2006 MAR 27 PM 12 27



George F. Pritchard Project Manager / Geologist North America Upstream Midcontinent Business Unit 11111 S. Wilcrest, Rm S1052 Houston, Texas 77099 Tel (281) 561-4918 Fax (281) 561-3576 gpritchard@chevron.com

2006 MAR 27 PM 12 27

4-13-2000 (9:21AM)

March 22, 2006

Request for Administrative Approval of Unorthodox Oil Well Location and Simultaneous Dedication

Mr. Mark E. Fesmire c/o Mr. Michael E. Stogner New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Talked at George Pritihand who culled to check on the station of this & runth, held USL application (3-27/3-24)

1 y

Dear Mr. Fesmire:

Chevron respectfully requests administrative approval of an unorthodox oil well location for the following well:

C.L. Hardy #7 2310' FSL & 1310' FWL, C N/2 SW/4 of Section 20, T21S, R37E, Unit Letter L Lea County, New Mexico

The proposed well will be as an infill producer in the Penrose Skelly, Grayburg Pool [Pool Code 50350], which is an oil pool spaced on 40 acres. This well is a continuation to our infill drilling in the same Pool. Chevron's technical analysis of the reservoir still supports the contention that typical Grayburg wells cannot drain 40 acres.

The NW/4 SW/4 of Section 20 will be simultaneously dedicated in the Penrose Skelly, Grayburg Pool to the proposed well and to the C. L. Hardy #5. The C. L. Hardy #5 was recompleted in June 2003 and is currently producing as Penrose Skelly, Grayburg producer. Chevron also requests approval of the simultaneous dedication.

This application is based on geological and engineering analysis. The analysis and justification for this request is attached as Exhibit 1, along with other supporting documentation. There are five wells that have produced the Grayburg formation in the SW/4 of Section 20. The proposed well will be located in a 20 acre location approximate center north of those wells. Based on drainage calculations, Chevron believes that drilling the infill well will recover reserves that would not be recovered by existing Grayburg producers.

March 22, 2006 Page 2

A land plat highlighting the proposed well's location is attached as Exhibit 2. The SW/4 of Section 20 is covered by a single fee lease and has common royalty and working interest ownerships. For that reason and the proposed location of the infill well, there are no adversely affected interest owners and no one has been notified of this application.

If you have any questions concerning this application or need additional information, please contact me by phone at (281) 561-4918 or by email at <u>gpritchard@chevron.com</u>. If I am not available, you can also reach Michael Gelbs by phone at (281) 561-4794 or by email at <u>mike.gelbs@chevron.com</u>. Thank you for consideration of this matter.

Sincerely,

Guy Fitutdiad

George F. Pritchard Project Manager / Geologist

Attachments

cc: NMOCD District 1 – Hobbs, NM Mike Gelbs George Pritchard Well File

## **NOTIFICATION LIST**

Application of Chevron U.S.A. Inc. for Administrative Approval of an Unorthodox Oil Well Location and Simultaneous Dedication:

C. L. Hardy #7 2310' FSL & 1310' FWL Section 20, T21S, R37E, Unit Letter L Lea County, New Mexico

# Offset Operators, Working Interest Owners, SW/4 Section 208:

1. Chevron U.S.A. Inc. 11111 S. Wilcrest Houston, TX 77099

5

.

Operator/100% WI

| DATE IN | 3/27/06 SUSPENS     | E MIKE STOCKER LOGGED IN 3/27/06 TYPE NSL APP NO PTDSOLO8652606  |
|---------|---------------------|--|
| ·       |                     | ABOVE THIS LINE FOR DIVISION USE ONLY  |
|         | I                   | NEW MEXICO OIL CONSERVATION DIVISION<br>- Engineering Bureau -<br>1220 South St. Francis Drive, Santa Fe, NM 87505   |
|         |                     | ADMINISTRATIVE APPLICATION CHECKLIST   |
| т       | THIS CHECKLIST IS M | ANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS<br>WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE  |
| Appli   | [DHC-Down<br>[PC-Po | 8:<br>Indard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]<br>Inhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]<br>ol Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]<br>[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]<br>[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]<br>lified Enhanced Oil Recovery Certification] [PPR-Positive Production Response] |
| [1]     | TYPE OF AP<br>[A]   | PLICATION - Check Those Which Apply for [A]<br>Location - Spacing Unit - Simultaneous Dedication<br>NSL NSP SD   |
|         | Check<br>[B]        | One Only for [B] or [C]<br>Commingling - Storage - Measurement<br>DHC CTB PLC PC OLS OLM   |
|         | [C]                 | Injection - Disposal - Pressure Increase - Enhanced Oil Recovery   |
|         | [D]                 | Other: Specify   |
| [2]     | NOTIFICAT<br>[A]    | ION REQUIRED TO: - Check Those Which Apply, or 🖾 Does Not Apply<br>Working, Royalty or Overriding Royalty Interest Owners  |
|         | [B]                 | Offset Operators, Leaseholders or Surface Owner  |
|         | [C]                 | Application is One Which Requires Published Legal Notice   |
|         | [D]                 | Notification and/or Concurrent Approval by BLM or SLO<br>U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office  |
|         | [E]                 | For all of the above, Proof of Notification or Publication is Attached, and/or,  |
|         | [F]                 | Waivers are Attached   |

### [3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

That Signature

George F. Pritchard

Print or Type Name

| Project Manager / Geologist | _3/22/2006 |
|-----------------------------|------------|
| Title                       | Date       |

gpritchard@chevron.com e-mail Address

# EXHIBIT 1

## **ENGINEERING AND GEOLOGICAL JUSTIFICATION**

Application of Chevron U.S.A. Inc. for Administrative Approval of an Unorthodox Oil Well Location and Simultaneous Dedication:

C. L. Hardy #7

2310' FSL & 1310' FWL Section 20, T21S, R37E, Unit Letter L Lea County, New Mexico

## PRIMARY OBJECTIVE: GRAYBURG

SUPPORTING DATA:

- 1. Chevron U.S.A. Inc. (Chevron) is the operator of the proposed C. L. Hardy #7 well (Exhibit 3). The proposed total depth is 4300' in the top of the San Andres formation.
- 2. The completion will be in the Penrose Skelly, Grayburg Oil Pool and the proposed location encroaches toward the following wells (Exhibit 4).

| Operator | Well     | API #      | Location | Formation | Cun | n Prod | Curre | nt Prod | Status             |  |
|----------|----------|------------|----------|-----------|-----|--------|-------|---------|--------------------|--|
| Operator | W CII    |            | Location | ronnation | MBO | MMCF   | BOPD  | MCFPD   | Status             |  |
|          | C.L.     |            |          |           |     |        |       |         |                    |  |
| Chevron  | Hardy #1 | 3002506684 | 20-N     | Grayburg  | 0   | 60     |       |         | inactive Pre-1970  |  |
|          | C.L.     |            |          |           |     |        |       |         | inactive 2/1970;   |  |
| Chevron  | Hardy #2 | 3002506683 | 20-N     | Grayburg  | 31  | 579    |       |         | Drnkrd             |  |
|          | C.L.     |            |          |           |     |        |       |         | inactive 1971,     |  |
| Chevron  | Hardy #3 | 3002506686 | 20-K     | Grayburg  | 14  | 295    | 20    | 381     | recompl 2/2003     |  |
|          | C.L.     |            |          |           |     |        |       |         | inactive Pre-1970, |  |
| Chevron  | Hardy #4 | 3002506705 | 20-M     | Grayburg  | 20  | 210    | 10    | 358     | recompl 10/2003    |  |
|          | C.L.     |            |          |           |     |        |       |         |                    |  |
| Chevron  | Hardy #5 | 3002506687 | 20-L     | Grayburg  | 8   | 197    | 2     | 416     | active 6/2003      |  |
|          | C.L.     |            |          |           |     |        |       |         |                    |  |
| Chevron  | Hardy #6 | 3002536740 | 20-K     | Grayburg  | 6   | 53     | 22    | 375     | active 10/2004     |  |

- 3. The proposed C. L. Hardy #7 unorthodox Grayburg location is based primarily on drainage considerations:
  - a. Grayburg Reservoir

The Grayburg is a series of alternating subtidal and supratidal dolomites with the subtidal rock having porosity and hydrocarbons while the supratidal rock is tight. The Grayburg depositional environments varied rapidly so that many porous and tight intervals are not continuous from well to well on 40-acre spacing. Tight dolomite and/or anhydrite intervals within the Grayburg create vertical and horizontal flow barriers between different zones of porosity. Additionally, average porosity of the Grayburg is less than 10%, and the average permeability is less than 1 millidarcy. For all of these reasons, Grayburg wells are not usually capable of draining a 40-acre proration unit.

The reservoir was also analyzed by mapping the Hydrocarbon Pore Volume (HCPV) (Exhibit 5). HCPV is the product of feet of net pay (h) times average porosity (phi) times oil saturation ( $S_o$ ). The attached map is the arithmetic product of grids interpreted from those values. The values were obtained as follows:

- 1. Net pay was read from either modern neutron-density logs or estimated from a map developed from gross pay times net-togross ratio (Exhibit 4).
- 2. Average porosity was calculated from modern well logs using a minimum of 6% crossplot porosity and a maximum of 20%.
- 3. Oil saturation was calculated from a fractional flow curve using representative water cut values.

The following table provides drainage areas calculated from the HCPV map and reserves of the offsetting wells.

|          | Well          | API #      | Location | Formation | Drainage | EUR |      |
|----------|---------------|------------|----------|-----------|----------|-----|------|
| Operator | VV CII        | AFI#       | Location | Formation | Acres    | MBO | MMCF |
| Chevron  | C.L. Hardy #1 | 3002506684 | 20-N     | Grayburg  | 0        |     | 60   |
| Chevron  | C.L. Hardy #2 | 3002506683 | 20-N     | Grayburg  | 5        | 31  | 579  |
| Chevron  | C.L. Hardy #3 | 3002506686 | 20-K     | Grayburg  | 6**      | 36  | 786  |
| Chevron  | C.L. Hardy #4 | 3002506705 | 20-M     | Grayburg  | 5        | 33  | 720  |
| Chevron  | C.L. Hardy #5 | 3002506687 | 20-L     | Grayburg  | 3.       | 23  | 880  |
| Chevron  | C.L. Hardy #6 | 3002536740 | 20-K     | Grayburg  | 5        | 34  | 436  |

As seen above, the average drainage area of the offsetting locations is only 5 acres, and additional reserves can be recovered by drilling the proposed infill well at an approximate equidistant location from the existing offsetting producers. Reserves for the proposed location were calculated using the HCPV map, a 5 acre drainage area, and a 15% recovery factor. The results are as follows:

| Operator | Well        | Location | HCPV   | Drainage | EUR |      |  |
|----------|-------------|----------|--------|----------|-----|------|--|
| Operator | <b>WOII</b> | Location | IICF V | Acres    | MBO | MMCF |  |
| Chevron  | C. L. Hardy | 20-L     | 7.8    | 5        | 31  | 680  |  |

4. The SW/4 of Section 20 is covered by a single fee lease which has common royalty and working interest ownerships. Chevron is the operator and 100% working interest owner of the Grayburg wells toward which the proposed well will encroach. Therefore, there are no offset interest owners or adversely affected parties to notify of this application.

•

.

- 5. The proposed C. L. Hardy #7 will share a 40-acre proration unit and will be simultaneously dedicated with the C. L. Hardy #5 [30-025-06687] as a Penrose Skelly, Grayburg producer in Section 20, Unit Letter L.
- 6. Approval of this application will allow for the recovery of oil and gas reserves which would not otherwise be recovered.

# Exhibit 2

|  |  | A Description of the second se |
|--|--|--|
| Fridy Real A   | Charter (1985)<br>Marter (1985)<br>(Composited Free)<br>(Composited Free)<br>( | Apoche pilonarier iws 6<br>7 8 9 49 10 10 5762<br>C-12" C.Y (P/B) Chevron<br>12 14 1war  |
| Stand I Statemin Alvest was<br>Build Istate for the state of  | energy and a second  | from har begin and hard Prace  |
| Chevron Lane Co Inc<br>AKTO Ener'in 121 1500 100<br>10 TO 01 10 10 100 100<br>10 TO 01 10 10 100<br>10 TO 000 100 100<br>10 TO 000 100   | Ad Wienthanty" , WB. 7 , Ouel  | Store ( WO)  |
| 1 10   | -50 m -  | Apoche (1" a   |
| Bennot Fore River & Kowell   | 8 Apoche. "Www.standbacher"  | (pvol) "DA" Review of s  |
| Nesthroph Oil<br>to 4000 Agentie<br>10 usis<br>10 usis | Oszalar<br>J. J. Hen T. A Apache , Jares<br>drix , C. Making Haven<br>Dual - C. Marting J. Haven<br>Lack nor A Tallor for a from S Clark<br>W S Making Deck 157.(3)  | (K ML Kien)<br>(K ML Kien)<br>2 6 8005 3<br>(wo) 15<br>Store   |
| And Dr.  | Marchania Company Marchania Chatcher   | Hendrix  |
| Marine Res. pwg f<br>Puret (Gursten) Pure Res. pwg f<br>Marine Res. pwg  | McElvoin Componité Hedrick, Chesoprois<br>1032531<br>Elliot 3<br>U.S W.E.Lee York  | Hendrix S Hendrix J Hendrix<br>Corp. etal, S/R S() Corp. etal<br>avec 2 (Ducit etal (2 4 (Mail)<br>(Wol Apol 2 a)  |
| Sunt hung - St<br>Sunt hung - St<br>Salts 2<br>4 Pure Fless Stee (1/100) Pure Fless<br>4 Pure Fless Stee (1/100) Pur   | A Titan Res. IMillord  | Bridger (B)  |
|  | TO MICONILLE ING CHARK ESTISI  | Wantberry 4 1 2 15 (Unother  |
| Jake P 19 Qued Qued  | Cheveon Denathongo .   | I HI MARCHAN'S C ALL HERMONDS ALL D  |
| Sr. Gues<br>A 19 D 1 - K 1 Pure Rei ta<br>ATO Eneri<br>Didition Sch Od<br>A 1943 Ison Tech D McCosland (5)   | Cheveon Harathono  | Come cause states in Come cause states in the states in th |
| A MAL AND PROVIDE LOMODEND MEANING   |  | Harris Carster Anderson  |
| Anoso Unit<br>Anoso Unit<br>Sector Statistic Crist 5<br>Statisto) (K At. Deck Estis)   | Pred & mouth (<br>0.4 mouth) A 1<br>0.4 mouth (   | Aller a mire a   |
| Att Chevron  | INSI 4059 (Bund 156 Lang Colling and 101)<br>Insi 4059 (Bund Rund Coll)<br>Apoche Bund Coll Har Hill Market<br>(1) Conducts  |  |
| Trinete) 728 * (0 u+1) *2<br>(Trinete) 728 * (0 u+1)<br>36.3(n) (parce) proto<br>* Trinete) 10 *2<br>* Trinete) 10 *2<br>* *   | Apache a Deal any day of a second sec   | Dual to a second a se |
| tencing (16 2000)<br>19 19 19 19 19 19 19 19 19 19 19 19 19 1  | War Hendrik  |  |
| B.F. Hugnes Ist (Diewait)  | M. Deck Ester State O Hardy - 1  |  |
| Alcore Lantarch Mana Bont  | 1 433 142 1112 2001  | DODAL O ATTAC A CONTRACTORY  |
| Pris G Knowl Gull Monderia (B)<br>Pris G Knowl Gull Monderia<br>Hora Mottern<br>(WID) Montern<br>(WID) Montern   | (BP Amer.) Apoche  | THE to ATT ATT RICTI Christ  |
| Chevron 1001 900   | Tig Fort I To To WH  | 17 1 John 2 17 125 12 6  |
| 30AU Mailera   | Hel S. Turner A. Mirchell (S. 432  | (The) a standard (Condition of The)  |



| DISTRICT I |  |
|------------|--|
|------------|--|

1625 N. FRENCH DR., HOBBS, NM 88240

DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NM 88210

entresidant

#### State of New Mexico

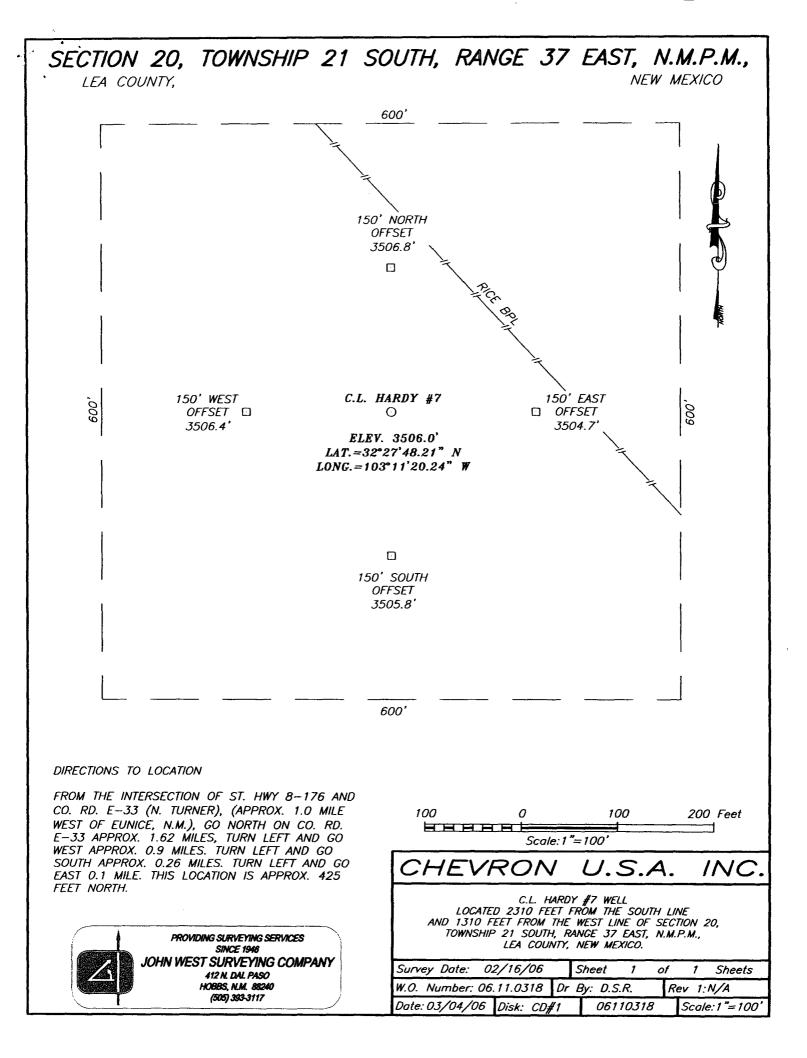
Energy, Minerals and Natural Resources Department

# OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR.

Form C-102 Revised October 12, 2005 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

| STRICT IV   | Aztec, NM   | 87410    | WELL IO   |               |                |          | EXICO 87505                    | ON PLAT  | _  |   |
|---|---|----------|---|---------------|----------------|----------|--------------------------------|--|--|---|
| 220 S. ST. FRANCIS DR., SANTA FR. NM 87505   API Number   Pool Code |   |          |   |               |                |          | Pool Name                      | C AMENDI   | SD REPOI   |   |
| Property Code Property Name<br>C.L. HARDY                           |   |          |   |               |                |          |                                | Well Num   | iber   |   |
| OGRID No.   |   |          |   | CHI           | Орен           | ator Nam |                                |  | Elevatio<br>3506   |   |
|   |   |          |   |               | Surfa          | ce Loca  | ation                          |  |  |   |
| 1   | Section Township Range Lot Idn Feet from the North/South line |          |   | Feet from the | East/West line | County   |                                |  |  |   |
| L   | 20  | 21-5     |   | l             | 23             |          | SOUTH                          | 1310   | WEST   | LEA   |
|   |   |          |   | r             |                |          | rent From Sur                  |  |  |   |
| IL or lot No. So  | ection  | Township | Range   | Lot Idn       | Feet fr        | om the   | North/South line               | Feet from the  | <b>Bast/West</b> line  | County  |
| Dedicated Acres   | Joint or  | Infill C | Consolidation                                     | Code Or       | der No.        |          | l                              |  |  |   |
|   |   |          |   |               |                |          |                                |  |  |   |
| NO ALLOWA   | ABLE W  |          |   |               |                |          | INTIL ALL INTER<br>APPROVED BY |  | EEN CONSOLIDA  | ATED  |
|   | <br> <br> <br> <br> <br>                                      |          | EODETIC CO<br>NAD 22                              | 7 NME         | ·              |          |                                | herein is true<br>my knowledge<br>organization ei<br>or unleased mi<br>including the<br>or bas a right<br>location pursu,<br>owner of such<br>or to a volunt,<br>compulsory pow<br>by the division<br>Signature<br>Printed Nam | Da   | e best of<br>t this<br>r interest<br>e land<br>t this<br>the an<br>interest,<br>nt or a<br>re entered<br>te |
|   |   |          | Y=5341<br>X=8529<br>LAT.=32*27<br>ONG.=103<br>4 3 | 65.7 E<br>    |                |          |                                | I hereby<br>shown on this<br>notes of actua<br>under my supe<br>true and corre   | certify that the well<br>plat was plotted fro<br>isurveys made by<br>rrision, and that th<br>ct to the best of m<br>UARY 16, 2000<br>Seal of<br>Surveyor | l location<br>om field<br>ne or<br>e same is<br>y belief.   |

Aundared 640-acre Section



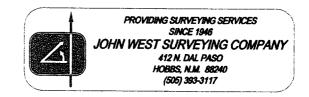
VICINITY MAP

| 25        | 5                      |             |                   |             | HI                      | L                                      |                |          |            |   |           |          |                |  |
|-----------|------------------------|-------------|-------------------|-------------|-------------------------|--|----------------|----------|------------|---|-----------|----------|----------------|--|
|           | 2                      | ы<br>N      |                   | H4]         | <b>co</b> <sup>H4</sup> | 9                                      |                |          |            |   |           |          |                |  |
| з€        | R 36                   | к<br>3      | 31                | 32          | L 33                    | 34                                     | 35 HI          | 36       | 31         | 35                                      | 33        | 34       | 35             | 36   |
|           |                        |             |                   | L           |                         | T                                      | 20 S           | 2        |            |   |           |          | <u>_</u>       |  |
|           | Ì                      |             | KILY<br>E31       |             |                         | T                                      | 21 S           |          |            |   |           |          | P              |  |
|           | E3L                    |             | R                 | ST. 175     | 15 3                    | 2                                      | 1              |          | 5          | 4                                       | 3         | 1        | ŧ.             | 6  |
|           | 6                      |             | S<br>GULF<br>GULF |             | CURRY                   |  |                | 6        | 41.        |   |           | G 2      | N.             |  |
|           |                        |             | ۳ <u></u> 3       | 4           | E36                     | 2                                      |                |          | HIII I     |   | $\square$ | 1        | <u> </u>       | $\square$                                    |
|           |                        |             | OI                | L CE        | NTEI                    | 5                                      |                |          |            | EB4                                     |           |          | 1              |  |
|           | 7                      | Σιζ         | . 8               | 9           | 10                      | - 11                                   | 12             | 7        | 8          | 9 DECK                                  | 10        | 11       | 12             | 7  |
| ┣╂        | <u> </u>               | Ξŧ          | ₩<br>₩            | KILY<br>E31 |                         |  |                |          | 17 LL      | THE COLUMN                              |           |          |                |  |
| 13        | 18                     |             | 17 لىر            |             | ໝ<br>15                 | 14                                     | E1 463         | 18       | 17 2       |   |           | 14       | 13             | 18   |
|           | 10                     |             |                   | ST. 176     |                         | MUNICIPAL                              | 13             | rt (     | E36Ż       | 16                                      | 15        | DNES CIT | Y PRIVATE R    |  |
|           | <u>ы</u>               |             |                   |             |                         | ILIN AREA                              |                | EI C     | C-30       | EUN                                     | ICE       |          |                | <u>1                                    </u> |
| 24 8      |                        | ч           | 20                | 21          | ST. 8                   | 201/7/1                                | 24 X           | ĥ 19     | <b>2</b> 0 |   | 22        | 23       | 24             | 80 19  |
| ~         | P <b>:</b>             | WEAVER      | 123               |             | 55                      | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | ్ జ            | 24       |            |   |           | T.       |                |  |
|           |                        | ₹           | <u> </u>          | LEA C       | EUNICE AP               |  |                |          | 1          |   | CONTIN    | ENTAL    |                |  |
| 25        | 30                     |             | 29                | 29          | 27                      | 26                                     | z              | 30       | 29         | ~ | E33<br>27 | A 26     | 00<br>1 25     | 30   |
|           |                        |             | COYOTE            | HILL        |                         |  |                | $\sim$   |            | 28 577<br>777 / /<br>EUNICE CITY        | 22        | 70<br>70 | LS PR          |  |
|           |                        |             | E55               |             | C.L                     | . HARDY                                | #7             |          | T T        |   | LDILTS 34 | L ST. 23 | 4 ST.          | 31   |
| 36        | 31                     |             | 32                | 33          | 34                      | 35                                     | <i>"</i><br>36 | 31       | TEXAS      | E23<br>AVE.<br>33                       | 1-4       | 35       | 36             | 234  |
|           |                        |             |                   |             |                         |  | <u>T 21 S</u>  |          | 32         | 33                                      | LA H      |          | <u> </u>       | ╇  |
|           |                        |             |                   |             |                         |  | T 22 S         | Į        |            |   |           | 2        | Λ.             |  |
| 1         | 6                      |             | 5                 | 4           | 3                       | s                                      | 1              | 6        | 5 A        | 4                                       | 3         |          |                | 6  |
|           |                        | λ <u></u> R |                   |             |                         |  | ·····          | <b> </b> |            | 8                                       |           |          | ¥<br>¥         | ╂──┨   |
| 12        | 7                      | VEAVER      | 1 <u>5</u><br>8   | 9           | 10                      | n                                      | 12             | 7        | L<br>iv 8  | 9                                       | 10        | 18       | ЦЩ<br>Ц        | 7  |
|           |                        | >           |                   |             | DELAWAR                 | E BASIN                                |                | 1        |            | }                                       |           | 5        | H 12           | 1 1  |
|           | -                      | -           |                   |             |                         | 21 BH3110                              |                | t        | +          | -                                       | <b> </b>  |          | 1              |  |
| 13 00     | ы.<br>18               |             | 17                | 16          | 15                      | 14                                     | 13             | 18       | 17         | 16                                      | 15        | 14       | 13             | 4 124<br>- 180 18                            |
| ж 35<br>, | 90 <sup>18</sup><br>24 |             |                   |             |                         |  |                |          |            |   |           |          | 6              | 5 65<br>5 65                                 |
|           |                        |             |                   |             |                         |  |                | 64       |            |   | 207       | 1        |                |  |
| 24        | 19                     |             | 20                | 21          | 22                      | 23                                     | 24 8           |          | 20         | 21                                      | 1         | 23_      | 24             | 19   |
| E         |                        |             |                   | ļ           | ļ                       |  | ļ              | Γ        |            |   | IS .      | P,       | R.             | ┦╌┨  |
|           |                        | 1           |                   |             |                         |  |                | 1        | 29         | 28                                      | /         |          | ۱ <sup>۱</sup> |  |
| 25        | 30                     | 1           | 29                | 28          | 27                      | 26                                     | 25             | 30       | KING       | pr-                                     | 27        | 26       | 25             | 30   |
|           |                        |             |                   |             |                         | <b> </b>                               |                | 1        | E20        | . <u> </u>                              | 14        |          | _ <del></del>  |  |
|           |                        |             | 1                 |             |                         | L                                      | L              |          |            | 1                                       |           |          | E1             |  |
|           |                        |             |                   |             |                         |  |                |          |            | ~~~                                     | NI E.     | 1"       |                | -  |

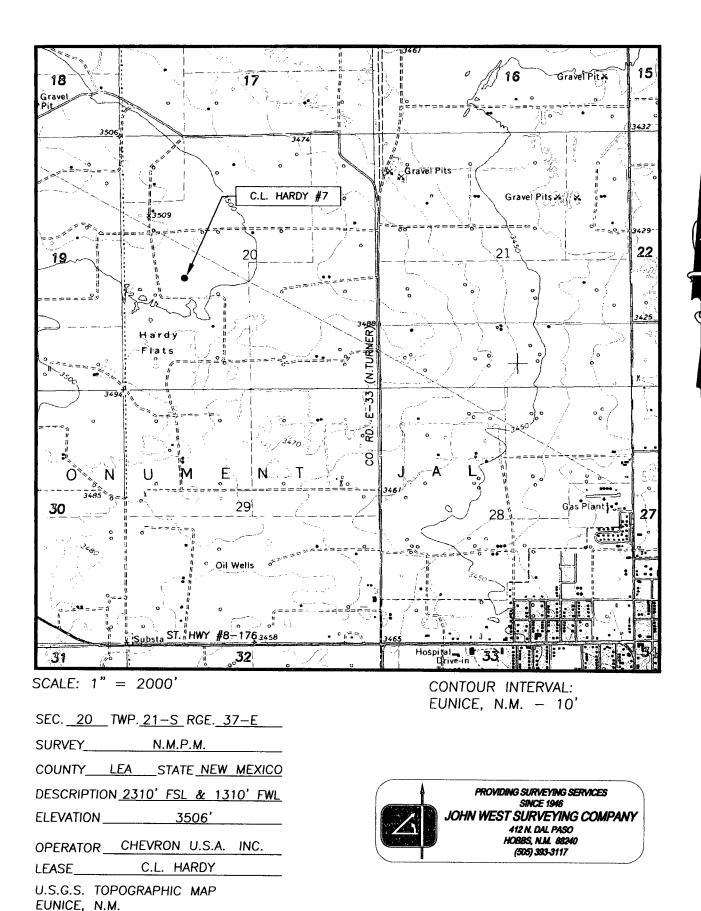
SCALE: 1'' = 2 MILES

SEC. <u>20</u> TWP.<u>21–S</u> RGE. <u>37–E</u> SURVEY\_\_\_\_\_\_N.M.P.M. COUNTY\_\_\_<u>LEA</u>\_\_\_STATE\_<u>NEW\_MEXICO</u> DESCRIPTION <u>2310'</u> FSL <u>& 1310'</u> FWL ELEVATION\_\_\_\_\_<u>3506'</u> OPERATOR\_\_<u>CHEVRON\_U.S.A.\_\_INC.</u> LEASE\_\_\_\_\_\_C.L. HARDY

· · ·



# LOCATION VERIFICATION MAP



<u>District II</u> 1301 W. Grand Avenue, Artesia, NM 88210

District III 1000 Rio Brazos Rd., Aztec, NM 87410

### **District IV** 1220 South St. Francis Dr., Santa Fe, NM

40-acre

proration unit

660'

5

1980'

1220 South St. Francis Dr.

Santa Fe, NM 87505

# **OIL CONSERVATION DIVISION**

Submit to-

Exhibit 3.1

AMENDED REPORT

87505

# WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                   | API Number<br>0-025-06687                                    |             | <sup>2</sup> Pool Code <sup>3</sup> Pool Name<br>50350 Penrose Skelly; G |                      |                    |                                    |                                    |    |                | lyburg     |              |                                    |
|-----------------------------------|--|-------------|--|----------------------|--------------------|------------------------------------|------------------------------------|----|----------------|------------|--------------|------------------------------------|
| <sup>4</sup> Property             | Code   |             | <sup>5</sup> Property Name<br>C L Hardy <sup>6</sup> Well Number<br>5    |                      |                    |                                    |                                    |    |                |            |              |                                    |
| <sup>7</sup> OGRID<br><b>4323</b> |  |             |  |                      |                    | perator Nar<br><b>ron U.S.A</b> ., |                                    |    |                |            | 5            | <sup>9</sup> Elevation<br>3501' gl |
|                                   |  |             |  |                      | <sup>10</sup> Surf | ace Lo                             | cation                             |    |                |            |              |                                    |
| UL or Lot No.                     | Section  | Township    | Range  | Lot Idn              | Feet fro           | om the                             | North/South line                   | Fe | et from the    | East/West  | line         | County                             |
| L                                 | 20   | 21\$        | 37E  |                      | 19                 | 80                                 | South                              |    | 660            | West       |              | Lea                                |
|                                   | <sup>11</sup> Bottom Hole Location If Different From Surface |             |  |                      |                    |                                    |                                    |    |                |            |              |                                    |
| UL or Lot No.                     | Section  | Township    | Range  | Lot Idn              | Feet fro           | om the                             | North/South line                   | Fe | et from the    | East/West  | line         | County                             |
| <sup>12</sup> Dedicated Acr<br>40 | es <sup>13</sup> Join  | t or Infill | onsolidation   | Code <sup>15</sup> C | Order No.          |                                    |                                    | ·  |                |            |              |                                    |
| NC                                | ) ALLOW  | ABLE WIL    |  |                      |                    |                                    | ION UNTIL ALL IN<br>EEN APPROVED B |    |                | BEEN CONSO | DLIDAT       | ED OR A                            |
| 16                                |  |             |  |                      |                    |                                    |                                    |    | I hereby certi | RATOR CI   | nation conta |                                    |

20

|           | 1   | PIIN   |
|-----------|-----|--------|
| Signature | ·un | Flutel |

George F. Pritchard

Printed Name

Title

18

Geologist

March 20, 2006

# SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Signature and Seal of Professional Surveyor:

|                 | <br> | Certificate Number |
|-----------------|------|--------------------|
| C L Hardy Lease |      |                    |
|                 |      |                    |
|                 |      |                    |
|                 |      |                    |
|                 |      |                    |
|                 |      | l                  |

