

**STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION COMMISSION**

**IN THE MATTER OF THE HEARING CALLED
BY THE OIL CONSERVATION DIVISION FOR
THE PURPOSE OF CONSIDERING:**

**Case No. 14558
Order No. R-7900-C
De Novo**

**APPLICATION OF MARBOB ENERGY CORPORATION
(NOW COG OPERATING LLC) FOR VERTICAL
EXPANSION OF THE BURCH-KEELY UNIT,
EDDY COUNTY, NEW MEXICO**

**IN THE MATTER OF THE HEARING CALLED
BY THE OIL CONSERVATION DIVISION FOR
THE PURPOSE OF CONSIDERING:**

**Case No. 14577
Order No. R-10,067-B
DeNovo**

**APPLICATION OF COG OPERATING, LLC FOR
VERTICAL EXPANSION OF THE GRAYBURG-
JACKSON (SEVEN RIVERS-QUEEN-GRAYBURG-
SAN ANDRES) POOL TO CORRESPOND WITH
THE UNITIZED FORMATION OF THE BURCH
KEELY UNIT, EDDY COUNTY, NEW MEXICO**

COG EXHIBIT NOTEBOOK

Exhibits

For OCC Hearing for Expansion of Burch Keely (BK) Unit and Grayburg Jackson (GJ) Pool

Number

Exhibit 1	Applications for Expansion
Exhibit 2	OCD Orders for Expansion
Exhibit 3	Surface map of BK Unit
Exhibit 4	Acquisition of Marbob assets
Exhibit 5	Marbob purchase from Phillips
Exhibit 6	BK Unit Orders
Exhibit 7	BK Unit Agreement
Exhibit 8	BLM approval in 1994 to expand the BK Unit 500 feet into the Paddock
Exhibit 9	BLM approvals of current expansion of the BK Unit
Exhibit 10	OCD Nomenclature Orders extending the Grayburg Jackson pool 500 feet into the Paddock within the BK Unit area
Exhibit 11	OCC Pool Orders
Exhibit 12	Marbob/Concho notice package
Exhibit 13	Attorney Affidavit regarding notice in BK Unit case
Exhibit 14	Attorney Affidavits in GJ Pool case only
Exhibit 15	Type Log Yeso Shelf Area
Exhibit 16	Heterogeneous Reservoir
Exhibit 17	Structure Map with wells
Exhibit 18	Cross-section from west to east
Exhibit 19	Cross-section with proposed buffer
Exhibit 20	BK Unit Expansion Development Plans
Exhibit 21	BK Unit Expansion Economics

**STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
OIL CONSERVATION DIVISION**

**IN THE MATTER OF THE APPLICATION
OF MARBOB ENERGY CORPORATION TO VERTICALLY
EXPAND THE BURCH KEELY UNIT,
EDDY COUNTY, NEW MEXICO.**

CASE NO. 14558

APPLICATION

MARBOB ENERGY CORPORATION, ("Marbob") as successor to be of COG Operating, LLC through its undersigned attorneys, hereby makes application to the Oil Conservation Division for an order amending Order No. R-7900-A to vertically expand the the unitized formation in the Burch Keely Unit. In support of its application, Marbob states:

1. Marbob is the operator of the Burch-Keely Unit, Eddy County, New Mexico which is comprised of 5149.44 acres, more or less, of federal lands which was statutorily unitized pursuant to Oil Conservation Division Order No. R-7900-A dated October 28, 1993. The Unit boundaries include the following acreage:

TOWNSHIP 17 SOUTH, RANGE 29 EAST, NMPM

Section 12: SE/4 SE/4
Section 13: All
Section 23 through 26: All

TOWNSHIP 17 SOUTH, RANGE 30 EAST, NMPM

Sections 18 and 19: All
Section 30: All

2. The "Unitized Formation" in the Burch Keely Unit comprises the interval from the top of the Seven Rivers formation to the base of the San Andres formation or to a true vertical depth of 5000 feet, whichever is lesser.

3. In Order No. R-10067 dated February 22, 1994, the Division granted Marbob's application to abolish the Grayburg-Paddock Pool and to extend the vertical limits of the Grayburg-Jackson Pool to include the Glorieta Yeso (Paddock) formation under the Unit Area. The vertical limits of the Grayburg-Jackson-Paddock Pool was amended to include that interval from the top of the Seven Rivers formation to 500 feet below the top of the Paddock formation.

4. Marbob seeks to extend the vertical limits of the Unitized Formation to 5000 feet.

5. A vertical expansion to the proposed depth of 5000 feet will allow the efficient recovery of all movable hydrocarbons within the full oil column present in the Paddock and the upper Blinbry formations.

6. Exhibit A is a list of parties that were notified of this hearing in accordance with Division rules.

7. Approval of this application will afford Marbob the opportunity to produce its just and equitable share of the remaining reserves in the Burch Keely Unit Area and will otherwise be in the best interest of conservation, the protection of correlative rights and the prevention of waste.

WHEREFORE, Marbob Energy Corporation, as successor to be of COG Operating LLC requests that this application be set for hearing before an Examiner of

the Oil Conservation Division on October 14, 2010 and, after notice and hearing as required by law, the Division enter its order granting this application.

Respectfully submitted,
HOLLAND & HART LLP

By: Ocean Munds-Dry
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ATTORNEYS FOR MARBOB ENERGY
CORPORATION

EXHIBIT A

**APPLICATION OF
MARBOB RESOURCES, INC.
TO EXPAND THE VERTICAL LIMITS OF THE BURCH KEELY UNIT
EDDY COUNTY, NEW MEXICO.**

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Leo Vernon Mock Family Trust
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Palos Verdes Estates, CA 90274

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Dorothy Rountree Smith
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Offsets:

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Midland, Texas 79702

Pioneer Natural Resources USA Inc.
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Midland, Texas 79702

CBS Operating Corporation
PO Box 2236
Midland, Texas 79702

Burnett Oil Co. Inc.
801 Cherry St. Unit 9
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Southern Bay Energy LLC
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Houston, Texas 77090

Southwest Royalties, Inc.
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ConocoPhillips Co.
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Midland, Texas 79702

Hunt Oil Co.
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Denver, CO 80201

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Carlsbad, NM 88220

John. R. Gray, LLC
PO Box 1182
Artesia, NM 88211-1182

CASE 14558:

Application of Marbob Energy Corporation for vertical expansion of the Burch Keely Unit, Eddy County, New Mexico. Applicant in the above-styled cause seeks an order amending Order No. R-7900-A to extend the vertical limits in the Burch Keely Unit to expand the Unitized Formation to 5000 feet. The Unit Area consists of lands in Sections 12, 13, 23 through 26 in Township 17 South, Range 29 East and Sections 18, 19 and 30 in Township 17 South, Range 30 East, NMPM, Eddy County, New Mexico. Said area is located approximately 2 miles west of Loco Hills, New Mexico.

**STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
OIL CONSERVATION DIVISION**

**IN THE MATTER OF THE APPLICATION OF COG
OPERATING LLC FOR VERTICAL EXTENSION OF
THE GRAYBURG-JACKSON (SEVEN RIVERS-
QUEEN-GRAYBURG-SAN ANDRES) POOL TO
CORRESPOND WITH THE UNITIZED FORMATION
OF THE BURCH-KEELY UNIT, EDDY COUNTY,
NEW MEXICO**

CASE NO. 1457

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APPLICATION

Applicant, COG Operating LLC ("COG") through its undersigned attorneys, Montgomery & Andrews, P.A., (J. Scott Hall), requests the New Mexico Oil Conservation Division ("Division") enter an order amending Division Order No. R-10067 to extend the vertical limits of the Grayburg-Jackson (Seven Rivers-Queen-Grayburg-San Andres) Pool (28509) to a depth of 5,000 feet to correspond with the Unitized Formation of the Burch-Keely Unit. In support of its Application, COG states:

1. COG is the operator of the Burch-Keely Unit in Eddy County, New Mexico comprised of 5,149.44 acres, more or less, of federal lands which were statutorily unitized pursuant to Oil Conservation Division Order No. R-7900-A dated October 28, 1993. The Unit boundaries include the following acreage:

TOWNSHIP 17 SOUTH, RANGE 29 EAST, NMPM

Section 12:	SE/4 SE/4
Section 13:	All
Section 23 through 26:	All

TOWNSHIP 17 SOUTH, RANGE 30 EAST, NMPM

Sections 18 and 19:	All
Section 30:	All

2. The Unit Agreement for the Burch-Keely Unit defines the "Unitized Formation" as the interval from the top of the Seven Rivers formation to the base of the San Andres formation or to a true vertical depth of 5,000 feet, whichever is lesser.

3. On February 22, 1994, the Division entered Order No. R-10067 which abolished the Grayburg-Paddock Pool and extended the vertical limits of the Grayburg-Jackson Pool under the Unit Area to include the Glorieta Yeso (Paddock) formation. The vertical limits of the pool were amended to include that interval from the top of the Seven Rivers formation to 500 feet below the top of the Paddock formation. Pursuant to this order, the pool name was changed to the Grayburg-Jackson Paddock Pool, but the pool continues to be described in other records of the Division as the Grayburg-Jackson (Seven Rivers-Queen-Grayburg-San Andres) Pool (28509). The horizontal limits of the pool correspond with the unit area of the Burch-Keely Unit.

4. In a related matter pending before the Division in Case No. 14558, Marbob Energy Corporation applied to extend the vertical limits of the Unitized Formation to 5,000 feet. A hearing on the Application in Case No. 14558 was held on November 28, 2010. Marbob established at the hearing that ownership of the interval within the proposed extension also corresponds with ownership of the Unitized Formation. All of the working interests in the Unit and in the proposed extension are owned by Marbob. COG recently acquired Marbob Energy Corporation's interests in the Unit, as well as in the extended interval, and COG is succeeding Marbob as Unit Operator. COG supported Marbob's Application at the hearing and provided evidence of plans to develop oil reserves within the Blinbry formation down to 5,000 feet.

5. The extended vertical limits of the Unitized Formation proposed in Case No. 14558 do not correspond with the vertical limits of the Grayburg-Jackson (Seven Rivers-Queen-Grayburg-San Andres) Pool as currently defined in Order No. R-10067. As a consequence,

development of Blinebry formation reserves within the proposed vertical extension of the Unitized Formation would potentially result in the inclusion of production from two intervals, one of which is a defined common source of supply, and the other which is presently undesignated.

6. Making the vertical limits of the expanded Unitized Formation and the Grayburg-Jackson (Seven Rivers-Queen-Grayburg-San Andres) Pool uniform will accommodate future unit operations and facilitate administration of the single pool by both the Unit Operator and the Division. The need for the filing and processing of numerous down-hole commingling approvals would be eliminated and the potential for confusion in the reporting of production will be avoided.


7. Working interest and mineral interest ownership in the Unit Area and the proposed extension of the Grayburg-Jackson (Seven Rivers-Queen-Grayburg-San Andres) Pool are identical.

8. Extension of the vertical limits of the Grayburg-Jackson (Seven Rivers-Queen-Grayburg-San Andres) Pool will be in the interests of conservation, the prevention of waste and the protection of correlative rights.

WHEREFORE, COG Operating LLC requests that this Application be set for hearing before one of the Division's examiners on December 16, 2010 and that after notice and hearing, the Division enters its order granting the relief requested above.

Respectfully submitted,

MONTGOMERY & ANDREWS, P. A.

By: 
J. Scott Hall

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Attorneys for COG Operating LLC

00234062

Case 14577 : Application of COG Operating LLC for vertical extension of the Grayburg-Jackson (Seven Rivers-Queen-Grayburg-San Andres) Pool to correspond with the Unitized Formation of the Burch-Keely Unit, Eddy County, New Mexico. Applicant seeks an order amending Division Order No. R-10067 to extend the vertical limits of the Grayburg-Jackson (Seven Rivers-Queen-Grayburg-San Andres) Pool to a depth of 5,000 feet to correspond with the proposed extension of the Unitized Formation of the Burch-Keely Unit. The pool and unit area are comprised of the following lands:

TOWNSHIP 17 SOUTH, RANGE 29 EAST, NMPM

Section 12:	SE/4 SE/4
Section 13:	All
Section 23 through 26:	All

TOWNSHIP 17 SOUTH, RANGE 30 EAST, NMPM

Sections 18 and 19:	All
Section 30:	All

The pool and unit are located approximately 2 miles west of Loco Hills, New Mexico.

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