

| | | | | | |
|--------------------|----------|---------------------|----------------------|---------------------|---------------------------|
| DATE IN 4/17/08 | SUSPENSE | ENGINEER W Jones | LOGGED IN 4/17/08 | DHC TYPE 4033 | APP NO. PKURO810854100 |
|--------------------|----------|---------------------|----------------------|---------------------|---------------------------|

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]**
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
 [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD
- Check One Only for [B] or [C]
 [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR
- [D] Other: Specify _____
- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply
 [A] 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
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.

| | | | |
|--------------------|-----------|-------------------------------|----------|
| Kanicia Carrillo | | Regulatory Analyst | 04/09/08 |
| Print or Type Name | Signature | Title | Date |
| | | kcarrillo@conchoresources.com | |
| | | e-mail Address | |

RECEIVED
 2008 APR 17 PM 3 03

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised June 10, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | | |
|--|--|--|---|
| ¹ API Number 30-015-35124 | | ² Pool Code 28509 | ³ Pool Name Grayburg Jackson SR; Queen Grayburg SA |
| ⁴ Property Code 302440 | ⁵ Property Name Harvard Federal | | ⁶ Well Number 6 |
| ⁷ OGRID No. 229137 | ⁸ Operator Name COG OPERATING LLC | | ⁹ Elevation 3744 |

¹⁰ Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| E | 12 | 17S | 30E | | 2310 | North | 330 | West | Eddy |

¹¹ Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|--|-------------------------------|----------------------------------|-------|-------------------------|---------------|------------------|---------------|----------------|--------|
| | | | | | | | | | |
| ¹² Dedicated Acres 40 | ¹³ Joint or Infill | ¹⁴ Consolidation Code | | ¹⁵ Order No. | | | | | |

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

| | |
|--|--|
| | <p>¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i></p> <p>Signature </p> <p>Printed Name Kanicia Carrillo</p> <p>Title and E-mail Address Regulatory Analyst</p> <p>Date 04/09/08</p> |
| | <p>¹⁸ SURVEYOR CERTIFICATION <i>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.</i></p> <p>Referred Original Plat</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p> |
| | <p>Certificate Number</p> |
| | |

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AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | | | | |
|---|--|---|--|---|--------------------------------|
| ¹ API Number 30-015-35124 | | ² Pool Code 96718 | | ³ Pool Name Loco Hills; Glorieta-Yeso | |
| ⁴ Property Code 302440 | | ⁵ Property Name Harvard Federal | | | ⁶ Well Number 6 |
| ⁷ OGRID No. 229137 | | ⁸ Operator Name COG OPERATING LLC | | | ⁹ Elevation 3744 |

¹⁰ Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| E | 12 | 17S | 30E | | 2310 | North | 330 | West | Eddy |

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|-------------------------------------|---------|-------------------------------|-------|----------------------------------|---------------|-------------------------|---------------|----------------|--------|
| | | | | | | | | | |
| ¹² Dedicated Acres 40 | | ¹³ Joint or Infill | | ¹⁴ Consolidation Code | | ¹⁵ Order No. | | | |

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

| | |
|--|--|
| | <p>¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i></p> <p>Signature: </p> <p>Printed Name: Kanicia Carrillo</p> <p>Title and E-mail Address: Regulatory Analyst</p> <p>Date: 04/09/08</p> |
| | <p>¹⁸ SURVEYOR CERTIFICATION <i>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.</i></p> <p>Referred Original Plat</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p> |
| | <p>Certificate Number</p> |

District I
1625 N. French Drive, Hobbs, NM 88240

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107A
Revised June 10, 2003

District II
1301 W. Grand Avenue, Artesia, NM 88210

Oil Conservation Division

APPLICATION TYPE

District III
1000 Rio Brazos Road, Aztec, NM 87410

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

____ Single Well
____ Establish Pre-Approved Pools
EXISTING WELLBORE
 Yes ____ No

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

APPLICATION FOR DOWNHOLE COMMINGLING

DAC-4033

COG OPERATING LLC 550 W. Texas, Suite 550 Midland, TX 79701
Operator Address

Harvard Federal 6 Unit E, Sec 12, T-17S, R-30E Eddy
Lease Well No. Unit Letter-Section-Township-Range County

OGRID No. 229137 Property Code 302440 API No. 30-015-35124 Lease Type: Federal ____ State ____ Fee

| DATA ELEMENT | UPPER ZONE <u>J UDES</u> | INTERMEDIATE ZONE <input checked="" type="checkbox"/> | LOWER ZONE |
|--|---|---|-----------------|
| Pool Name | Grayburg Jackson SR; Queen Grayburg SA (Oil) | Loco Hills; Glorieta-Yeso (Oil) | |
| Pool Code | 28509 | 96718 | |
| Top and Bottom of Pay Section (Perforated or Open-Hole Interval) | 2725 - 4200 | 4682 - 5912 | |
| Method of Production (Flowing or Artificial Lift) | | Pump | |
| Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone) | | | |
| Oil Gravity or Gas BTU (Degree API or Gas BTU) | | | |
| Producing, Shut-In or New Zone | New Zone | Producing | |
| Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.) | Date: Rates: | Date: 04/5/08 Oil/ Gas /Water Rates: 11/ 24/ 18 | Date: Rates: |
| Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.) | Oil Gas Percentages to be determined after completion. | Oil Gas Percentages to be determined after completion. | Oil Gas % % |

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes No ____
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes ____ No ____

Are all produced fluids from all commingled zones compatible with each other? Yes No ____

Will commingling decrease the value of production? Yes ____ No

If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application? Yes ____ No

NMOCD Reference Case No. applicable to this well: _____

- Attachments:
- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
 - Production curve for each zone for at least one year. (If not available, attach explanation.)
 - For zones with no production history, estimated production rates and supporting data.
 - Data to support allocation method or formula.
 - Notification list of working, royalty and overriding royalty interests for uncommon interest cases.
 - Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

- List of other orders approving downhole commingling within the proposed Pre-Approved Pools
- List of all operators within the proposed Pre-Approved Pools
- Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
- Bottomhole pressure data.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Kanicia Carrillo TITLE Regulatory Analyst DATE 04/11/08
TYPE OR PRINT NAME Kanicia Carrillo TELEPHONE NO. (432) 685-4332
E-MAIL ADDRESS kcarrillo@conchoresources.com

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

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.

5. Lease Serial No.
LC - 029338B

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
Harvard Federal #6

9. API Well No.
30-015-35124

10. Field and Pool, or Exploratory Area
Loco Hills;Glorieta-Yeso 96718

11. County or Parish, State
Eddy County, NM

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator **COG Operating LLC**

3a. Address
550 W. Texas Ave., Suite 1300 Midland, TX 79701

3b. Phone No. (include area code)
432-685-4332

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Unit E, 2310 FNL & 330 FWL, Section 12, T17S, R30E

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

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|--|---|---|--|--|
| <input checked="" 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 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 Recomplete to |
| | <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | GB/SA & |
| | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | commingle w/ Yeso |

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 recomplete 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 recompletion 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.)

COG Operating LLC proposes to recomplete to the GB/SA as follows:

MIRU pulling unit. POOH w/ rods and stand all rods back. NU BOP. POOH w/tbg. Set RBP and RIH on tbg. Set RBP at +/-3800'. POOH w/ tbg. MIRU WLU. RIH and perforate Grayburg and San Andres zones. RDMO WLU. MIRU frac crew. Frac GB/SA perms with 100,000# of sand in 22# cross link gel. RDMO Frac crew. RIH w/ tbg and circ well clean to top of RBP. Latch onto RBP and POOH. RIH w/ same tbg configuration as previously in well. ND BOP. RIH w/ same rod string and pump configuration as previously in well. Hang well on beam. RDMO pulling unit.

COG proposes to down hole commingle the Grayburg Jackson SR Queen Grayburg SA, (28509) with the Loco Hills; Glorieta-Yeso, (96718).

Commingling will not reduce the value of the total remaining production.
The proposed intervals are as follows:
Grayburg Jackson SR Queen Grayburg SA 2725' - 4200'
Loco Hills; Glorieta-Yeso 4682' - 5912'
Percentages to be determined after completion.
Ownership in all zones is the same.

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed) **Kancia Carrillo** Title **Regulatory Analyst**

Signature  Date **04/11/2008**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____ Title _____ Date _____

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 _____

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.