AP-29

STAGE 1 & 2 WORKPLANS

DATE:
July, 2001

E.O.T.T. ENERGY PIPELINE

SOIL AND GROUND WATER REMEDIATION PLAN

FOR THE

KIMBROUGH SWEET SITE Ref.# 2000-10757

SW¹/₄ NE¹/₄ Sec3, T18S, R37E, ~1.8 miles west of Humble City and 7 mile northwest of Hobbs Lea County, New Mexico Latitude: 32°46'48"N Longitude: 103°14'18"W

July 2001

Prepared by

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1.0 INTRODUCTION

Environmental Plus, Inc. (EPI), on behalf of E.O.T.T. Energy Corp. (EOTT), hereby submits this Soil and Ground Water Remediation Plan for the Kimbrough Sweet Site located in Lea County, in Unit Letter G, Section 3, Township 18 South, Range 37 East. This plan will serve as a "Work Plan Supplement" as referenced in the draft "General Work Plan for Remediation of EOTT Pipeline Spills, Leaks, and Releases in New Mexico" approved by the New Mexico Oil Conservation Division (NMOCD) on August 1, 2000.

2.0 "EOTT POINT OF CONTACT"

The EOTT "Point of Contact" for this project is:

Mr. Frank Hernandez
District Environmental Supervisor
E.O.T.T. Energy Pipeline
5805 E. Highway 80, Midland, Texas 79701
P.O. Box 1660, Midland, Texas 79702

3.0 PRELIMINARY INVESTIGATION

The initial New Mexico Oil Conservation Division (NMOCD) notification form C-141 submitted to the NMOCD by EOTT reported an unknown volume of crude oil released with 0 barrels recovered. Soil borings at the site, delineated a crude oil contaminated soil column in excess of the NMOCD remedial goals approximately 120' in diameter centered around the leak origin extending vertically to the ground water. At 22' thickness of non-aqueous phase hydrocarbon was observed on the surface of the ground water at approximately 47' bgs in excess of 20 NMAC 6.2.3103, i.e., "Non-aqueous phase liquid shall not be present floating atop or immersed within ground water, as can be reasonably measured." Consistent with the notification requirements of 19 NMAC 15.116, the NMOCD offices in Santa Fe and Hobbs, New Mexico were notified of the impact on March 5, 2001. The sample location map, original laboratory analytical reports, data summaries, and illustrations are provided in Attachment I.

3.1 MITIGATION

To mitigate continued ground water impact, the decision was made May 2001 to excavate the grossly contaminated soil down to the 15'bgs interval, shred to aerate, apply bio-remediation accelerants, and stockpile on 10 mil plastic and is consistent with the soil remediation strategy discussed in section 3.2. The initial soil volume estimate was based on the affected area perimeter and was calculated to be 8.674 yd³, however during excavation of the site, an additional 7,869 yd³ of contaminated soil was identified and removed.

3.2 SOIL REMEDIATION STRATEGY

The most reasonable remediation strategy is one that considers effectiveness, timeliness, efficiency, and safety of the process. For the purpose of discussion, removal of 100% of the source term would require an excavation with ramped ingress/egress to be constructed with a diameter of at least 225' and depth of 47'. For an excavation >20'bgs, the Occupational Safety and Health Administration (OSHA) requires that a Professional Engineer design and certify an excavation safety plan. Sloping and benching requires moving clean soil. Similarly, deep excavations require extended periods of time to complete. While removal is the most effective remediation alternative it is not appropriate for this site because it is not timely, efficient, nor inherently safe. It is reasonable

therefore to manage the near surface contaminated soil, i.e., <15'bgs differently than contaminated soil >15'bgs. It is proposed to install an impermeable compacted clay barrier at the 15'bgs interval to isolate the soil >15'bgs. The treated soil currently stockpiled on site will be place on top of the barrier forming an "in-situ" passive bio-cell. The barrier provides the necessary containment of igration of the source terms and provides tor and supports a viable of the remaining source term on either side of the barrier.

Now the Remediation of Soil > 15'bgs

Remediation of Soil > 15'bgs

Remediation of Soil > 15'bgs vertical migration of the source terms and provides for and supports a viable conservative "risk assessment" of the remaining source term on either side of the barrier.

3.2.1

It is proposed that an oversized compacted impermeable clay barrier be installed above the source term at roughly the 15' bgs interval to isolate the crude oil contaminated soil >15'bgs. The barrier will be installed in 1-foot thick lifts with the density of each lift tested to be at least 95% of the Proctor for the clay. Currently, it is contemplated to remediate the contaminated soil >15'bgs by installing a vapor recovery-system-with-a-single-extraction-point-and-eight perimeter induction points with alternating screened intervals. Monthly monitoring of the exhaust with a calibrated photoionization detector (PID) will document attenuation.

3.2.2 Remediation of Soil <15'bgs Work During the Mitigation Phase of the project, contaminated soil was excavated, mechanically shredded and aerated, and treated with bio-enhancing nutrients and microbes. Currently this soil is stockpiled on plastic within the fenced site. The attenuation process has begun. It is proposed that this treated soil-be placed back into the exeavated area-overlaying the impermeable barrier to be install at 15 bgs. The bio-cell thus constructed would be monitored quarterly to document attenuation and ultimate achievement of the NMOCD remedial goals. The development of a conservative "risk assessment" taking credit for the barrier may indicate acceptable concentrations for the constituents of concern, i.e., Total Petroleum Hydrocarbon, Benzene, Toluene, Ethylbenzene, and Xylenes that are >the NMOCD guideline thresholds.

3.3 INTERIM GROUND WATER INVESTIGATION

To guide the placement of the extraction/recovery wells, it is necessary to install 3 perimeter monitor wells as soon as possible. These wells will provide, after the engineered survey, accurate references for determining the strike and dip of the ground water gradient at the site. The proposed locations form a triangle with one up dip and two down dip of the assumed ground water gradient. The well siting map is included as Attachment II. Plume delineation wells will also be installed.

1 Sppwod 3.4 PRODUCT RECOVERY

Subsequent to the installation of the perimeter monitor wells, the recovery system well locations will be proposed and after consensus with the NMOCD, installed and activated. The recovery pumps will be pneumatically powered internally sensing skimmer-type-pumps-capable-of up to two gallons per minute and should initially minimize water production. These wells will also serve as ground water monitor wells to define the initial contamination plume and quarterly monitoring access points. All wells are to be 4" PVC installed according to the RCRA monitoring well guidelines consistent with the NMOCD protocols.

3.5 GROUND WATER REMEDIATION

As product recovery decreases and ground water increases, it is proposed that the water be aerated and reintroduced into the saturated-zone. This will promote volatilization and bio-attenuation.

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eurp pond (lined)

heads DP + Class II well SOIL AND GROUND WATER REMEDIATION PLAN

how it off

los poms

4.0 SITE GENERATED WASTES

Wastes generated during installation, investigation, monitoring, and recovery activities will be contained appropriately and disposed of in an approved NMOCD facility. If a waste has a recycling potential, the NMOCD will be petitioned to do so.

5.0 QUALITY ASSURANCE PROJECT PLAN

This Quality Assurance Plan (QAP) will ensure the quality and usability of information and data used to support a successful site investigation and subsequent environmental management decisions.

5.1 PROJECT SAFETY

Hazards that will be encountered at this site include the following;

- Moving equipment
- Buried pipelines
- Rotary Equipment
- Highway ingress/egress
- Excavation
- Potential Hydrogen Sulfide Gas

Prior to drilling or excavation, NEW MEXICO ONE CALL will be notified of activities, who will provide a list of Companies they will notify and a ONE CALL confirmation number. Employees and subcontractors will be required to confirm current training in these hazards. Standard personal protective equipment will include;

- Personal H₂S Monitor
- Hard-hat
- Steel Toed Boots/Shoes and gloves

5.1.1 Historical Use

The area has been used historically for livestock grazing and access to oil and gas production facilities.

5.1.2 Site Description

The site is owned by Gerald Pistole, situated in the SW¼ of the NE¼ of Sec3, T18S, R37E, and is ~1.8 miles west of Humble City and 7 mile northwest of Hobbs, Lea County, New Mexico. The Latitude is 32°46′48″N and Longitude 103°14′18″W. The EOTT site reference identification number is "2000-10757." The visibly contaminated surface area, i.e., 15,613 ft² was presumed initially to be the horizontal extent of contamination. The leak occurred in a low area with an active population of "Black-tailed Prairie Dogs." The line apparently failed due to internal-corrosion and was repaired with a line clamp. Following repair, an estimated 1200 yd³ of the saturated surface soil was pushed into a pile in the affected area.

5.1.3 Ecological Description

The area is typical of the Lower Great Plains Biome consisting primarily of Honey Mesquite (Prosopis glandulosa) along with typical desert grasses and weeds. Netleaf Hackberry trees occur in the lower drainages. Mammals represented include Orrd's and Merriam's Kangaroo Rat, Deer Mouse, White Throated Wood Rat, Cottontail Rabbit, Black-tailed Prairie Dog, 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.

5.2 ENVIRONMENTAL MEDIA CHARACTERIZATION

Chemical parameters of the soil and ground water will be characterized consistent with the New Mexico Oil Conservation Division (NMOCD) guidelines published in the following documents as applicable;

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

Normally acceptable thresholds for contaminants of concern (CoC), i.e., TPH and BTEX are determined based on the following;

- 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 down gradient surface water bodies.

However, site-specific-risk-based thresholds-will-be-developed.

QA?

5.2.1 Area Ground Water Levels

According to the New Mexico State Engineers Office, the uppermost aquifer is the Ogallala and occurs in the area between 36' and 47' bgs. The water level at the site is 47.3'bgs.

5.2.2 Water Well Inventory

The New Mexico State Engineers Office in Roswell, New Mexico has the following wells recorded. There are no wells recorded in Section 3 T18S and R37E.

Township	Range	Section	Feet bgs
18S	37E	1	47
18S	37E	5	36
17S	37E	34	76
17S	37E	34	62
17S	37E	34	55
17S	37E	34	60

5.2.3 Water Wells Actually or Potentially Affected by the Pollution Included in Attachment IV is a map of area wells. A reconnaissance survey will be conducted to identify unknown or actually or potentially affected water wells in the area.

5.2.4 Aquifer Recharge

The Ogallala in this region is maintained through surface recharge during precipitation events.

5.2.5 Depth to Ground Water Calculation

The NMOCD requires the site be ranked to determine which soil TPH threshold will apply and defines depth to ground water as, "the vertical distance from the lowermost contaminants to the seasonal high water elevation of the ground water." The uppermost occurrence of ground water is at 47.3'bgs. The lower most contamination occurs at the interface of the vadose zone and the water table. The calculated NMOCD depth to ground water is essentially 0.0' bgs.

5.2.6 Ground Water Gradient

The spill area is located within a southeastwardly trended drainage. The ground water gradient is expected to have a similar tilt.

5.2.7 Wellhead Protection Area

There are no water wells within 1000' of the site. 1 nule?

5.2.8 Distance to Nearest Surface Water Body None present.

5.2.9 Seasonal Stream Flow Characteristics

There are no streams located at the site, however, during rain events the site drains southeastward down the valley/draw.

5.3 DATA QUALITY OBJECTIVES

For analytical information derived from samples, the following quality controls will be documented and verified. If data is within the specifications it will be deemed quantitative and acceptable for use in making environmental management decisions.

- Laboratory data must have extraction recovery for TPH, BTEX and general chemistry parameters ≤30.0%. Or a "%Extraction Accuracy" between 70 and 130%.
- Laboratory data must have <30% Relative Percent Difference or a "%Instrument Accuracy" between 70 and 130%.
- Field headspace analyses must be supported with instrument calibration data and calibration gas certification.

5.3.1 Methodology

Collecting representative site samples and information requires that the sampling and observational processes and procedures be implemented within strict bounds. These control procedures will further ensure the quality of site data and information and are consistent with the EOTT standard operating procedures as referenced in the NMOCD approved "General Work Plan for Remediation of EOTT Pipeline Spills, Leaks, and Releases in New Mexico." Likewise, personnel will implement standard environmental and occupational safety protocols.

5.3.1.1 Borehole Drilling, Lithologic Sampling, Logging, and Abandonment

Boreholes will be located strategically to best determine vertical and horizontal extent of contamination in the vadose zone and ground water. Borelogs will be developed for each boring noting site lithology. Likewise, laboratory samples may be collected to determine more detailed lithologic characteristics, i.e., porosity, transmissivity, etc. Each borehole not developed into a

permanent monitor well will be plugged with Sodium Bentonite in accordance with the NMOCD guidelines.

5.3.1.1.1 General Drilling Procedures

The investigation will use the Environmental Plus, Inc. drill rig with hollow stem auger and "thin-wall probe" method of discrete sampling.

5.3.1.1.2 Soil Sampling and Logging

Upon advancing to the desired sampling interval the probe will be extended through the end of the hollow stem auger and pushed into the soil matrix to collect the sample. As the 1.5" X 48" stainless steel probe with a vinyl sampling sleeve is detached from the sampling bar, it will be immediately placed on the rack and logged. A 4 oz. sample will then be decanted into the sample jar for refrigeration and preparation with the remainder (~1 Kg) placed in a 1 gallon Ziplock bag, warmed to ambient ~ 70-80 °F and VOC Headspace concentration measured and recorded. All pertinent information will be recorded on the field borelog data sheet.

5.3.1.1.3 Monitor and Pollution Abatement Well Installation

Boreholes exhibiting contamination from the surface to ground water will be abandoned. Those advanced down gradient of the site for the purpose of plume delineation and found to be unimpacted will be completed and developed as monitor wells. Some boreholes may be temporarily abandoned, i.e., covered but not plugged, for future development as pollution abatement wells. The New Mexico State Engineers Office will be notified in writing of all pollution abatement well installations and water rights acquired. All monitor and pollution abatement wells will be installed and developed in accordance with the NMOCD guidelines.

5.3.1.1.4 Ground Water Sampling W Sooner H211
Ground water will be sampled within 24 hours of well development using a new and certifiably clean

Ground water will be sampled within 24 hours of well development using a new and certifiably clean one-liter weighted baler. The water will be immediately decanted into the appropriate containers and prepared for ascension to the laboratory.

Why?

5.3.1.1.5 Borehole Abandonment

The boreholes will be filled with a mixture of distilled water and Sodium Bentonite and a wooden marker denoting the borehole number driven into the center of each backfilled hole.

5.3.1.2 Sample Handling

Soil and water samples will be collected and prepared in accordance with accepted ASTM and EPA SW846 methods.

5.3.1.3 Sampling protocols

- 1. Decontaminate sampling equipment and area with Alconox distilled water after each sample.
- 2. Prepare samples and refrigerate as soon as practicable.

Duplicates or blanks may be submitted to the laboratory to establish reproducibility and identify laboratory contamination, respectively.

5.3.1.4 Sample Containers

Laboratory and field analyses of soil and water require specific containers and are listed in the matrix below.

	ТРН	BTEX	VOC Headspace	Metals	РАН	General Chemistry
Soil	4 oz. Jars with Teflon seal	4 oz. Jars with Teflon seal	1-gallon Ziplock® bags			
Water	1 liter amber glass w/HCL	2-40 ml VOA vials w/ HCL		16 oz. Plastic w/ 1ml HNO ₃	1 liter Amber Glass	1 liter Plastic

5.3.1.5 Sample Custody

All analytical request forms will be completed and signatured by EPI as sampler. EPI personnel will ascension the samples to the laboratory sample-receiving personnel under chain-of-custody signature.

5.3.1.6 Quality Control Samples

Quality control samples will be analyzed to ensure data quality.

5.3.1.6.1 Field Blank

A field blank for soil or water is not deemed necessary.

5.3.1.6.2 Equipment Blank

None will be collected.

5.3.1.6.3 Field Duplicate or Co-located Samples

For water and soil samples, one duplicate or co-located sample will be collected for analysis every 10^{th} sample.

5.3.1.6.4 Trip Blank

A laboratory prepared trip blank will accompany each water sample batch.

5.3.1.7 Field Measurements

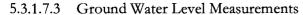
The VOC Headspace concentration for each soil sample will be measured. The instrument used will be the Ultra-Rae PID manufactured by Rae Systems. The calibration gas will be 100.0 ppm isobutylene standard from Scott Specialty Gases, Freemont, Colorado.

5.3.1.7.1 Equipment Calibration and Quality Control

The PID will be calibrated at least 3 times daily and checked with the calibration gas hourly. When a check with the calibration gas indicates the instrument reading is 10 ppm too high or low it will be calibrated. Variation in the daytime ambient temperature will cause the variation.

5.3.1.7.2 Equipment Maintenance and Decontamination

All sampling and survey equipment will be routinely decontaminated between samples. Nitrile gloves will be worn and changed with each sampling iteration.



Ground water levels will be taken with an accurate water level meter at each borehole where ground water is encountered and may require the use of an interface meter. Levels will be recorded as "feet below ground surface" to the nearest ".1 ft." and will be recorded as "TOC," i.e., top of casing.

5.3.1.8 Analyses

Soil and ground water will be analyzed in accordance with the following EPA Methods.

The analytical suite for soil samples will include;

- TPH (EPA method 8015M)
- RRO?
- BTEX (EPA method 8020 or equivalent)
- SPLP for selected samples

The analytical suite for water samples will include:

- TPH (EPA method 8015B)
- BTEX (EPA method 8021B)
- Total Dissolved Solids (EPA method 150.1)

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PAH (EPA method 8270)

5.3.1.9 Sample Identification

Sample identification numbers will be designated as follows;

Site: EOTT LL	Date	Borehole #	Interval bgs	Qualification: Cutting/Probe Sample
KS	June 3, 2001	1	20'	C or P

Example: KS6301BH1-20C

5.3.1.10 Data Evaluation

All data will be reviewed based on the Data Quality Objectives in section 3.8.1.

5.4 IDENTIFICATION OF REMEDIAL ACTION LEVELS

Typical remedial goals for soil in this area which would normally be in accordance with the NMOCD published guideline thresholds could justifiably be increased based on the site specific risk based assessment.

5.4.1 Site Ranking

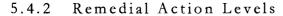
The area has the following score and site ranking;

Depth to Groundwater / <50° = 20

Wellhead Protection Area / <200' = 0

Distance to Surface Water Body $/ <200^{\circ} = 0$

Site Ranking = 20



The typical remedial-action objectives for soil at this site according to the NMOCD guidelines would be as follows.

- TPH 100 mg/Kg
- BTEX 50 mg/Kg
- Benzene 10 mg/Kg

However, sobjective site specific risk based thresholds will be developed The WQCC ground water MCLs for COCs will-apply-to-site-ground-water

5.5 MONITORING PROGRAM (19NMAC15.A.19.E(3)C)

The Monitoring Program will be a part of this Soil and Ground Water Remediation Plan. Data will be summarized into quarterly reports documenting progress and status and submitted to the NMOCD Environmental Bureau Santa Fe and Hobbs offices.

5.5.1 Ground Water Monitoring

The monitor wells installed at the site will be sampled at least quarterly for TPH and BTEX PSIA yr-1

5.5.2 Soil Bio-Cell Monitoring

The Bio-Cell soil will be monitored quarterly for TPH and BTEX. Saraples will be obtained at 5 bgs intervals in quadrants separated by the cardinal radians.

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Attachment I: Preliminary Assessment Information

					KIMBROUGH		SWEET DATA	A SUMMARY	IARY							
BOREHOLE/	SAMPLE	DATE	SAMPLING	1.THOLOGY	SAMPLE ID#		GRO' MG/KG	DRO ² MG/KG	GRO+DRO TPH ⁷ -	BTEX ³ MG/KG	BENZENE MG/KG	TOLUENE MG/KG	BENZENE MC/KG	M.P-XYLENE MG/KG	0-XYLENE MG/KG	CHLORIDE MG/KG
LOCATION	DESCRIPTION		(FT. BGS)			(Hdd)	DETECTION	V LIMIT IS CI	O MG/KG			DETECTION	V LIMITS ARE	V		
	DISCIBLTE	3/5/2001	2	BLACK OILY SAND	KSS350IBHI-2	164.7.0	2219	3654	5873	303,800	0.500	7'66	34.700		38.200	NA*
	DISCRETE	3/5/2001	S	LIGHT BROWN OILY SAND	KSS350IBHI-5	857.0	8253	00911	19853	1867.000	219.000	714.000	290.000	200 000	163.000	AN A
	DISCRETE	3/5/2001	01	LIGHT BROWN SAND	KSS350IBHI-10	1024.0	6655	0/9/	0220	00/.000	20.700	152 000	77 200	150 000	52 500	MA
	DISCRETE	3/5/2001	15	LIGHT BROWN SAND	KSS350IBHI-I5	0./041	345/	6260	8050	120 620	1020	23 600	25.300	53.200	17.500	AN
BOREHOLE	DISCRETE	3/5/2001	20	BROWN/GRAY SAND	NSSSSSSIBHI-20	1200.0	2278	1,517	6790	267 540	8.040	83.400	76.600	96.200	33.300	NA
	DISCRETE	3/5/2001	9 5	DOORN SAND	KSS35000BHI-30	1158.0	7510	8/35	12345	374.200	13.500	127.000	63.300	151.000	39.400	NA
	DISCRETE	2/5/2001	35	BOOMN SAND	KSS350IBHI-35	1300.0	2870	5324	7618	319,120	7.420	105.000	21.400	117.000	38,500	NA
	DISCHETE	3/5/2001	000	BEDWIN SAND	KSSTFOIRHI-40	1075.0	3369	6993	10382	242.580	8.180	72.700	40.300	89,900	31.500	NA
	DISCRETE	3/5/2001	1,5	BROWN SAND	KSS350IBHI-45	0.0401	3140	5980	9120	312,900	11.700	100.000	76.300	114.000	37.900	NA
	DISCRETE	#////2001	} ~	BI ACK OILY SAND	KSS31401BH2-2	1464.0	5752	18316	24068	668.800	007.89	269.000	70.000	200.000	007.19	NA
	DISCOUTE	3/14/2001	ı ıc	LIGHT BROWN OILY SAND	KSS31401BH2-5	1777.0	4312	1965	10273	245,900	62.300	214.000	62.200	164.000	43.400	NA
	DISCHETE	3/14/2001	0	LIGHT BROWN SAND	KSS31401BH2-10	1393.0	5276	4739	7288	343,700	25.200	112.000	51.300	120.000	35.200	d Z
	DISCRETE	3/14/2001	12	LIGHT BROWN SAND	KSS31401BH2-15	1653.0	3521	8474	11995	279.700	12.500	82.400	70,300	108.000	50,500	AN :
	DISCRETE	3/14/2001	20	LIGHT BROWN SAND	KSS31401BH2-20	1643.0	2762	10137	13084	194,020	3.120	48.800	33.800	000000	22.700	d 4
DOREHOLE Z	DISCRETE	3/14/2001	25	LIGHT BROWN SAND	KSS31401BH2-25	1121.0	5769	2610	8379	278.600	10.500	000 000	49.900	196,000	25 700	d x
	DISCRETE	3/14/2001	30	BROWN SAND	KSS31401BH2-30	914.0	334/	7859	6266	229.700	11.400	69 700	35,900	81 100	27.800	2 2
	DISCRETE	3/14/2001	35	BROWN SAND	KSS31401BH2-35	883.0	3233	7203	00430	262 / 50	0.000	115 000	23.000	100 000	1.8 500	2 2
	DISCRETE	3/14/2001	07	BROWN SAND	KSS3I40IBHZ-40	120.0	7007	02/0	0250	256 250	7 150	84 1.00	1.2 500	05.700	30.800	AN
	DISCRETE	3/14/2001	77	BROWN SAND	KSSSIGOIBHZ-45	0/0/0	2/34	4000	40730	507.660	8 81.0	72 ROO	58.000	120.000	78,000	NA
	DISCRETE	3/7/2001	2	BLACK OILY SAND	NSSS/UIBHS-2	1853.0	7532	11.81.5	22377	1115,000	000.79	347.000	205.000	372.000	127.000	AN
	DISCRETE	3/1/2001	0 5	BROWN/GRAY SAND	KCC370IBH3-ID	1805.0	6350	11377	17736	775.800	50.900	257.000	128.000	251.000	86.900	NA
	DISCHETE	1002/1/2	5 ñ.	BOOMN SAND	KSS370IBH3-I5	1664.0	9522	18515	27837	782.600	37,200	243.000	135.000	273,000	007.76	NA
	DISCRETE	3/7/2001	20	BROWN/GRAY SAND	KSS370IBH3-20	1981.0	4399	12818	71271	281,630	5,030	74.800	21.400	117.000	33,400	NA
BOREHOLE 3	DISCRETE	3/7/2001	25	TAN SAND	KSS370IBH3-25	1540.0	5321	6830	10151	278.160	7.160	94.500	700	95.400	41.600	AN .
	DISCRETE	3/7/2001	30	TAN SAND	KSS370IBH3-30	775.0	3257	8619	9455	359.200	007:01	127.000	007.10	118.000	000.20	d N
	DISCRETE	3/7/2001	35	TAN SAND	KSS370IBH3-35	627.0	68/	2179	12421	446 200	2 1.00	117.000	7.6 300	117.000	50.500	AN
	DISCRETE	3/7/2001	07	Tan Sand	KSSS/UIBHS-40	7007	505	20002	20597	251.570	4.870	83.900	35.300	90.500	37.000	NA
	DISCRETE	1002///2001	67	DIACO OLIVERAND	KSC370IBHL-2	0 %	168	810	978	8.243	00.100	2.070	0.593	2.920	2,560	NA
	DISCRETE	3///2001	4 16	BENWA/GRAY SAND	KSS370IBH4-5	7.11	80	435	453	0.169	0.025	0.043	0.028	870.0	0.025	NA
BORTHOLE L		3/7/2001	0	LIGHT BROWN SAND	KSS370IBH4-10	2.0	0	01	20	0.125	0.025	0.025	0.025	0.025	0.025	NA
		3/7/2001	15	LIGHT BROWN SAND	KSS370IBH4-15	77	0	0	50	0.134	0.025	750,0	0,070	0.025	0.000	AN AN
	DISCRETE	3/7/2001	20	TAN SAND	KSS37018H4-20	0.3	01	507	27.100	0.10	0.020	101 000	100 000	218 000	87.800	NA
	DISCRETE	3/13/2001		BLACK OILY SAND	Z-CHRIOCICSSN	0.0012	0000	17000	154.73	77.3 200	30.200	000 762	108.000	225.000	86.000	NA
	DISCRETE	3/13/2001	n <u>S</u>	DOGGEST SAND SAND DOCK	KSSSISOIBHS-ID	1767.0	2560	6432	8992	260.830	6.030	80.200	42.700	90.500	71.400	NA
	DISCHETE	3/13/2001		LIGHT BROWN SAND	KSS3I30IBH5-I5	1379.0	3372	10545	13917	168.800	0.500	73,000	28.600	65.900	32.800	NA
		3/13/2001		BROWN/GRAY SAND AND ROCK	E	1003.0	572	9/19	6748	6.681	0.500	0.851	1.080	2.950	1,300	NA
BOREHOLE 5		3/14/2001		LIGHT BROWN SAND	KSS31401BH5-25	1011.0	2698	5634	8332	255.230	7.630	90.600	59.200	79.200	58.500	d :
	DISCRETE	3/14/2001		BROWN SAND	KSS31401BH5-30	937.0	2761	5280	8041	294.510	8,410	104.000	42.400	96.500	45.200	g :
	DISCRETE	3/14/2001		LIGHT BROWN SAND	KSS31401BH5-35	924.0	2960	6188	8716	283.220	5.920	34,700	71 800	97 700	23.600	NA NA
	DISCRETE	3/14/2001		BROWN SAND	KSS3I40IBH5-40	787.0	2520	8181	110/8	535.390	12 500	172 000	90 600	195,000	65.500	NA
ALEXANDOR OF	DISCRETE	3/14/2001	7	BROWN SAND	KSSSI40IBH5-45	0.060	2530	1000	10182	326 7.20	1 820	00719	56 700	000 771	62.500	NA
31	DISCRETE	3/5/2001		BLACK OLLY SAND	KSSSSSIBHO-2	2275.0	2029	154.37	21729	728.360	7.360	207.000	120.000	287.000	107.000	NA
T. Commission Co.		2/2/2001	0 5	LOUT BOOMN SAND	KSS350IRH6-10	IIRR 0	708	2647	3355	28.670	0.250	3,300	5.920	12.200	7.000	NA
DOMENOLE O	Discrette	3/5/2001		TAN SAND	KSS350IBH6-I5	637.0	28	577	907	0.207	0.025	0.028	0.025	0.088	0.041	NA
No.	DISCORTE	3/5/2001		TAN SAND	KSS350IBH6-20	0.001	22	576	268	0,135	0.025	0.025	0.025	0.035	0.025	4Z
A PERSONAL PROPERTY.	DISCRETE	3/6/2001		BLACK OILY SAND	KSS360IBH7-2	128.0	50	279	308	0.753	0.025	0.025	0.097	0.255	0.351	NA
	DISCRETE	3/6/2001		BROWNISH GRAY SAND	KSS360IBH7-5	1881.0	1454	3780	5234	112.050	0.250	18.500	25.600	51.100	10.600	NA
BOREHOLE 7		3/6/2001	01	BROWNISH GRAY SAND	KSS360IBH7-10	1072.0	722	2640	3362	31.750	0.250	7.540	0.140	2 570	1.020	NA AN
		3/6/2001		GRAY SAND	KSS360IBH7-I5	382.0	139	919	755	8.170	00.100	0.64,1	1,550	3.030	076.1	NA NA
	DISCRETE	3/6/2001	1 20	GRAY SAND	KSSSeoigh/-20	1.64	70	017	070	0.70	1	A	200			

	BOPE HOLE/ SAMPLE OCATION			Brocure 8	CONTENSE O		· · · · · · · · · · · · · · · · · · ·		BOREHOLE 9			SUPFACE	UNTREATED	EXACAVATION WEST BOTTOM HOLE	EXCAVATION MIDDLE BOTTOM HOLE	EXCAVATION EAST BOTTOM HOLE	TREATED SPOILS SOUTH	TREATED SPOILS NORTH
	SAMPLE		DISCRETE	DISCRETE	DISCHETE	DISCRETE	DISCRETE	DISCRETE	DISCRETE	DISCRETE	DISCRETE	COMPOSITE	COMPOSITE				COMPOSITE	COMPOSITE
	DATE		3/6/2001	3/6/2001	3/6/2001	3/6/2001	3/6/2001	3/6/2001	5/6/2001	3/6/2001	3/6/2001	4/25/2001	7/5/2001	COMPOSITE 7/5/2001	COMPOSITE 7/5/2001	COMPOSITE 7/5/2001	COMPOSITE 7/5/2001	COMPOSITE 7/5/2001
E.O.T.T. ENERGY PIPELINE KIMBROUGH SWEET DATA SUMMARY	SAMPLING INTERVAL (FT. RGS)		53	(C)	01	55	2	2	10	9 1	50	N.	NA	ĸ	0	80	Ā	Ā
	LITHOLOGY		BLACK OILY SAND	GRAY SAND	LIGHT BROWN SAND	TAN SAND	BLACK OILY SAND	LIGHT BROWN SAND	LIGHT BROWN SAND	TAN SAND	I AN SAND	BROWN SANDY CLAY-ODDROUS	BROWN SAND-ODDROUS	BROWN SAND-ODOROUS	BROWN SAND-ODOROUS	BROWN SAND	BROWN SAND	BROWN SAND
	SAMPLE ID#		KSS360IBH8-2	KSS360/BH8-5	KSS36018HB-10	KSS360IB+8-15	KSS360IBH9-2	KSS360IBH9-5	KSS360IBH9-10	KSS360IBH9-I5	KSS360IBH9-20	S4250IKSSPOILS	KS750IUS	KS750IWBHC	KS750IMBHC	KS750IEBHC	KS750ITSS	KS750ITSN
	HEADSPACE VOC (PPH)	Trong.	16.2	5.6	17	7.0	757.0	2318.0	800.0	126.0	50.4	AN AN	NA	2	AN.	ğ	NA	NA
EET DA	GRO! MG/KG	2.7	595	01	01	10	7257	2555	37	0	10	76672	12400	1550	790	20	3620	2740
PIPELINE A SUMMARY	DRO? MG/KG	DN LIMIT IS C	20062	01	01	01	37734	6208	319	12	77	76655	00652	0266	5530	107	7590	7630
	GRO+DRO TPH7 - MG/KG	10 MG/KG	29597	20	50	20	16677	8763	356	125	23	679101	38300	11520	6320	211	11210	7270
	BTEX ³ MG/KG		0.256	0.125	0.125	0.125	175,575	643.490	609.0	0.126	0.125	599,520	626.000	18.6558	7,693	0.100	19,882	3,466
	BENZENE MG/KG		0.067	0.025	0.025	0.025	0.675	068.7	0.025	0.025	0.025	1.320	25.500	0.026	0.953	0:020	0.0269	0.02
	TOLUENE MG/KG	DETECTIO	0.097	0.025	0.025	0.025	26,300	167.000	0.025	0.025	0.025	105.000	109,000	3.340	1.520	0.020	1.26	0.022
	BENZENE MG/KG	ION LIMITS ARE	0.025	0.025	0.025	0.025	29.300	107.000	0.106	0.025	0.025	62.200	207.000	8.570	2.690	0.020	11.2	0.512
	100	5 c0.025	0.042	0.025	0.025	0.025	76.500	266.000	0.316	0.026	0.025	298.000	82,500	4.310	1.300	0.020	7.11	2.89
	0-XYLENE MG/KG		0.025	0.025	0.025	0.025	40,800	98.600	0.137	0.025	0.025	133.000	202.000	2.4/0	1.230	0:050	0.285	0.0210
	CHLORIDE MG/KG		NA	NA	NA	AN	NA	NA	NA	NA	NA	397	NA	N.	NA	2	¥.	AN AN

GRO - GASOLINE RANGE ORGANICS Co-Cio

²ORO - DIESEL RANGE ORGANICS C₁₉-C₂₈ ³BTEX - THE SUM OF BENZEME, TOLUEME, ETHYL BENZEME, AND M.P. 80 XYLENE

[&]quot;YNA - NOT ANALYZED *BOLOED VALUES ARE IN EXCESS OF THE NEW MEXICO OIL CONSERVATION DIVISION GUIDELINE THRESHOLD FOR THE PARAMETER *6 TALLICIZED VALUES ARE < THE INSTRUMENT DETECTION LIMIT; *GRO-HDRO (TPH) - TOTAL PETROLEUM HYDROCARSON EPA METHOD \$015M



ENRON TRANSPORTATION SERVICES

ATTN: MR. WAYNE BRUNETTE

5805 EAST HWY. 80 MIDLAND, TEXAS 79701

FAX: 684-3456

FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil

Sample Condition: Intact/ Iced/ -2.5 deg. C

Project #: 2000-10757

Project Name: Kimbrough Sweet Project Location: Pistole Ranch

Sampling Date: 04/25/01 Receiving Date: 04/27/01

Analysis Date: 05/02/01

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg_	o-XYLENE mg/kg
39837	S42501KSSPOILS	1.32	105	62.2	298	133

%IA	89	95	100	109	99
%EA	93	95	98	111	102
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025

METHODS: EPA SW 846-8021B ,5030



ENRON TRANSPORATION SERVICES

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FAX: 684-3456

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Sample Type: Soil

Sample Condition: Intact/Iced/ -2.5 deg C

Project #: 2000-10757

Project Name: Kimbrough Sweet Project Location: Pistole Ranch

Sampling Date: 04/25/01 Receiving Date: 04/27/01

Analysis Date: 04/30/01

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg	
39837	S42501KSSPOILS	24994	76655	

% IA	85	113
%EA	93	106
BLANK	<10	<10

Methods: EPA SW 846-8015M GRO/DRO

Cal and L Justo

5-2-01



ENRON TRANSPORATION SERVICES

ATTN: MR. WAYNE BRUNETTE

5805 EAST HWY. 80 MIDLAND, TEXAS 79701

FAX: 684-3456

FAX: 505-394-2601 (Pat McCasland)

Sample Type: Soil

Sample Condition: Intact/Iced/ -2.5 deg C

Project #: 2000-10757

Project Name: Kimbrough Sweet Project Location: Pistole Ranch

Sampling Date: 04/25/01 Receiving Date: 04/27/01

Analysis Date: 05/02/01

		Chloride	
ELT#	FIELD CODE	mg/kg	_
39837	S42501KSSPOILS	39 7	

OUALITY CONTROL	5069
TRUE VALUE	5000
% INSTRUMENT ACCURACY	101
BLANK	<10

Methods: EPA SW 846-9253

5-2-01

Environmental Lab of Texas, Inc.

12600 West 1-20 East Odessa, Texas 79763

Phone: 915-563-1800 Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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Project Manager: WAYNE BRUNETTE	Company Name	any	City/State/Zip: Midland, 1X	Telephone No: 915,556,0190 as, 684,3479 pler Signature: 184,1841				\$	-								∭.	ē 🗦	4	1/2	`	
Pro	ပိ	Company Address: 5805 East Highway 80	•	Telephone No: _ Sampler Signature:				3	128									י וותכן	٩	11	S by:	
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EOTT ENERGY

ATTN: MR. WAYNE BRUNETTE

P.O. BOX 1660

MIDLAND, TEXAS 79703

FAX: 684-3456

FAX: 505-394-2601 (Pat McCasland)

Sampling Date: See Below Receiving Date: 03/09/01

Analysis Date: 03/09/01

Sample Type: Soil

Sample Condition: Intact/Iced/ 1 deg C

Project #: 2000-10757

Project Name: Kimbrough Sweet

Project Location: N/2 Sec 3 T 18S R37E

ELT#_	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg	SAMPLE DATE	
30014	WCCZEATRILL 2	2219	3654	03/05/01	
38014	KSS3501BH1-2 KSS3501BH1-5	8253	11600	03/05/01	
38015	KSS3501BH1-10	6655	11575	03/05/01	
38016		3457	6323	03/05/01	
38017	KSS3501BH1-15	1736	6314	03/05/01	
38018	KSS3501BH1-20	2278	4512	03/05/01	
38019	KSS3501BH1-25 KSS3501BH1-30	4210	8135	03/05/01	
38020		2870	5324	03/05/01	
38021	KSS3501BH1-35	3389	6993	03/05/01	
38022	KSS3501BH1-40	3140	5980	03/05/01	
38023	KSS3501BH1-45	168	810	03/07/01	
38024	KSS3701BH4-2		435	03/07/01	
38025	KSS3701BH4-5	18	<10	03/07/01	
38026	K\$\$3701BH4-10	<10		03/07/01	
38027	KSS3701BH4-15	<10	<10		
38028	KSS3701BH4-20	<10	103	03/07/01	
38029	K\$\$3701BH3-2	9484	60246	03/07/01	
38030	K\$\$3701BH3-5	7532	14845	03/07/01	
38031	KSS3701BH3-10	6359	11377	03/07/01	
38032	KSS3701BH3-15	9322	18515	03/07/01	
38033	KSS3701BH3-20	4399	12818	03/07/01	
	% IA	98	112		
	%EA	102	115		
	BLANK	<10	<10		

Methods: EPA SW 846-8015M GRO/DRO

Raland K. Tuttle

3-12-01

12600 West I-20 Fast • Odessa Texas 79765 • (915) 563-1800 • Fax (915) 563-1713



EOTT ENERGY

ATTN: MR. WAYNE BRUNETTE

P.O. BOX 1660

MIDLAND, TEXAS 79703

FAX: 684-3456

FAX: 505-394-2601 (Pat McCasland)

Sampling Date: See Below Receiving Date: 03/09/01

Analysis Date: 03/10/01

Sample Type: Soil

Sample Condition: Intact/Iced/ 1 deg C

Project #: 2000-10757

Project Name: Kimbrough Sweet

Project Location: N/2 Sec 3 T 18S R37E

, , 0, 000		GRO C6-C10	DRO >C10-C28	SAMPLE	
ELT#	FIELD CODE	mg/kg	mg/kg	DATE	
38034	KSS3701BH3-25	3321	6830	03/07/01	
38035	KSS3701BH3-30	3257	6198	03/07/01	
38036	KSS3701BH3-35	789	2148	03/07/01	
38037	KSS3701BH3-40	3118	6616	03/07/01	
38038	KSS3701BH3-45	2872	5992	03/07/01	
38039	KSS3601BH8-2	595	29002	03/06/01	
38040	KSS3601BH8-5	<10	<10	03/06/01	
38041	KSS3601BH8-10	<10	< 10	03/06/01	
38042	KSS3601BH8-15	<10	<10	03/06/01	
38043	KSS3601BH9-2	7257	37734	03/06/01	
38044	K\$\$3601BH9-5	2555	6208	03/06/01	
38045	KSS3601BH9-10	37	319	03/06/01	
38046	KSS3601BH9-15	<10	115	03/06/01	
38047	KSS3601BH9-20	<10	43	03/06/01	
38048	KSS3501BH6-2	3711	10471	03/05/01	
38049	KSS3501BH6-5	6292	15437	03/05/01	
38050	KSS3501BH6-10	708	2647	03/05/01	
38051	KSS3501BH6-15	. 28	377	03/05/01	
38052	KSS3501BH6-20	22	246	03/05/01	
38053	KSS3601BH7-2	29	279	03/06/01	
	% IA	88	113		
	%EA	85	118		
	BLANK	<10	<10		

Methods: EPA SW 846-8015M GRO/DRO



EOTT ENERGY

ATTN: MR. WAYNE BRUNETTE

P.O. BOX 1660

MIDLAND, TEXAS 79703

FAX: 684-3456

FAX: 505-394-2601 (Pat McCasland)

Sampling Date: 03/06/01

Receiving Date: 03/09/01 Analysis Date: 03/11/01

Sample Type: Soil

Sample Condition: Intact/Iced/ 1 deg C

Project #: 2000-10757

Project Name: Kimbrough Sweet

Project Location: N/2 Sec 3 T 18S R37E

GRO DRO
C6-C10 >C10-C28

ELT#	FIELD CODE	mg/kg	mg/kg
38054	KSS3601BH7-5	1454	3780
38055	KSS3601BH7-10	722	2640
38056	KSS3601BH7-15	139	616
38057	KSS3601BH7-20	112	713

% IA	88	110
%EA	99	110
BLANK	<10	<10

Methods: EPA SW 846-8015M GRO/DRO

Rajand K. Tuttle

Date



EOTT ENERGY

ATTN: MR. WAYNE BRUNETTE

P.O. BOX 1660

MIDLAND, TEXAS 79703

FAX: 915-684-3456 -

FAX: 505-394-2601 (Pat Mc Casland)

Sampling Date: See Below Receiving Date: 03/09/01

Analysis Date: 03/09/01

Sample Type: Soil

Sample Condition: Intact/ Iced/ 1 deg. C

Project #: 2000-10757

Project Name: Kimbrough Sweet Project Location: N/2 Sec 3 T18S R37E

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg	SAMPLE DATE
38014	KSS3501BH1-2	<0.500	99.4	34.7	131	38.2	03/05/01
38015	KSS3501BH1-5	219	714	290	481	163	03/05/01
38016	KSS3501BH1-10	57.2	221	94.2	210	54.6	03/05/01
38017	KSS3501BH1-15	30.4	152	77.2	159	52.5	03/05/01
38018	KSS3501BH1-20	1.02	23.6	25.3	53.2	17.5	03/05/01
38019	KSS3501BH1-25	8.04	83.4	46.6	96.2	33.3	03/05/01
38020	KSS3501BH1-30	13.5	127	63.3	131	39.4	03/05/01
38021	KSS3501BH1-35	7.42	105	51.4	117	38.3	03/05/01
38022	KSS3501BH1-40	8.18	72.7	40.3	89.9	31.5	03/05/01
38023	KSS3501BH1-45	11.7	100	49.3	114	37.9	03/05/01
38024	KSS3701BH4-2	< 0.100	2.07	0.593	2.92	2.56	03/07/01
38025	KSS3701BH4-5	<0.025	0.043	0.028	0.048	<0.025	03/07/01
			,				
	%IA %EA	105 99	110 101	113 104	111 102	112 108	
	BLANK	< 0.025	<0.025	< 0.025	<0.025	<0.025	

METHODS: EPA SW 846-8021B ,5030

3-12-01 Date



EOTT ENERGY

ATTN: MR. WAYNE BRUNETTE

P.O. BOX 1660

MIDLAND, TEXAS 79703

FAX: 915-684-3456

FAX: 505-394-2601 (Pat Mc Casland)

Sampling Date: See Below

Receiving Date: 03/09/01 Analysis Date: 03/10/01

Sample Type: Soil

Sample Condition: Intact/ Iced/ 1 deg. C

Project #: 2000-10757

Project Name: Kimbrough Sweet Project Location: N/2 Sec 3 T18S R37E

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg	SAMPLE DATE
38026	KSS3701BH4-10	<0.025	<0.025	<0.025	<0.025	<0.025	03/07/01
38027	KSS3701BH4-15	<0.025	0.034	<0.025	< 0.025	<0.025	03/07/01
38028	KSS3701BH4-20	<0.025	< 0.025	<0.025	< 0.025	< 0.025	03/07/01
38029	KSS3701BH3-2	8.84	72.8	58.0	120	48.0	03/07/01
38030	KSS3701BH3-5	64.0	347	205	372	127	03/07/01
38031	KSS3701BH3-10	50.9	257	128	251	86.9	03/07/01
38032	KSS3701BH3-15	37.2	243	135	273	94.4	03/07/01
38033	KSS3701BH3-20	5.03	74.8	51.4	117	33.4	03/07/01
38054	KSS3601BH7-5	< 0.250	18.5	25.6	51.1	16.6	03/06/01
38055	KSS3601BH7-10	< 0.250	7.54	6.14	13.2	4.62	03/06/01
38056	KSS3601BH7-15	< 0.100	1.43	1.55	3.57	1.52	03/06/01
38057	KSS3601BH7-20	0.042	0.917	1.51	3.03	1.27	03/06/01
%1 %8 BL		105 96 <0.025	110 100 <0.025	113 103 <0.025	113 102 <0.025	113 104 <0.025	

METHODS: EPA SW 846-8021B ,5030



EOTT ENERGY

ATTN: MR. WAYNE BRUNETTE

P.O. BOX 1660

MIDLAND, TEXAS 79703

FAX: 915-684-3456

FAX: 505-394-2601 (Pat Mc Casland)

Sampling Date: See Below Receiving Date: 03/09/01

Analysis Date: 03/09/01

Sample Type: Soil

Sample Condition: Intact/ Iced/ 1 deg. C

Project #: 2000-10757

Project Name: Kimbrough Sweet Project Location: N/2 Sec 3 T18S R37E

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg	SAMPLE DATE
			24.2		03.4	41.6	02/07/01
38034	KSS3701BH3-25	7.16	94.3	41.7	93.4	41.6	03/07/01
38035	KSS3701BH3-30	10.4	127	51.2	118	52.6	03/07/01
38036	KSS3701BH3-35	0.165	10.2	9.13	24.6	11.2	03/07/01
38037	KSS3701BH3-40	7.40	114	46.3	117	5 0.5	03/07/01
38038	KSS3701BH3-45	4.87	83.9	35.3	90.5	37.0	03/07/01
38039	KSS3601BH8-2	0.067	0.097	< 0.025	0.042	<0.025	03/06/01
38040	KSS3601BH8-5	< 0.025	<0.025	<0.025	< 0.025	<0.025	03/06/01
38041	KSS3601BH8-10	< 0.025	< 0.025	< 0.025	<0.025	<0.025	03/06/01
38042	KSS3601BH8-15	< 0.025	< 0.025	< 0.025	< 0.025	<0.025	03/06/01
38043	KSS3601BH9-2	0.675	26.3	29.3	76.5	40.8	03/06/01
			•				
	%IA %EA BLANK	99 100 <0.025	101 102 <0.025	103 106 <0.025	110 115 <0.025	103 108 <0.025	

METHODS: EPA SW 846-8021B,5030

3-12-01 Date



EOTT ENERGY

ATTN: MR. WAYNE BRUNETTE

P.O. BOX 1660

MIDLAND, TEXAS 79703

FAX: 915-684-3456

FAX: 505-394-2601 (Pat Mc Casland)

Sampling Date: See Below Receiving Date: 03/09/01

Analysis Date: 03/10/01

Sample Type: Soil

Sample Condition: Intact/ Iced/ 1 deg. C

Project #: 2000-10757

Project Name: Kimbrough Sweet Project Location: N/2 Sec 3 T18S R37E

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg	SAMPLE DATE	
38044	KSS3601BH9-5	. 4.89	167	107	266	98.6	03/06/01	
38045	KSS3601BH9-10	<0.025	<0.025	0.106	0.316	0.137	03/06/01	
38046	KSS3601BH9-15	<0.025	<0.025	<0.025	0.026	<0.025	03/06/01	
38047	KSS3601BH9-20	<0.025	<0.025	<0.025	<0.025	<0.025	03/06/01	
38048	KSS3501BH6-2	1.82	61.4	56.7	144	62.5	03/05/01	
38049	KSS3501BH6-5	7.36	207	120	287	107	03/05/01	
38050	KSS3501BH6-10	<0.250	3.30	5.92	12.2	7.00	03/05/01	
38051	KSS3501BH6-15	<0.025	0.028	<0.025	0.088	0.041	03/05/01	
38052	KSS3501BH6-20	<0.025	<0.025	<0.025	0.035	<0.025	03/05/01	
38053	KSS3601BH7-2	<0.025	<0.025	0.097	0.255	0.351	03/06/01	
	%IA %EA BLANK	94 98 <0.025	97 102 <0.025	100 109 <0.025	107 113 <0.025	102 109 <0.025		

METHODS: EPA SW 846-8021B,5030

Calande June

3-12-01

Date

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4221 Freidrich 1 2209 N. Padre 1 (512) 444-5896

4221 Freidrich Suite 190, Austin, TX 78744 & 2209 N. Padre Island Dr., Corpus Christl, TX 78408 (512) 444-5896 • FAX (512) 447-4766

Client: EOTT Energy Corp.

Attn: Frank Hernandez

Address: 5805 East Hwy 80

Midland

Tx 79701

Phone: 915 638-3799

FAX: 915 684-3456

Report#/Lab ID#: 115724 Report Date: 07/24/01

Project ID: Kimbrough Sweet / 2000-10757

Sample Name: KS7501WBHC

Sample Matrix: soil

Date Received: 07/06/2001 Time: 16:34
Date Sampled: 07/05/2001 Time: 14:10

PRELIMINARY REPORT OF ANALYSIS

Parameter	Result	Units	RQL 1	Blank	Date	Method
TPH by GC (as diesel)	9970	mg/Kg	200	<200	07/24/01	8015 mod
TPH by GC (as diesel-ext)					07/18/01	3540
TPH by GC (as gasoline)	1550	mg/Kg	500	<500	07/16/01	8015 mod.
Volatile organics-8260b/BTEX					07/16/01	8260b
Benzene	25.8	μg/Kg	20	<20	07/16/01	8260b
Ethylbenzene	3340	μg/Kg	20	<20	07/16/01	8260ь
n,p-Xylenes	8570	μg/Kg	20	<20	07/16/01	8260Ъ
o-Xylene	4310	μg/Kg	20	<20	07/16/01	8260ъ
Toluene	2410	μg/Kg	20	<20	07/16/01	8260ъ

1. Reporting Quantitation Limit (RQL): typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

This preliminary analytical report is respectfully submitted by AnalySys, Inc. The enclosed data may not have received final review for full compliance with AnalySys, Inc.'s QA/QC program or for completeness. Although the reported results contained herein are believed to be correct, based upon initial data review. final QA/QC review may result in results different from those reported herein. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted.

Richard Laster





4221 Freidrich 190, Austin, TX 78744 & 2209 N. Padre Island Dr., Corpus Christi, TX 78408 (512) 444-5896 • FAX (512) 447-4766

Client: EOTT Energy Corp.

Attn: Frank Hemandez Address: 5805 East Hwy 80

Midland

Tx 79701

Phone: 915 638-3799

FAX: 915 684-3456

Report#/Lab ID#: 115725 Report Date: 07/24/01

Project ID: Kimbrough Sweet / 2000-10757

Sample Name: KS7501US

Sample Matrix: soil

Date Received: 07/06/2001 Time: 16:34
Date Sampled: 07/05/2001 Time: 14:00

PRELIMINARY REPORT OF ANALYSIS

Parameter	Result	Units	RQL 1	Blank	Date	Method
TPH by GC (as diesel)	25900	mg/Kg	400	<400	07/24/01	8015 mod
TPH by GC (as diesel-ext)					07/18/01	3540
TPH by GC (as gasoline)	12400	mg/Kg	1250	<1250	07/16/01	8015 mod.
Volatile organics-8260h/BTEX	-4-				07/16/01	8260b
Benzene	25500	μg/Kg	5000	<5000	07/16/01	82606
Ethylbenzene	109000	μg/Kg	5000	<5000	07/16/01	8260Ն
m.p-Xylenes	207000	μg/Kg	5000	<5000	07/16/01	8260Ъ
o-Xylene	82500	μg/Kg	5000	<5000	07/16/01	8260Ъ
Tolucne	202000	μg/Kg	5000	<5000	07/16/01	8260ь

1. Reporting Quantitation Limit (RQL); typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

This preliminary analytical report is respectfully submitted by AnalySys, Inc. The enclosed data may not have received final review for full compliance with AnalySys, Inc.'s QA/QC program or for completeness. Although the reported results contained herein are believed to be correct, based upon initial data review, final QA/QC review may result in results different from those reported herein. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

OPOLY**S**YS



4221 Freidrich Suite 190, Austin, TX 78744 & 2209 N. Padre Island Dr., Corpus Christi, TX 78408 (512) 444-5896 FAX (512) 447-4766

EOTT Energy Corp.

Attn: Frank Hernandez

Address: 5805 East Hwy 80 Midland

Tx 79701

Phone: 915 638-3799

Client:

FAX: 915 684-3456

Report#/Lab ID#: 115726 Report Date: 07/24/01

Project ID: Kimbrough Sweet / 2000-10757

Sample Name: KS750101MBHC

Sample Matrix: soil

Date Received: 07/06/2001 Time: 16:34

Date Sampled: 07/05/2001 Time: 14:20

PRELIMINARY REPORT OF ANALYSIS

Parameter	Result	Units	RQL	Blank	Date	Method
TPH by GC (as diesel)	5530	mg/Kg	200	<200	07/23/01	8015 mod
TPH by GC (as diesel-ext)					07/18/01	3540
TPH by GC (as gasoline)	790	mg/Kg	100	<100	07/16/01	8015 mod.
Volatile organics-8260b/BTEX					07/14/01	8260ს
Benzene	95.3	μg/Kg	20	<20	07/14/01	8260b
Ethylbenzene	1520	µg/Kg	20	<20	07/14/01	8260b
m,p-Xylenes	2690	μg/Kg	20	<20	07/14/01	8260b
>-Xylene	1300	μg/Kg	20	<20	07/14/01	8260b
Toluene	1230	μg/Kg	20	<20	07/14/01	8260ъ

1. Reporting Quantitation Limit (RQL); typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

is preliminary analytical report is respectfully submitted by AnalySys, Inc. The enclosed data may not have received final review for full compliance with AnalySys, Inc.'s QA/QC program or for completeness. Although the reported results contained herein are believed to be correct, based upon initial data review, final QA/QC review may result in results different from those reported herein. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved, part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Faster

Suite 190, Austin, TX 78744 & 4221 Freidrich La 2209 N. Padre Island Dr., Corpus Christi, TX 78408 (512) 444-5896 FAX (512) 447-4766

EOTT Energy Corp.

tin: Frank Hernandez ddress: 5805 East Hwy 80

Midland Tx

hone: 915 638-3799 79701

FAX: 915 684-3456

Report#/Lab ID#: 115727 Report Date: 07/24/01

Project ID: Kimbrough Sweet / 2000-10757

Sample Name: KS7501EBHC

Sample Matrix: soil

Date Received: 07/06/2001 Time: 16:34

Date Sampled: 07/05/2001 Time: 14:30

PRELIMINARY REPORT OF ANALYSIS

arameter	Result	Units	RQL 1	Blank	Date	Method
IPH by GC (as diesel)	107	mg/Kg	10	<10	07/23/01	8015 mod
TPH by GC (as diesel-ext)					07/18/01	3540
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	07/16/01	8015 mod.
Volatile organics-8260b/BTEX					07/14/01	8260ъ
Веплене	<20	μg/Kg	20	<20	07/14/01	8260b
Ethylbenzene	<20	μg/Kg	20	<20	07/14/01	8260b
m.p-Xylenes	<20	μg/Kg	20	<20	07/14/01	8260ь
p-Xylene	<20	μg/Kg	20	<20	07/14/01	8260ь
Tohiene	<20	μg/Kg	20	<20	07/14/01	8260b

1. Reporting Quantitation Limit (RQL): typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

This preliminary analytical report is respectfully submitted by AnalySys. Inc. The enclosed data may not have received final review for full compliance with AnalySys. Inc.'s QA/QC program or for completeness. Although the reported results contained herein are believed to be correct, based upon initial data review, final QA/QC review may result in results different from those reported herein. O Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

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4221 Freidrich La Suite 190, Austin, TX 78744 & 2209 N. Padre Island Dr., Corpus Christi, TX 78408 (512) 444-5896 • FAX (512) 447-4766

lient: EOTT Energy Corp.

Attn: Frank Hernandez

Iddress: 5805 East Hwy 80

Midland

Tx 79701

hone: 915 638-3799

FAX: 915 684-3456

Report#/Lab ID#: 115728 Report Date: 07/24/01

Project ID: Kimbrough Sweet / 2000-10757

Sample Name: KS7501TSS

Sample Matrix: soil

Date Sampled: 07/05/2001 Time: 14:40

PRELIMINARY REPORT OF ANALYSIS

arameter	Result	Units	RQL 1	Blank	Date	Method
PH by GC (as diesel)	7590	mg/Kg	100	<100	07/24/01	8015 mod
TPH by GC (as diesel-ext)					07/18/01	3540
PH by GC (as gasoline)	3620	mg/Kg	500	<500	07/16/01	8015 mod.
olatile organics-8260b/BTEX					07/16/01	8260Ъ
Benzene	26.9	μg/Kg	20	<20	07/16/01	8260Ь
thylbenzene	1260	μg/Kg	20	<20	07/16/01	8260ь
n,p-Xylenes	11200	μg/Kg	20	<20	07/16/01	8260Ъ
>-Xylene	7110	µg/Kg	20	<20	07/16/01	8260Ъ
oluene	285	μg/Kg	20	<20	07/16/01	8260ь

Reporting Quantitation Limit (RQL); typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

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Richard Laster

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Mient: EOTT Energy Corp.

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hone: 915 638-3799

FAX: 915 684-3456

Report#/Lab ID#: 115729 Report Date: 07/24/01

Project ID: Kimbrough Sweet / 2000-10757

Sample Name: KS7501TSN

Sample Matrix: soil

Date Received: 07/06/2001 Time: 16:34
Date Sampled: 07/05/2001 Time: 14:50

PRELIMINARY REPORT OF ANALYSIS

arameter	Result	Units	RQLI	Blank	Date	Method
PH by GC (as diesel)	4530	mg/Kg	100	<100	07/24/01	8015 mod
TPH by GC (as diesel-ext)	-		`		07/18/01	3540
PH by GC (as gasoline)	2740	mg/Kg	500	<500	07/16/01	8015 mod.
olatile organics-8260b/BTEX					07/16/01	8260b
Веплети	<20	μg/Kg	20	<20	07/16/01	8260ь
thylbenzene	22	μg/Kg	20	<20	07/16/01	8260Ъ
n,p-Xylenes	512	µg/Kg	20	<20	07/16/01	8260b
o-Xylene	2890	μg/Kg	20	<20	07/16/01	8260ს
oluene	21.9	μg/Kg	20	<20	07/16/01	8260Ь

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Richard Latter

Richard Laster

Page#: |

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ity Midland State	State TX Zip 76701	10141	City	!		State	Zip		. j		
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4221 Freidrich 150, Suite 190, Austin, TX 78744 & 2209 N. Padre Island Dr., Corpus Christi, TX 78408 (512) 444-5896 • FAX (512) 447-4766

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Phone: 915 638-3799

FAX: 915 684-3456

Report#/Lab ID#: 115724 Report Date: 07/24/01

Project ID: Kimbrough Sweet / 2000-10757

Sample Name: KS7501WBHC

Sample Matrix: soil

Date Received: 07/06/2001 Time: 16:34
Date Sampled: 07/05/2001 Time: 14:10

PRELIMINARY REPORT OF ANALYSIS

Parameter	Result	Units	RQL 1	Blank	Date	Method
TPH by GC (as diesel)	9970	mg/Kg	200.	<200	07/24/01	8015 mod
TPH by GC (as diesel-ext)					07/18/01	3540
TPH by GC (as gasoline)	1550	mg/Kg	500	<500	07/16/01	8015 mod.
Volatile organics-8260b/BTEX					07/16/01	8260b
Benzene	25.8	μg/Kg	20	<20	07/16/01	8260Ь
Ethylbenzene	3340	μg/Kg	20	<20	07/16/01	8260b
m,p-Xylenes	8570	μg/Kg	20	<20	07/16/01	8260b
o-Xylene	4310	μg/Kg	20	<20	07/16/01	8260ь
Toluene	2410	μg/Kg	20	<20	07/16/01	8260ь

1. Reporting Quantitation Limit (RQL): typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

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Client: EOTT Energy Corp.

Attn: Frank Hernandez

Address: 5805 East Hwy 80

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Tx 79701

Phone: 915 638-3799

FAX: 915 684-3456

Report#/Lab ID#: 115725 Report Date: 07/24/01

Project ID: Kimbrough Sweet / 2000-10757

Sample Name: KS7501US

Sample Matrix: soil

Date Received: 07/06/2001 Time: 16:34
Date Sampled: 07/05/2001 Time: 14:00

PRELIMINARY REPORT OF ANALYSIS

Parameter	Result	Units	RQL 1	Blank	Date	Method
TPH by GC (as diesel)	25900	mg/Kg	400	<400	07/24/01	8015 mod
TPH by GC (as diesel-ext)				***	07/18/01	3540
TPH by GC (as gasoline)	12400	mg/Kg	1250	<1250	07/16/01	8015 mod.
Volatile organics-8260b/BTEX					07/16/01	8260b
Benzene	25500	μg/Kg	5000	<5000	07/16/01	8260b
Ethylbenzene	109000	μg/Kg	5000	<5000	07/16/01	8260Ն
m.p-Xylenes	207000	μg/Kg	5000	<5000	07/16/01	8260ъ
o-Xylene	82500	μg/Kg	5000	<5000	07/16/01	8260b
Toluene	202000	μg/Kg	5000	<5000	07/16/01	8260ъ

1. Reporting Quantitation Limit (RQL); typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

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Richard Laster

CIPALYSYS



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Report#/Lab ID#: 115726

Report Date: 07/24/01

Project ID: Kimbrough Sweet / 2000-10757

Sample Name: KS750101MBHC

Sample Matrix: soil

Date Received: 07/06/2001 Time: 16:34
Date Sampled: 07/05/2001 Time: 14:20

Client: EOTT Energy Corp.

Attn: Frank Hernandez

Address: 5805 East Hwy 80

Midland

Phone:

915 638-3799

FAX: 915 684-3456

Tx

79701

PRELIMINARY REPORT OF ANALYSIS

Parameter	Result	Units	RQL I	Blank	Date	Method
TPH by GC (as diesel)	5530	mg/Kg	200	<200	07/23/01	8015 mod
TPH by GC (as diesel-ext)					07/18/01	3540
TPH by GC (as gasoline)	790	mg/Kg	100	<100	07/16/01	8015 mod.
Volatile organics-8260b/BTEX					07/14/01	8260ს
Benzene	95.3	μg/Kg	20	<20	07/14/01	8260b
Ethylbenzene	1520	μg/Kg	20	<20	07/14/01	8260ь
m,p-Xylenes	2690	μg/Kg	20	<20	07/14/01	8260b
o-Xylene	1300	μg/Kg	20	<20	07/14/01	8260b
Toluene	1230	μg/Kg	20	<20	07/14/01	8260Ъ

Reporting Quantitation Limit (RQL); typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

nis preliminary analytical report is respectfully submitted by AnalySys, Inc. The enclosed data may not have received final review for full compliance with AnalySys, Inc.'s QA/QC program or for completeness. Although the reported results contained herein are believed to be correct, based upon initial data aveiew, final QA/QC review may result in results different from those reported herein. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved, o part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Faster

Richard Laster

age#: 1

That 4545

4221 Freidrich La Suite 190, Austin, TX 78744 & 2209 N. Padre Island Dr., Corpus Christi, TX 78408 (512) 444-5896 • FAX (512) 447-4766

Client: EOTT Energy Corp.

Attn: Frank Hernandez

ttn: Frank Hernandez
ddress: 5805 East Hwy 80

Midland

Tx 79701

Phone: 915 638-3799

FAX: 915 684-3456

Report#/Lab ID#: 115727 Report Date: 07/24/01

Project ID: Kimbrough Sweet / 2000-10757

Sample Name: KS7501EBHC

Sample Name. K5/5012D1

Sample Matrix: soil

Date Received: 07/06/2001 Time: 16:34
Date Sampled: 07/05/2001 Time: 14:30

PRELIMINARY REPORT OF ANALYSIS

Parameter	Result	Units	RQL ¹	Blank	Date	Method
TPH by GC (as diesel)	107	mg/Kg	10	<10	07/23/01	8015 mod
TPH by GC (as diesel-ext)					07/18/01	3540
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	07/16/01	8015 mod.
Volatile organics-8260b/BTEX					07/14/01	8260ь
Benzene	<20	μg/Kg	20	<20	07/14/01	8260ъ
Ethylbenzene	<20	μg/Kg	20	<20	07/14/01	8260Ъ
m.p-Xylenes	<20	μg/Kg	20	<20	07/14/01	8260ь
o-Xylene	<20	μg/Kg	20	<20	07/14/01	8260Ն
Toluene	<20	μg/Kg	20	<20	07/14/01	8260b

1. Reporting Quantitation Limit (RQL): typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

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Respectfully Submitted,

Richard Faster



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EOTT Energy Corp.

Frank Hernandez ddress: 5805 East Hwy 80

Midland

79701 Tx

915 638-3799 Phone:

FAX: 915 684-3456

Report#/Lab ID#: 115728 Report Date: 07/24/01

Project ID: Kimbrough Sweet / 2000-10757

Sample Name: KS7501TSS

Sample Matrix: soil

Date Received: 07/06/2001 Time: 16:34 Date Sampled: 07/05/2001

Time: 14:40

PRELIMINARY REPORT OF ANALYSIS

arameter	Result	Units	RQL 1	Blank	Date	Method
PH by GC (as diesel)	7590	mg/Kg	100	<100	07/24/01	8015 mod
TPH by GC (as diesel-ext)					07/18/01	3540
PH by GC (as gasoline)	3620	mg/Kg	500	<500	07/16/01	8015 mod.
Volatile organics-8260b/BTEX	400				07/16/01	8260b
Benzene	26.9	μg/Kg	20	<20	07/16/01	8260Ь
thylbenzene	1260	μg/Kg	20	<20	07/16/01	8260b
m.p-Xylenes	11200	μg/Kg	20	<20	07/16/01	8260ъ
o-Xylene	7110	μg/Kg	20	<20	07/16/01	8260b
l'oluene	285	μg/Kg	20	<20	07/16/01	8260b

Reporting Quantitation Limit (RQL); typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

his preliminary analytical report is respectfully submitted by AnalySys. Inc. The enclosed data may not have received final review for full compliance with AnalySys. Inc.'s QA/QC program or for completeness. Although the reported results contained herein are believed to be correct, based upon initial data eview, final QA/QC review may result in results different from those reported herein. O Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. o part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys. Inc.

Respectfully Submitted,



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Client: EOTT Energy Corp.

Attn: Frank Hernandez

ttn: Frank Hernandez ddress: 5805 East Hwy 80

Midland

Tx 79701

hone: 915 638-3799

FAX: 915 684-3456

Report#/Lab ID#: 115729 Report Date: 07/24/01

Project ID: Kimbrough Sweet / 2000-10757

Sample Name: KS7501TSN

Sample Matrix: soil

Date Received: 07/06/2001 Time: 16:34
Date Sampled: 07/05/2001 Time: 14:50

PRELIMINARY REPORT OF ANALYSIS

arameter	Result	Units	RQL 1	Blank	Date	Method
PH by GC (as diesel)	4530	mg/Kg	100	<100	07/24/01	8015 mod
TPH by GC (as diesel-ext)					07/18/01	3540
PH by GC (as gasoline)	2740	mg/Kg	500	<500	07/16/01	8015 mod.
Volatile organics-8260b/BTEX			***		07/16/01	8260b
Benzenc	<20	μg/Kg	20	<20	07/16/01	8260ъ
thylbenzene	22	μg/Kg	20	<20	07/16/01	8260Ъ
n,p-Xylenes	512	μg/Kg	20	<20	07/16/01	8260b
2-Xylene	2890	μg/Kg	20	<20	07/16/01	8260ს
oluene	21.9	μg/Kg	20	<20	07/16/01	8260Ь

Reporting Quantitation Limit (RQL); typically at or above the Practical Quantitation Limit (PQL) of the analytical method.

his preliminary analytical report is respectfully submitted by AnalySys, Inc. The enclosed data may not have received final review for full compliance with AnalySys. Inc.'s QA/QC program or for completeness. Although the reported results contained herein are believed to be correct, based upon initial data seriew, final QA/QC review may result in results different from those reported herein. © Copyright 2000, AnalySys, Inc., Austin. TX. All rights reserved. So part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

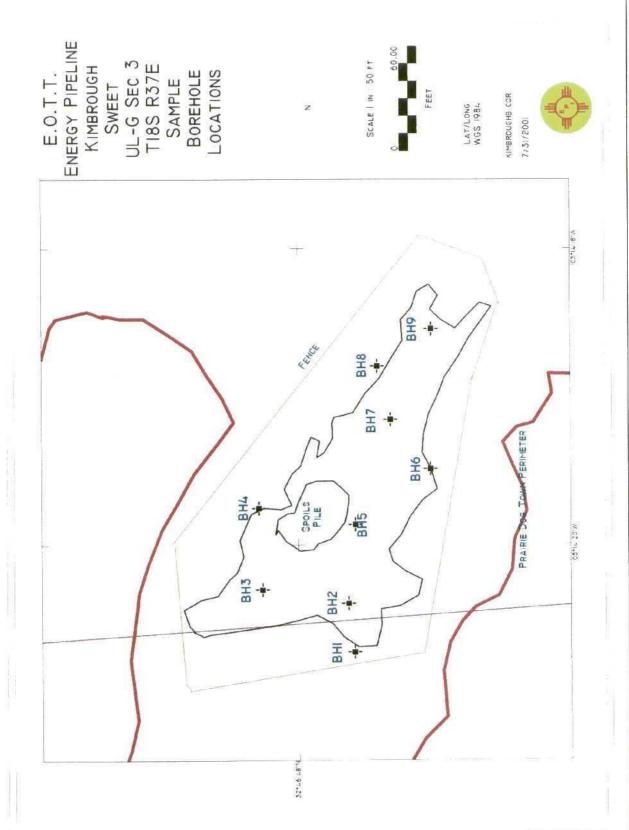
Respectfully Submitted,

Richard Laster

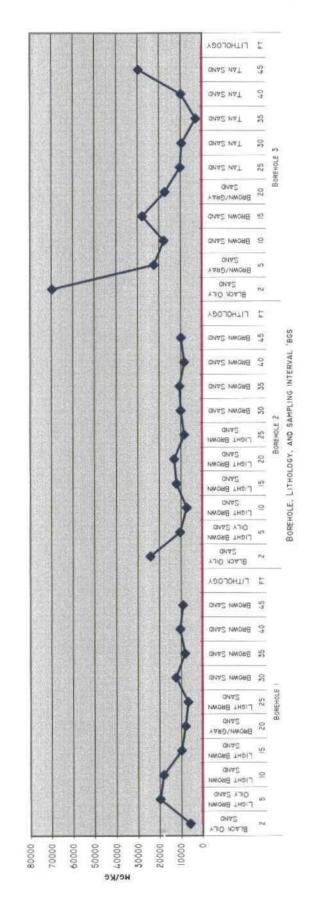
Richard Laster

Page#: 1

	EX.													
and Reports To:			Bill to	to (if	(if different):	ent):								
ompany Name Soft			Con	npany	Company Name	S	W.				4221 Fi	reidrich L	ane, Suite 190,	4221 Freidrich Lane, Suite 190, Austin, TX 7874
ddress 1505 East Hishway	hway 8		Address	ress									(512) 444-5896	9
dland	State IX Zip 2920	16191	City				State	Zip	۵					
ITN: Frank Hocamitter	utter		ATTN:	Ä] []				Ano	Anolyses Domestad (1)	ported (1)
5.638-37	439.516	1548.	Phone	ဍ			Fax					ease affaci	nyses medi h explanatory inf	Please attach explanatory information as require
ush Status (must be confirmed with lab mgr.):	ned with la	b mgr.):)											
roject Name/PO#: 2650 - 10257	-10257	Sampler:	ler: Sead	adlley	1831	lever	1)		1	Service Servic				\
Client Sample No.	, —	Time	No. of				Lab I.D.#	_		E				
Description/Identification	Sampled	Sampled	Sampled Sampled Containers	Soll	Water Waste		(Lab only)		Ž				ت /	Comment
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459501 415	19-5-01	2:00	1	\times				×	X					
557501MBHC	7-5-01	06.6	1	\times				>						
157501EBHC	7-5-01	2:30	~	×				\times						
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Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain of custody or attached to this chain of custody.	this Chain-of-c	ustody and/o	r attached doc	umentati rameter l	on, all an ists are s	alyses w pecified o	ill be conducted	using /	SI's met	hod of c	oice and all	data will	be reported to A	l's normal reporti
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Sample	Sample Relinquished	shed By					1		S	amp	يّ (ا	P P	ived Ry	7
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endering of above described samples to AnalySys, Inc. for analytical	nples to Ana	lySys, Inc	: for analy		sting c	onstitu	tes agreeme	nt by l	S/nyer/s	ample	to Analy	Svs. In	testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms	erme]



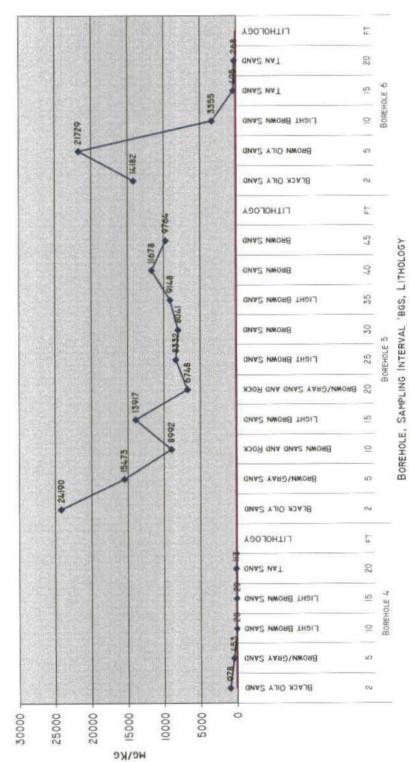
E.O.T.T. ENERGY PIPELINE
KIMBROUGH SWEET
TOTAL PETROLEUM HYDROCARBON (8015M)
SUBSURFACE DELINEATION BOREHOLES 1, 2, 8 3



→ GRO+DRO- TPH

-NMOCD TPH REMEDIAL GOAL 100 MG/KG

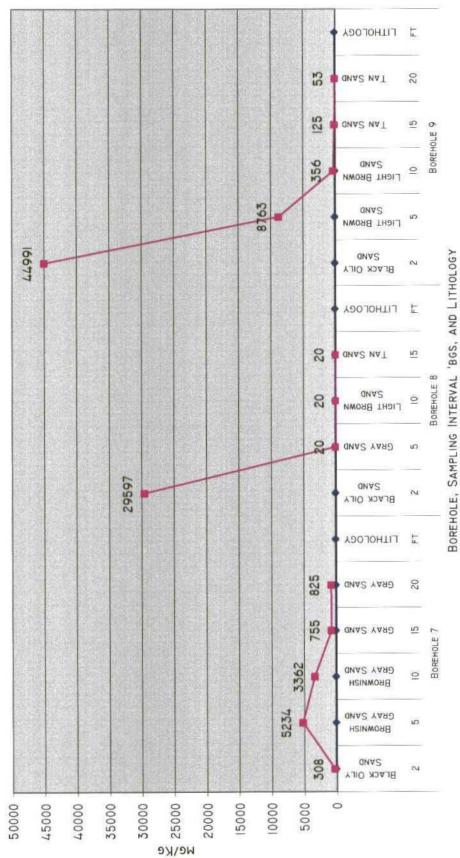
E.O.T.T. ENERGY PIPELINE
KIMBROUGH SWEET
DELINEATION OF TOTAL PETROLEUM HYDROCARBON (8015M) IN BOREHOLES #4, 5, 8 6.



--- NMOCD TPH REMEDIAL GOAL 100 MG/KG

- GRO+DRO- TPH

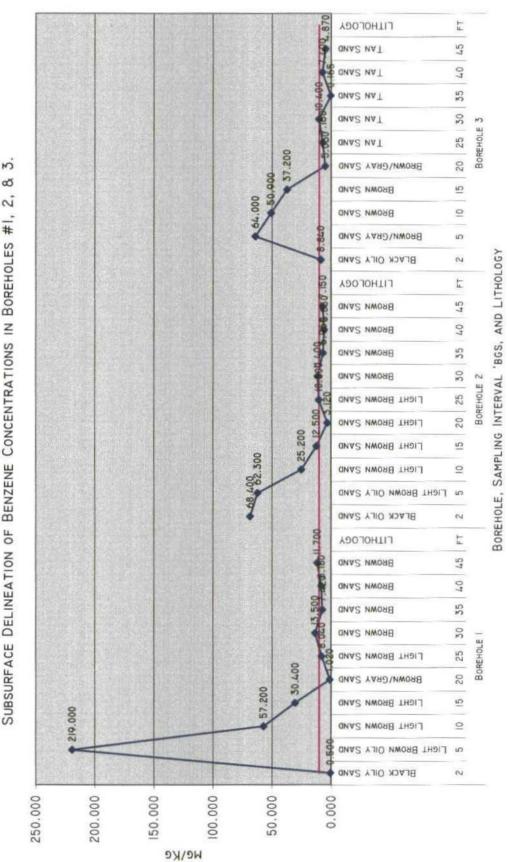
SUBSURFACE DELINEATION OF THE TOTAL PETROLEUM HYDROCARBON CONCENTRATIONS E.O.T.T. ENERGY PIPELINE 0 ග් KIMBROUGH SWEET IN BOREHOLES #7, 8,



-- NMOCD TPH REMEDIAL GOAL 100 MG/KG

-- GRO+DRO- TPH

in # BOREHOLES Z BENZENE CONCENTRATIONS E.O.T.T. ENERGY PIPELINE KIMBROUGH SWEET OF SUBSURFACE DELINEATION

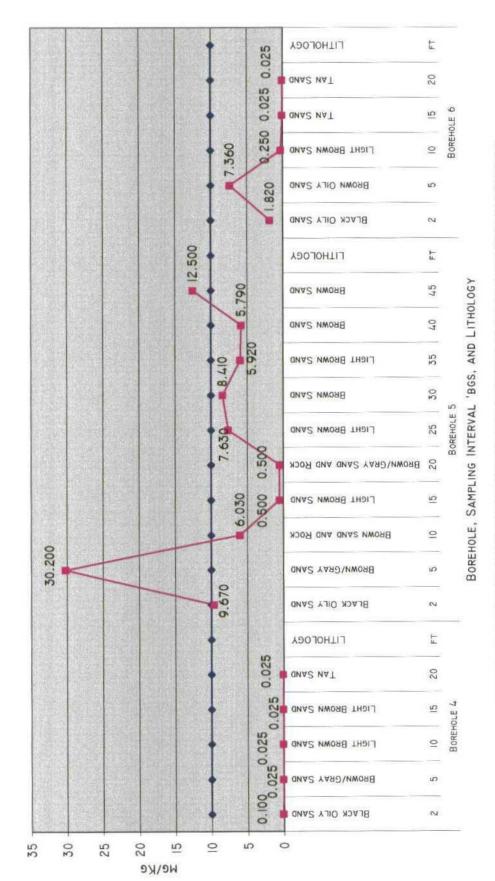


→ BENZENE MG/KG

10 MG/KG GOAL REMEDIAL BENZENE -NMOCD

KIMBROUGH SWEET SOIL AND GROUND WATER REMEDIATION PLAN JULY 2001

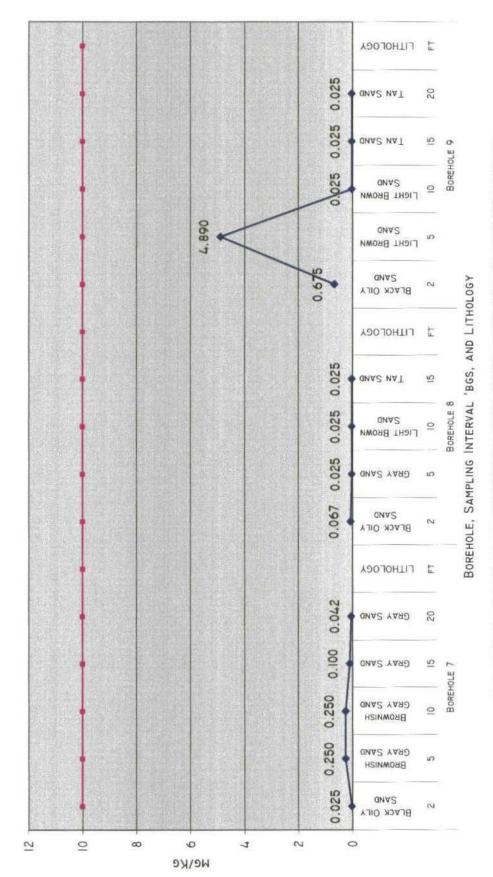
ď S **#**7 BENZENE CONCENTRATIONS IN BOREHOLES E.O.T.T. ENERGY PIPELINE KIMBROUGH SWEET SUBSURFACE DELINEATION OF THE



--- NMOCD BENZENE REMEDIAL GOAL 10 MG/KG

--- BENZENE MG/KG

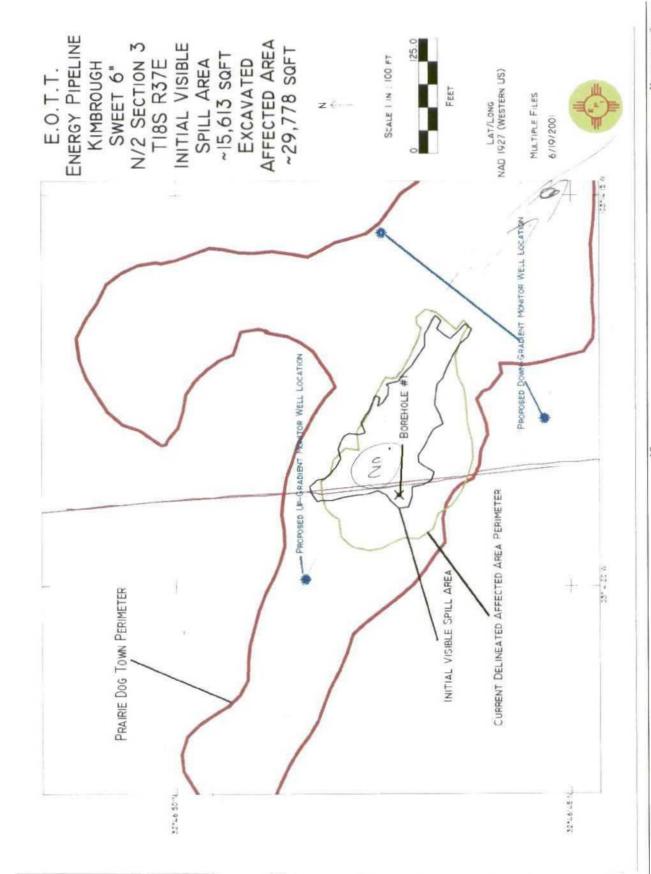
Ø BENZENE CONCENTRATIONS IN BOREHOLES #7, 8, E.O.T.T. ENERGY PIPELINE KIMBROUGH SWEET THE SUBSURFACE DELINEATION OF

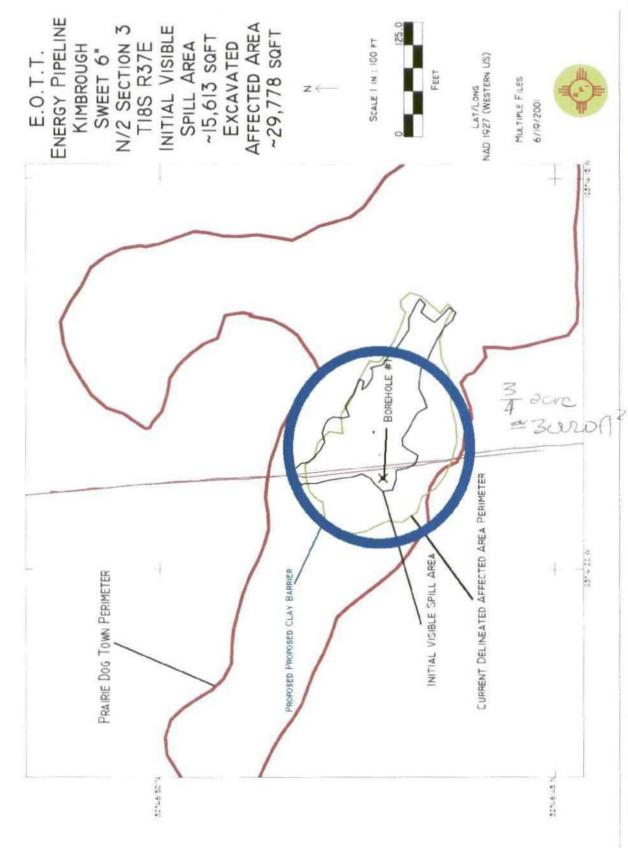


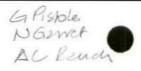
-BENZENE MG/KG

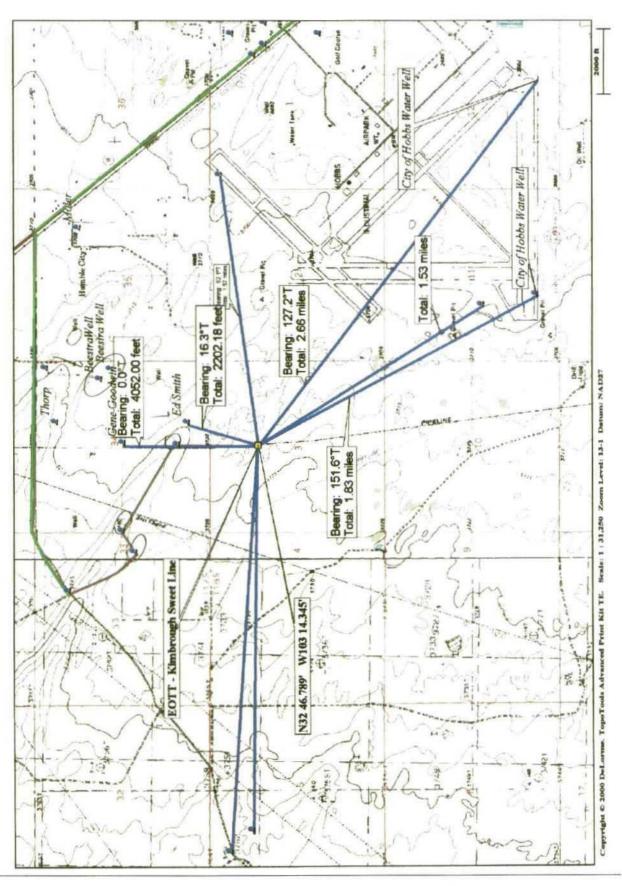
--- NMOCD BENZENE REMEDIAL GOAL 10 MG/KG

Attachment II: Figures and Maps









KIMBROUGH SWEHT SOILAND GROUND WATER REMEDIATION PLAN JULY 2001

4122 PM

10/10

Attachment III: Site Photographs





Attachment IV: Site Information and Metrics Form

		Site In	formation and Metrics	
SITE: Kimbroug	h Sweet		Assigned Site Reference #: 200	00-10757
Company: EOT				
Company Street	Address:5805 E. Highway	80, Midland,	Texas 79701	
Company Mailing	Address: P.O. Box 1660			
Company City, S	tate, Zip: Midland, Texas	79702		
	entative: Frank Hernande			
	entative Telephone: 915.			
	one: 915.684.3451 Fax			
Fluid volume rele				
	>25 bbls: Notify 1	NMOCD verb	ally within 24 hrs and submit form	C-141 within 15 days.
			authorized releases >500 mcf Nati	
5-25	bbls: Submit form C-141	within 15 day	s (Also applies to unauthorized re	leases of 50-500 mcf Natural Gas)
	(LSP) Name: EOTT Ga			
	nination: Pipeline Leak	0 /		
	BLM, ST, Fee, Other: C	erald Pistole		
	affected area = 15,613 ft			
LSP Area = 15,6				
Location of Refe				
	and direction from RP:			
Latitude: 32° 46'				
Longitude: 103°	THE PARTY OF THE P			
	mean sea level: ~ 3720 an	ısl		
Feet from South				
Feet from West S				
The state of the s	$r^{1/4}$ = SE ^{1/4} of the NE ^{1/4}	4		
Location- Section	The second secon			
Location- Towns				
Location- Range				
Location range	W (4-4			
Surface water bo	dy within 1000 ' radius of	site:		
	dy within 1000 'radius of			
	vells within 1000' radius of			
	vells within 1000' radius o			
	r wells within 1000' radius			
	r wells within 1000' radius			
	oly wells within 1000' radi		ne.	
	oly wells within 1000' radi			
	surface to ground water (e e	
			nation >100 mg/Kg occurs groun	d water interface
	water $(DG - DC = DtG)$		nation > 100 mg/ kg occurs groun	d water interface
	ound Water		Vellhead Protection Area	3. Distance to Surface Water Body
	<50 feet: 20 points		om water source, or;<200' from	< 200 horizontal feet: 20 points
	50 to 99 feet: 10 points		estic water source: 20 points	200-100 horizontal feet: 10 points
	-		om water source, or; >200' from	200-100 Holizoniai ieet. 10 punis
If Depth to GW	>100 feet: 0 points	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	estic water source: 0 points	>1000 horizontal feet: 0 points
Ground water Score	= 20		tection Area Score= 0	Surface Water Score= 0
	a = 20 a = 20 + 0 + 0 = 20 points	w euneda Fro.	emon Anta store – U	Surjace w dier State- 0
		. 1.1. 0	45	
The second secon	king Score and Accep	table Conc		7872
	>19		10-19	0-9
Parameter			10	10 ppm
Parameter Benzene ¹	10 ppm		10 ppm	Auto-
Parameter	10 ppm 50 ppm 100 ppm		50 ppm 1000 ppm	50 ppm 5000 ppm