

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources

Form C-104  
Revised August 1, 2011

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

**I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT**

|  |   |   |
|--|---|---|
| <sup>1</sup> Operator name and Address<br>Apache Corporation<br>303 Veterans Airport Lane Suite 1000<br>Midland TX 79705 |   | <sup>2</sup> OGRID Number<br>873                                    |
|  |   | <sup>3</sup> Reason for Filing Code/ Effective Date<br>NW /08/25/16 |
| <sup>4</sup> API Number<br>30-015-40468  | <sup>5</sup> Pool Name<br>CEDAR LAKE; GLORIETA-YESO | <sup>6</sup> Pool Code<br>[96831]                                   |
| <sup>7</sup> Property Code<br>315935   | <sup>8</sup> Property Name<br>CEDAR LAKE FEDERAL CA | <sup>9</sup> Well Number<br>#812H                                   |

**II. <sup>10</sup>Surface Location**

|                    |              |                 |              |         |                       |                           |                      |                        |                |
|--------------------|--------------|-----------------|--------------|---------|-----------------------|---------------------------|----------------------|------------------------|----------------|
| UL or lot no.<br>E | Section<br>8 | Township<br>17S | Range<br>31E | Lot Idn | Feet from the<br>2088 | North/South Line<br>NORTH | Feet from the<br>220 | East/West line<br>WEST | County<br>EDDY |
|--------------------|--------------|-----------------|--------------|---------|-----------------------|---------------------------|----------------------|------------------------|----------------|

**<sup>11</sup> Bottom Hole Location**

|                             |   |  |                                   |                                    |                                     |                           |                      |                        |                |
|-----------------------------|---|--|-----------------------------------|------------------------------------|-------------------------------------|---------------------------|----------------------|------------------------|----------------|
| UL or lot no.               | Section<br>7                                | Township<br>17S                                  | Range<br>31E                      | Lot Idn                            | Feet from the<br>2077               | North/South line<br>NORTH | Feet from the<br>330 | East/West line<br>WEST | County<br>EDDY |
| <sup>12</sup> Lse Code<br>F | <sup>13</sup> Producing Method<br>Code<br>P | <sup>14</sup> Gas Connection<br>Date<br>08/25/16 | <sup>15</sup> C-129 Permit Number | <sup>16</sup> C-129 Effective Date | <sup>17</sup> C-129 Expiration Date |                           |                      |                        |                |

**III. Oil and Gas Transporters**

|                                    |   |                     |
|------------------------------------|---|---------------------|
| <sup>18</sup> Transporter<br>OGRID | <sup>19</sup> Transporter Name<br>and Address                                     | <sup>20</sup> O/G/W |
| 252293                             | Holly Energy Pipeline<br>311 W Quay / PO Box 1360<br>Artesia NM 88210             | O                   |
| 221115                             | Frontier Field Services LLC<br>4200 East Skelly Drive Suite 700<br>Tulsa OK 74135 | G                   |
|                                    |   |                     |
|                                    |   |                     |
|                                    |   |                     |

**IV. Well Completion Data**

|                                       |                                      |                            |                             |  |                       |
|---------------------------------------|--------------------------------------|----------------------------|-----------------------------|--|-----------------------|
| <sup>21</sup> Spud Date<br>12/03/2012 | <sup>22</sup> Ready Date<br>08/25/16 | <sup>23</sup> TD<br>10,573 | <sup>24</sup> PBTB<br>10568 | <sup>25</sup> Perforations<br>6050-10475 | <sup>26</sup> DHC, MC |
| <sup>27</sup> Hole Size               | <sup>28</sup> Casing & Tubing Size   | <sup>29</sup> Depth Set    | <sup>30</sup> Sacks Cement  |  |                       |
| 17.5'                                 | 13.375 48#H40                        | 492'                       | 775 sx Class C              |  |                       |
| 12.25'                                | 9.625 36#J55                         | 3528'                      | 1680 sx Class C             |  |                       |
| 8.75'                                 | 7" 26# J55 L80                       | 5432'                      | 745 sx Class C              |  |                       |
| 8.75                                  | 4.5 LINER, 3.5# L80                  | 10,573'                    | 450 sx PVL                  |  |                       |

**V. Well Test Data**

|  |   |                                       |                                     |                             |                                |
|--|---|---------------------------------------|-------------------------------------|-----------------------------|--------------------------------|
| <sup>31</sup> Date New Oil<br>08/25/16 | <sup>32</sup> Gas Delivery Date<br>08/25/16 | <sup>33</sup> Test Date<br>08/30/2016 | <sup>34</sup> Test Length<br>24 hrs | <sup>35</sup> Tbg. Pressure | <sup>36</sup> Csg. Pressure    |
| <sup>37</sup> Choke Size               | <sup>38</sup> Oil<br>195                    | <sup>39</sup> Water<br>1210           | <sup>40</sup> Gas<br>320            |                             | <sup>41</sup> Test Method<br>P |

<sup>42</sup> I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Emily Follis*  
Printed name:  
Emily Follis

Title:  
Reg Analyst

E-mail Address:  
emily.follis@apachecorp.com

Date:  
09/14/16

Phone:  
432-818-1801

OIL CONSERVATION DIVISION

Approved by: *Karen Sharp*  
Title: *Res Op Spec - Adv*  
Approval Date: *9-19-16*

Pending BLM approvals will  
subsequently be reviewed  
and scanned

**NM OIL CONSERVATION  
ARTESIA DISTRICT**

Form 3160-5  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SEP 19 2016**

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

**RECEIVED**

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

|  |   |   |
|--|---|---|
| 1. Type of Well<br><input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other |   | 5. Lease Serial No.<br>NMLC029435B                              |
| 2. Name of Operator<br>APACHE CORPORATION  |   | 6. If Indian, Allottee or Tribe Name                            |
| Contact: EMILY FOLLIS<br>E-Mail: Emily.Follis@apachecorp.com   |   | 7. If Unit or CA/Agreement, Name and/or No.<br>NMNM134086       |
| 3a. Address<br>303 VETERANS AIRPARK LANE SUITE 1000<br>MIDLAND, TX 79705   | 3b. Phone No. (include area code)<br>Ph: 432-818-1801 | 8. Well Name and No.<br>CEDAR LAKE FEDERAL CA 812H              |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)<br>Sec 8 T17S R31E SWNW 2088FNL 220FWL                    |   | 9. API Well No.<br>30-015-40468                                 |
|  |   | 10. Field and Pool, or Exploratory<br>CEDAR LAKE, GLORIETA-YESA |
|  |   | 11. County or Parish, and State<br>EDDY COUNTY COUNTY, NM       |

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

| TYPE OF SUBMISSION                                    | TYPE OF ACTION                                |   |  |   |
|---|---|---|--|---|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off   |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity   |
| <input type="checkbox"/> Final Abandonment Notice     | <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other |
|   | <input type="checkbox"/> Change Plans         | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       | Production Start-up                       |
|   | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal            |   |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Apache completed the well as follows: RR 02/20/13 TOC@136'

05/17/16 RU RENAGADE RUN CBL 5350 LOG UP' DROP BACK LOG RADIAL BOND/GAMMA RAY/CCL BACK TO SURFACE  
05/18/16 POLISH PBR/RUN TEST TOOL  
05/19/16 RIH W/3/4" BIT  
05/20/16 POOH WITH BIT, TEST CASING TO 1500# NO LEAK OFF, TRIED TO CUT CASING NO LUCK, CIRC REV 40  
BBL, PRESURE UP MADE CUT, PIPE WOULD NOT MOVE, KNIVES WOULD NOT CLOSE. WORK PIPE TO 10,227, SUB  
LEAKING, POOH PULLED 10,165 PIPE DRAGGING CLOSE WELL IN. SDFW  
05/23/16 TRY TO PULL CUTTER  
05/24/16 RIH W/3/4" MILL  
05/25/16 MIRU PETROPLEX ACID PUMP & BREAKDOWN  
05/26/16 RIH W/4-1/2" FRAC STRING, SAFETY MEETING OVER SLIPS & TRIPS, INSTALL GOAT HEAD, AND PREPARE

|   |                          |
|---|--------------------------|
| 14. I hereby certify that the foregoing is true and correct.<br><b>Electronic Submission #351193 verified by the BLM Well Information System<br/>For APACHE CORPORATION, sent to the Carlsbad</b> |                          |
| Name (Printed/Typed) EMILY FOLLIS   | Title REGULATORY ANALYST |
| Signature (Electronic Submission)   | Date 09/14/2016          |

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

|   |              |
|---|--------------|
| Approved By _____   | Title _____  |
| Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. | Office _____ |

*Pending BLM approvals will  
subsequently be reviewed  
and scanned*

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***

**Additional data for EC transaction #351193 that would not fit on the form**

**32. Additional remarks, continued**

TO RIG DOWN SDFN

05/28/16 COST UPDATE

07/21/16 RU & TEST LINES TO 7225 PSI, ACID TALKS GETTING RE-FILED FOR STAGE FRAC TO START, ALL PARTIES RIGGED UP

07/22-08/17/16 START (ROCK PILE) LOWER BLINEBRY (STAGE FRAC 1-15)

TOTAL SAND #2,835,080

TOTAL ACID 2682 BBL

08/17/16 RDMOL W/WIRELINE & ALL FRAC EQUIPMENT, MOVE IN BASIC RIG, WODL

08/18/16 MIRU WOR - COMMENCE D.O. OPS - DRILLED OUT CAP PLUG, SET PIPE RACKS, TEST BOP, MUELLER HEAD & LINES TO MAINIFOLD

08/19-21/16 DRILL OUT FRAC PLUGS

08/22/16 ALL PIPE OUT OF HOLE COMPLETION OPPS START PRODUCTION OPPS.

08/23/16 RIH W GE PUMP & DESANDER

08/24/16 RD & MOVE OUT GE & ELECTRICIANS WORKING ON BOXES & PANELS

09/01/16 SET SURFACE, RUN ELECTRICAL, PLUMP INTO BATTERY , FINAL REPORT

**SEP 19 2016**

Form 3160-4  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**RECEIVED**

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

|  |                 |
|--|-----------------|
| 5. Lease Serial No.<br>NMLC029435B                                       |                 |
| 6. If Indian, Allottee or Tribe Name                                     |                 |
| 7. Unit or CA Agreement Name and No.<br>NMNM134086                       |                 |
| 8. Lease Name and Well No.<br>CEDAR LAKE FEDERAL CA 812H                 |                 |
| 9. API Well No.<br>30-015-40468  |                 |
| 10. Field and Pool, or Exploratory<br>CEDAR LAKE: GLORIETA YESO          |                 |
| 11. Sec., T., R., M., or Block and Survey<br>or Area Sec 8 T17S R31E Mer |                 |
| 12. County or Parish<br>EDDY COUNTY                                      | 13. State<br>NM |
| 17. Elevations (DF, KB, RT, GL)*<br>3727 GL                              |                 |

|  |                                     |   |
|--|-------------------------------------|---|
| 1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other  |                                     |   |
| b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr.<br>Other _____  |                                     |   |
| 2. Name of Operator<br>APACHE CORPORATION  |                                     |   |
| Contact: EMILY FOLLIS<br>E-Mail: Emily.Follis@apachecorp.com   |                                     |   |
| 3. Address 303 VETERANS AIRPARK LANE SUITE 1000<br>MIDLAND, TX 79705   |                                     | 3a. Phone No. (include area code)<br>Ph: 432-818-1801   |
| 4. Location of Well (Report location clearly and in accordance with Federal requirements)*<br>At surface SWNW 2088FNL 220FWL<br>Sec 8 T17S R31E Mer<br>At top prod interval reported below SWNW 2077FNL 330FWL<br>Sec 7 T17S R31E Mer<br>At total depth SWNW Lot 2 2077FNL 330FWL<br>Sec 7 T17S R31E Mer |                                     |   |
| 14. Date Spudded<br>12/03/2012   | 15. Date T.D. Reached<br>02/20/2013 | 16. Date Completed<br><input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. |

|  |                                     |  |
|--|-------------------------------------|--|
| 18. Total Depth: MD<br>TVD 10573<br>5837   | 19. Plug Back T.D.: MD<br>TVD 10568 | 20. Depth Bridge Plug Set: MD<br>TVD   |
| 21. Type Electric & Other Mechanical Logs Run (Submit copy of each)<br>CBL-RB-GR-CCL |                                     | 22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)<br>Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)<br>Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit analysis) |

23. Casing and Liner Record (Report all strings set in well)

| Hole Size | Size/Grade | Wt. (#/ft.) | Top (MD) | Bottom (MD) | Stage Cementer Depth | No. of Sk. & Type of Cement | Slurry Vol. (BBL) | Cement Top* | Amount Pulled |
|-----------|------------|-------------|----------|-------------|----------------------|-----------------------------|-------------------|-------------|---------------|
| 17.500    | 13.375 H40 | 48.0        |          | 492         |                      | 775                         |                   |             |               |
| 12.250    | 9.625 J55  | 36.0        |          | 3528        |                      | 1680                        |                   |             |               |
| 8.750     | 7.000 J55  | 26.0        |          | 5432        |                      | 745                         |                   |             |               |
| 8.750     | 4.500 L80  | 13.5        | 5338     | 10573       |                      | 450                         |                   |             |               |

24. Tubing Record

| Size  | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) |
|-------|----------------|-------------------|------|----------------|-------------------|------|----------------|-------------------|
| 2.875 | 5612           |                   |      |                |                   |      |                |                   |

25. Producing Intervals

26. Perforation Record

| Formation   | Top  | Bottom | Perforated Interval | Size | No. Holes | Perf. Status        |
|-------------|------|--------|---------------------|------|-----------|---------------------|
| A) BLINEBRY | 5337 | 10573  | 6050 TO 10475       |      |           | OPEN HOLE PRODUCING |
| B)          |      |        |                     |      |           |                     |
| C)          |      |        |                     |      |           |                     |
| D)          |      |        |                     |      |           |                     |

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

| Depth Interval | Amount and Type of Material                 |
|----------------|---|
| 6050 TO 10475  | TOTAL SAND #2,835,080 , TOTAL ACID 2682 BBL |
|                |   |
|                |   |

28. Production - Interval A

| Date First Produced | Test Date            | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method         |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|---------------------------|
| 08/25/2016          | 08/30/2016           | 24           | →               | 195.0   | 320.0   | 1210.0    | 37.0                  |             | ELECTRIC PUMP SUB-SURFACE |
| Choke Size          | Tbg. Press. Flwg. SI | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio         | Well Status |                           |
|                     |                      |              | →               |         |         |           | 1641                  | POW         |                           |

28a. Production - Interval B

| Date First Produced | Test Date            | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|
|                     |                      |              | →               |         |         |           |                       |             |
| Choke Size          | Tbg. Press. Flwg. SI | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio         | Well Status |
|                     |                      |              | →               |         |         |           |                       |             |

Pending BLM approvals will subsequently be reviewed and scanned

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #351188 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

## 28b. Production - Interval C

| Date First Produced | Test Date            | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
|                     |                      |              | →               |         |         |           |                       |             |                   |
| Choke Size          | Tbg. Press. Flwg. SI | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio         | Well Status |                   |
|                     |                      |              | →               |         |         |           |                       |             |                   |

## 28c. Production - Interval D

| Date First Produced | Test Date            | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
|                     |                      |              | →               |         |         |           |                       |             |                   |
| Choke Size          | Tbg. Press. Flwg. SI | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio         | Well Status |                   |
|                     |                      |              | →               |         |         |           |                       |             |                   |

29. Disposition of Gas(Sold, used for fuel, vented, etc.)  
SOLD

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

| Formation    | Top  | Bottom | Descriptions, Contents, etc. | Name         | Top<br>Meas. Depth |
|--------------|------|--------|------------------------------|--------------|--------------------|
| RUSTLER      | 389  | 465    | ANHYDRITE, DOLOMITE W        | RUSTLER      | 389                |
| SALADO       | 465  | 1367   | ANHYDRITE, DOLOMITE W        | SALADO       | 465                |
| TANSIL       | 1367 | 1525   | ANHYD, SALT, DOLO, SS O/G/W  | TANSIL       | 1367               |
| YATES        | 1525 | 1799   | SANDSTONE O/G/W              | YATES        | 1525               |
| SEVEN RIVERS | 1799 | 2413   | SS, DOLO, LIMESTONE O/G/W    | SEVEN RIVERS | 1799               |
| QUEEN        | 2413 | 2821   | SS, DOLO, LIMESTONE O/G/W    | QUEEN        | 2413               |
| GRAYBURG     | 2821 | 3136   | DOLO, LIMESTONE, SS O/G/W    | GRAYBURG     | 2821               |
| SAN ANDRES   | 3136 | 4641   | DOLO, LIMESTONE, SS O/G/W    | SAN ANDRES   | 3136               |

## 32. Additional remarks (include plugging procedure):

GLORIETA 4641-4712 SANDSTONE O/G/W  
PADDOCK 4712-5337 DOLOMITE O/G/W  
BLINEBRY 5337 - TD(10,573') DOLOMITE O/G/W

## 33. Circle enclosed attachments:

- |   |                    |               |                       |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.)     | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis   | 7. Other:     |                       |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #351188 Verified by the BLM Well Information System.  
For APACHE CORPORATION, sent to the Carlsbad

Name (please print) EMILY FOLLIS

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 09/14/2016

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***