1R- 187

# REPORTS

# DATE:

7/17/1998

HSO

District I
P O Box 1980 Hobbs, NM
District II
Drawer DD, Artesia, NM 88211
District III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

(Revised 3/9/94

# OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NM 87505

## PIT REMEDIATION AND CLOSURE REPORT

Operator: UMC/OCEAN ENERGY Telephone: (303) 623-4221

Address: 410 17th St. Suite 1400, DENVER COLORADO 80202

Facility Or: CARLISLE STATE Com #1
Well Name

Location: Unit or Qtr/Qtr Sec _____ Sec 1 T 16S R 35E County LEA

Pit Type: Separator ___ Dehydrator ___ Other Utility Pit

Land Type: BLM ___, State ✓, Fee ___, Other _____

| | | |
|---|---|---|
| Pit Location: (Attach diagram) | Pit dimensions: length 30', width 10', depth 3' | |
| | Reference: wellhead ✓, other _____ | |
| | Footage from reference: .5 mile | |
| | Direction from reference: S Degrees 0 East North 0 of 0 West South 180 | |
| Depth To Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water) | Less than 50 feet (20 points)<br>50 feet to 99 feet (10 points)<br>Greater than 100 feet (0 Points) | 10 |
| 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)<br>No (0 points) | 0 |
| Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches) | Less than 200 feet (20 points)<br>200 feet to 1000 feet (10 points)<br>Greater than 1000 feet (0 points) | 0 |
| | RANKING SCORE (TOTAL POINTS): | 10 |

JUL 1998
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Hobbs
OCD

NSP

Date Remediation Started: April 29 1998 Date Completed: 5-31-98

Remediation Method: (Check all appropriate sections) Excavation ✓ Approx. cubic yards 4 yd3

Landfarmed ___ Insitu Bioremediation ___

Other ___

Remediation Location: (ie. landfarmed onsite, name and location of offsite facility) Onsite ✓ Offsite ___

General Description Of Remedial Action: The mud + 1 feet of the pit bottom were excavated + stored at the SW corner of the Carlisle State Com #1 drilling reserve pit.

Ground Water Encountered: No ✓ Yes ___ Depth ___

Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location "Halliburton South Pit"

Sample depth 3' below grade

Sample date 5-29-98 Sample time 1000

Sample Results

Benzene(ppm) <.002

Total BTEX(ppm) .009

Field headspace(ppm) 10-12

TPH 282

Ground Water Sample: Yes ___ No ✓ (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 7-16-98

SIGNATURE Pat W. McCasland PRINTED NAME AND TITLE PAT W. McCASLAND SAFETY + ENVIRONMENTAL DIRECTOR CALLAWAY SAFETY EQUIPMENT CO., INC

# Final Remedial Action Report

*UMC/Ocean Energy:*

*Carlisle State Com #1*

*"Halliburton South Pit"*

*N.M.P.M. S15 T16S R35E*

*990' FNL & 2310' FWL*

*Lea County New Mexico*

*Submitted July 17, 1998*



Callaway Safety Equipment Co., Inc.
3311 North Grimes
Hobbs, New Mexico

# TABLE OF CONTENTS

# 1 Introduction

At 3:30 AM on Friday March 20, 1998, during drilling of the UMC Petroleum Corporation Carlisle State Com #1 well at an estimated depth of 12,100 feet, a highly pressurized and uncontrollable flow of natural gas and natural gas liquids was encountered. The estimated volume was ~ 8 to 15 mmcf per day of sweet gas, i.e., 0.0 ppm $H_2S$ concentration. Although $H_2S$ was not a concern, initial responders were concerned that explosive levels of natural gas could migrate to nearby residences and possibly the City of Lovington, New Mexico located four miles east of the well. Consequently, residents within one mile of the well were evacuated, the site secured, the Lea County Sheriff Department, New Mexico State Police, Lovington Police and Fire Department, and the Local Emergency Planning Committee were notified, and the Incident Command System activated.

In an attempt to regain control of the well, it was decided to use a multiple weighted mud system to stifle the well flow. Because of the flammability hazards , i.e., condensate and natural gas, associated with area immediately surrounding the well where typically the pumping and mud storage equipment would be deployed, it was decided to deploy the equipment at a remote location. A permanently abandoned well location .5 mile due south of the Carlisle State Com #1 was chosen as the point of operation and deployment. The attempt to pump mud down the well bore failed and the operation halted, leaving approximately 3,000 barrels of multiple weighted muds distributed in six 500 barrel frac tanks The majority of these muds were subsequently hauled off location for use elsewhere.

The "Halliburton South Pit," was excavated by the tank rental company so as to contain the rinsate that resulted when the residual tank mud was jetted out with fresh water prior to the tanks being removed from the location. This activity resulted in the unlined pit being partially filled with mud contaminated rinsate and is the subject of this report.

# 2 Site Information

## 2.1 Site History

This is the location of the Eidson 56-959 #1, drilled by Great Western Onshore, Inc. and permanently abandoned in March 1993. It is probable that the site was contaminated with Hydrocarbon and Chloride during these operations. It appears that the surrounding grassland, used for livestock grazing, was not impacted by the drilling of the Eidson 56-959 #1.

## 2.2 Legal Description

The legal description of the site is as follows:

Sec 15, T-16S, R35E 990 FWL & 2310 FWL

## 2.3 Site Characterization

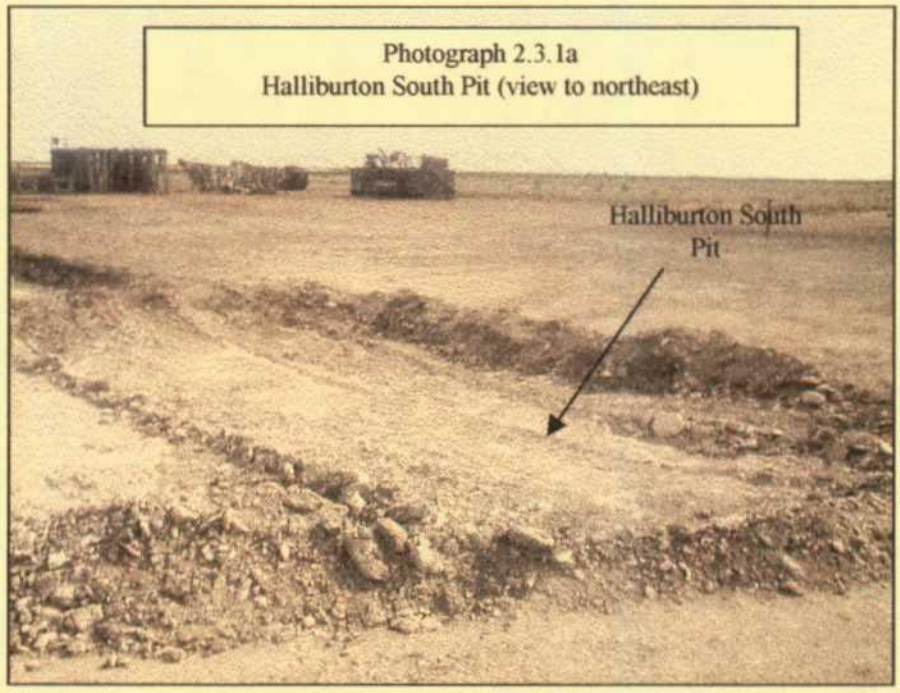
The site is typical of a permanently abandoned drill site, i.e., caliche pad and access road and dry hole marker, however the decommissioned drilling reserve pit area is not discernable. There was no observable environmental impact on this site by the effluent of the Carlisle State Com #1 well. Well control activities however resulted in the excavation and use of the "Halliburton South Pit." Another, almost identical pit, i.e., "Halliburton North Pit," is located

just north of the south pit and was used for the same purpose. The pits are not contiguous and are therefore treated as separate unlined pits requiring individual "Final Remedial Action Reports" and "NMOCD Pit Remediation and Closure Reports."

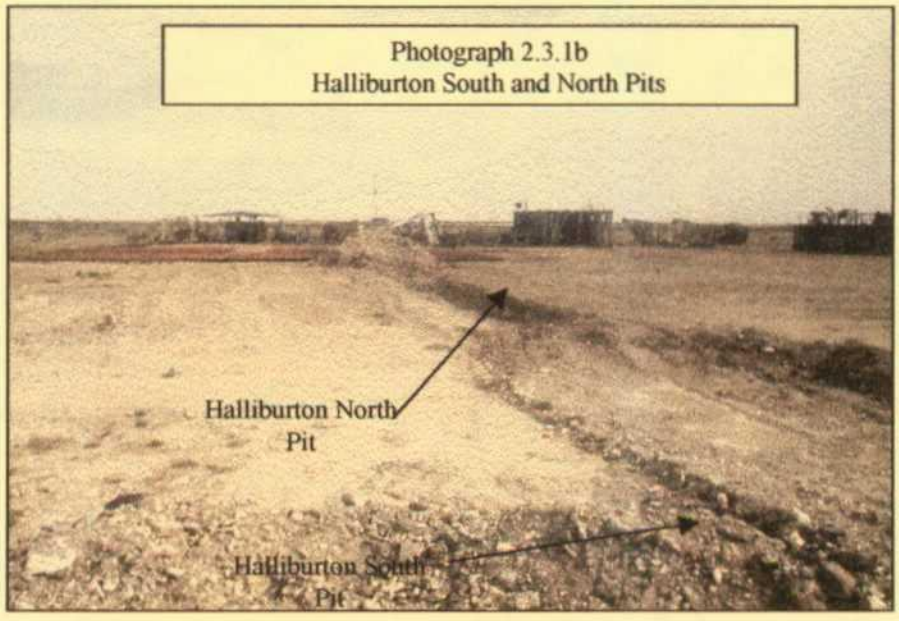
### 2.3.1 Halliburton South Pit Metrics

Photograph 2.3.1a shows the Halliburton South Pit looking northeast. Stored on the northern part of the location are various pieces of drilling rig equipment.

Photograph 2.3.1a
Halliburton South Pit (view to northeast)

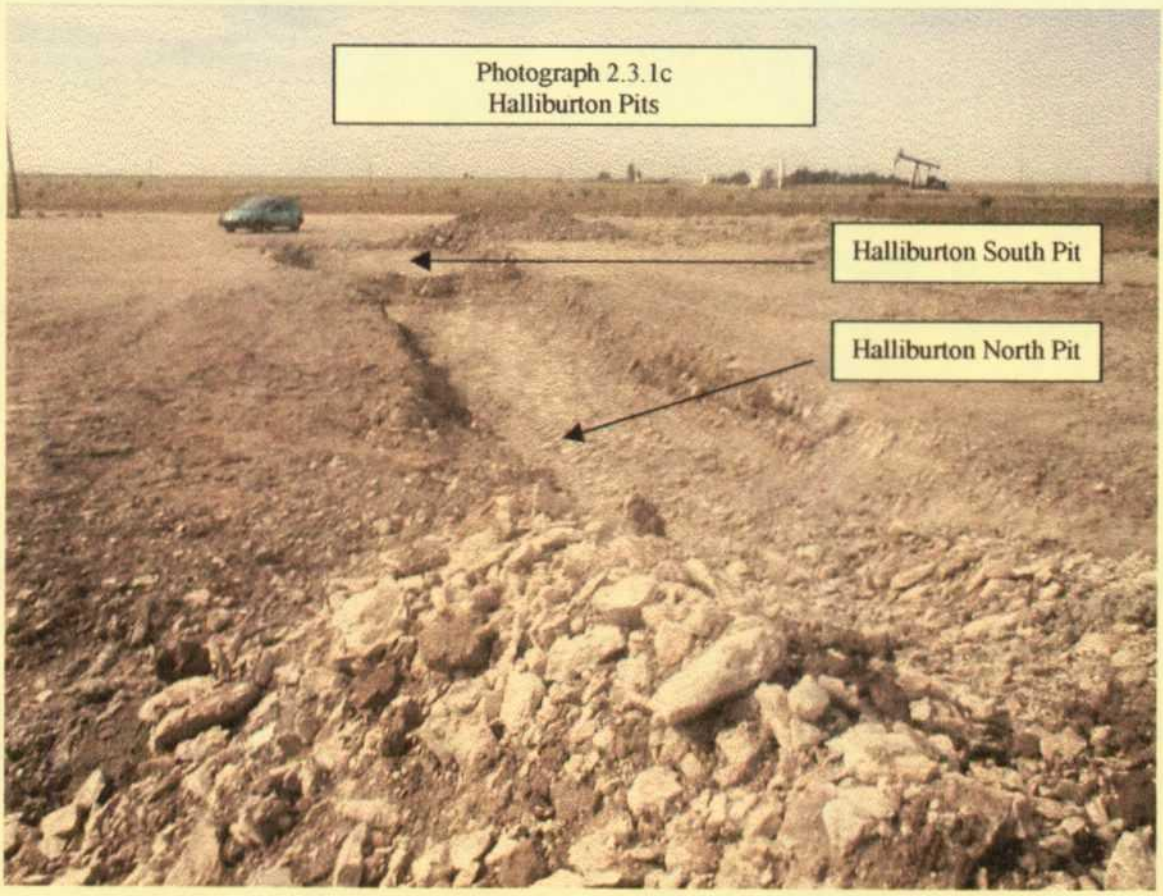



Photograph 2.3.1b
Halliburton South and North Pits






Callaway Safety Equipment Co., Inc.
3311 North Grimes
Hobbs, New Mexico




Photographs 2.3.1b & c illustrate the view of the unlined pits looking north and south, respectively.

#### 2.3.1.1 Pit Dimensions

The Halliburton South Pit is approximately 30 feet long, 10 feet wide, and 2-3 feet deep.

#### 2.3.1.2 Location of Pit relative to the Carlisle State Com #1 wellbore and water sources

Diagram 2.3.1.2 illustrates the spatial relationship of the Halliburton South Pit to the Carlisle State Com #1 wellbore and water wells in the area.

# UMC/Ocean Energy Carlisle State Com #1 Site Map

July 13, 1998

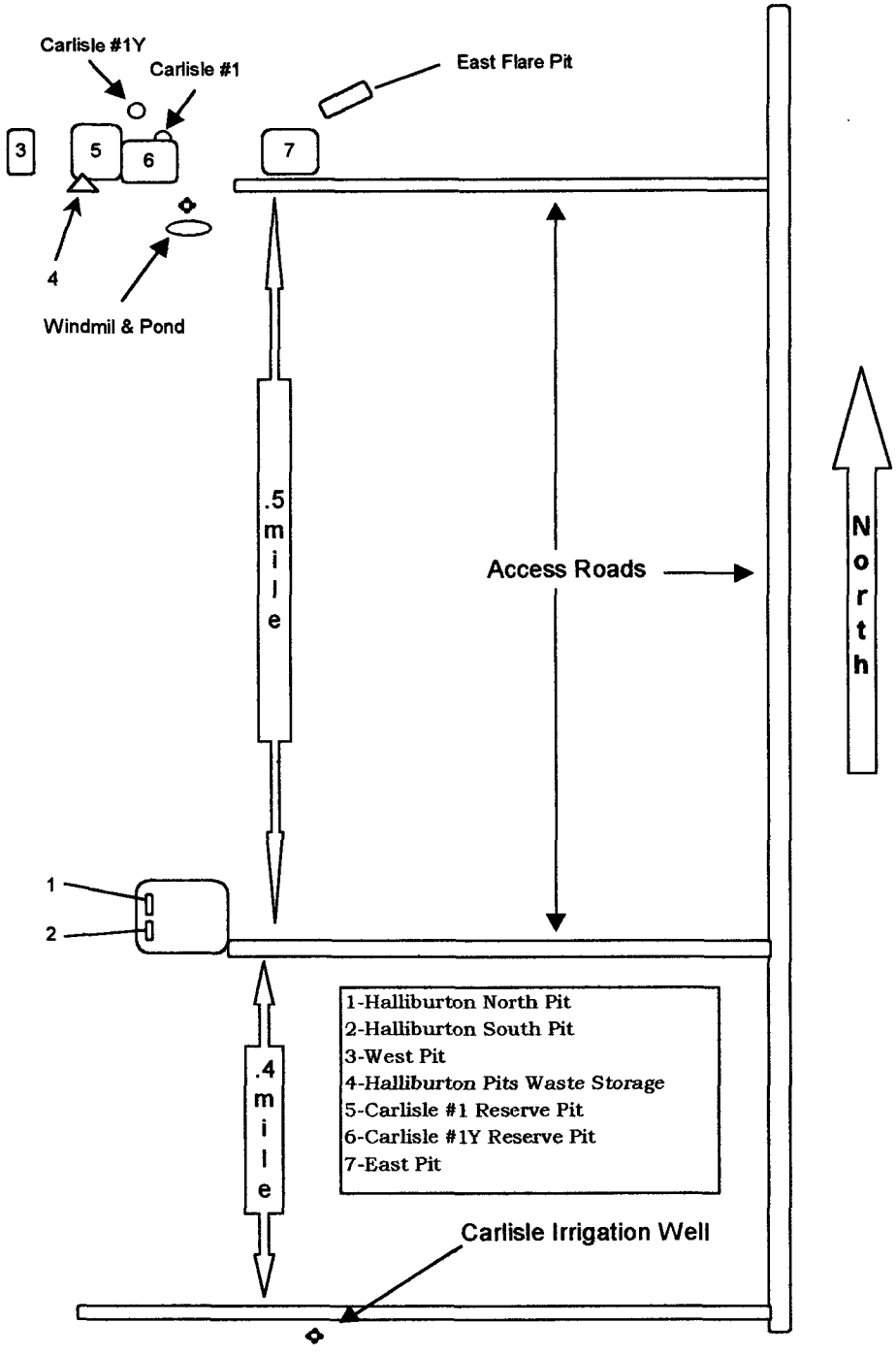



Diagram 2.3.1.2

### 2.3.2 Depth to Ground Water (Points = 10)

Depth to ground water, i.e., distance between the lower most contamination to uppermost vertical extent of the aquifer, at this location is approximated to be 50.5 feet. This distance was derived by subtracting the pit depth, 2.0 feet , from the approximated land surface to ground water surface of 52.5 feet. This approximation is based on area water well information supplied by the District II Office of the New Mexico State Engineer and is included as Attachment A. This approximation is also consistent with data collected by KEI for Tex New-Mex Pipeline Company at the Townsend Site, TNM-97-04, located 1.5 miles due east of the Halliburton South Pit location. These data are presented in Attachment B.

### 2.3.3 Well Protection Area (Points = 0)

The Halliburton South Pit is approximately .4 mile (2,112 feet) from the Carlisle Irrigation well located to the southeast and approximately .5 mile (2,640 feet) due south of the Carlisle Windmill and Pond which are adjacent to the Carlisle #1 drilling location. Each water source is >1,000 feet from the pit.

### 2.3.4 Distance to Surface Water (Points = 0)

The only perennial surface water body exists as the livestock watering pond associated with the windmill located due north .5 mile (2,640 feet) adjacent to the Carlisle State Com #1 drill site.

## 2.4 Total Ranking Score and Recommended Remediation Action Levels

The "Total Ranking Score" for the Halliburton South Pit is 10. According to Section IV, 2, b. of the New Mexico Oil Conservation Division, "Guidelines for Remediation of Leaks, Spills, and Releases," the remediation action levels for the following parameters should be achieved before closure of the pit will be granted.

| Remediation Action Levels | |
|---|---|
| **Benzene**<br>EPA Method 602/8020<br>Or<br>Field Soil Vapor Headspace Measurement | <br>10 ppm<br>Or<br>100 ppm |
| **BTEX**<br>EPA Method 602/8020<br>Or<br>Field Soil Vapor Headspace Measurement | <br>10 ppm<br>Or<br>100 ppm |
| **Total Petroleum Hydrocarbon (TPH)**<br>EPA Method 418.1 or 8015 modified | 1000 ppm |

# 3 Remediation Process

Remediation of the Halliburton South Pit involved excavation, waste storage, and sampling and analyses.

### 3.1 Excavation

Liquids were vacuumed from the surface and disposed of in an NMOCD approved facility. The pit contents were then allowed to dry out for approximately 10 days. At that point, a Front-end loader and dump truck excavated the contents and bottom foot of the pit and hauled to the storage location.

### 3.2 Waste Storage

Approval was obtained from the NMOCD Hobbs, New Mexico field office to transport and store the waste at a location just outside the southwest corner of the Carlisle State Com #1 drilling reserve pit. This was necessary to allow time for waste characterization and classification and to determine appropriate disposition.

### 3.3 Sampling and Analyses

The NMOCD Hobbs field office waived the 48-hour notification requirement for bottom hole sampling of this pit. On May 29, 1998 the bottom hole samples were obtained and transmitted to the third party laboratory, i.e., Cardinal Laboratories, Hobbs, New Mexico, for analyses. The following summarizes the analytical results, the original analyses are submitted in Attachment C.

**Halliburton South Pit**
Analytical Results Sample ID.# S52998HSP
Sample Date: 5-29-98 Analytical Date: 5-29-98

| Parameter | Value | Units | Method |
|---|---|---|---|
| TPH | 282.000 | mg/Kg (ppm) | 8015M |
| Benzene | <0.002 | mg/Kg (ppm) | 8260 |
| Toluene | 0.003 | mg/Kg (ppm) | 8260 |
| Ethyl Benzene | <0.002 | mg/Kg (ppm) | 8260 |
| Xylenes - Total | <0.006 | mg/Kg (ppm) | 8260 |
| Chloride (5-11-98) | 1778.000 | mg/Kg (ppm) | 325.3 |

## 4 Conclusion

The unlined Halliburton South Pit has been remediated to below the recommended remediation action levels and poses no reasonable risk to the environment or public. It is therefore concluded that the pit is ready for decommissioning and closure.

# ATTACHMENT A: Area Ground Water Information, District II State Engineer's Office

LOC: 16S.35E.09.21320
QTID 11117
ELEV: 4017.10
USE: U
DEPTH: 115
GEO. UNIT: 1210GLL

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

| DATE | WATER LEVEL MS | DATE | WATER LEVEL MS | DATE | WATER LEVEL MS | DATE | WATER LEVEL MS |
|---|---|---|---|---|---|---|---|
| JAN 25, 1961 | 51.97 | FEB 09, 1966 | 53.07 | FEB 12, 1971 | 53.33 | FEB 25, 1976 | 53.26 |

HIGHEST 51.97 JAN 25, 1961
LOWEST 53.33 FEB 12, 1971

SITE ID: 325548103273701
LOC: 16S.35E.09.342213
QTID 11118
ELEV: 4011.50
USE: I
DEPTH: 152
GEO. UNIT: 1210GLL

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

| DATE | WATER LEVEL MS | DATE | WATER LEVEL MS | DATE | WATER LEVEL MS | DATE | WATER LEVEL MS |
|---|---|---|---|---|---|---|---|
| JAN 20, 1961 | 50.00 | FEB 09, 1966 | 49.37 | FEB 12, 1971 | 49.71 | FEB 26, 1976 | 49.63 |

HIGHEST 49.37 FEB 09, 1966
LOWEST 50.00 JAN 20, 1961

SITE ID: 325553103272801
LOC: 16S.35E.09.411421
QTID 11119
ELEV: 4011.90
USE: U
DEPTH: 106
GEO. UNIT: 1210GLL

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

| DATE | WATER LEVEL MS | DATE | WATER LEVEL MS | DATE | WATER LEVEL MS | DATE | WATER LEVEL MS |
|---|---|---|---|---|---|---|---|
| JAN 20, 1961 | 49.22 | FEB 12, 1971 | 50.46 | MAR 31, 1981 | 50.79 | MAR 01, 1991 | 51.37 |
| FEB 09, 1966 | 50.12 | FEB 26, 1976 | 50.42 | JAN 31, 1986 | 50.93 | | |

HIGHEST 49.22 JAN 20, 1961
LOWEST 51.37 MAR 01, 1991



SITE ID: 325542103265701
LOC: 16S.35E.10.33321
QTID 12666
ELEV: 4002.00
USE: U

PTH: 120
GEO. UNIT: 1210GLL

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

| DATE | WATER LEVEL MS | DATE | WATER LEVEL MS | DATE | WATER LEVEL MS | DATE | WATER LEVEL MS |
|---|---|---|---|---|---|---|---|
| FEB 16, 1971 | 50.36 | MAR 31, 1981 | 50.60 | MAR 01, 1991 | 51.33 | | |
| FEB 26, 1976 | 50.50 | JAN 30, 1986 | 50.75 | | | | |

HIGHEST 50.36 FEB 16, 1971
LOWEST 51.33 MAR 01, 1991

SITE ID: 325627103254401
LOC: 16S.35E.11.12111
QTID 11120
ELEV: 3988.00
USE: I
DEPTH: 80
GEO. UNIT: 1210GLL

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

| DATE | WATER LEVEL MS | DATE | WATER LEVEL MS | DATE | WATER LEVEL MS | DATE | WATER LEVEL MS |
|---|---|---|---|---|---|---|---|
| R 27, 1961 | 51.61 | FEB 16, 1971 | 52.76 | JAN 30, 1986 | 53.70 | | |
| MAR 02, 1966 | 53.17 | FEB 26, 1976 | 52.42 | MAR 01, 1991 | 53.31 | | |
| DEC 04, 1969 | 52.69 | MAR 31, 1981 | 53.38 | JAN 26, 1996 | 52.85 S | | |

HIGHEST 51.61 MAR 27, 1961
LOWEST 53.70 JAN 30, 1986

SITE ID: 325627103251301
LOC: 16S.35E.11.221113
QTID 11121
ELEV: 3981.00
USE: I
DEPTH: 90
GEO. UNIT: 1210GLL

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM

| DATE | WATER LEVEL MS | DATE | WATER LEVEL MS | DATE | WATER LEVEL MS | DATE | WATER LEVEL MS |
|---|---|---|---|---|---|---|---|
| FEB 07, 1961 | 52.61 | FEB 16, 1971 | 54.26 | MAR 31, 1981 | 54.77 | MAR 01, 1991 | 54.44 |
| FEB 10, 1966 | 54.20 | FEB 26, 1976 | 54.02 | JAN 17, 1986 | 54.78 | | |

HIGHEST 52.61 FEB 07, 1961
LOWEST 54.78 JAN 17, 1986



SITE ID: 325556103252801
LOC: 16S.35E.11.411331
QTID 11122
ELEV: 3981.00
USE: U
DEPTH: 85

# ATTACHMENT B: GROUND WATER LEVEL MEASUREMENT REFERENCES

# TABLE III

## SUMMARY OF GROUND WATER MONITORING
## TEXAS - NEW MEXICO PIPE LINE COMPANY
## TNM-97-04
## LOVINGTON, NEW MEXICO

| WELL NO. | DATE MEASURED | PVC ELEVATION (feet) | DEPTH TO WATER (feet) | GROUND WATER ELEVATION | | PSH THICKNESS (feet) |
|---|---|---|---|---|---|---|
| | | | | Actual | Corrected | |
| MW-1 | 06/18/97 | 3,974.19 | 53.15 | 3921.04 | — | — |
| | 07/29/97 | 3,974.19 | 53.05 | 3921.14 | — | — |
| MW-2 | 06/18/97 | 3,974.65 | 53.24 | 3921.41 | — | — |
| | 07/29/97 | 3,974.65 | 53.14 | 3921.51 | — | — |
| MW-3 | 06/18/97 | 3,974.63 | 60.08 | 3914.55 | 3921.94 | 8.69 |
| | 06/23/97 | 3,974.63 | 60.08 | 3914.55 | 3921.96 | 8.72 |
| | 06/23/97 | 3,974.63 | 53.30 | 3921.33 | 3921.56 | 0.27 |
| | 06/23/97 | 3,974.63 | 53.78 | 3920.85 | 3921.71 | 1.01 |
| | 06/25/97 | 3,974.63 | 59.85 | 3914.78 | 3921.99 | 8.48 |
| | 06/25/97 | 3,974.63 | 55.50 | 3919.13 | 3921.72 | 3.05 |
| | 06/25/97 | 3,974.63 | 56.34 | 3918.29 | 3921.78 | 4.10 |
| | 06/25/97 | 3,974.63 | 53.29 | 3921.34 | — | — |
| | 06/27/97 | 3,974.63 | 59.99 | 3914.64 | 3921.96 | 8.61 |
| | 06/27/97 | 3,974.63 | 56.68 | 3917.95 | 3921.60 | 4.29 |
| | 07/01/97 | 3,974.63 | 59.99 | 3914.64 | 3921.96 | 8.61 |
| | 07/03/97 | 3,974.63 | 60.04 | 3914.59 | 3921.98 | 8.69 |
| | 07/03/97 | 3,974.63 | 55.22 | 3919.41 | 3921.75 | 2.75 |
| | 07/29/97 | 3,974.63 | 60.03 | 3914.60 | 3921.96 | 8.66 |
| | 07/29/97 | 3,974.63 | 54.47 | 3920.16 | 3921.90 | 2.05 |
| MW-4 | 06/18/97 | 3,974.55 | 52.96 | 3921.59 | — | — |
| | 07/29/97 | 3,974.55 | 52.92 | 3921.63 | — | — |
| MW-5 | 06/18/97 | 3,974.31 | 60.85 | 3913.46 | 3922.41 | 10.53 |
| | 06/23/97 | 3,974.31 | 58.09 | 3916.22 | 3922.08 | 6.89 |
| | 06/23/97 | 3,974.31 | 56.57 | 3917.74 | 3922.38 | 5.46 |
| | 06/23/97 | 3,974.31 | 59.18 | 3915.13 | 3921.32 | 7.28 |
| | 06/23/97 | 3,974.31 | 59.74 | 3914.57 | 3922.08 | 8.83 |
| | 06/23/97 | 3,974.31 | 54.91 | 3919.40 | 3921.88 | 2.92 |
| | 06/25/97 | 3,974.31 | 60.47 | 3913.84 | 3922.02 | 9.62 |
| | 06/25/97 | 3,974.31 | 58.47 | 3915.84 | 3921.99 | 7.24 |
| | 06/25/97 | 3,974.31 | 59.49 | 3914.82 | 3922.01 | 8.46 |
| | 06/25/97 | 3,974.31 | 53.42 | 3920.89 | 3921.94 | 1.23 |
| | 06/25/97 | 3,974.31 | 55.95 | 3918.36 | 3921.90 | 4.16 |
| | 06/25/97 | 3,974.31 | 58.50 | 3915.81 | 3922.02 | 7.30 |
| | 06/25/97 | 3,974.31 | 52.46 | 3921.85 | 3921.87 | 0.02 |
| | 06/25/97 | 3,974.31 | 51.81 | 3922.50 | 3922.50 | 0.00 |
| | 06/27/97 | 3,974.31 | 60.46 | 3913.85 | 3922.06 | 9.66 |
| | 06/27/97 | 3,974.31 | 57.47 | 3916.84 | 3922.00 | 6.07 |
| | 07/01/97 | 3,974.31 | 60.45 | 3913.86 | 3922.01 | 9.59 |
| | 07/01/97 | 3,974.31 | 56.40 | 3917.91 | 3921.94 | 4.74 |
| | 07/03/97 | 3,974.31 | 60.41 | 3913.90 | 3922.01 | 9.54 |
| | 07/03/97 | 3,974.31 | 57.53 | 3916.78 | 3921.98 | 6.12 |
| | 07/29/97 | 3,974.31 | 60.19 | 3914.12 | 3922.02 | 9.29 |
| | 07/29/97 | 3,974.31 | 57.69 | 3916.62 | 3920.97 | 5.12 |

# ATTACHMENT C: GROUND WATER DATA ORIGINAL LABORATORY REPORTS

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
CALLAWAY SAFETY/UMC
ATTN: PAT McCASLAND
3229 INDUSTRIAL DRIVE
HOBBS, NM 88240
FAX TO: 505-392-4990

Receiving Date: 05/29/98
Reporting Date: 06/01/98
Project Number: NOT GIVEN
Project Name: UMC CARLISLE STATE COM #1
Project Location: 4 MILES WEST OF LOVINGTON, NM

Sampling Date: 05/29/98
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

| LAB NUMBER | SAMPLE ID | TPH (mg/Kg) | ALKANE RANGE | BENZENE (mg/Kg) | TOLUENE (mg/Kg) | ETHYL BENZENE (mg/Kg) | TOTAL XYLENES (mg/Kg) |
|---|---|---|---|---|---|---|---|
| ANALYSIS DATE: | | 05/29/98 | 05/29/98 | 05/29/98 | 05/29/98 | 05/29/98 | 05/29/98 |
| H3667-1 | S52998HSP | 282 | C12-C28 | <0.002 | 0.003 | <0.002 | <0.006 |
| H3667-2 | S52998CLFW1BL | 15.9 | C14-C26 | <0.002 | 0.004 | 0.005 | 0.070 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Quality Control | | 2862 | - | 0.102 | 0.102 | 0.101 | 0.306 |
| True Value QC | | 3000 | - | 0.100 | 0.100 | 0.100 | 0.300 |
| % Accuracy | | 95.4 | - | 102 | 102 | 101 | 102 |
| Relative Percent Difference | | 3.5 | - | 2.1 | 7.4 | 9.2 | 4.9 |

METHODS: TPH - EPA SW-846 8015M; BTEX - EPA SW-846-8020

Burgess J. A. Cooke, Ph. D.

6/1/98
Date

H3667BT.XLS

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