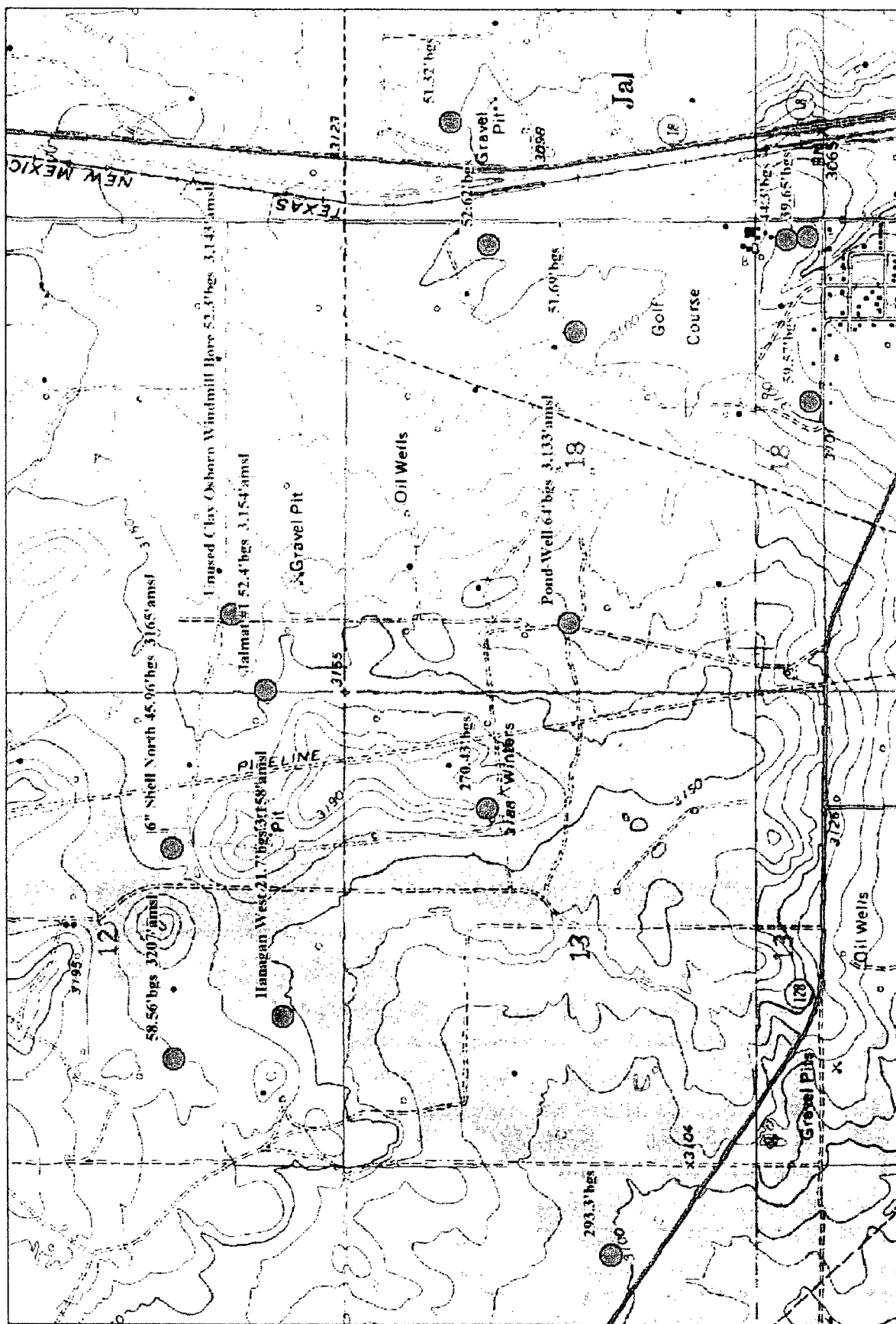
Lat/Long
WGS 1984

N

Scale 1:500

0 0.010
MilesMultiple Files
11/10/2001GPS Pathfinder[®] Office Trimble.

ATTACHMENT II: AVERAGE DEPTH TO GROUND WATER REPORTS AND
WELL MAP



New Mexico Office of the State Engineer

Page 1 of 1

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: Range: Sections:
NAD27 X: Y: Zone: Search Radius:
County: Basin: Number: Suffix:
Owner Name: (First) (Last) ☐ Non-Domestic ☐ Domestic
☒ All

AVERAGE DEPTH OF WATER REPORT 12/29/2001

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg

No Records found, try again

http://164.64.214.10/awdProd/awd.html?email_address=enviplus1@aol.com&tws=25S&r... 12/29/2001

New Mexico Office of the State Engineer

Page 1 of 1

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: Range: Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ☐ Non-Domestic ☐ Domestic
☒ All

Well / Surface Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

WATERS Menu

Help

AVERAGE DEPTH OF WATER REPORT 12/29/2001

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
CP	25S	37E	19				9	27	63	44
CP	25S	37E	20				6	28	60	34

Record Count: 15

http://164.64.214.10/awdProd/awd.html?email_address=enviplus1@aol.com&tw=25S&r... 12/29/2001

ATTACHMENT III: ORIGINAL ANALYTICAL REPORTS AND SUMMARIES

E.O.T.T. Energy Pipeline Jalmat 3

Borehole	Sampling Interval (FT. BGS ¹)	SAMPLE ID#	Date Taken	Lithology	HEADSPACE VOC ² (ppm)	GRO ³ mg/Kg	DRO ⁴ mg/Kg	TPH ⁵ mg/Kg	BTEX mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethyl Benzene mg/Kg	m,p- Xylene mg/Kg	o- Xylene mg/Kg
1	2	ECO3GP1-02	7/17/2000	Sand	170.0	10	3193	3203.000	0.675	0.100	0.147	0.116	0.179	0.133
	5	ECO3GP1-05	7/17/2000	Sand	10.0	10	10	20.000	0.500	0.100	0.100	0.100	0.100	0.100
	10	ECO3GP1-10	7/17/2000	Sand	5.0	10	10	20.000	0.500	0.100	0.100	0.100	0.100	0.100
	15	ECO3GP1-15	7/17/2000	Sand	3.0	10	10	20.000	0.500	0.100	0.100	0.100	0.100	0.100
	2	ECO3GP2-02	7/17/2000	Sand	4.6	10	10	20.000	0.505	0.100	0.100	0.105	0.100	0.100
2	5	ECO3GP2-05	7/17/2000	Sand	5.2	10	10	20.000	0.507	0.100	0.100	0.107	0.100	0.100
	10	ECO3GP2-10	7/17/2000	Sand	1.3	10	10	20.000	0.500	0.100	0.100	0.100	0.100	0.100
	15	ECO3GP2-15	7/17/2000	Sand	0.0	10	10	20.000	0.500	0.100	0.100	0.100	0.100	0.100
	2	ECO3GP3-02	7/17/2000	Sand	0.0	10	11	21.000	0.655	0.100	0.174	0.100	0.153	0.128
3	5	ECO3GP3-05	7/17/2000	Sand	0.0	10	10	20.000	0.527	0.100	0.127	0.100	0.100	0.100
	10	ECO3GP3-10	7/17/2000	Sand	0.0	10	10	20.000	0.669	0.100	0.181	0.100	0.188	0.100
	15	ECO3GP3-15	7/17/2000	Sand	1.0	10	10	20.000	1.064	0.100	0.235	0.100	0.521	0.108
	2	ECO3GP4-02	7/17/2000	Sand	1.3	10	10	20.000	0.694	0.100	0.196	0.100	0.100	0.198
	5	ECO3GP4-05	7/17/2000	Sand	6.9	10	10	20.000	0.586	0.100	0.186	0.100	0.100	0.100
4	10	ECO3GP4-10	7/17/2000	Sand	4.2	10	10	20.000	0.500	0.100	0.100	0.100	0.100	0.100
	15	ECO3GP4-15	7/17/2000	Sand	0.0	10	10	20.000	0.536	0.100	0.136	0.100	0.100	0.100
	2	ECO3GP5-02	7/17/2000	Sand	6.8	10	10	20.000	0.500	0.100	0.100	0.100	0.100	0.100
	5	ECO3GP5-05	7/17/2000	Sand	7.2	10	10	20.000	0.528	0.100	0.128	0.100	0.100	0.100
5	10	ECO3GP5-10	7/17/2000	Sand	1.3	10	10	20.000	0.500	0.100	0.100	0.100	0.100	0.100
	15	ECO3GP5-15	7/17/2000	Sand	0.0	10	10	20.000	0.592	0.100	0.192	0.100	0.100	0.100
	2	ECO3GP6-02	7/17/2000	Sand	7.1	10	10	20.000	0.530	0.100	0.130	0.100	0.100	0.100
	5	ECO3GP6-05	7/17/2000	Sand	7.0	10	10	20.000	0.500	0.100	0.100	0.100	0.100	0.100
	10	ECO3GP6-10	7/17/2000	Sand	6.0	10	10	20.000	0.500	0.100	0.100	0.100	0.100	0.100
6	15	ECO3GP6-15	7/17/2000	Sand	1.3	10	10	20.000	0.500	0.100	0.100	0.100	0.100	0.100
	100 ppm Isobutylene calibration gas = 101 ppm													

100 ppm Isobutylene calibration gas = 101 ppm

¹bgs - below ground surface²VOC-Volatile Organic Contaminants/Constituents³GRO-Gasoline Range Organics⁴DRO-Diesel Range Organics⁵TPH-Total Petroleum Hydrocarbon = GRO+DRO.⁶Bolded values are in excess of the New Mexico Oil Conservation Division guideline threshold for the parameter⁷Italicized values are < the instrument detection limit⁸N/A Not Analyzed

Reported detection limits are considered "de minimus" values and are included in the GRO/DRO and BTEX summations.

E.O.T.T. Energy Pipeline Jalmat 3

Borehole	Sampling Interval (FT. BGS ¹)	SAMPLE ID#	Date Taken	Lithology	HEADSPACE VOC ² (ppm)	GRO ³ mg/Kg	DRO ⁴ mg/Kg	TPH ⁵ mg/Kg	BTEX mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethyl Benzene mg/Kg	m,p- Xylene mg/Kg	o- Xylene mg/Kg
7	2	ECO3GP7-02	7/18/2000	Sand	1.8	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	5	ECO3GP7-05	7/18/2000	Sand	1.2	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	10	ECO3GP7-10	7/18/2000	Sand	0.8	10	10	20,000	0.539	0.100	0.133	0.100	0.100	0.106
	15	ECO3GP7-15	7/18/2000	Sand	1.0	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
8	2	ECO3GP8-02	7/18/2000	Sand	3.0	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	5	ECO3GP8-05	7/18/2000	Sand	2.0	10	10	20,000	0.662	0.100	0.100	0.100	0.262	0.100
	10	ECO3GP8-10	7/18/2000	Sand	2.6	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	15	ECO3GP8-15	7/18/2000	Sand	1.8	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
9	2	ECO3GP9-02	7/18/2000	Sand	3.3	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	5	ECO3GP9-05	7/18/2000	Sand	0.8	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	10	ECO3GP9-10	7/18/2000	Sand	0.7	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	15	ECO3GP9-15	7/18/2000	Sand	0.1	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
10	2	ECO3GP10-02	7/18/2000	Sand	5.7	10	266	276,000	0.500	0.100	0.100	0.100	0.100	0.100
	5	ECO3GP10-05	7/18/2000	Sand	3.5	10	24	34,000	0.500	0.100	0.100	0.100	0.100	0.100
	10	ECO3GP10-10	7/18/2000	Sand	3.0	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	15	ECO3GP10-15	7/18/2000	Sand	4.2	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
11	2	ECO3GP11-02	7/18/2000	Sand	0.0	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	5	ECO3GP11-05	7/18/2000	Sand	1.6	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	10	ECO3GP11-10	7/18/2000	Sand	0.0	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	15	ECO3GP11-15	7/18/2000	Sand	0.0	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
12	2	ECO3GP12-02	7/19/2000	Sand	7.6	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	5	ECO3GP12-05	7/19/2000	Sand	5.1	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	10	ECO3GP12-10	7/19/2000	Sand	2.3	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100
	15	ECO3GP12-15	7/19/2000	Sand	0	10	10	20,000	0.500	0.100	0.100	0.100	0.100	0.100

100 ppm Isobutylene calibration gas = 101 ppm

¹bgs - below ground surface²VOC-Volatile Organic Contaminants/Constituents³GRO-Gasoline Range Organics⁴DRO-Diesel Range Organics⁵TPH-Total Petroleum Hydrocarbon = GRO+DRO.⁶Bolded values are in excess of the New Mexico Oil Conservation Division guideline threshold for the parameter⁷Italicized values are < the instrument detection limit.⁸N/A Not Analyzed

Reported detection limits are considered "de minimus" values and are included in the GRO/DRO and BTEX summations.

E.O.T.T. Energy Pipeline Jalmat 3

Borehole	Sampling Interval (FT. BGS ¹)	SAMPLE ID#	Date Taken	Lithology	HEADSPACE VOC ² (ppm)	GRO ³ mg/Kg	DRO ⁴ mg/Kg	TPH ⁵ mg/Kg	BTEX mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethyl Benzene mg/Kg	m,p- Xylene mg/Kg	o-Xylene mg/Kg
13	2	ECO3GP13-02	7/19/2000	Sand	8.9	10	10	20.0	0.5	0.100	0.100	0.100	0.100	0.100
	5	ECO3GP13-05	7/19/2000	Sand	5.6	10	10	20.0	0.5	0.100	0.100	0.100	0.100	0.100
	10	ECO3GP13-10	7/19/2000	Sand	4.1	10	10	20.0	0.5	0.100	0.100	0.100	0.100	0.100
	15	ECO3GP13-15	7/19/2000	Sand	1.6	10	10	20.0	0.5	0.100	0.100	0.100	0.100	0.100
14	2	ECO3GP14-02	7/19/2000	Sand	1.6	271	9796	10067.0	0.5	0.100	0.100	0.100	0.100	0.100
	5	ECO3GP14-05	7/19/2000	Sand	1.2	50	2233	2283.0	0.5	0.100	0.100	0.100	0.100	0.100
	10	ECO3GP14-10	7/19/2000	Sand	1	10	10	20.0	0.5	0.100	0.100	0.100	0.100	0.100
	15	ECO3GP14-15	7/19/2000	Sand	0	10	10	20.0	0.5	0.100	0.100	0.100	0.100	0.100
15	2	ECO3GP15-02	7/19/2000	Sand	0	50	4454	4504.0	0.5	0.100	0.100	0.100	0.100	0.100
	5	ECO3GP15-05	7/19/2000	Sand	0	10	378	388.0	0.5	0.100	0.100	0.113	0.106	0.100
	10	ECO3GP15-10	7/19/2000	Sand	0	10	10	20.0	0.5	0.100	0.100	0.100	0.100	0.100
	15	ECO3GP15-15	7/19/2000	Sand	0	10	10	20.0	0.5	0.100	0.100	0.100	0.100	0.100

100 ppm Isobutylene calibration gas = 101 ppm

¹bgs - below ground surface²VOC-Volatile Organic Contaminants/Constituents³GRO-Gasoline Range Organics⁴DRO-Diesel Range Organics⁵TPH-Total Petroleum Hydrocarbon = GRO+DRO.⁶Bolded values are in excess of the New Mexico Oil Conservation Division guideline threshold for the parameter⁷Italicized values are < the instrument detection limit.⁸N/A Not Analyzed

Reported detection limits are considered "de minimus" values and are included in the GRO/DRO and BTEX summations.





Environmental Protection, Inc. 1000 West 10th Street, Suite 100, Anchorage, Alaska 99501
Phone: 907 561 1000 FAX: 907 561 1011

ANALYTES REQUESTED:

DATE: 9/15 555 C190

SITE: 9/15 084 345L

Wayne Brunette

Client Name & Address

Clay Osburn Site 3

Project Name:

Sampler Signature:

Cathy Miller

Project Location: Sec 12 T25S R36E

LAB# (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX							PRESERVATIVE METHOD				SAMPLING	
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HIIO3	ICE	HOHE	OTHER	TIME	DATE	TIME
28350	20036P7-10	1		X							X				7/17	330
28351	20036P7-15	1		X							X				7/17	330
28352	20036P7-02	1		X							X				7/18	855
28353	20036P7-05	1		X							X				7/18	915
28354	20036P7-10	1		X							X				7/18	930
28355	20036P7-15	1		X							X				7/18	1000
28356	20036P8-02	1		X							X				7/18	1015
28357	20036P8-05	1		X							X				7/18	1030
28358	20036P8-10	1		X							X				7/18	1045
28359	20036P8-15	1		X							X				7/18	1055
28360	20036P9-02	1		X							X				7/18	1115

TECP Metals Ag As Ba Cd Cr Pb Hg Se	TECP Volatiles	TECP Semi Volatiles	TCIS	HCI
TPH 10.15	TEX H120/5130			

REMARKS: 116 OF

Relinquished by:	Date:	Time:	Received by:
Cathy Miller	7-20-00	1430	Rel. Clark
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

4-6

ENVIRONMENTAL PROTECTORS, INC. 100 South 10th Street, Suite 100, St. Louis, MO 63104
Tel: (314) 561-1600 Fax: (314) 561-1614

Phone: 915 555 0190
Fax: 915 484 3450

Wayne Bravette
Company Name & Address

Clay Osborn Site 3
Project Name:

East
Project #:

Project Location: Sec 12 T25S R36E

Sampler Signature:

Cady Miller

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX								PRESERVATIVE METHOD						DATE	TIME	UTEX #020/500	FPI #11	TCIP Metals Ag	Total Metals Ag	TCIP Volatiles	TCIP Semi Volat	THS	HCL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
				WATER	SOIL	AIR	SLUDGE	OTHER	HC	THIO	ICE	LIQ	OTHER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
28361	EC036P9-05	1		X									X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													

ANALYSIS REQUEST

TCIP Metals Ag As Ba Cd Cr Pb Hg Se	TCIP Volatiles	TCIP Semi Volatiles	TDS	HCl
TPH	8015	8015		

REMARKS 110 OF

Received by: *Reluctant*

Time: 1430

Date: 7-20-00

Relinquished by: *Cady Miller*

Relinquished by:

Relinquished by:

3-6

Environmental Soil Tests, Inc. 100 South Main Street, Suite 100, Portland, ME 04101
Tel: (603) 563-1600 Fax: (603) 563-1601

ANALYSIS REQUEST

Phone #: 915 555 0190
Fax #: 915 684 3452

Wayne Brunette

Company Name & Address

Soil

Project #:

Clay Osborn Site 3

Project Name:

Sampler Signature:

Cathy Miller

Project Location Sec 12 T25S R36E

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX						METHOD					SAMPLING		UTEX #020/5030	TPH #18-1	TCIP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCIP Volatiles	TCIP Semi Volatiles	TDS	HCL	
				WATER	SOIL	ALL	SLUDGE	OTHER	HCL	LIHIO3	ICE	LIHIOE	OTHER	DATE	TIME										
28372	20036P12-02	1		X								X			7/19	800	X	X							
28373	20036P12-05	1		X								X			7/19	820	X	X							
28374	20036P12-10	1		X								X			7/19	840	X	X							
28375	20036P12-15	1		X								X			7/19	900	X	X							
28376	20036P13-02	1		X								X			7/19	920	X	X							
28377	20036P13-05	1		X								X			7/19/000		X	X							
28378	20036P13-10	1		X								X			7/19/040		X	X							
28379	20036P13-15	1		X								X			7/19/100		X	X							
28380	20036P14-02	1		X								X			7/19/120		X	X							
28381	20036P14-05	1		X								X			7/19/120		X	X							
28382	20036P14-10	1		X								X			7/19/140		X	X							

REMARKS

REMARKS 116 UF

Received by: Rebecca Job

Time: 1430

Date: 7-20-00

Requested by: Cathy Miller

Received by:

Time:

Date:

Requested by:

Received by:

Time:

Date:

Requested by:

6-6

ENVIRONMENTAL PROTECT, INC. 1000 South 20th Ave. Suite 100, Denver, CO 80202
Tel: 303.733.0000 Fax: 303.733.0001

ANALYSIS REQUEST

Phone # 915 555 0190

FAX # 915 684 3450

Wayne Brunette

Company Name & Address

Est

Project #:

Clay Osborn Site 3

Project Name:

Sampler Signature:

Cady Miller

Project Location: Sec 12 T25S R36E

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX						PRESERVATIVE METHOD				SAMPLING		TIME	DATE	DTEX #020/5000	TRI #1	TCIP Metals Ag	Total Metals Ag	TCIP Volatiles	TCIP Semi Vol	TOS	HCL
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	ICE	HOPE	OTHER												
28383	20036P15-15	1		X								X			7-19	200	X	X							
28384	20036P15-02	1		X								X			7-19	220	X	X							
28385	20036P15-05	1		X								X			7-19	240	X	X							
28386	20036P15-10	1		X								X			7-19	300	X	X							
28387	20036P15-15	1		X								X			7-19	320	X	X							
20036P		1		X								X													
		1		X								X													
		1		X								X													
		1		X								X													
		1		X								X													
		1		X								X													
20036P		1		X								X													
		1		X								X													
		1		X								X													
		1		X								X													
20036P		1		X								X													
		1		X								X													

REMARKS 05

REMARKS 110 OF

Received by: Red-ck for

Time: 1430

Date: 7-20-00

Relinquished by:

Cady Miller

Relinquished by:

Time:

Date:

Relinquished by:

Time:

Date:

Received by:

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: Soil
Sample Condition: Intact/ 116 deg. F
Project #: None Given
Project Name: Clay Osborn Site 3
Project Location: Site 12, T25S, R36E

Sampling Date: 07/17/00
Receiving Date: 07/20/00
Analysis Date: 07/20/00

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
28328	ECO3GP1-02	<0.100	0.147	<0.100	0.179	0.133
28329	ECO3GP1-05	<0.100	<0.100	<0.100	<0.100	<0.100
28330	ECO3GP1-10	<0.100	<0.100	<0.100	<0.100	<0.100
28331	ECO3GP1-15	<0.100	<0.100	<0.100	<0.100	<0.100
28332	ECO3GP2-02	<0.100	<0.100	<0.100	<0.100	<0.100
28333	ECO3GP2-05	<0.100	<0.100	<0.100	<0.100	<0.100
28334	ECO3GP2-10	<0.100	<0.100	<0.100	<0.100	<0.100
28335	ECO3GP2-15	<0.100	<0.100	<0.100	<0.100	<0.100

% IA	88	90	88	100	92
% EA	86	84	86	94	86
BLANK	<0.100	<0.100	<0.100	<0.100	<0.100

METHODS: SW 846-8021B, 5030


Raland K. Tuttle

7-28-00
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)

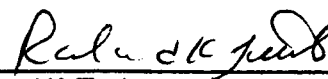
Sample Type: Soil
Sample Condition: Intact/ 116 deg. F
Project #: None Given
Project Name: Clay Osborn Site 3
Project Location: Site 12, T25S, R36E

Sampling Date: See Below
Receiving Date: 07/20/00
Analysis Date: 07/21/00

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg	SAMPLE DATE
28336	ECO3GP3-02	<0.100	0.174	0.116	0.153	0.128	07/17/00
28337	ECO3GP3-05	<0.100	0.127	<0.100	<0.100	<0.100	07/17/00
28338	ECO3GP3-10	<0.100	0.181	<0.100	<0.100	<0.100	07/17/00
28339	ECO3GP3-15	<0.100	0.235	<0.100	0.188	0.108	07/17/00
28340	ECO3GP4-02	<0.100	0.196	0.105	0.521	0.198	07/17/00
28341	ECO3GP4-05	<0.100	0.186	0.107	<0.100	<0.100	07/17/00
28342	ECO3GP4-10	<0.100	<0.100	<0.100	<0.100	<0.100	07/17/00
28343	ECO3GP4-15	<0.100	0.136	<0.100	<0.100	<0.100	07/17/00
28344	ECO3GP5-02	<0.100	<0.100	<0.100	<0.100	<0.100	07/17/00
28345	ECO3GP5-05	<0.100	0.128	<0.100	<0.100	<0.100	07/17/00
28346	ECO3GP5-10	<0.100	<0.100	<0.100	<0.100	<0.100	07/17/00
28347	ECO3GP5-15	<0.100	0.192	<0.100	<0.100	<0.100	07/17/00
28348	ECO3GP6-02	<0.100	0.130	<0.100	<0.100	<0.100	07/17/00
28349	ECO3GP6-05	<0.100	<0.100	<0.100	<0.100	<0.100	07/17/00
28350	ECO3GP6-10	<0.100	<0.100	<0.100	<0.100	<0.100	07/17/00
28351	ECO3GP6-15	<0.100	<0.100	<0.100	<0.100	<0.100	07/17/00
28352	ECO3GP7-02	<0.100	<0.100	<0.100	<0.100	<0.100	07/18/00
28353	ECO3GP7-05	<0.100	<0.100	<0.100	<0.100	<0.100	07/18/00
28354	ECO3GP7-10	0.153	0.133	<0.100	<0.100	0.106	07/18/00
28355	ECO3GP7-15	<0.100	<0.100	<0.100	<0.100	<0.100	07/18/00

% IA	89	86	86	94	87
% EA	85	81	88	98	90
BLANK	<0.100	<0.100	<0.100	<0.100	<0.100

METHODS: SW 846-8021B,5030


Raland K. Tuttle

7-28-00
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)

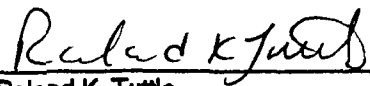
Sample Type: Soil
Sample Condition: Intact/ 116 deg. F
Project #: None Given
Project Name: Clay Osborn Site 3
Project Location: Site 12, T25S, R36E

Sampling Date: See Below
Receiving Date: 07/20/00
Analysis Date: 07/22/00

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg	SAMPLE DATE
28356	ECO3GP8-02	<0.100	<0.100	<0.100	<0.100	<0.100	07/18/00
28357	ECO3GP8-05	<0.100	<0.100	<0.100	0.262	<0.100	07/18/00
28358	ECO3GP8-10	<0.100	<0.100	<0.100	<0.100	<0.100	07/18/00
28359	ECO3GP8-15	<0.100	<0.100	<0.100	<0.100	<0.100	07/18/00
28360	ECO3GP9-02	<0.100	<0.100	<0.100	<0.100	<0.100	07/18/00
28361	ECO3GP9-05	<0.100	<0.100	<0.100	<0.100	<0.100	07/18/00
28362	ECO3GP9-10	<0.100	<0.100	<0.100	<0.100	<0.100	07/18/00
28363	ECO3GP9-15	<0.100	<0.100	<0.100	<0.100	<0.100	07/18/00
28364	ECO3GP10-02	<0.100	<0.100	<0.100	<0.100	<0.100	07/18/00
28365	ECO3GP10-05	<0.100	<0.100	<0.100	<0.100	<0.100	07/18/00
28366	ECO3GP10-10	<0.100	<0.100	<0.100	<0.100	<0.100	07/18/00
28367	ECO3GP10-15	<0.100	<0.100	<0.100	<0.100	<0.100	07/18/00
28368	ECO3GP11-02	<0.100	<0.100	<0.100	<0.100	<0.100	07/18/00
28369	ECO3GP11-05	0.157	<0.100	<0.100	<0.100	<0.100	07/18/00
28370	ECO3GP11-10	<0.100	<0.100	<0.100	<0.100	<0.100	07/18/00
28371	ECO3GP11-15	<0.100	<0.100	<0.100	<0.100	<0.100	07/18/00
28372	ECO3GP12-02	<0.100	<0.100	<0.100	<0.100	<0.100	07/19/00
28373	ECO3GP12-05	<0.100	<0.100	<0.100	<0.100	<0.100	07/19/00
28374	ECO3GP12-10	<0.100	<0.100	<0.100	<0.100	<0.100	07/19/00
28375	ECO3GP12-15	<0.100	<0.100	<0.100	<0.100	<0.100	07/19/00

% IA	89	85	87	95	88
% EA	92	89	91	102	92
BLANK	<0.100	<0.100	<0.100	<0.100	<0.100

METHODS: SW 846-8021B,5030


Ralad K. Tuttle

7-28-00
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)

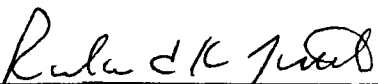
Sample Type: Soil
Sample Condition: Intact/ 116 deg. F
Project #: None Given
Project Name: Clay Osborn Site 3
Project Location: Site 12, T25S, R36E

Sampling Date: 07/19/00
Receiving Date: 07/20/00
Analysis Date: 07/22/00

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
28376	ECO3GP13-02	<0.100	<0.100	<0.100	<0.100	<0.100
28377	ECO3GP13-05	<0.100	<0.100	<0.100	<0.100	<0.100
28378	ECO3GP13-10	<0.100	<0.100	<0.100	<0.100	<0.100
28379	ECO3GP13-15	<0.100	<0.100	<0.100	<0.100	<0.100
28380	ECO3GP14-02	<0.100	<0.100	<0.100	<0.100	<0.100
28381	ECO3GP14-05	<0.100	<0.100	<0.100	<0.100	<0.100
28382	ECO3GP14-10	<0.100	<0.100	<0.100	<0.100	<0.100
28383	ECO3GP14-15	<0.100	<0.100	<0.100	<0.100	<0.100
28384	ECO3GP15-02	<0.100	<0.100	<0.100	<0.100	<0.100
28385	ECO3GP15-05	<0.100	<0.100	0.113	0.106	<0.100
28386	ECO3GP15-10	<0.100	<0.100	<0.100	<0.100	<0.100
28387	ECO3GP15-15	<0.100	<0.100	<0.100	<0.100	<0.100

% IA	89	86	87	95	88
% EA	90	88	90	99	92
BLANK	<0.100	<0.100	<0.100	<0.100	<0.100

METHODS: SW 846-8021B,5030


Raland K. Tuttle

7-28-00
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

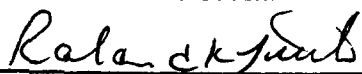
EOTT ENERGY
ATTN: MR. WAYNE BRUNETTE
P.O. BOX 1660
MIDLAND, TEXAS 79703
FAX: 915-684-3456
FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil
Sample Condition: Intact/ 116 deg. F
Project #: None Given
Project Name: Clay Osborn Site 3
Project Location: Sec 12, T25S, R36E

Sampling Date: 07/17/00
Receiving Date: 07/20/00
Analysis Date: 07/23/00

ELT#	FIELD CODE	GRO	DRO
		C6-C10 mg/kg	>C10-C28 mg/kg
28328	ECO3GP1-02	<10	3193
28329	ECO3GP1-05	<10	<10
28330	ECO3GP1-10	<10	<10
28331	ECO3GP1-15	<10	<10
28332	ECO3GP2-02	<10	<10
28333	ECO3GP2-05	<10	<10
28334	ECO3GP2-10	<10	<10
28335	ECO3GP2-15	<10	<10
28336	ECO3GP3-02	<10	11
28337	ECO3GP3-05	<10	<10
28338	ECO3GP3-10	<10	<10
28339	ECO3GP3-15	<10	<10
28340	ECO3GP4-02	<10	<10
28341	ECO3GP4-05	<10	<10
28342	ECO3GP4-10	<10	<10
28343	ECO3GP4-15	<10	<10
28344	ECO3GP5-02	<10	<10
28345	ECO3GP5-05	<10	<10
28346	ECO3GP5-10	<10	<10
28347	ECO3GP5-15	<10	<10
28348	ECO3GP6-02	<10	<10
28349	ECO3GP6-05	<10	<10
28350	ECO3GP6-10	<10	<10
28351	ECO3GP6-15	<10	<10
% IA		66	70
% EA		79	84
BLANK		<10	<10

METHODS: SW 846-8015M


Raland K. Tuttle

7-28-00
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: Soil
Sample Condition: Intact/ 116 deg. F
Project #: None Given
Project Name: Clay Osborn Site 3
Project Location: Sec 12, T25S, R36E

Sampling Date: See Below
Receiving Date: 07/20/00
Analysis Date: 07/23/00

ELT#	FIELD CODE	GRO	DRO	SAMPLE DATE
		C6-C10 mg/kg	>C10-C28 mg/kg	
28352	ECO3GP7-02	<10	<10	07/18/00
28353	ECO3GP7-05	<10	<10	07/18/00
28354	ECO3GP7-10	<10	<10	07/18/00
28355	ECO3GP7-15	<10	<10	07/18/00
28356	ECO3GP8-02	<10	<10	07/18/00
28357	ECO3GP8-05	<10	<10	07/18/00
28358	ECO3GP8-10	<10	<10	07/18/00
28359	ECO3GP8-15	<10	<10	07/18/00
28360	ECO3GP9-02	<10	<10	07/18/00
28361	ECO3GP9-05	<10	<10	07/18/00
28362	ECO3GP9-10	<10	<10	07/18/00
28363	ECO3GP9-15	<10	<10	07/18/00
28364	ECO3GP10-02	<10	266	07/18/00
28365	ECO3GP10-05	<10	24	07/18/00
28366	ECO3GP10-10	<10	<10	07/18/00
28367	ECO3GP10-15	<10	<10	07/18/00
28368	ECO3GP11-02	<10	<10	07/18/00
28369	ECO3GP11-05	<10	<10	07/18/00
28370	ECO3GP11-10	<10	<10	07/18/00
28371	ECO3GP11-15	<10	<10	07/18/00
28372	ECO3GP12-02	<10	<10	07/19/00
28373	ECO3GP12-05	<10	<10	07/19/00
% IA		84	92	
% EA		88	87	
BLANK		<10	<10	

METHODS: SW 846-8015M


Raland K. Tuttle

7-28-00
Date

ENVIRONMENTAL LAB OF , INC.

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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: Soil
Sample Condition: Intact/ 116 deg. F
Project #: None Given
Project Name: Clay Osborn Site 3
Project Location: Sec 12, T25S, R36E

Sampling Date: 07/19/00
Receiving Date: 07/20/00
Analysis Date: 07/24/00

ELT#	FIELD CODE	GRO	DRO
		C6-C10 mg/kg	>C10-C28 mg/kg
28374	ECO3GP12-10	<10	<10
28375	ECO3GP12-15	<10	<10
28376	ECO3GP13-02	<10	<10
28377	ECO3GP13-05	<10	<10
28378	ECO3GP13-10	<10	<10
28379	ECO3GP13-15	<10	<10
28380	ECO3GP14-02	271	9796
28381	ECO3GP14-05	<50	2233
28382	ECO3GP14-10	<10	<10
28383	ECO3GP14-15	<10	<10
28384	ECO3GP15-02	<50	4454
28385	ECO3GP15-05	<10	378
28386	ECO3GP15-10	<10	<10
28387	ECO3GP15-15	<10	<10

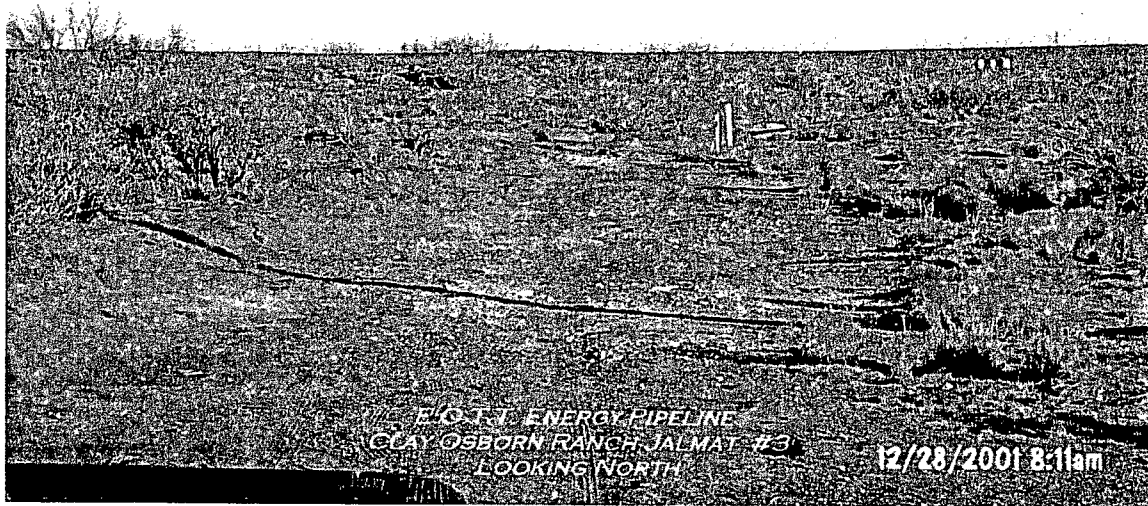
% IA	88	112
% EA	88	87
BLANK	<10	<10

METHODS: SW 846-8015M


Roland K. Tuttle

7-28-00
Date

ATTACHMENT IV: PHOTOGRAPHS



ATTACHMENT V: SITE INFORMATION AND METRICS FORM

Site Information and Metrics

SITE: Clay Osborn Jalmat #3		Assigned Site Reference #2000-10610	
Company: EOTT Energy Pipeline			
Company Street Address: 5805 E. Highway 80, Midland, Texas 79701			
Company Mailing Address: P.O. Box 1660			
Company City, State, Zip: Midland, Texas 79702			
Company Representative: Wayne Brunette			
Company Representative Telephone: 915.553.7557			
Company Telephone: 915.684.3479 Fax: 915.684.3456			
Fluid volume released (bbls) = ?			
>25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days. (Also applies to unauthorized releases >500 mcf Natural Gas)			
5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas)			
Leak, Spill, or Pit (LSP) Name: Clay Osborn Jalmat #3			
Source of contamination: Pipe Line			
Land Owner, i.e., BLM, ST, Fee, Other: Clay and Gerry Osborn			
LSP Dimensions: affected area = 200' X 35'			
LSP Area = 4,490 ft ²			
Latitude: 32° 08 ' 16 "N			
Longitude: 103° 12 ' 38"W			
Elevation above mean sea level: ~3,161'amsl			
Location- Unit or 1/4 1/4: SW 1/4 of SW 1/4 UL-M			
Location- Section = 7			
Location- Township = 25S			
Location- Range = 37E			
Surface water body within 1000' radius of site: None			
Domestic water wells within 1000' radius of site: None			
Agricultural water wells within 1000' radius of site: None			
Public water supply wells within 1000' radius of site: None			
Depth from land surface to ground water (DG): ~55			
Depth of contamination (DC): 10'bgs			
Depth to ground water (DG - DC = DtGW) 45' bgs			
1. Ground Water	2. Wellhead Protection Area	3. Distance to Surface Water Body	
If Depth to GW <50 feet: 20 points	If <1000' from water source, or; <200' from private domestic water source: 20 points If >1000' from water source, or; >200' from private domestic water source: 0 points	<200 horizontal feet: 20 points	
If Depth to GW 50 to 99 feet: 10 points		200-100 horizontal feet: 10 points	
If Depth to GW >100 feet: 0 points		>1000 horizontal feet: 0 points	
Ground water Score = 20	Wellhead Protection Area Score = 0	Surface Water Score = 0	
Site Rank (1+2+3) = 20 + 0 + 0 = 20 points			
Total Site Ranking Score and Acceptable Concentrations			
Parameter	>19		
Benzene ¹	10 ppm		
BTEX ¹	50 ppm		
PH	100 ppm		
100 ppm field VOC headspace measurement may be substituted for lab analysis			