

Denise & Zant
EL PASO FIELD SERVICES
DEPUTY OIL & PRODUCTION PIT CLOSURE

DEC 21 1998

Approved
MCKENZIE #1
Meter/Line ID - 73392

OK
RECEIVED
JUL 2 1998

SITE DETAILS

Legals - Twn: 30 Rng: 12
NMOCD Hazard Ranking: 10
Operator: DUGAN PRODUCTION CORP

Sec: 20 Unit: B
Land Type: 2 - Federal
Pit Closure Date: 02/07/95

OIL CON. DIV.
DIST. 3

RATIONALE FOR RISK-BASED CLOSURE:

The above mentioned production pit was assessed and ranked according to the criteria in the New Mexico Conservation Division's Unlined Surface Impoundment Closure Guidelines.

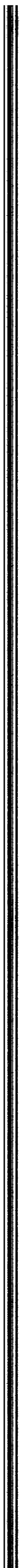
The primary source, discharge to the pit, has been removed. There has been no discharge to the production pit for at least five years and the pit has been closed for at least three years.

The production pit has been remediated to the practical extent of the trackhoe or to the top of bedrock. Initial laboratory analysis has indicated that the soil remaining at the bottom of the excavation is above standards based on the hazard ranking score. Contaminated soil was removed and transported to an approved landfarm for disposal. The initial excavation was backfilled with clean soil and graded in a manner to divert precipitation away from the excavated area. Any rainfall that does infiltrate the ground surface must migrate through clean backfill before reaching any residual hydrocarbons remaining in the soil. Therefore, further mobility of residual hydrocarbons is unlikely.

Since the soil samples from the initial excavation were above standards, a test boring was drilled and a sample was collected to evaluate the vertical extent of impact to soils. Test boring sample results indicated soils below standards beneath the original excavation.

El Paso Field Services Company (EPFS) requests closure of the above mentioned production pit location for the following reasons:

- Discharge to the pit has not occurred in over five years and the pit has been closed for over three years.
- The bulk of the impacted soil was removed during the initial excavation.
- The excavation was backfilled with clean soil and graded to divert precipitation away from the excavation area.
- All source material has been removed from the ground surface, eliminating potential direct contact with livestock and the general public.
- Groundwater was not encountered in the initial excavation or test boring; therefore, impact to groundwater is unlikely.
- Soil samples collected beneath the initial excavation were below standards.
- No potential receptors are within 1,000 feet of the site.
- Residual hydrocarbons remaining in the soil at the bottom of the initial excavation will naturally degrade in time with minimal risk to the environment.



FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 73392 Location: MCKENZIE #1
 Operator #: _____ Operator Name: DUGAN PROD. TENN CO. RT 1-16-95 P/L District: KUTZ
 Coordinates: Letter: B Section 20 Township: 30 Range: 12
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator X Location Drip: _____ Line Drip: _____ Other: _____
 Site Assessment Date: 1-16-95 Area: 02 Run: 63

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps) Inside ☒ (1) Outside ☐ (2)

Land Type: BLM ☒ (1) State ☐ (2) Fee ☐ (3) Indian _____

Depth to Groundwater
 Less Than 50 Feet (20 points) ☐ (1)
 50 Ft to 99 Ft (10 points) ☐ (2)
 Greater Than 100 Ft (0 points) ☒ (3)

Wellhead Protection Area :
 Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction? , or ; Is it less than 200 ft from a private domestic water source? ☐ (1) YES (20 points) ☒ (2) NO (0 points)

Horizontal Distance to Surface Water Body
 Less Than 200 Ft (20 points) ☐ (1)
 200 Ft to 1000 Ft (10 points) ☒ (2)
 Greater Than 1000 Ft (0 points) ☐ (3)

Name of Surface Water Body WYPER ARROYO
 (Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)
 Distance to Nearest Ephemeral Stream ☐ (1) < 100' (Navajo Pits Only)
☐ (2) > 100'

TOTAL HAZARD RANKING SCORE: 10 POINTS

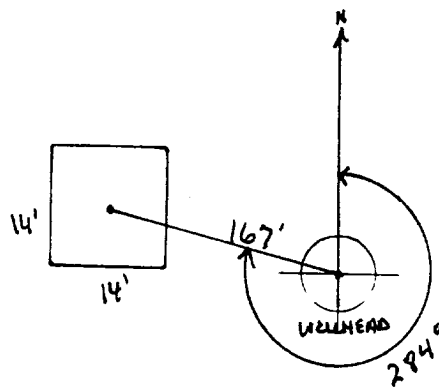
REMARKS

Remarks : REDLINE & TOPO SHOW LOCATION INSIDE V-Z. ONLY PIT ON LOCATION.
BELONGS TO EPAGE. DEHY HAS NOT YET BEEN REMOVED. WILL CLOSE PIT.

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 284° Footage from Wellhead 167'
b) Length : 14' Width : 14' Depth : 2'



REMARKS

Remarks :

PHOTOS - 1530

Completed By:

Robert Thompson

Signature

1.16.95

Date

PHASE I EXCAVATION

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 | 467 | 468 | 469 | 470 | 471 | 472 | 473 | 474 | 475 | 476 | 477 | 478 | 479 | 480 | 481 | 482 | 483 | 484 | 485 | 486 | 487 | 488 | 489 | 490 | 491 | 492 | 493 | 494 | 495 | 496 | 497 | 498 | 499 | 500 | 501 | 502 | 503 | 504 | 505 | 506 | 507 | 508 | 509 | 510 | 511 | 512 | 513 | 514 | 515 | 516 | 517 | 518 | 519 | 520 | 521 | 522 | 523 | 524 | 525 | 526 | 527 | 528 | 529 | 530 | 531 | 532 | 533 | 534 | 535 | 536 | 537 | 538 | 539 | 540 | 541 | 542 | 543 | 544 | 545 | 546 | 547 | 548 | 549 | 550 | 551 | 552 | 553 | 554 | 555 | 556 | 557 | 558 | 559 | 560 | 561 | 562 | 563 | 564 | 565 | 566 | 567 | 568 | 569 | 570 | 571 | 572 | 573 | 574 | 575 | 576 | 577 | 578 | 579 | 580 | 581 | 582 | 583 | 584 | 585 | 586 | 587 | 588 | 589 | 590 | 591 | 592 | 593 | 594 | 595 | 596 | 597 | 598 | 599 | 600 | 601 | 602 | 603 | 604 | 605 | 606 | 607 | 608 | 609 | 610 | 611 | 612 | 613 | 614 | 615 | 616 | 617 | 618 | 619 | 620 | 621 | 622 | 623 | 624 | 625 | 626 | 627 | 628 | 629 | 630 | 631 | 632 | 633 | 634 | 635 | 636 | 637 | 638 | 639 | 640 | 641 | 642 | 643 | 644 | 645 | 646 | 647 | 648 | 649 | 650 | 651 | 652 | 653 | 654 | 655 | 656 | 657 | 658 | 659 | 660 | 661 | 662 | 663 | 664 | 665 | 666 | 667 | 668 | 669 | 670 | 671 | 672 | 673 | 674 | 675 | 676 | 677 | 678 | 679 | 680 | 681 | 682 | 683 | 684 | 685 | 686 | 687 | 688 | 689 | 690 | 691 | 692 | 693 | 694 | 695 | 696 | 697 | 698 | 699 | 700 | 701 | 702 | 703 | 704 | 705 | 706 | 707 | 708 | 709 | 710 | 711 | 712 | 713 | 714 | 715 | 716 | 717 | 718 | 719 | 720 | 721 | 722 | 723 | 724 | 725 | 726 | 727 | 728 | 729 | 730 | 731 | 732 | 733 | 734 | 735 | 736 | 737 | 738 | 739 | 740 | 741 | 742 | 743 | 744 | 745 | 746 | 747 | 748 | 749 | 750 | 751 | 752 | 753 | 754 | 755 | 756 | 757 | 758 | 759 | 760 | 761 | 762 | 763 | 764 | 765 | 766 | 767 | 768 | 769 | 770 | 771 | 772 | 773 | 774 | 775 | 776 | 777 | 778 | 779 | 780 | 781 | 782 | 783 | 784 | 785 | 786 | 787 | 788 | 789 | 790 | 791 | 792 | 793 | 794 | 795 | 796 | 797 | 798 | 799 | 800 | 801 | 802 | 803 | 804 | 805 | 806 | 807 | 808 | 809 | 810 | 811 | 812 | 813 | 814 | 815 | 816 | 817 | 818 | 819 | 820 | 821 | 822 | 823 | 824 | 825 | 826 | 827 | 828 | 829 | 830 | 831 | 832 | 833 | 834 | 835 | 836 | 837 | 838 | 839 | 840 | 841 | 842 | 843 | 844 | 845 | 846 | 847 | 848 | 849 | 850 | 851 | 852 | 853 | 854 | 855 | 856 | 857 | 858 | 859 | 860 | 861 | 862 | 863 | 864 | 865 | 866 | 867 | 868 | 869 | 870 | 871 | 872 | 873 | 874 | 875 | 876 | 877 | 878 | 879 | 880 | 881 | 882 | 883 | 884 | 885 | 886 | 887 | 888 | 889 | 890 | 891 | 892 | 893 | 894 | 895 | 896 | 897 | 898 | 899 | 900 | 901 | 902 | 903 | 904 | 905 | 906 | 907 | 908 | 909 | 910 | 911 | 912 | 913 | 914 | 915 | 916 | 917 | 918 | 919 | 920 | 921 | 922 | 923 | 924 | 925 | 926 | 927 | 928 | 929 | 930 | 931 | 932 | 933 | 934 | 935 | 936 | 937 | 938 | 939 | 940 | 941 | 942 | 943 | 944 | 945 | 946 | 947 | 948 | 949 | 950 | 951 | 952 | 953 | 954 | 955 | 956 | 957 | 958 | 959 | 960 | 961 | 962 | 963 | 964 | 965 | 966 | 967 | 968 | 969 | 970 | 971 | 972 | 973 | 974 | 975 | 976 | 977 | 978 | 979 | 980 | 981 | 982 | 983 | 984 | 985 | 986 | 987 | 988 | 989 | 990 | 991 | 992 | 993 | 994 | 995 | 996 | 997 | 998 | 999 | 1000 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-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FIELD PIT REMEDIATION/CLOSURE FORM

| | |
|---------------------------|--|
| GENERAL | <p>Meter: <u>73392</u> Location: <u>mckenzie #1</u></p> <p>Coordinates: Letter: <u>B</u> Section <u>20</u> Township: <u>30</u> Range: <u>12</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>2-7-95</u> Run: <u>02</u> <u>63</u></p> |
| FIELD OBSERVATIONS | <p>Sample Number(s): <u>MK359</u></p> <p>Sample Depth: <u>4'</u> Feet</p> <p>Final PID Reading <u>833</u> PID Reading Depth <u>4'</u> Feet</p> <p style="text-align: center;">Yes No</p> <p>Groundwater Encountered <input type="checkbox"/> <input checked="" type="checkbox"/> Approximate Depth _____ Feet</p> |
| CLOSURE | <p>Remediation Method :</p> <p>Excavation <input checked="" type="checkbox"/> Approx. Cubic Yards <u>10</u></p> <p>Onsite Bioremediation <input type="checkbox"/></p> <p>Backfill Pit Without Excavation <input type="checkbox"/></p> <p>Soil Disposition:</p> <p>Envirotech <input type="checkbox"/> <input checked="" type="checkbox"/> Tierra</p> <p>Other Facility <input type="checkbox"/> Name: _____</p> <p>Pit Closure Date: <u>2-7-95</u> Pit Closed By: <u>BEJ</u></p> |
| REMARKS | <p>Remarks : <u>Arrived dug sample hole soil turn gray about 6" down Excavated 1 load of sand stone 4' soil Tan Strong Hydro Carbon odor</u></p> |
| | <p>Signature of Specialist: <u>Morgan Killian</u></p> |





FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

| | Field ID | Lab ID |
|----------------------------|----------|-----------------------|
| SAMPLE NUMBER: | mv 359 | 946644 |
| MTR CODE SITE NAME: | 733 92 | N/A |
| SAMPLE DATE TIME (Hrs): | 2-7-95 | 1000 |
| SAMPLED BY: | N/A | |
| DATE OF TPH EXT. ANAL.: | 2-10-95 | 2-10-95 |
| DATE OF BTEX EXT. ANAL.: | 2/9/95 | 2/17/95 |
| TYPE DESCRIPTION: | VC | light Brown Fine sand |

REMARKS:

RESULTS

| PARAMETER | RESULT | UNITS | QUALIFIERS | | | |
|----------------|--------|-------|------------|---|------|-------|
| | | | DF | Q | M(g) | V(ml) |
| BENZENE | 41.24 | MG/KG | 0.46724 | | 2.14 | 20 |
| TOLUENE | 65.4 | MG/KG | | | | |
| ETHYL BENZENE | 16.8 | MG/KG | | | | |
| TOTAL XYLENES | 234 | MG/KG | | | | |
| TOTAL BTEX | 321 | MG/KG | | | | |
| TPH (418.1) | 3380 | MG/KG | | | 1.99 | 28 |
| HEADSPACE PID | 833 | PPM | | | | |
| PERCENT SOLIDS | 91.8 | % | | | | |

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 91.3 % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By:

Date:

4/27/95



```

*****
*                               *
*      Test Method for         *
*      Petroleum Resins and Petroleum hydrocarbons *
*      in Water and Soil      *
*                               *
*      Perkin-Elmer Model 1600 FT-IR. *
*      Analysis Report        *
*****

```

10:10 10:12

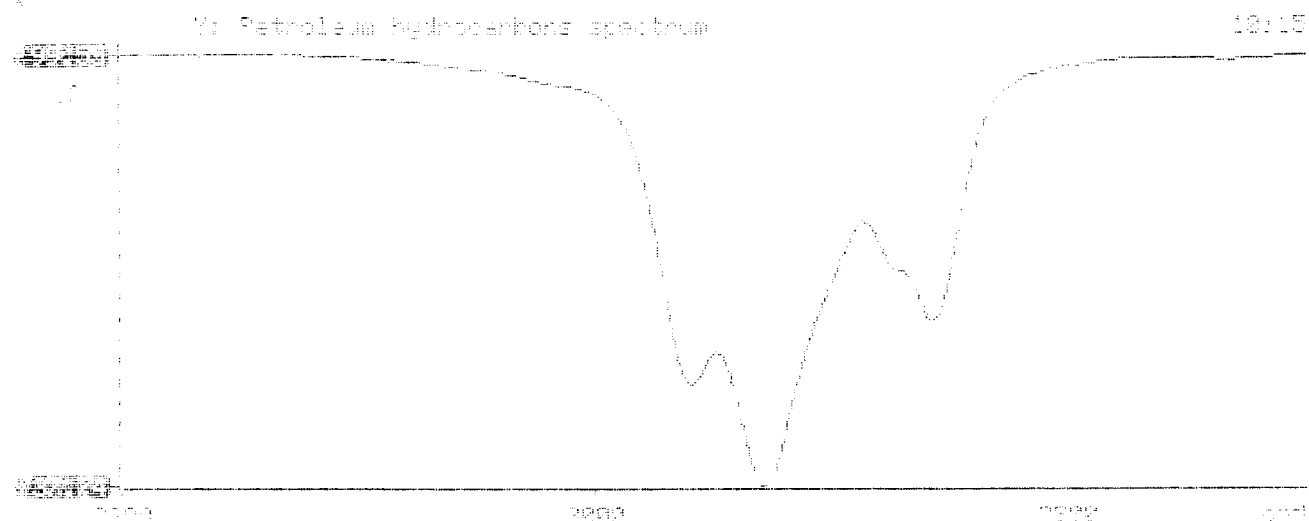
Sample Identification
744412

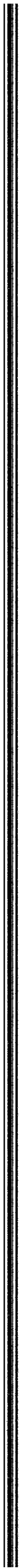
Initial mass of sample, g
1.770

Volume of sample after extraction, ml
20.000

Petroleum hydrocarbons, ppm
1277.674

Net absorbance of hydrocarbons (2930 cm-1)
0.400





BTEX SOIL SAMPLE WORKSHEET

| | | | | | |
|----------------------|---|---------|------------------|---|---------|
| File | : | 946644E | Date Printed | : | 2/20/95 |
| Soil Mass (g) | : | 2.14 | Multiplier (L/g) | : | 0.00234 |
| Extraction vol. (mL) | : | 20 | DF (Analytical) | : | 200 |
| Shot Volume (uL) | : | 100 | DF (Report) | : | 0.46729 |

| | | | Det. Limit |
|------------------------|---|---------|------------|
| Benzene (ug/L) | : | 9.07 | |
| Benzene (mg/Kg): | | 4.238 | 2.336 |
| Toluene (ug/L) | : | 139.94 | |
| Toluene (mg/Kg): | | 65.393 | 2.336 |
| Ethylbenzene (ug/L) | : | 36.04 | |
| Ethylbenzene (mg/Kg): | | 16.841 | 2.336 |
| p & m-xylene (ug/L) | : | 400.00 | |
| p & m-xylene (mg/Kg): | | 186.916 | 4.673 |
| o-xylene (ug/L) | : | 101.80 | |
| o-xylene (mg/Kg): | | 47.570 | 2.336 |
| Total xylenes (mg/Kg): | | 234.486 | 7.009 |
| Total BTEX (mg/Kg): | | 320.958 | |



EL PASO NATURAL GAS**EPA METHOD 8020 - BTEX SOILS**

File : C:\LABQUEST\CHROM001\946644E
 Method : C:\LABQUEST\METHODS\9001.MET
 Sample ID : 946644,2.14G/100uL
 Acquired : Feb 17, 1995 16:05:14
 Printed : Feb 17, 1995 16:31:30
 User : Tony

Channel A Results

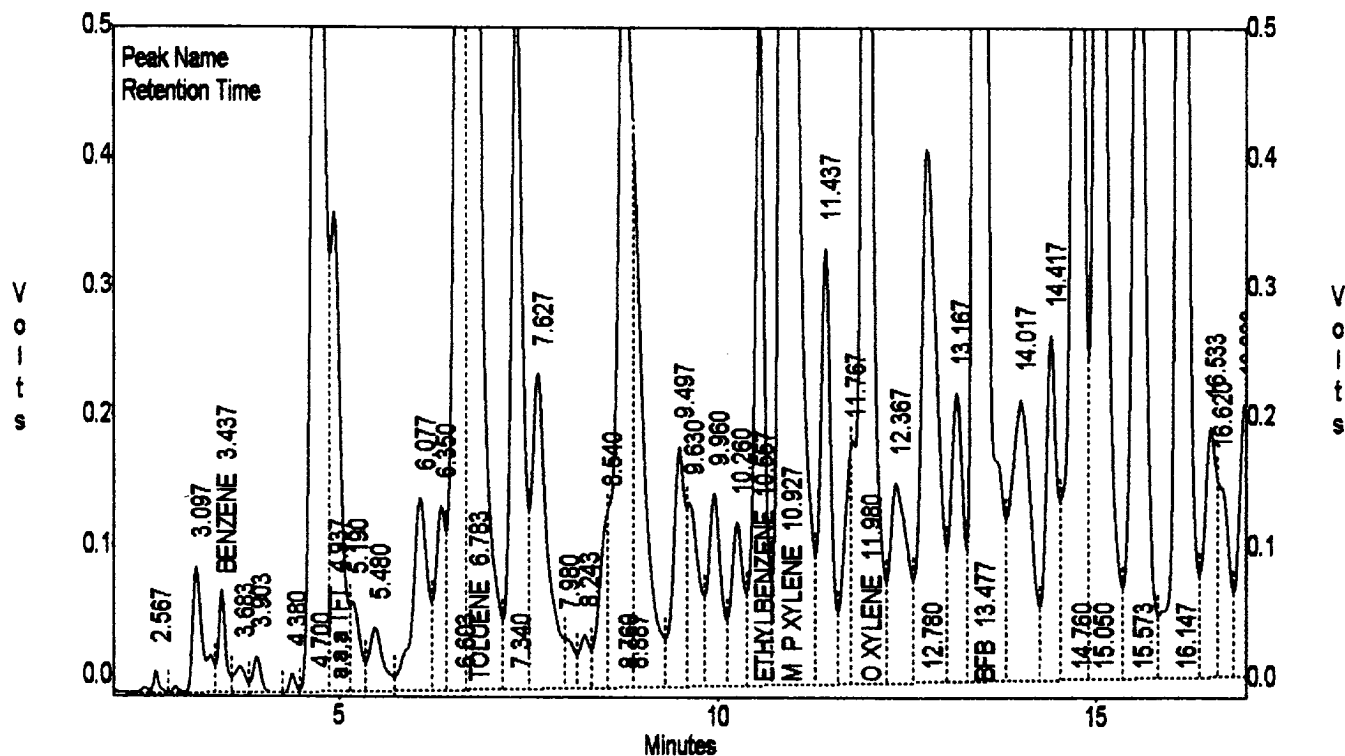
| COMPONENT | RET TIME | AREA | AVG RF | CONC (ug/L) |
|--------------|----------|----------|--------------|-------------|
| BENZENE | 3.437 | 512847 | 56736.33594 | 9.0728 |
| a,a,a TFT | 4.937 | 3632756 | 19718.93164 | 182.2802 |
| TOLUENE | 6.783 | 18867100 | 146611.37500 | 139.9398 |
| ETHYLBENZENE | 10.557 | 4830253 | 140581.12500 | 36.0386 |
| M & P XYLENE | 10.927 | 61214532 | 167174.87500 | 399.9992 |
| O XYLENE | 11.980 | 13456809 | 138510.21875 | 101.8049 |
| BFB | 13.477 | 55843120 | 608473.93750 | 91.3009 |

Totals :

158357408

960.4363

C:\LABQUEST\CHROM001\946644E - Channel A





EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\946844E
 Method : C:\LABQUEST\METHODS\9001.MET
 Sample ID : 946844,2.14G/100uL
 Acquired : Feb 17, 1995 16:05:14
 Printed : Feb 17, 1995 16:31:36
 User : Tony

Channel B Results

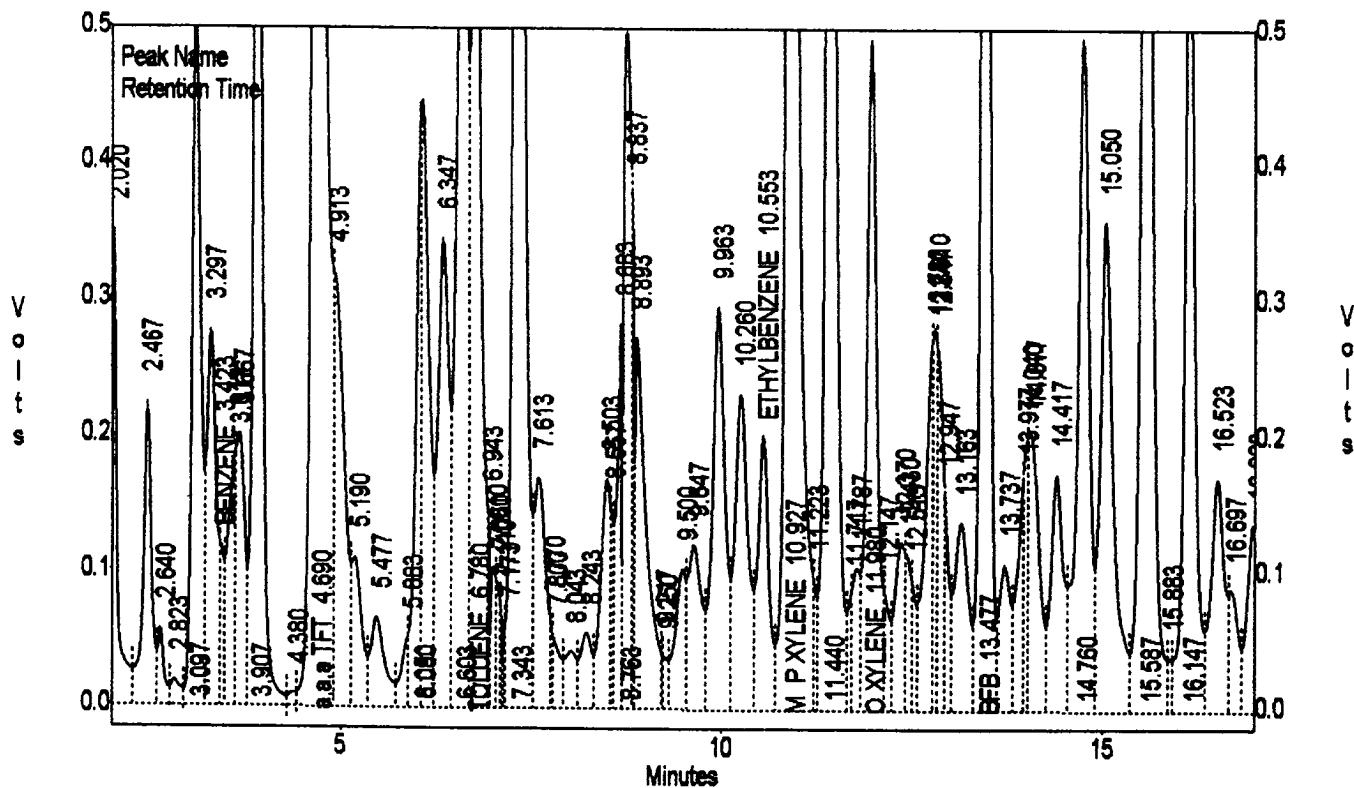
| COMPONENT | RET TIME | AREA | AVG RF | CONC (ug/L) |
|--------------|----------|----------|-------------|-------------|
| BENZENE | 3.423 | 362012 | 35574.40625 | 10.8965 |
| a,a,a TFT | 4.690 | 16265633 | 5732.70117 | 2157.9370 |
| TOLUENE | 6.780 | 6643643 | 37912.04688 | 174.1824 |
| ETHYLBENZENE | 10.553 | 2046935 | 38397.52734 | 52.1189 |
| M & P XYLENE | 10.927 | 20234748 | 39847.84375 | 508.2338 |
| O XYLENE | 11.980 | 4606908 | 38989.35156 | 116.9502 |
| BFB | 13.477 | 9536875 | 85984.89844 | 110.8463 |

Totals :

59696756

3131.1650

C:\LABQUEST\CHROM001\946844E - Channel B





PHASE II

RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp.

4000 Monroe Road

Farmington, New Mexico 87401

(505) 326-2262 FAX (505) 326-2388

Borehole #

BH-1

Well #

Page

of

Project Name EPNG Pits

Project Number 14509

Phase

601-6000

Project Location

McKenzie #1, 73392

Well Logged By

S.Kelly

Personnel On-Site

M. Donohue, J. Long

Contractors On-Site

Client Personnel On-Site

Drilling Method

4 1/4" ID HSA

Air Monitoring Method

CGI, PID

Elevation

Borehole Location T30, R12, S.20, B

GWL Depth

Logged By

S.Kelly

Drilled By

M. Donohue

Date/Time Started

10/5/95, 0820

Date/Time Completed

10/5/95, 1045

| Depth (Feet) | Sample Number | Sample Interval | Sample Type & Recovery (inches) | Sample Description Classification System: USCS | USCS Symbol | Depth Lithology Change (feet) | Air Monitoring Units: NDU BZ BH S | Drilling Conditions & Blow Counts |
|-----------------|------------------|--------------------|--|--|----------------|--|---|--------------------------------------|
| 0 | | | | Backfill to 4' | | | | |
| 15 | 1 | 13-15' | .8' 2.0' | SAND, tan, fine to med. grained, dense. well-graded, dry | | | 54 430 | 0850 |
| 20 | 2 | 18-20 | .9' 2.0' | SAA | | 21 | 75 125 | 0900 |
| 25 | 3 | 23-25 | .75' 2.0' | silty SAND, tan w/ rust mottling, 10-30% silt, fine sand with trace med sand, dense, dry | | | 4 171 | 0915 |
| 30 | 4 | 28-30 | .7' 2.0' | SILT, grey, v. dense, dry | | 30 | 3 26 | 0938 |
| 35 | | | | TOB- 30.0' | | | | |
| 40 | | | | | | | | |

Comments:

28'-30' sample (SEK91) sent to lab. (BTEX & TPH.) Sample was bagged and iced prior to being put in jar. BH grouted to surface.

Geologist Signature

Sarah Kelly





FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

| | Field ID | Lab ID |
|----------------------------|-------------------|---------------------|
| SAMPLE NUMBER: | EME SEK91 | 947593 |
| MTR CODE SITE NAME: | 73392 | Mckenzie #1 |
| SAMPLE DATE TIME (Hrs): | 10-05-95 | 0938 |
| PROJECT: | Phase II Drilling | |
| DATE OF TPH EXT. ANAL.: | 10/6/95 | |
| DATE OF BTEX EXT. ANAL.: | 10/6/95 | 10/6/95 |
| TYPE DESCRIPTION: | VG | 2000 3000 4000 5000 |

Field Remarks:

RESULTS

| PARAMETER | RESULT | UNITS | QUALIFIERS | | | |
|----------------|--------|-------|------------|---|------|-------|
| | | | DF | Q | M(g) | V(ml) |
| BENZENE | < 0.5 | MG/KG | | | | |
| TOLUENE | < 0.5 | MG/KG | | | | |
| ETHYL BENZENE | < 0.5 | MG/KG | | | | |
| TOTAL XYLENES | < 1.5 | MG/KG | | | | |
| TOTAL BTEX | < 3 | MG/KG | | | | |
| TPH (418.1) | < 10 | MG/KG | | | 212 | 28 |
| HEADSPACE PID | 26 | PPM | | | | |
| PERCENT SOLIDS | 91.1 | % | | | | |

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 97% for this sample All QA/QC was acceptable.
Narrative:

DF = Dilution Factor Used

Approved By: 

Date: 10-11-95




```

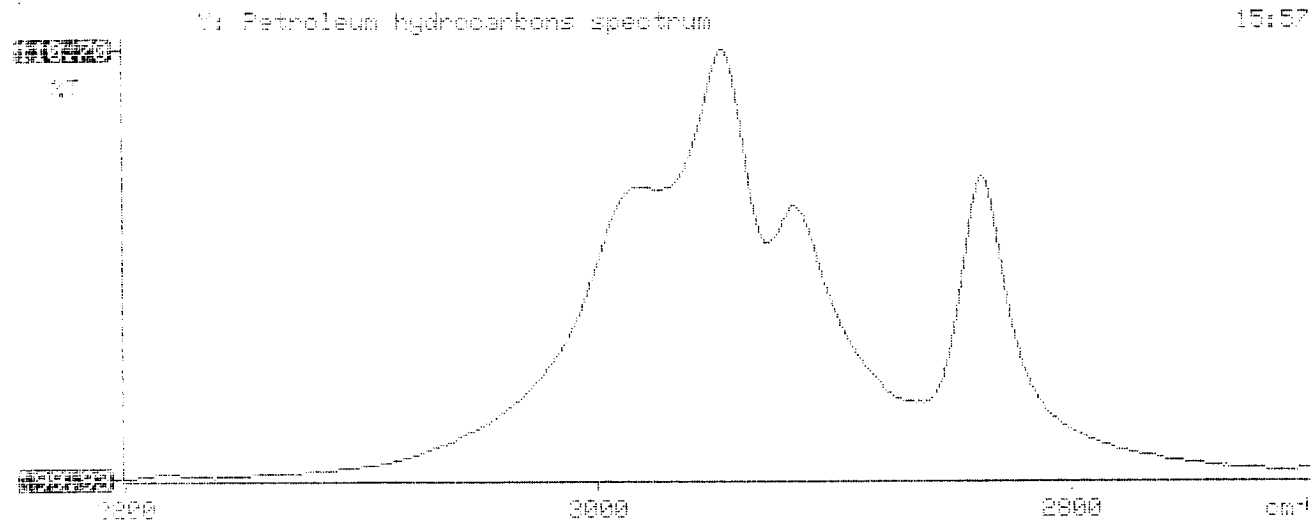
*****
*                                     *
*      Test Method for               *
*      Oil and Grease and Petroleum Hydrocarbons *
*      in Water and Soil             *
*                                     *
*      Perkin-Elmer Model 1600 FT-IR *
*      Analysis Report               *
*                                     *
*****

```

```

*
* 95/10/06 15:57
*
* Sample identification
* 947893
*
* Initial mass of sample, g
* 2.120
*
* Volume of sample after extraction, ml
* 32.000
*
* Petroleum hydrocarbons, ppm
* -248.920
*
* Net absorbance of hydrocarbons (2930 cm-1)
* -0.024
*

```





BTEX SOIL SAMPLE WORKSHEET

| | | | | | |
|----------------------|---|--------|------------------|---|---------|
| File | : | 947593 | Date Printed | : | 10/7/95 |
| Soil Mass (g) | : | 4.98 | Multiplier (L/g) | : | 0.00100 |
| Extraction vol. (mL) | : | 10 | DF (Analytical) | : | 200 |
| Shot Volume (uL) | : | 50 | DF (Report) | : | 0.20080 |

| | | | | Det. Limit |
|---------------------|---|------|------------------------|-------------|
| Benzene (ug/L) | : | 0.18 | Benzene (mg/Kg): | 0.036 0.502 |
| Toluene (ug/L) | : | 0.21 | Toluene (mg/Kg): | 0.042 0.502 |
| Ethylbenzene (ug/L) | : | 0.00 | Ethylbenzene (mg/Kg): | 0.000 0.502 |
| p & m-xylene (ug/L) | : | 0.37 | p & m-xylene (mg/Kg): | 0.074 1.004 |
| o-xylene (ug/L) | : | 0.18 | o-xylene (mg/Kg): | 0.036 0.502 |
| | | | Total xylenes (mg/Kg): | 0.110 1.506 |
| | | | Total BTEX (mg/Kg): | 0.189 |



EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\100695-0.006
 Method : C:\LABQUEST\METHODS\0-092095.MET
 Sample ID : 947593,4.98G,50U
 Acquired : Oct 06, 1995 18:49:56
 Printed : Oct 06, 1995 19:20:19
 User : MARLON

Channel A Results

| COMPONENT | RET TIME | AREA | CONC (ug/L) |
|--------------|----------|----------|-------------|
| BENZENE | 8.150 | 68742 | 0.1837 |
| a,a,a-TFT | 10.513 | 9317197 | 106.4995 |
| TOLUENE | 12.933 | 77888 | 0.2140 |
| ETHYLBENZENE | 17.170 | 0 | 0.0000 |
| M,P-XYLENES | 17.660 | 149287 | 0.3721 |
| O-XYLENE | 18.830 | 57330 | 0.1751 |
| BFB | 19.887 | 52832808 | 96.9265 |

