## RECEIVED

APR 15 2010

Dirt Wark On Site Remediation . Soil Testing . Excavation

March 29, 2010

Mr. Mike Bratcher Oil Conservation Division New Mexico Energy, Minerals and Natural Resources Department 1301 W. Grand Avenue Artesia, New Mexico 88210

Re: Remediation Workplan, Marks and Garner Production LTD Co., Levers #3Y Unit Letter N (SE/4, SW/4), Section 33, Township 16 South, Range 29 East, Eddy County, New Mexico (Latitude: N 32.87188°, Longitude: W 104.08195°) 2RP #305

Dear Mr. Bratcher:

Marks and Garner Production LTD Co. (M&G), has retained Ocotillo Environmental, LLC (Ocotillo) to remediate impacts to soil from a leak at the Levers #3Y wellhead. The well is located in the southeast quarter (SE/4) of the southwest quarter (SW/4), Section 33, Township 16 South, Range 29 East, Eddy County, New Mexico (Site). The date and volume of the release are unknown. A C-141 was submitted to the New Mexico Oil Conservation Division (NMOCD) on April 24, 2009. Appendix A provides a copy of the C141. Figure 1 shows the site location.

Based on published literature (1961), well records of the New Mexico State Engineer, and well records of the United States Geological Survey, groundwater occurs at approximately 65 feet bgs in the well located nearest the Site. No domestic water wells are located within 1,000 feet of the site. The NMOCD has established recommended remediation action levels (RRALs) for benzene, total BTEX and TPH resulting from spills of natural gas liquids ("Guidelines for Remediation of Leaks, Spills and Releases, August 13, 1993"). Remediation levels for benzene, total BTEX and TPH were calculated using the following NMOCD criteria:

| Criteria                 | Result                | Ranking Score |
|--------------------------|-----------------------|---------------|
| Depth-to-Groundwater     | 50 - 99 Feet          | 10            |
| Wellhead Protection Area | No                    | 0             |
| Distance to Surface      | >1000 Horizontal Feet | 0             |
| Water Body               |                       |               |
|                          |                       | Total: 10     |

The following RRALs have been assigned based on NMOCD criteria:

Benzene10 mg/kgTotal BTEX50 mg/kgTPH1,000 mg/kg

Mr. Mike Bratcher Page 2 March 29, 2010

#### **Initial Investigation**

On September 10, 2009, a letter was prepared for the NMOCD by R.T. Hicks Consultants, Ltd. (Hicks), that reported results of soil samples collected at the site in order to provide horizontal delineation of the spill. Hicks also provided documentation that groundwater in the area is confined, thereby making the depth to groundwater "not relevant". Appendix B provides a copy of the "Hicks" diagram (Plate 2B) showing sample point locations and chloride concentrations, as well as a copy of the "Hicks" table of Field and Laboratory Data – Soil Samples.

#### **Current Investigation**

On March 2, 2010, Ocotillo installed two (2) soil borings (BH-1 and BH-2) at the site, using an air rotary drilling rig, in order to further assess the horizontal and vertical limits of the spill. Soil samples from the exploratory borings were collected in five foot intervals from the ground surface to a depth of approximately 46 feet below ground surface (bgs). The soil borings were plugged with bentonite. Figure 2 shows the locations of the soil borings. Appendix C provides copies of the Well Record and Logs provided to the Office of the State Engineer.

The soil samples from borings BH-1 and BH-2 were placed in clean glass sample jars, labeled, chilled in an ice chest, and delivered under chain-of-custody control to Cardinal Laboratories in Hobbs, New Mexico. All soil samples collected from borings BH-1 and BH-2 were analyzed for chlorides by EPA method 4500 Cl<sup>-</sup>B. The upper three (3) samples from soil boring BH-1 (0-1', 5-6' and 10-11' bgs) were also analyzed for TPH by EPA Method SW-846 8015. Table 1 presents a summary of the laboratory analysis of soil samples. Laboratory analysis and chain of custody documentation are included in Appendix D.

Referring to Table 1, with the exception of the sample from 0-1' bgs (160 mg/kg), chloride concentrations in samples from boring BH-1 were above the NMOCD standard of 250 mg/kg until a depth of 45-46' bgs (144 mg/kg). The soil samples collected from background boring BH-2 all reported chloride concentrations below 250 mg/kg. Samples collected from boring BH-1 reported TPH concentrations below 1,000 mg/kg at a depth of 5-6' bgs (33.2 mg/kg) and 10-11' bgs (11.1 mg/kg).

#### **Proposed Remediation**

Marks and Garner proposes to conduct excavation of the chloride impacted soil in the vicinity of soil boring BH-1 to a depth of approximately five (5) feet bgs. Horizontal delineation will be determined by laboratory analysis of samples collected during excavation. All excavated soil with a chloride concentration greater than 5,000 mg/kg will be hauled to an NMOCD approved disposal facility. Excavated soil with a chloride concentration less than 5,000 mg/kg will be blended on-site with organic material, in order to reduce the chloride concentrations to less than 1,000 mg/kg. A 20 mil plastic liner will be installed at the five foot depth, and the excavated areas will be backfilled with either clean soil or blended soil with a chloride concentration less than 1,000 mg/kg. Excess blended soil (with a chloride concentration less than 1,000 mg/kg) will be used to construct firewalls around the Marks and Garner tank batteries and / or other ancillary equipment.

Mr. Mike Bratcher Page 3 March 29, 2010

If you have any questions or need additional information, please call Mr. Quinton Welborn at (575) 631-0949, or myself at (575) 441-7244. We may also be reached by email at qwelborn@valornet.com or <u>Cindy.Crain@gmail.com</u>.

Sincerely, Ocotillo Environmental, LLC

Cining K. Crain

Cindy K. Crain, P.G. Environmental Manager

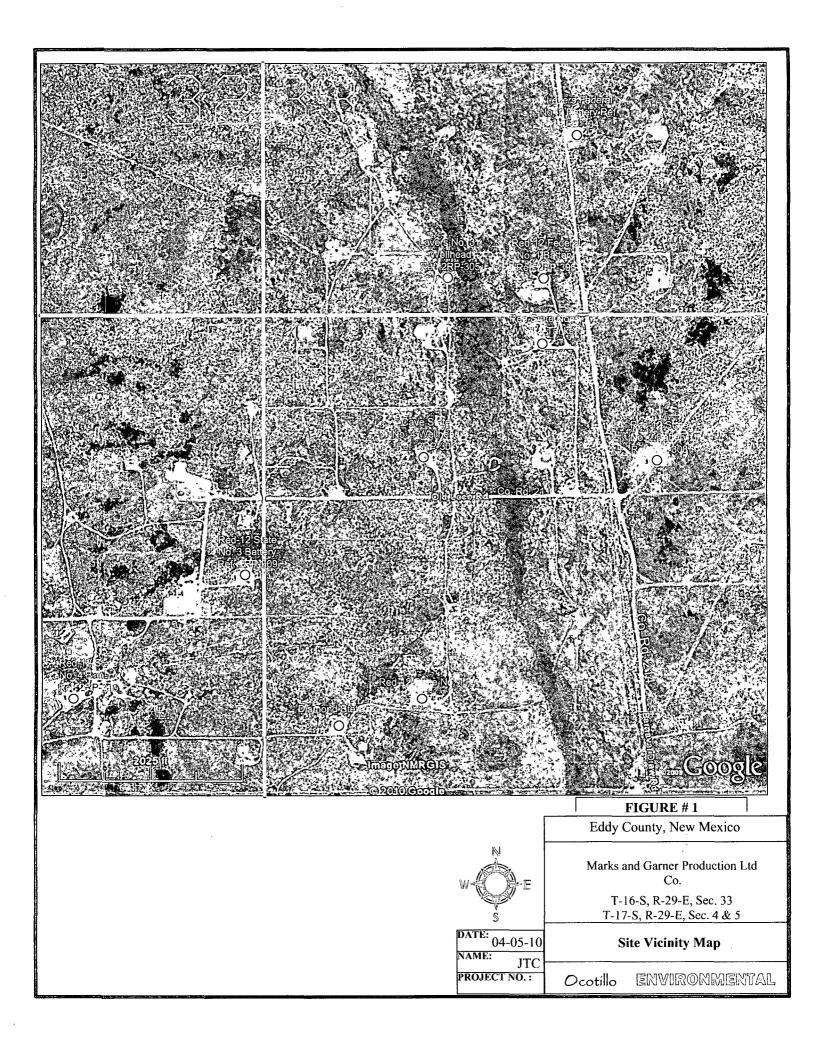
cc: Quinton Welborn, Marks & Garner

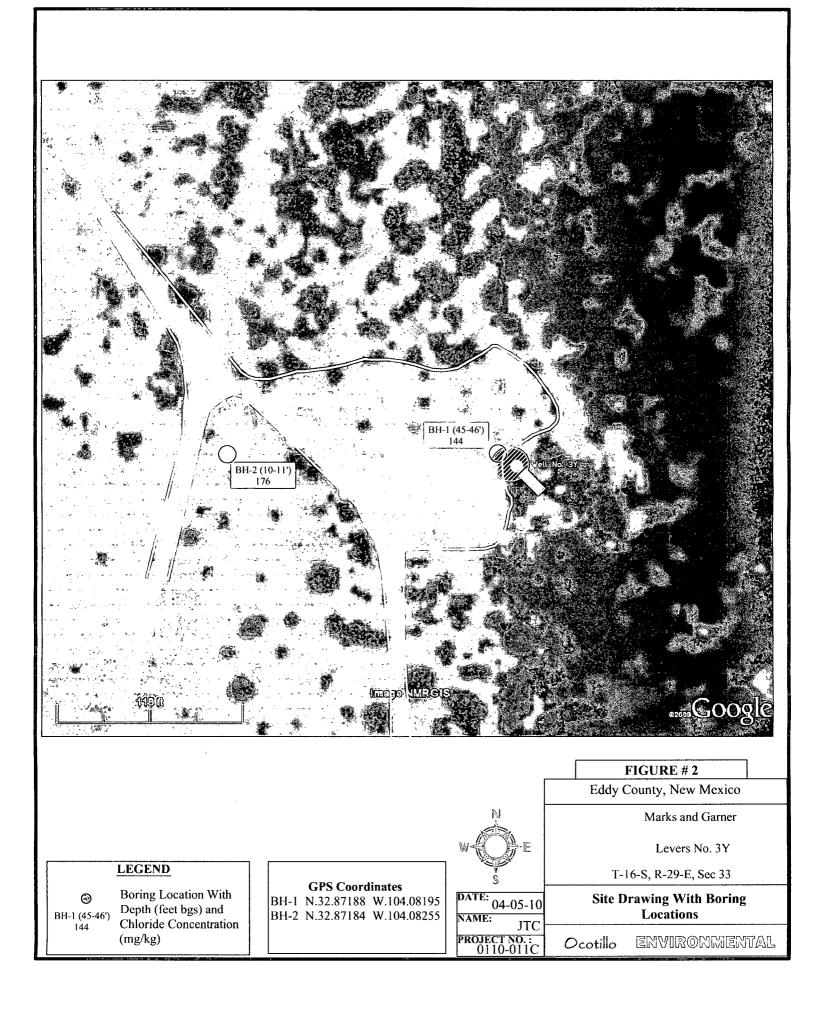
## FIGURES

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TABLE

# Table 1:Summary of Laboratory Analysis of Soil Samples from Soil BoringsMarks and Garner Production LTD Co., Levers #3YUnit Letter N, Section 33, Township 16 South, Range 29 East

Eddy County, New Mexico

| Sample<br>Date | Bore Hole | Sample<br>Depth<br>(feet BGS) | TPH - GRO<br>(C6 - C10)<br>(mg/kg) | TPH - DRO<br>(>C10 - C28)<br>(mg/kg) | Total TPH<br>(mg/kg) | Chloride<br>(mg/kg) |
|----------------|-----------|-------------------------------|------------------------------------|--------------------------------------|----------------------|---------------------|
|                | ١         | WQCC Standa                   | rd                                 |                                      | 1,000                | 250                 |
| 3/2/10         | BH-1      | 0 - 1                         | <50                                | 1,480                                | 1,480                | 160                 |
| 3/2/10         | BH-1      | 5 - 6                         | <10                                | 33.2                                 | 33.2                 | 1,280               |
| 3/2/10         | BH-1      | 10 - 11                       | <10                                | 11.1                                 | 11.1                 | 2,040               |
| 3/2/10         | BH-1      | 15 - 16                       |                                    |                                      |                      | 1,420               |
| 3/2/10         | BH-1      | 20 - 21                       |                                    |                                      |                      | 1,940               |
| 3/2/10         | BH-1      | 25 - 26                       |                                    |                                      |                      | 2,200               |
| 3/2/10         | BH-1      | 30 - 31                       |                                    |                                      |                      | 3,720               |
| 3/2/10         | BH-1      | 35 - 36                       |                                    |                                      |                      | 2,200               |
| 3/2/10         | BH-1      | 40 - 41                       |                                    |                                      |                      | 2,120               |
| 3/2/10         | BH-1      | 45 - 46                       |                                    |                                      |                      | 144                 |
|                |           |                               |                                    |                                      |                      |                     |
| 3/2/10         | BH-2      | 0 - 1                         |                                    |                                      |                      | <16                 |
| 3/2/10         | BH-2      | 5 - 6                         |                                    |                                      |                      | 96                  |
| 3/2/10         | BH-2      | 10 - 11                       |                                    |                                      |                      | 176                 |
| 3/2/10         | BH-2      | 15 - 16                       |                                    |                                      |                      | 144                 |
| 3/2/10         | BH-2      | 20 - 21                       |                                    |                                      |                      | 144                 |
| 3/2/10         | BH-2      | 25 - 26                       |                                    |                                      |                      | 160                 |
| 3/2/10         | BH-2      | 30 - 31                       | ·                                  |                                      |                      | 96                  |
| 3/2/10         | BH-2      | 35 - 36                       |                                    | 1                                    |                      | 80                  |
| 3/2/10         | BH-2      | 40 - 41                       |                                    |                                      |                      | 64                  |
| 3/2/10         | BH-2      | 45 - 46                       |                                    |                                      |                      | 48                  |

Notes: Samples Analyzed by Cardinal Laboratories, Hobbs, NM

1. BGS: Depth in feet below ground surface

2. mg/kg: Milligrams per kilogram

3. --- No Data Available

4. < Less than method detection limit

.

### **APPENDIX A**

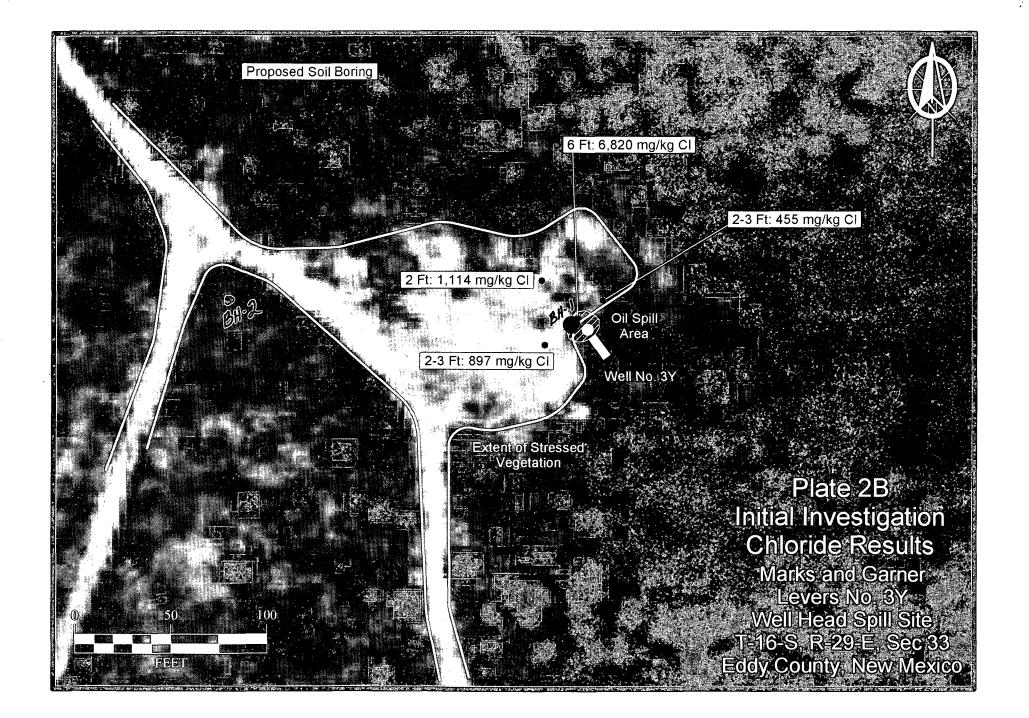
## **INITIAL C141 DOCUMENTATION**

| <u>District II</u><br>1301 W. Grand Avenue, A <b>riesia, NM 88210</b><br><u>District III</u>  | Energy Minera   | of New Mlex  |   | MAY - 7 ;   | CON Form C<br>Revised October 10.  |
|---|---|--|---|---|--|
|   |   |  |   |   | _  |
| 1000 Rio Brazos Road, Aztec, NM 87410   |   | servation Div  |   |   | Submit 2 Copies to approp<br>District Office in accord   |
| District IV<br>1220 S. St. Francis Dr., Santa Fe, NM 87505  |   | uth St. Franc<br>Fe, NM 875  |   |   | with Rule 116 on<br>side of  |
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|   | lelease Notificati  |  |   |   |  |
| Name of Company Marks & Garner Pro  | duction 14070   | OPEIRAT  |   | X Ini   | ial Report 🔲 Final R   |
| Address P.O. Box 1089   |   | Contact Quir<br>Telephone N  |   | 58  | ,  |
| Facility Name Lewins 663  | V   | Facility Trype   |   |   |  |
| Surface Owner State   | / Mineral Owner   | Marks & Giarn  | er  | Lease   | No   |
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| · · · · · · · · · · · · · · · · · · ·   | No D Not Required   |  |   |   |  |
| By Whom?<br>Was a Watercourse Reached?  |   | Date and Hou<br>If YES 'Wolur  | r<br>ne Impacting th  | e Watercourse   |  |
| 🗍 Yes [   | 🛛 No  | ],   |   |   |  |
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#### **APPENDIX B**

#### **R.T. HICKS INITIAL INVESTIGATION**

PLATE 2B And TABLE OF FIELD AND LABORATORY DATA



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#### Marks & Garner - Levers No. 3Y Site

| Sample Location  | Depth<br>(feet) | Sample Date | Field Cl<br>(mg/kg) | Lab Cl<br>(mg/kg) | PID<br>(ppm) | Benzene<br>(mg/kg) | Toluene<br>(mg/kg) | Ethylbenzene<br>(mg/kg) | Xylenes<br>(mg/kg) | BTEX<br>(mg/kg) | C <sub>6-12</sub><br>(mg/kg) | C <sub>12-28</sub><br>(mg/kg) | C <sub>28-35</sub><br>(mg/kg) |
|------------------|-----------------|-------------|---------------------|-------------------|--------------|--------------------|--------------------|-------------------------|--------------------|-----------------|------------------------------|-------------------------------|-------------------------------|
| Center Oil Spill | Surf            | 6/22/2009   |                     |                   | 85           | 0.0130             | 0.537              | 1.3850                  | 3.5                | 5.47            | 1,340                        | 44,500                        | 3,150                         |
|                  | 2.0             | 6/22/2009   |                     |                   | 39           |                    |                    |                         |                    |                 |                              |                               |                               |
|                  | 3.0             | 6/22/2009   |                     |                   | 64           |                    |                    |                         |                    |                 |                              |                               |                               |
|                  | 4.0             | 6/22/2009   |                     |                   | 127          |                    |                    |                         |                    |                 |                              |                               |                               |
|                  | 5.0             | 6/22/2009   |                     |                   | 210          |                    |                    |                         |                    |                 |                              |                               |                               |
|                  | 6.0             | 6/22/2009   |                     | 6,820             | 334          | < 0.0107           | 0.212              | 0.6995                  | 6.553              | 7.47            | 1,690                        | 6,640                         | 581                           |
| 15-Feet East     | 2-3             | 8/27/2009   | 455                 |                   | 0            |                    |                    |                         |                    |                 |                              | '                             |                               |
| 20-Feet West     | 2-3             | 8/27/2009   | 897                 |                   | 0            |                    |                    |                         |                    |                 |                              |                               |                               |
| 25-Feet North    | 2               | 8/27/2009   | 1,114               |                   | 0            |                    |                    |                         |                    |                 |                              |                               |                               |
| NMOCD 1993 Guid  | leline RR       | ALs         | 25                  | 0*                |              |                    |                    |                         |                    | 50              |                              | 5,000                         |                               |

Field and Laboratory Data - Soil Samples

NMOCD 1993 Guideline RRALs 250\* 10 ------------

\*Chloride RRAL is based on the NMOCD May 28, 2004 Interim Pit and Below-Grade Tank Guidelines

### **APPENDIX C**

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## WELL RECORD AND LOGS



# WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

|                           | POD NUM                      |                         |        |                        |         |              |               |           |           |                   | OSE FILE NUI                           | MBER(S)                                    |              |                     |                   |  |
|---------------------------|------------------------------|-------------------------|--------|------------------------|---------|--------------|---------------|-----------|-----------|-------------------|--|--|--------------|---------------------|-------------------|--|
| LIO                       | WELLOW                       |                         |        |                        |         |              |               | ·         |           |                   | PHONE (OPTI                            |  |              |                     |                   |  |
| GENERAL AND WELL LOCATION |                              |                         |        |                        | DUC     | TION CO      | MPA           | NY LT     | D         |                   |  |  |              |                     |                   |  |
| TT                        | WELL OW                      | NER MAIL                | LING A | DDRESS                 |         |              |               |           |           |                   | CITY                                   |  | STATE        |                     | ZIP               |  |
| WEL                       | P.O. BC                      | DX 108                  | 9      |                        |         |              |               |           |           |                   | HOBBS                                  | ,  | NM           | 88                  | 3241              |  |
| Q                         | WELL DEGREES MINUTES SECONDS |                         |        |                        |         |              | NDS           |           |           |                   |  |  |              |                     |                   |  |
| VL A                      | LOCAT                        | ION                     | LATIT  | UDE                    |         | 32           |               | 52        | · 1       | 9.00 <sub>N</sub> |  | REQUIRED: ONE TEN                          | ITH OF A SEC | COND                |                   |  |
| VER/                      | (FROM O                      | GPS)                    | LONG   | ITUDE                  |         | 104          |               | 4         | 5         | 5.00 W            | * DATUM REG                            | QUIRED: WGS 84                             |              |                     |                   |  |
| 1. GEI                    |                              |                         |        | WELL LOCATION          |         |              |               |           |           |                   | RN R GO 3                              | MI FOLLOW G                                | SPS TO S     | SITE.               |                   |  |
|                           | (2.5 AC                      | RE)                     | (1     | 0 ACRE)                | (4)     | 0 ACRE)      | T             | (160 ACI  | RE)       | SECTION           |  | TOWNSHIP                                   |              | RANGE               |                   |  |
| ٩L                        | 1                            | /4                      |        | 1/4                    |         | 1/4          |               |           | 1/4 .     |                   |  |  | NORTH        |                     | EAST              |  |
| OPTIONAL                  | SUBDIVIS                     | ION NAME                | E      | <b>.</b>               |         |              | 1             | - <u></u> |           | LOT NUM           | IBER                                   | BLOCK NUMBER                               |              | UNIT/TRA            | ст                |  |
|                           | HYDROGR                      | APHIC SU                | RVEY   |                        |         |              |               | <u></u>   |           |                   |  | MAP NUMBER                                 |              | TRACT NU            | JMBER             |  |
| 7                         |                              |                         |        |                        |         |              |               |           |           |                   |  |  |              | ,<br>,              |                   |  |
|                           | LICENSE N                    |                         |        | NAME OF LICE           | NSED DI | RILLER       |               |           |           |                   |  | NAME OF WELL DF                            |              |                     |                   |  |
|                           | WD                           | 1478                    | E      | EDWARD                 | BRYA    | N            |               |           |           |                   |  | STRAUB CO                                  |              |                     |                   |  |
|                           | DRILLING                     | started<br>2 <b>-10</b> | )      | DRILLING END<br>3-2-10 | DED D   | DEPTH OF COM | apleti<br>0   | ED WELL ( | FT)       | BORE HO           | LE DEPTH (FT)                          | TH (FT) DEPTH WATER FIRST ENCOUNTERED (FT) |              |                     |                   |  |
| ION                       | J-2                          | 2-10                    |        | 5-2-10                 |         |              |               |           |           |                   |  | STATIC WATER LEVEL IN COMPLETED WELL (FT)  |              |                     | LL (FT)           |  |
| RMAT                      | COMPLET                      | ED WELL                 | IS:    | ARTESIAN               | · [     | DRY HOLE     | : [           | SHALL     | OW (UNCO  | ONFINED)          |  |  | N/A          |                     |                   |  |
| <b>VFOI</b>               | DRILLING                     | FLUID:                  |        | AIR                    | [       | MUD          | [             | ADDITI    | VES – SPE | CIFY              |  |  |              |                     |                   |  |
| II DN                     | DRILLING                     | METHOD                  |        | <b>ROTARY</b>          | [       | HAMMER       | [             | CABLE     | TOOL      | Отны              | HER – SPECIFY:                         |  |              |                     |                   |  |
| DRILLING INFORMATION      | DEPT<br>FROM                 | TH (FT)<br>TO           |        | BORE HOL<br>DIA. (IN)  | E       |              | CASI<br>1ATEI |           |           | 1                 | NECTION<br>(CASING)                    | INSIDE DIA.<br>CASING (IN)                 |              | G WALL<br>IESS (IN) | SLOT<br>SIZE (IN) |  |
| 3. [                      | 0                            | 50                      |        | 5                      |         |              | N//           | 4         |           |                   | N/A                                    | N/A  | N            | /A                  | N/A               |  |
|                           |                              | ·····                   |        | · ·· - ·· ··           |         |              |               |           |           |                   |  |  |              |                     |                   |  |
|                           |                              | <u> </u>                |        |                        |         |              |               |           |           |                   | ······································ |  |              |                     |                   |  |
|                           | DEPT                         | H (FT)                  |        | THICKNES               | s       | F            | ORM           | ATION D   | ESCRIP    | TION OF P         | RINCIPAL W                             | ATER-BEARING S                             | TRATA        |                     | YIELD             |  |
| ATA                       | FROM                         | TO                      |        | (FT)                   |         |              | (IN           | ICLUDE    | WATER     | BEARING           | CAVITIES O                             | R FRACTURE ZON                             | IES)         |                     | (GPM)             |  |
| STR                       |                              |                         |        |                        |         |              |               |           |           | <u> </u>          |  |  |              |                     |                   |  |
| Dy I                      |                              |                         |        |                        |         |              |               |           | <u>.</u>  |                   | · • "••••••••                          |  |              |                     |                   |  |
| EAR                       |                              |                         | -+-    | ,, <u>+</u>            |         |              |               |           |           |                   |  |  |              |                     |                   |  |
| ER B                      |                              |                         |        |                        | _       |              |               |           |           |                   |  |  |              |                     |                   |  |
| WATER BEARING STRATA      | METHOD U                     | SED TO E                | STIMA  | TE YIELD OF V          | VATER-E | BEARING STR. | ATA           |           |           |                   |  | TOTAL ESTIMATED                            | WELL YIEL    | D (GPM)             |                   |  |
| 4 N                       |                              |                         |        |                        |         |              |               |           |           |                   |  |  |              |                     |                   |  |
|                           |                              |                         |        |                        |         |              |               |           |           |                   |  | ·  |              |                     |                   |  |

| FOR OSE INTERNAL USE | · ·        | WELL RECORD & LOG (Version 6/9/08) |
|----------------------|------------|------------------------------------|
| FILE NUMBER          | POD NUMBER | TRN NUMBER                         |
| LOCATION             |            | PAGE 1 OF 2                        |
|                      |            |                                    |



## WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

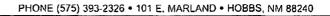
www.ose.state.nm.us

|                           | POD NUM   | BER (WEI  |          | IMBER)  |                    |  |              | OSE FILE NU  | MBER(S)                                   |                                       |           |           |
|---------------------------|---|-----------|----------|---|--------------------|--|--------------|--------------|---|---------------------------------------|-----------|-----------|
| Z                         | LEVER   |           |          |   |                    |  |              |              |   |                                       |           |           |
| LIO                       |   |           |          | <u> </u>                                      |                    |  |              |              | ONAL)                                     |                                       |           |           |
| CA:                       | WELL OW   |           |          |   | DUCTION CO         |  | ·            | PHONE (OPTI  | UNAL)                                     |                                       |           |           |
| ro                        |   |           |          |   |                    |  |              |              |   |                                       |           |           |
| TT                        |   |           |          | ADDRESS                                       |                    |  |              | CITY         |   | STATE                                 | 0.0       |           |
| WE                        | P.O. B(   | JX 108    | 39<br>   |   |                    |  |              | HOBBS        |   | NM                                    | 80        | 3241      |
| Q                         | WEL   | L         |          | · · · · · · · · · · · · · · · · · · ·         | DEGREES            | MINUTES S  | ECONDS       |              |   |                                       |           |           |
| ΓV                        | LOCAT   | 1         | LAT      | ITUDE   | 32                 | 52   | 19.00 N      | * ACCURACY   | REQUIRED: ONE TEN                         | TH OF A SEC                           | COND      |           |
| CRA                       | (FROM   | GPS)      |          |   | 104                | 4  | 55.00 W      | * DATUM REC  | QUIRED: WGS 84                            |                                       |           |           |
| GENERAL AND WELL LOCATION | DECODIN   |           |          | GITUDE  |                    | ······   |              |              |   |                                       |           |           |
| 1. G                      |   |           |          |   | ON TO STREET ADDRE |  |              |              |   |                                       | NTE       |           |
|                           | FROM  |           | , LUIT   | LO GENER                                      | AL STORE GU        |  |              | N N GO 3 I   |   | 10100                                 |           |           |
|                           | (2.5 AC   | RE)       |          | (10 ACRE)                                     | (40 ACRE)          | (160 ACRE)   | SECTION      |              | TOWNSHIP                                  |                                       | RANGE     |           |
| Г                         |   | 1/4       |          | 1/4   | 1/4                | 1/4  |              |              |   | NORTH                                 |           | EAST      |
| ANC                       | SUBDIVIS  |           | E        |   |                    |  | LOT NUM      | IBER         | BLOCK NUMBER                              |                                       | UNIT/TRA  |           |
| OPTIONAL                  |   |           |          |   |                    |  |              |              |   |                                       |           |           |
| 2. OI                     | HYDROGE   | APHIC SU  | JRVE     | Y   |                    |  |              |              | MAP NUMBER                                |                                       | TRACT NU  | JMBER     |
| <u> </u>                  |   |           |          |   |                    |  |              |              |   |                                       |           |           |
|                           |   | TIMBER    | <u> </u> | NAME OF LICE                                  |                    | · · · · · · · · · · · · · · · · · · ·                              |              |              | NAME OF WELL DR                           |                                       | /PANY     |           |
|                           | LICENSE NUMBER NAME OF LICENSED DRILLER   WD1478 EDWARD BRYAN |           |          |   |                    |  |              |              | STRAUB CO                                 |                                       |           |           |
|                           | DRILLING  |           |          | DRILLING END                                  |                    | PLETED WELL (FT)   | BOREHO       | E DEPTH (FT) | DEPTH WATER FIR                           |                                       |           |           |
| ~                         |   | 2-10      |          | 3-2-10  |                    | TH OF COMPLETED WELL (FT) BORE HOLE DEPTH (FT) DEPTH WATER<br>0 45 |              |              |   | N/A                                   |           |           |
| 10                        |   |           |          |   |                    |  |              |              | STATIC WATER LEVEL IN COMPLETED WELL (FT) |                                       |           |           |
| IAT                       | COMPLET   | ED WELL   | IS       | ARTESIAN                                      | DRY HOLE           | DRY HOLE SHALLOW (UNCONFINED)                                      |              |              | N/A                                       |                                       |           |           |
| RN                        | -   |           |          |   |                    |  |              |              |   |                                       | ·         |           |
| NFC                       | DRILLING  | FLUID:    |          | 🗸 AIR   |                    | ADDITIVES -  | SPECIFY:     |              |   |                                       |           |           |
| DRILLING INFORMATION      | DRILLING  | METHOD    | ):<br>   | ROTARY  | HAMMER             | CABLE TOOL   | ОТНЕ         | R - SPECIFY: |   |                                       |           |           |
| ILI                       | DEPT  | H (FT)    |          | BORE HOL                                      | E                  | CASING   | CONT         | VECTION      | INSIDE DIA.                               | CASING                                | G WALL    | SLOT      |
| RII                       | FROM  | то        |          | DIA. (IN)                                     | м                  | ATERIAL  | TYPE         | (CASING)     | CASING (IN)                               | THICKN                                | IESS (IN) | SIZE (IN) |
| 3.]                       | 0   | 45        |          | 5   |                    | N/A  |              | N/A          | N/A                                       | N                                     | //A       | N/A       |
|                           | -   |           | _        | _   |                    |  |              |              |   |                                       |           |           |
|                           |   |           |          |   |                    |  |              |              |   |                                       |           |           |
|                           |   |           |          |   |                    |  |              |              |   |                                       |           |           |
|                           | DEPT  | H (FT)    | —        | THICKNES                                      | S F                | ORMATION DESCI   | RIPTION OF P | RINCIPAL W   | ATER-BEARING S                            | TRATA                                 |           | YIELD     |
| T I                       | FROM  | TO        |          | (FT)  |                    |  |              |              | R FRACTURE ZON                            |                                       |           | (GPM)     |
| , KA                      |   |           |          |   |                    |  |              |              | <u> </u>                                  | · · · · · · · · · · · · · · · · · · · |           |           |
| SS                        |   |           | -        |   |                    | <u></u>  |              |              | <u></u>                                   |                                       |           |           |
| Ň                         |   |           |          |   |                    |  |              |              |   |                                       |           |           |
| EAF                       |   |           |          |   |                    | ·····  |              | <u>_</u>     |   |                                       |           |           |
| R B                       |   |           |          | <u></u>                                       |                    |  | ·            |              |   |                                       |           |           |
| WATER BEARING STRATA      | METHODI   | ISED TO F | ESTIM    | ATE VIELD OF V                                | VATER-BEARING STR  | ΔTΔ  |              |              | TOTAL ESTIMATED                           |                                       | D (GPM)   |           |
|                           |   |           |          |   | ER-BLARING STR/    | <u>ыл</u>  |              |              | I OTAL ESTIMATED                          | WELL HEL                              | D (OF M)  |           |
| 4                         |   |           |          | , <u>, , , , , , , , , , , , , , , , , , </u> |                    |  |              |              |   |                                       |           |           |

| on 6/9/08) | LOG (Version 6/9/08 | WELL RECORD & LO | FOR OSE INTERNAL USE |             |  |
|------------|---------------------|------------------|----------------------|-------------|--|
|            |                     | TRN NUMBER       | POD NUMBER           | FILE NUMBER |  |
| E 1 OF 2   | PAGE 1 OF 2         |                  |                      | LOCATION    |  |
| -          | FAU                 |                  |                      | LOCATION    |  |

#### **APPENDIX D**

#### ANALYTICAL DATA AND CHAIN OF CUSTODY DOCUMENTATION





March 9, 2010

Cindy Crain Ocotillo Environmental, LLC P.O. Box 1816 Hobbs, NM 88241

Re: Levers #3Y (0110-011C)

Enclosed are the results of analyses for sample number H19369, received by the laboratory on 03/03/10 at 12:30 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

| Method SW-846 8021 | Benzene, Toluene, Ethyl Benzene, and Total Xylenes |
|--------------------|--|
| Method SW-846 8260 | Benzene, Toluene, Ethyl Benzene, and Total Xylenes |
| Method TX 1005     | Total Petroleum Hydrocarbons                       |

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

| Method EPA 552.2 | Haloacetic Acids (HAA-5)     |
|------------------|------------------------------|
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.2 | Regulated VOCs (V2, V3)      |

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 6 (includes Chain of Custody)

Sincerely Keene

Laboratory Director





ANALYTICAL RESULTS FOR OCOTILLO ENVIRONMENTAL ATTN: CINDY CRAIN P.O. BOX 1816 HOBBS, NM 88240 FAX TO (432) 272-0304

Receiving Date: 03/03/10 Reporting Date: 03/05/10 Project Owner: MARKS & GARNER (0110-011C) Project Name: LEVERS #3Y Project Location: EDDY CO., NM Sampling Date: 03/02/10 Sample Type: SOIL Sample Condition: COOL & INTACT @ 5<sup>0</sup>C Sample Received By: JH Analyzed By: AB

| GRO                                | DRO                                  |
|------------------------------------|--------------------------------------|
| (C <sub>6</sub> -C <sub>10</sub> ) | (>C <sub>10</sub> -C <sub>28</sub> ) |
| (mg/kg)                            | (mg/kg)                              |

LAB NUMBER SAMPLE ID

| ANALYSIS D           | ATE:                                    | 03/05/10 | 03/05/10 |
|----------------------|---|----------|----------|
| H19369-1             | BH-1 (0-1')                             | <50.0    | 1,480    |
| H19369-2*            | BH-1 (5-6')                             | <10.0    | 33.2     |
| H19369-3             | BH-1 (10-11')                           | <10.0    | 11.1     |
|                      | анан алан алан алан алан алан алан алан |          |          |
| Quality Contro       | ol                                      | 501      | 574      |
| True Value Q         | C                                       | 500      | 500      |
| % Recovery           |   | 100      | 115      |
| <b>Relative</b> Perc | ent Difference                          | 1.7      | 1.1      |

METHOD: SW-846 8015 M. Reported on wet weight.

\*One or more TPH surrogates outside historical limits due to matrix interference.

ent Chemist

03/09/10

Date

#### H19369 TPH OCO

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, within writen approval of Cardinal Laboratories.



ANALYTICAL RESULTS FOR OCOTILLO ENVIRONMENTAL, LLC ATTN: CINDY CRAIN P.O. BOX 1816 HOBBS, NM 88241 FAX TO: (432) 272-0304

Receiving Date: 03/03/10 Reporting Date: 03/07/10 Project Number: 0110-011C (MARKS & GARNER) Project Name: LEVERS #3Y Project Location: EDDY CO., NM Analysis Date: 03/05/10 Sampling Date: 03/02/10 Sample Type: SOIL Sample Condition: COOL & INTACT @ 5°C Sample Received By: JH Analyzed By: HM

|                  |               | CI      |
|------------------|---------------|---------|
| LAB NO.          | SAMPLE ID     | (mg/kg) |
| H19369-1         | BH-1 (0-1')   | 160     |
| H19369-2         | BH-1 (5-6')   | 1,280   |
| H19369-3         | BH-1 (10-11') | 2,040   |
| H19369-4         | BH-1 (15-16') | 1,420   |
| H19369-5         | BH-1 (20-21') | 1,940   |
| H19369-6         | BH-1 (25-26') | 2,200   |
| H19369-7         | BH-1 (30-31') | 3,720   |
| H19369-8         | BH-1 (35-36') | 2,200   |
| H19369-9         | BH-1 (40-41') | 2,120   |
| H19369-10        | BH-1 (45-46') | 144     |
| Quality Control  |               | 500     |
| True Value QC    |               | 500     |
| % Recovery       |               | 100     |
| Relative Percent | 2.0           |         |

METHOD: Standard Methods 4500-CIB

Note: Analyses performed on 1:4 w:v aqueous extracts.

#### H19369 Ocotillo

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ANALYTICAL RESULTS FOR OCOTILLO ENVIRONMENTAL, LLC ATTN: CINDY CRAIN P.O. BOX 1816 HOBBS, NM 88241 FAX TO: (432) 272-0304

Receiving Date: 03/03/10 Reporting Date: 03/07/10 Project Number: 0110-011C (MARKS & GARNER) Project Name: LEVERS #3Y Project Location: EDDY CO., NM Analysis Date: 03/05/10 Sampling Date: 03/02/10 Sample Type: SOIL Sample Condition: COOL & INTACT @ 5°C Sample Received By: JH Analyzed By: HM

|                  |               | C       |
|------------------|---------------|---------|
| LAB NO.          | SAMPLE ID     | (mg/kg) |
| H1936-11         | BH-2 (0-1')   | < 16    |
| H1936-12         | BH-2 (5-6')   | 96      |
| H1936-13         | BH-2 (10-11') | 176     |
| H1936-14         | BH-2 (15-16') | 144     |
| H1936-15         | BH-2 (20-21') | 144     |
| H1936-16         | BH-2 (25-26') | 160     |
| H1936-17         | BH-2 (30-31') | 96      |
| H1936-18         | BH-2 (35-36') | 80      |
| H1936-19         | BH-2 (40-41') | 64      |
| H1936-20         | BH-2 (45-46') | 48      |
| Quality Control  |               | 500     |
| True Value QC    |               | 500     |
| % Recovery       |               | 100     |
| Relative Percent | Difference    | 2.0     |

METHOD: Standard Methods Note: Analyses performed on 1:4 w:v aqueous extracts.

4500-CI'B

#### H19369 Ocotillo

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101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020 Company Name: Ocotillo Covironmental BILL TO ANALYSIS REQUEST Project Manager: n Indu Crain P.O. #: 2125 French Dr. P.D. Box 1816 Ocotillo Address: Company: Hobbs State: NM Zip: 88240 Clty: Attn: 575) 441 - 7244 Fax #: me (432) 272.0304 Phone #: Address: 0110 - 011C Project Owner: Marks & Garner Project #: City: Levers # 3Y Project Name: ZÍo: State: Eddy Co., NM Project Location: Phone #: Crain indu Sampler Name: Fax #: 80154 FOR LAB USE ONLY MATRIX PRESERV. SAMPLING Chloride (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER ACID/BASE: ICE / COOL Lab I.D. Sample I.D. Hall SLUDGE OTHER: OTHER SOIL đ DATE TIME 419319-BH-1 6 3/2/10 0-1) 1030 ~ ~ 11 5-10 6 ÷j 1036 ~ ~ ~ 62 G u 1042 41 10-11)  $\boldsymbol{\nu}$ --6 -4 н 15-16) 4 1045 -6 1048 4 20-21) 11 ~ -6 6 25.26) h 1100 ~ 6 -7 30-31) .. 1105 11 ~ 4 35 - 36) 1118 ~6 41 6 -6 -9 41 40-41) 84 1122  $\checkmark$ ١. G te **I** 11 45-46) 1130 ~ PLEASE NOTE: Liability and Damages. Condinate liability and cliant's exclusive ramady tax any claim orbing whether based in contract or tan, shall be limited to the amount paid by the cliam for the analyses. All claims including those for negligence and any other cause whetecover that to deemed waked unloss medo in witting and received by Cardinal within 30 days effect completion of the explicable soryico, In no event shell Cardinal be ilable for incidental or consequentsi damagee, including without ilmitation, business interruptions, loss of use, or toss of use, or toss of use incidential incidentes,

alfiliates of avecassors adjung out of or relevand to the partormance of sorvices horavindar by Condinal, reperdires of whother such claim is based upon any of the above stated ressors or otherwise. Date: 3/3/10 Add'I Phone #: Relinquished By: Received By: Phone Result: D Yes D No D No G-Yes !Add'I Fax #: Fax Result; REMARKS: san 1033 Rellnquished By Received By Time: 30 Delivered By: (Circle One) Sample Condition Copi intect Sampler - UPS - Bus - Other: No 🗌 No

† Cardinal cannot accept verbal changes. Please fax written changes to 506-393-2476

Fax to (432) 272-0304 Please email results to: Circly. Crain @ gmail. com

Page 1 of 2

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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|-----------------------------------|---------------------------------------|
|                                   | · · · · · · · · · · · · · · · · · · · |

(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

| <b>C</b>   | (505) 393-2326 FAX (505) 393-24   | the second s | 1320                       | 101                       | 3-11                             | 101                 | FA/                    | 10                    | and the Party of the              | the second second second |   |                   |                             |    |    |    |    | المعرود زاد |          |    | pilinine, minut | - |   |   |   |   |
|--|---|--|----------------------------|---------------------------|----------------------------------|---------------------|------------------------|-----------------------|-----------------------------------|--------------------------|---|-------------------|-----------------------------|----|----|----|----|-------------|----------|----|-----------------|---|---|---|---|---|
| Company Name: Ocotillo Covironmental                           |   |  |                            |                           |                                  |                     | BILL TO                |                       |                                   |                          |   |                   | ANALYSIS REQUEST            |    |    |    |    |             |          |    |                 |   |   |   |   |   |
|  |   |  |                            |                           |                                  | Р                   | P.O. #:                |                       |                                   |                          |   |                   |                             |    |    |    |    |             |          |    |                 |   |   |   | ] |   |
| Address: 2125 French Dr. P.O. Box 1816                         |   |  |                            |                           |                                  |                     | С                      | Company: Ocotillo     |                                   |                          |   |                   |                             |    |    |    |    |             |          |    |                 |   |   |   |   |   |
|  |   |  |                            |                           |                                  |                     | A                      | Attn:                 |                                   |                          |   |                   |                             | [  | [  |    |    |             |          |    |                 |   | [ | ( | [ |   |
|  |   |  |                            |                           |                                  | Address:            |                        |                       |                                   |                          |   | 1                 |                             |    |    |    |    |             |          |    |                 | 1 |   |   |   |   |
|  |   |  |                            |                           | City:                            |                     |                        |                       |                                   |                          | 1   |                   |                             |    |    |    |    |             |          |    |                 | 1 |   |   |   |   |
|  |   |  |                            | s                         | State: Zip:                      |                     |                        |                       |                                   |                          |   |                   |                             |    |    |    |    |             |          | ļ  | ļ               |   |   |   |   |   |
| Project Location: Eddy Co., NM                                 |   |  |                            |                           | Р                                | Phone #:            |                        |                       |                                   |                          |   |                   |                             |    |    |    |    |             |          |    |                 |   |   |   |   |   |
| Sampler Name:  | Lindy Crain   |  |                            |                           |                                  |                     | F                      | Fax #:                |                                   |                          |   |                   |                             |    |    |    |    |             |          |    |                 |   |   |   |   |   |
| FOR LAS USE ONLY   | · · · · · · · · · · · · · · · · · · ·   | Π  | T.                         |                           | MAT                              | RIX                 |                        | PRESERV. SAMPLING     |                                   |                          |   |                   |                             |    |    |    | {  |             |          |    | 1               |   | { | 1 |   |   |
| Lab (.D,   | Sample I.D.   | (G)RAB OR (C)OMP.  | # CONTAINERS               | GROUNDWATER<br>MASTEWATER | SOIL                             | OIL                 | SLUDGE                 | OTHER :<br>ACIDIRASE: | ICE / COOL                        | OTHER :                  | DATE  | TIME              | Ch loride                   |    |    |    |    |             |          |    |                 |   |   |   |   |   |
| HA369-11   | BH-2 (0-1)  | 6  | 1                          |                           | ~                                |                     |                        |                       |                                   |                          | 3/2/10  | 1200              | ~                           |    |    |    |    |             |          |    | ·               |   |   |   |   |   |
| -12  | " (5.6)   | 6  | 1                          |                           | ~                                | ·                   |                        |                       |                                   |                          | 11  | 1202              | ~                           |    |    |    |    |             |          |    |                 |   |   |   |   |   |
| _ 13   | " (10-11)   | 6  | 1                          |                           | 12                               |                     |                        |                       |                                   |                          | 4   | 1205              | 1                           |    |    |    |    |             |          |    |                 |   |   |   |   |   |
| -14  | " (15-16)   | 6  | 1                          |                           | -                                |                     |                        |                       |                                   |                          | 11  | 1207              | 1-                          |    |    |    |    |             |          |    |                 |   |   |   |   |   |
| -12  | " (20.21')  | 6  | 1                          |                           | <u> </u>                         | _                   |                        |                       |                                   |                          |   | 1210              | 12                          |    |    |    |    |             |          | _  |                 |   |   |   |   |   |
| -16  | " (25.26)   | 6  | 1                          |                           | 1-                               | 1                   |                        |                       |                                   |                          |   | 1212              | 12                          |    |    |    |    |             |          |    |                 |   |   |   |   |   |
| - 17.  | " (30.31)   | 6  | 1                          |                           | 1-                               | 1                   |                        |                       | _                                 |                          |   | 1214              | 15                          |    | _  |    |    |             |          |    | _               |   |   |   |   |   |
| -18  | " (35.36)   | 6  | 1                          |                           | <u> </u>                         | 1_                  |                        |                       | _                                 |                          |   | 1216              | 1                           | .  | _  |    |    |             |          |    |                 |   |   |   |   |   |
| 19   | " (40-41')  | 6  | -1                         |                           | 1                                | 1                   |                        |                       |                                   | $\bot$                   |   | 1219              | 12                          |    |    |    |    |             | <b> </b> |    |                 |   |   |   |   | . |
| 20   | ··· (45.46)   | 6  | 1                          |                           | 1-                               | 1                   | ĻĻ                     | 1                     | _                                 |                          |   | 1223              | <u>Ľ</u>                    |    |    | 1  |    |             | <u> </u> |    |                 |   |   |   |   |   |
| nnalysou. Ali claima includin<br>sorvico. In no eveni abeli Co | id Dameges, Cordinai's llability and client's arclusive remady for a<br>rg these for negligence and any alther cause whistscover shall be<br>ardinal be liable for incidental or consequential damages, including<br>an out of or related to the partermence of sorkes hardunder by<br>Constraints of the partermence of sorkes hardunder by<br>Date: | deamad<br>g wilhout<br>Cardinal  | waiver<br>Emitat<br>regett | d unless<br>ion, but      | s meda i<br>sinces in<br>wholher | in willi<br>ierrupi | ig and ri<br>ions, ica | ocalvad<br>a ol ua    | by Ca<br>a, cr lo                 | irdina) v<br>isa ci pi   | within 30 days after<br>raffice incurred by a | r completion of i | ite epplic<br>Itee,<br>Lee, | a  |    |    |    |             | Phon     |    |                 |   |   |   |   |   |
| Circle rain Time: 1033 Don been                                |   |  |                            |                           |                                  |                     |                        | Fax Resu<br>REMARK    | Result: 12 Yes D No !Add'I Fax #: |                          |   |                   |                             |    |    |    |    |             |          |    |                 |   |   |   |   |   |
| Relinquished By: Date: Received By:                            |   |  |                            |                           |                                  |                     |                        |                       |                                   | 1                        |   | 1-1-1             | 22->                        | 0- | (4 | 3. | 1) | d           | d.       | 03 | 203             | ۴ |   |   |   |   |

-Fax-to (432) 272-0304 Please email results

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

12:30

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Date:

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Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

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Sample Condition

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