DEPUTY OIL & GAS INSPECTOR JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE P.O. BOX 507

SUBMIT I COPY TO

JUN 23 1998

DULCE, NEW MEXICO 87528

### PIT REMEDIATION AND CLOSURE REPORT

|                                                                                                                                           | المحالة المتالة التناف المتالة في المتالة في المتالة المتالة المتالة المتالة المتالة المتالة المتالة المتالة ا |                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------|
| Operator: Golden Oil Company Chace.                                                                                                       | Telephone:                                                                                                     | 713) 622-8492                     |
| Address: 550 Post Oak Boulevard, Suite 550 Hous                                                                                           | ston, Texas 77027                                                                                              |                                   |
| Facility or Well Name: Jicarilla 70-15                                                                                                    | 1N                                                                                                             |                                   |
| Location: Unit or Utr/Utr Sec 0 Sec 34 T                                                                                                  | R 4W County Rio Arriba                                                                                         |                                   |
| Pit Type: Separator Dchydrator Other P                                                                                                    | roduction Tank                                                                                                 |                                   |
| Land Type: Range                                                                                                                          |                                                                                                                |                                   |
| (A. J. P. man)                                                                                                                            | <b>5', width15',</b> de                                                                                        |                                   |
| Reference: wellhead X,                                                                                                                    | other                                                                                                          |                                   |
| Footage from reference: 114                                                                                                               |                                                                                                                |                                   |
| Direction from reference: 6                                                                                                               | Of                                                                                                             | orth                              |
|                                                                                                                                           | West S                                                                                                         | OUT                               |
| Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of groundwater)                               | 50 feet to 99 feet (10                                                                                         | ) points) ) points) ) points)     |
| Distance to an Ephemeral Stream (Downgradient dry wash greater than ten feet in width)                                                    | Less than 100 feet (1<br>Greater than 100 feet (                                                               | 0 points) 0                       |
| Distance to Nearest Lake, Playa, or Watering Pond (Downgradient lakes, playas and livestock or wildlife watering ponds).                  |                                                                                                                | 0 points) 0                       |
| Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or: less than 1000 feet from all other water sources) | No (                                                                                                           | 20 points) 0 points) 0            |
| Distance To SurfaceWater: (Horizontal distance to perennial lakes, punds, rivers, streams, croeks, irrigation canals and disches)         | 100 feet to 1000 feet (                                                                                        | 20 points) 10 points) 0 points) 0 |
|                                                                                                                                           | BANKING SCORE (TOTAL P                                                                                         | DINTS): 0                         |

| Date Remediation St                                                                  | tarted: November 25, 1997 D                                                        | ate Completed:       | November 25, 1997   |
|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------|---------------------|
| Remediation Method:<br>(Check all appropriate<br>sections)                           | <b>▼</b> Z                                                                         | itu Bioremediation _ | 63                  |
| Remediation Location (i.e. landfarmed onsite, name and location of offsite facility) |                                                                                    |                      |                     |
|                                                                                      | ntered: No X Yes                                                                   |                      |                     |
| Final Pit:<br>Closure Sampling:<br>(if multiple samples,                             | Sample location See Attached Docu                                                  | ments                |                     |
| attach sample results<br>and diagram of sample<br>locations and depths)              | Sample depth 4' below pit bottom  Sample date 11-25-97  Sample Results             | Sample time          |                     |
|                                                                                      | Soil: Benzene (ppm)  Total BTEX (ppm)  Field Headspace (ppm)  3.3  TPH (ppm)  3950 | Tolue                |                     |
| Groundwater Sample                                                                   | e: Yes No X (If yes,                                                               | attach sample resul  | ts)                 |
| I HEREBY CERTIFY<br>KNOWLEGE AND B                                                   | •                                                                                  |                      |                     |
| DATE 1                                                                               | PRINTED NAME _                                                                     |                      |                     |
| SIGNATURE A                                                                          | and If 3/2/1 AND TITLE                                                             | Environmenta         |                     |
| TO THE JICARILLA                                                                     | F THE PIT CLOSURE INFORMATION, PIT<br>A APACHE TRIBE PIT CLOSURE ORDINAL           | CLOSURE IS APPENCE.  | ROVED IN ACCORDANCE |
| APPROVED: YES _                                                                      | NO (REASON)                                                                        | -6-98                |                     |

Quad : Reference: 114' S. 60 E. Range Location: Jicarilla 70-15 Final Size: 15' x 15' x 7' deep Initial Size: 9'x 9'x 3' deep Nearest Water Source: Depth to Groundwater: Yds. Excavated: Comments: 0'-1' Grey, sandy loam, light grey, HC staining, NMOCD Ranking Score Nearest Surface Water: TPH Closure Standard: Pit Profile : North to South : North of wellhead **4**W Production Tank slight odor, moist Encased in bedrock, slight HC odor 0 Section: 63 cy Township: >1000 >1000 5000 Sample # Location 24N 34 10 œ φ Nwall@4 Wwall@4 BTM@6' Ewall@4' South 6 OVM 0.7 0.7 0.7 Overview of Location and Sampling: Pit Profile : East to West : East Separator Wellhead ഗ Production Tank North West Surface Grade

Page \_\_1\_\_ of \_\_1

OFF: (505) 325-5667



LAB: (505) 325-1556

#### ANALYTICAL REPORT

Attn:

Frank McDonald

Date:

1-Dec-97

Company: Cimarron Oilfield Service

COC No.:

6596

Address:

P.O. Box 3235

Sample No.:

16975

City, State: Farmington, NM 87401

Job No.:

2-1000

Golden Oil Co.

Project Name: Project Location:

Jic. 70-15 Production Tank Pit Bottom @ 6'

Sampled by:

BS

Date: Date:

25-Nov-97 Time:

12:30

Analyzed by:

HR

1-Dec-97

Sample Matrix:

Soil

#### Laboratory Analysis

| Parameter                         | Results as<br>Received | Limit of<br>Quantitation | Unit of<br>Measure | Method           |
|-----------------------------------|------------------------|--------------------------|--------------------|------------------|
| Total Petroleum Hydrocarbons, TPH | 3950                   | 250                      | mg/kg              | EPA Method 418.1 |

ND - Not Detected at Limit of Quantitation

#### Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

| Laboratory Identification               | Analyzed<br>Value | Acceptable<br>Range | Unit of<br>Measure |
|-----------------------------------------|-------------------|---------------------|--------------------|
| Laboratory Fortified Blank Soil - QCBS2 | ND                | ND ND               | mg/kg              |
| Laboratory Fortified Spike Soil - QCSS1 | 849               | 800-1200            | mg/kg              |

Dunligation

| <i>Дирисанон</i>          |     |       |
|---------------------------|-----|-------|
|                           |     | Limit |
| Laboratory Identification | RPD | RPD   |
| Caboratory Identification |     |       |
| 16974-6596                | 7.5 | 15.0  |
| 1/09/4-0030               |     |       |

Approved by:

## ON SITE

# CHAIN OF CUSTODY RECORD

Date: 11-25-97

Page \_\_\_\_/\_\_of\_\_\_/

TECHNOLOGIES, LTD.

657 W. Maple • P. O. Box 2606 • Farmington NM 87499 LAB: (505) 325-5667 • FAX: (505) 325-6256

| 1/2007 | Rush 24-48 Hours      | Relinquished by: Date/Time Received by: | Relinquished by: Date/Time Received by: | 4 (1000   |  |  |  |   | P. + Blace 100 112601217 SI | 1. Rlan (06) | 7. 3/1-1 1/2/ Fact 1/ Blass 7 1/20/ 12/ 20/ 1 1 | SAMPLE IDENTIFICATION  DATE TIME MATRIX PRES. | Sampler: B Sales Alas Number | er of       |                    | City, State, Zip Farming ton 1111 87401 | PRINCE SASS                   | Company Dept. Dept. O. J. Mailing Address / | TO Company C. (7) | Name /               |  |
|--------|-----------------------|-----------------------------------------|-----------------------------------------|-----------|--|--|--|---|-----------------------------|--------------|-------------------------------------------------|-----------------------------------------------|------------------------------|-------------|--------------------|-----------------------------------------|-------------------------------|---------------------------------------------|-------------------|----------------------|--|
|        |                       |                                         | Received by:                            | 10        |  |  |  | 1 | 7                           | `            |                                                 |                                               | Conta                        | er of iners | ANALYSIS REQUESTED | Telephone No. 327 1787                  | City, State, Zip Farm 15t. MM | Mailing Address / O. Roy 3335               | Company (         | Name Frank M. Bogell |  |
|        | Special Instructions: | Date/Time                               | Date/Time                               | Date/Time |  |  |  |   |                             |              |                                                 | LABID                                         |                              |             | STED               | Telefax No.                             | 67461                         |                                             |                   | Title                |  |

Distribution: White - On Site Yellow - LAB Pink - Sampler Goldenrod - Client

Quad : Initial Size: 9' x 9' x 3' deep Final Size: 15' x 15' x 7' deep Reference: 114'S. 60 E. Pit Profile : North to South : Comments: TPH Closure Standard: NMOCD Ranking Score Nearest Surface Water: Nearest Water Source: Depth to Groundwater: Yds. Excavated: Range : Location: Jicarilla 70-15 of wellhead **4**₩ **Production Tank** 0'-1' Grey, sandy loam, light grey, HC staining, slight odor, moist 0 Section : Encased in bedrock, slight HC odor 63 cy Township: >1000 >1000' >100' 5000 Sample # 24N 34 10 9 œ Location Wwall@4 Ewall@4' Swall@4' Nwall@4' BTM@6 OVM 0.7 0.7 0.7 12 Overview of Location and Sampling: Pit Profile : East to West :

Client :

Golden Oil Co.

Date Started: 11 October 1997 Date Completed: 11 October 1997

\_Date Completed : //-25-97

| Pit Profile : North to South :         | Location: Sic 70-15  Quad: Section: 34  Range: 4W Township: 24N  Pit froe: Tank Reference: 114' 560°E  Final Size: 15 x 15 x 7  Yds. Excavated: 3  Depth to Groundwater: 21000  Nearest Water Source: 21000  Nearest Water Source: 21000  TPH Closure Standard: 50000  TPH Closure Standard: 50000  TOWNShip: 24N  Sample # Location OVM  1 81m26 3.3  Sample # Location OVM  1 81m26 3.3  Final Size: 15 x 15 x 7  Yds. Excavated: 3  Depth to Groundwater: 21000  TOWNShip: 24N  Sample # Location OVM  1 81m26 3.3  Final Size: 15 x 15 x 7  Yds. Excavated: 3  Comments: 30000  TOWNShip: 24N  Sample # Location OVM  1 81m26 3.3  Final Size: 15 x 15 x 7  Township: 24N  Sample # Location OVM  1 81m26 3.3  Comments: 15 x 15 x 7  Township: 24N  Township: 24 |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ### ********************************** | d Sampling  Dear S.G.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |