CA 445

## JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE

SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL & GAS ADMINISTRATION

P.O. BOX 507
DULCE, NEW MEXICO 87528

PIT REMEDIATION AND CLOSURE REPORT

| Operator: CONOCO, INC.   | <b>Telephone</b> : (505) 324-5884  |
|--|--|
| Address: 3315 Bloomfield Hwy., Farmington  | , NM 87401   |
| Facility or Well Name: JICARIUG K #  | 12E  |
| Location: Unit or Qtr/Qtr Sec Sec Z TZSN   |  |
| Pit Type: Separator × Dehydrator Other   |  |
| Land Type: RANGE   |  |
| · ·  |  |
| Pit Location: Pit dimensions: length 3/' (Attach diagram)  | , width 30', depth_/9'   |
| Reference: wellhead X, oth   | ner  |
| Footage from reference: /23'   | <u></u>  |
| Direction from reference: 57   | _ Degrees East North   |
|  | West South   |
| Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of groundwater)  Depth To Groundwater:  OCT 2 9 1996 | Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points)      |
| Distance to an Ephemeral Stream (Downgradient dry wash greater than ten feet in width)   | Less than 100 feet (10 points) Greater than 100 feet (0 points)                                    |
| Distance to Nearest Lake, Playa, or Watering Pond (Downgradient lakes, playas and livestock or wildlife watering ponds)                          | Less than 100 feet (10 points) Greater than 100 feet (0 points)                                    |
| Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or: less than 1000 feet from all other water sources)        | Yes (20 points) No (0 points)  |
| Distance To SurfaceWater: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)                | Less than 100 feet (20 points) 100 feet to 1000 feet (10 points) Greater than 1000 feet (0 points) |
| RA   | NKING SCORE (TOTAL POINTS):  |

CA445 SEP. PIT

| , )  |  |  |  |  |
|--|--|--|--|--|
| Date Remediation Started: 8-27-96 Date Completed: 9/23/96  |  |  |  |  |
| Permediation Method: Excavation X Approx. cubic yards  |  |  |  |  |
| ck all appropriate suctions)  Landfarmed X  Insitu Bioremediation  |  |  |  |  |
| Other  |  |  |  |  |
| Remediation Location: Onsite Offsite Increase In |  |  |  |  |
| General Description of Remedial Action: Excavation   |  |  |  |  |
| Groundwater Encountered: No X Yes Depth  |  |  |  |  |
| Final Pit: Sample location see Attached Documents Closure Sampling: (if multiple samples,  |  |  |  |  |
| attach sample results and diagram of sample Sample depth   |  |  |  |  |
| locations and depths)  Sample date 9/23/96 Sample time //50  |  |  |  |  |
| Sample Results   |  |  |  |  |
| Soil: Benzene (ppm) Water: Benzene (ppb)   |  |  |  |  |
| Total BTEX (ppm) Toluene (ppb)   |  |  |  |  |
| Field Headspace (ppm) Ethylbenzene (ppb)   |  |  |  |  |
| TPH (ppm) 48 Total Xylenes (ppb)   |  |  |  |  |
| Groundwater Sample: Yes No (If yes, attach sample results)   |  |  |  |  |
| I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEGE AND BELIEF   |  |  |  |  |
| DATE 9/23/96 PRINTED NAME Jeffrey C. Blagg, P.E.# 11607  |  |  |  |  |
| SIGNATURE Jeffy C. Slogg AND TITLE President   |  |  |  |  |
| AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.  |  |  |  |  |
| APPROVED: YES NO (REASON)  |  |  |  |  |
| SIGNED: 1 DATE: 9-24-96  |  |  |  |  |

| FIELD REPORT: CLOSURE VERIFICATION PAGE NO: / of / LOCATION: NAME: JUDGULAR K WELL #: /z & PIT: SEP QUAD/UNIT M SEC Z TWP: ZSN RNG: SW PM: NM CNTY RA STLIME PROPERTY OF THE CONTRACTOR ACME GARZA  EXCAVATION APPROX. 31 FT. x 70 FT. x 19 FT. DEEP. CUBIC YARDAGE: SWO DISPOSAL FACILITY: JUDGULAR LANDROW # 7 REMEDIATION METHOD: LANDRAMED FORMATION:  LAND USE: RABGE LEASE: CONTRACT # 145 FORMATION:  FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY /23 FT. NSTE FROM WELLHEAD.  DEPTH TO GROUNDWATER 1000 NEAREST VATER SQURCE: 71000 NEAREST SUBFACE VATER SQURCE: 21000 PM  MINDED RANKING SCORE: NEGOCIATION DESCRIPTION:  SOIL AND EXCAVATION DESCRIPTION:  MINDED RANKING SCORE: NEGOCIATION DESCRIPTION:  SOIL AND EXCAVATION DESCRIPTION:  THE SAMPLE ID. LAB NO: WEIGHT (a) INC. FROM DILUTION READING CALC. PPM  PIT PERIMETER NO APPROXIMATE OF THE NO. APPROXIMATE OF THE N | CLIENT: CONOCO P.   | BLAGG E<br>O. BOX 87, I<br>(50)   |  | LD, Ni            |            | 3            |                              | <u>CA445</u>                                    |
|--|---|---|--|-------------------|------------|--------------|------------------------------|---|
| QUAD/UNIT M SE'S Z TYP ZSN RNG: SW PM NM CNTY-RA STIMM OTP/FORTAGE SWY SW Y CONTRACTOR ACME GARZA  EXCAVATION APPROX 31 FT. x 30 FT. x 19 FT. DEEP. CUBIC YARDAGE: SOO DISPOSAL FACILITY: TICORUMA LAWRING. # 7 REMEDIATION METHOD: LAWBERNEOUS DISPOSAL FACILITY: TICORUMA LAWRING. # 7 REMEDIATION METHOD: LAWBERNEOUS DISPOSAL FACILITY: TICORUMA LAWRING. # 7 REMEDIATION METHOD: LAWBERNEOUS DISPOSAL FACILITY: TICORUMA LAWRING. # 7 REMEDIATION METHOD: LAWBERNEOUS DISPOSAL FACILITY: TICORUMA LAWRING. # 7 REMEDIATION METHOD: LAWBERNEOUS DISPOSAL FACILITY: TICORUMA LAWRING. # 7 REMEDIATION METHOD: LAWBERNEOUS DISPOSAL FACILITY: TICORUMA LAWRING. # 7 REMEDIATION:  FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 123 FT. NOTE FROM WELLHEAD. DEPTH TO GROUNDWATER 2100' NEAREST VATER SOURCE: 21000' NEAREST SURFACE VATER. 21000' NAMOCO RANKING SCORE MANUAL PROVIDED SOURCE STORY STAND COHESUDE,  NOTE OF THE COUNTY OF THE NO APPROXIMATE STATY STAND. COHESUDE,  SOUNT TRANSES, NO AMBREST STAINING OFFICE WITH ANY OF THE OWN, TRANSPORT STAINING OFFICE WITH SURFACE STATY STAND.  CLOSED  FIELD 418.1 CALCULATIONS  TIME SAMPLE ID. LAB NO: WEIGHT (g) INC. FREON DILUTION READING CALC. PPM  PIT PERIMETER N RESULTS  TIME SAMPLE ID. LAB NO: WEIGHT (g) INC. FREON DILUTION READING CALC. PPM  PIT PERIMETER N RESULTS  TIME SAMPLE ID. LAB NO: WEIGHT (g) INC. FREON DILUTION READING CALC. PPM  PIT PERIMETER N RESULTS  THE TOP MORPHS A 31'  LAB SAMPLES  SWELL RAWSON ME  LAB SAMPLES  SWELL RAWSON ME  LAB SAMPLES  SWELL RAWSON ME   | FIELD REPORT:   | : CLOSU   | RE VER   | RIFIC.            | ATION      | PAGE         | No:                          | / of/_  |
| DISPOSAL FACILITY: TICARLUA LANGRAM # 7 REMEDIATION METHOD: LANGRAMEO  LAND USE: RANGE LEASE: CONTRACT # 145 FORMATION:  FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 123 FT. N57E FROM WELLHEAD.  DEPTH TO GROUNDWATER 2100' NEAREST VATER SOURCE: 21000' NEAREST SURFACE VATER: 21000'  NNOCD RANKING SCORE: NAMOCD TPH CLOSURE STD 5000 PPM CHECK LINE:  PIT ABANDONED  SOIL AND EXCAVATION DESCRIPTION:  MASTING GENERAL TO THE NO APPRENT HC 2001 IN ANY OF THE SUMMAY MOIST FION TO THE NO APPRENT HC 2001 IN ANY OF THE SUMMAY MOIST FION TO THE NO APPRENT HC 2001 IN ANY OF THE SUMMAY MOIST FION TO THE NO APPRENT HC 2001 IN ANY OF THE SUMMAY MOIST FION TO THE NO APPRENT HC 2001 IN ANY OF THE SUMMAY MOIST FION TO THE NO APPRENT HONOR SECRED WIND SHOWN CALC. PPM  SCALE  OFT  PIT PERIMETER N RESULTS  FIELD 418.1 CALCULATIONS  F | QUAD/UNIT: M SEC: Z   | TWP: ZSN RNG:   | SW PM: Nr  | CNTY              | RA ST:NM   | DATE F       | INISHED: _                   |   |
| DEPTH TO GROUNDVATER. 2000 NEAREST VATER SQURCE: 2000 NEAREST SUFFACE VATER: 21000'  NMOCD TANKING SCORE: NMOCD THE CLOSURE STD. 5000 PPM  SDIL AND EXCAVATION DESCRIPTION:  THE SAMPLE ID. LAB NO: WEIGHT (g) ml. FREON DILUTION READING CALC. PPM  SCALE  O FT  PIT PERIMETER N  RESULTS  SUPPLE SAMPLE ID. LAB NO: WEIGHT (g) ml. FREON DILUTION READING CALC. PPM  PIT PERIMETER N  RESULTS  SUPPLE SAMPLE ID. LAB NO: WEIGHT (g) ml. FREON DILUTION READING CALC. PPM  PIT PERIMETER N  RESULTS  PIT PROFILE  SUPPLE SAMPLE ID. LAB NO: WEIGHT (g) ml. FREON DILUTION READING CALC. PPM  PIT PERIMETER N  RESULTS  PIT PROFILE  SUPPLE SAMPLE ID. LAB NO: WEIGHT (g) ml. FREON DILUTION READING CALC. PPM  PIT PERIMETER N  RESULTS  PIT PROFILE  SUPPLE SAMPLE ID. LAB NO: WEIGHT (g) ml. FREON DILUTION READING CALC. PPM  PIT PERIMETER N  RESULTS  PIT PROFILE  SUPPLE SAMPLE ID. LAB NO: WEIGHT (g) ml. FREON DILUTION READING CALC. PPM  PIT PERIMETER N  RESULTS  PIT PROFILE  LAB SAMPLES  SAMPLE NAME NAME NAME NAME NAME NAME NAME NAM  | DISPOSAL FACILITY: JCCOL  | LEASE   | # 7 REM  | EDIATIC<br>T #149 | N METH     | OD: 4        | ON:                          | mED   |
| SCALE  OFT  PIT PERIMETER  OFT  PIT PERIMETER  OFT  SWAPE  OFT  PIT PERIMETER  OFT  OFT  OFT  OFT  OFT  OFT  OFT  OF   | DEPTH TO GROUNDWATER: >100  | NEAREST WATER SE  | JURCE: >100  | NE                | AREST SURF | ACE WATE CHE | R: > 10<br>CK ONI<br>ABANDON | <u>&gt;                                    </u> |
| SCALE  O FT  PIT PERIMETER  N  SAMPLE I.D. LAB No: WEIGHT (9) ML. FREON DILUTION READING CALC. ppm  OVM  RESULTS  PIT PROFILE  SAMPLE PROPRICE  10 PROFILE  SAMPLE PROPRICE  10 PROFILE  A  31  LAB SAMPLES  SAMPLE ANLYSIS TIME   | MUSICY LT. OLUE GERY TO OK. YELL. ORDING SILTY SAND, COHESIVE, SIGHTLY MOIST FIRM TO TITH NO APPRENT HE DOOR IN ANY OF THE OUM SAMPLES, NO APPRENT STAINING OBSERVED WIN EXCUSTION.  CLOSED |   |  |                   |            |              |                              |   |
| O FT  PIT PERIMETER N  RESULTS  SAMPLE FELD HEADSPACE PRO (ppm)  10 /4/ 0.0  30 /3/ 0.0  30 /3/ 0.0  10 /4/ 0.0  30 /3/ 0.0  10 /4/ 0.0  1 | ļ -   | 60.2  | LAB No: WE   | IGHT (g)          | mL. FREON  |              |                              |   |
| SAMPLE PRID HEADSPACE PRO (ppm)    SAMPLE   FIELD HEADSPACE PRO (ppm)   1 @ /4 / 0.0   2 @ /4 / 0.0   3 @ /3 / 0.0   4 @ /4 / 0.0   5 @ /9 / 0.0   5 @ /9 / 0.0   1 @ /4 / 0.0   5 @ /9 / 0.0   1 @ /4 / 0.0   5 @ /9 / 0.0   1 @ /4 / 0.0   5 @ /9 / 0.0   1 @ /4 / 0.0   5 @ /9 / 0.0   1 @ /4 / 0.0   1 @ /4 / 0.0   1 @ /4 / 0.0   2 @ /4 / 0.0   3 @ /3 / 0.0   4 @ /4 / 0.0   5 @ /9 / 0.0   5 @ /9 / 0.0   5 @ /9 / 0.0   5 @ /9 / 0.0   5 @ /9 / 0.0   6 @ /4 / 0.0   7 @ /4 /  | O FT  |   | OVM  | 5                 |            |              |                              |   |
| TRAVEL NOTES: CALLOUT: 9/20/96 ONSITE: 9/23/96 MORN.   | TO WEND A SO TANK   | SAMPLE 10 1 2 6 / 3 2 / | FIELD HEADSP PID (ppm)  4/ 0.0  4/ 0.0  7/ 0.0  7/ 0.0  AB SAMPLES  ANALYSIS | TIME              | A          | 31           |                              | A'  |

## BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

## FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

CONOCO

Sample ID:

5 @ 19'

Project #:
Date Analyzed:

09-23-96

Project Location:

Jicarilla K # 12E

Date Reported:

09-23-96

Laboratory Number:

TPH-1830

Sample Matrix:

Soil

| Parameter              | Result, mg/kg | Detection<br>Limit, mg/kg |
|------------------------|---------------|---------------------------|
| Total Recoverable      |               |                           |
| Petroleum Hydrocarbons | 48            | 20                        |

ND = Not Detectable at stated detection limits.

QA/QC:

| QA/QC Sample | Duplicate | %      |
|--------------|-----------|--------|
| TPH mg/kg    | TPH mg/kg | *Diff. |
|              |           |        |
| 4640         | 4400      | 5.31   |

<sup>\*</sup>Administrative Acceptance limits set at 30%.

Method:

Modified Method 418.1, Petroleum Hydrocarbons, Total

Recoverable, Chemical Analysis of Water and Waste,

USEPA Storet No.4551, 1978

Comments:

Separator Pit - CA445

Analyst

Acception Review