

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-4  
Form must be typed  
September 2005

APPLICATION FOR COMMINGLING OF  
PRODUCTION (K.A.R. 82-3-123) OR FLUIDS (K.A.R. 82-3-123a)

Commingling ID # CO 050601

Operator Information:

License #: 04782  
Name: Medicine Bow Operating Company  
Address: 1001 Louisiana St., Ste. W2117B  
City/State/Zip: Houston, Texas 77002  
Contact Person: Jamie A. Robinson  
Phone #: 713.420-4634

Well Information:

API #: 15 - 175-21320-01-00  
Lease Name: Liberal Well #: 1-5  
Spot: - SE - NW - NW Sec. 6 Twp. 35 S. R. 33  East  
County: SEWARD  West  
Feet from  North /  South Line of Section: 2043'  
Feet from  East /  West Line of Section: 3705'

1. Name and upper and lower limit of each production interval to be commingled:

Formation: MORROW  
Formation: CHESTER  
Formation: \_\_\_\_\_  
Formation: \_\_\_\_\_  
Formation: \_\_\_\_\_

(Perfs): 7486 - 7866'

(Perfs): 8233 - 8309'

(Perfs): \_\_\_\_\_

(Perfs): \_\_\_\_\_

(Perfs): \_\_\_\_\_

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**MAY 01 2006**  
**CONSERVATION DIVISION**  
**WICHITA, KS**

2. Estimated amount of fluid production to be commingled from each interval:

Formation: MORROW  
Formation: CHESTER  
Formation: \_\_\_\_\_  
Formation: \_\_\_\_\_  
Formation: \_\_\_\_\_

BOPD: 0 MCFPD: 105 BWPD: 0

BOPD: 0 MCFPD: 133 BWPD: 0

BOPD: \_\_\_\_\_ MCFPD: \_\_\_\_\_ BWPD: \_\_\_\_\_

BOPD: \_\_\_\_\_ MCFPD: \_\_\_\_\_ BWPD: \_\_\_\_\_

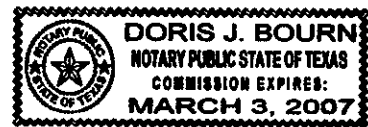
BOPD: \_\_\_\_\_ MCFPD: \_\_\_\_\_ BWPD: \_\_\_\_\_

3. Plat map showing the location of the subject well, all other wells on the subject lease, and all wells on offsetting leases within a 1/2 mile radius of the subject well, and for each well the names and addresses of the lessee of record or operator.

4. Signed certificate showing service of the application as required in K.A.R. 82-3-135a(b).

For Commingling of PRODUCTION ONLY, include the following:

- 5. Wireline log of subject well.
- 6. Complete Form ACO-1 (Well Completion form) for the subject well.



For Commingling of FLUIDS ONLY, include the following:

- 5. Well construction diagram of subject well.
- 6. Any available water chemistry data demonstrating the compatibility of the fluids to be commingled.

State of TEXAS )  
 )  
County of HARRIS )

ss:

VERIFICATION: I hereby certify that to the best of my current information, knowledge and personal belief, this request for commingling is true and proper and I have no information or knowledge, which is inconsistent with the information supplied in this application.

Signature: JAR  
Printed Name: JAMIE A. ROBINSON  
Title: SR. REGULATORY ANALYST  
Subscribed & sworn to before me this 28 day of APRIL, 20 06  
Notary Public: Doris J. Bourn  
My Commission Expires: 3/3/07

**KCC Office Use Only**  
 Denied  Approved  
KCC Date Received: 5-1-06 15-Day Periods Ends: 6-1-06  
Approved By: David P. Williams D.P.W. Date: 6-5-06

Mail with all required attachments and files to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

**PROOF OF PUBLICATION**

**RECEIVED**  
**KANSAS CORPORATION COMMISSION**  
**MAY 23 2006**  
**CONSERVATION DIVISION**  
**WICHITA, KS**

STATE OF KANSAS, SEWARD COUNTY, ss:

Johnna Widener, being first duly sworn,  
deposes and says: That she is the ~~publisher~~ principal clerk of

**THE SOUTHWEST DAILY TIMES**

a daily newspaper printed in the State of Kansas, and published in and of general circulation in Seward County, Kansas, with a general paid circulation on a weekly basis in Seward County, Kansas, and that said newspaper is not a trade, religious or fraternal publication.

Said newspaper is a daily, published at least weekly 50 times a year; has been so published continuously and uninterruptedly in said county and state for a period of more than five years prior to the first publication of said notice; and has been admitted at the post office of Liberal in said County as second class matter.

That the attached notice is a true copy thereof and was published in the regular and entire issue of said newspaper for one time, the publication thereof being

made as aforesaid on the 15<sup>th</sup> day of May, 2006,

Johnna Widener

SUBSCRIBED AND SWORN to before me this 15 day of

May, 2006

Joan Jackson  
Notary Public.

My Commission Expires, 6-1, 2008

Printer's Fee . . . . \$63.70

(Published in the Southwest Daily Times, Liberal, KS on Monday, May 15, 2006) t1  
**BEFORE THE CORPORATION COMMISSION OF THE STATE OF KANSAS  
OIL & GAS CONSERVATION DIVISION**

In the Matter of the Application of Medicine Bow Operating Company for commingling order for its Liberal #1-5 well in the Salley SW field located in Seward County, Kansas

Docket # CO 050601

The State Corporation Commission of the State of Kansas to:

All Oil and Gas Producers, and Oil and Gas Purchasers, Royalty Owners, Landowners, and all other persons, whomsoever concerned.

You and each of you are hereby notified that Medicine Bow Operating Company, 1001 Louisiana St., Suite W2117B, Houston, TX 77002 has filed with the State Corporation Commission of the State of Kansas an Application requesting that the Commission issue an order pursuant to K.A.R. 82-3-123 and 82-3-123a granting the commingling of the Morrow and Chester formations in the Liberal #1-5 well located in the SE/4 NW/4 NW/4 of Section 5-35S-33W, Seward County, KS.

You are further hereby notified that, unless written protest of this application is received by the Kansas Corporation Commission of the State of Kansas, Conservation Division, 130 S. Market St, Room 2078, Wichita, KS, 67202-3802 within fifteen (15) days following publication of this Notice, this Application will be granted without hearing.

All parties interested or concerned shall take notice of the foregoing and govern themselves accordingly.

**JOAN JACKSON**  
Notary Public - State of Kansas  
My Appt. Expires

**AFFIDAVIT**

STATE OF KANSAS \
- SS.
County of Sedgwick /

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KANSAS CORPORATION COMMISSION

MAY 23 2006

CONSERVATION DIVISION
WICHITA, KS

Milt Mounts, of lawful age, being first duly sworn, deposeth and saith: That he is Record Clerk of The Wichita Eagle, a daily newspaper published in the City of Wichita, County of Sedgwick, State of Kansas, and having a general paid circulation on a daily basis in said County, which said newspaper has been continuously and uninterruptedly published in said County for more than one year prior to the first publication of the notice hereinafter mentioned, and which said newspaper has been entered as second class mail matter at the United States Post Office in Wichita, Kansas, and which said newspaper is not a trade, religious or fraternal publication and that a notice of a true copy is hereto attached was published in the regular and entire Morning issue of said The Wichita Eagle for 1 consecutive issue - weeks, that the first publication of said notice was

made as aforesaid on the 16th day of

May A.D. 2006, with

subsequent publications being made on the following dates:

And affiant further says that he has personal knowledge of the statements above set forth and that they are true.

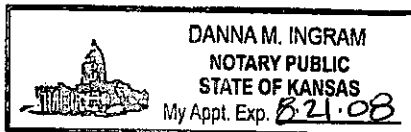
[Handwritten signature]

Subscribed and sworn to before me this

16th day of May, 2006

[Handwritten signature: Danna M. Ingram]

Notary Public Sedgwick County, Kansas



Printer's Fee \$74.00

LEGAL PUBLICATION

Published in The Wichita Eagle
May 16, 2006 (2492905)

BEFORE THE CORPORATION
COMMISSION OF THE STATE OF
KANSAS

OIL & GAS CONSERVATION DIVISION
In the Matter of the Application of Medicine
Bow Operating Company for commingling
order for its Liberal #1-5 well in the Salley SW
field located in Seward County, Kansas

Docket # CO 050601

The State Corporation Commission of the State
of Kansas to:

All Oil and Gas Producers, and Oil and Gas
Purchasers, Royalty Owners, Landowners,
and all other persons, whomsoever concerned.
You and each of you are hereby notified that
Medicine Bow Operating Company, 1001
Louisiana St., Suite W2117B, Houston, TX
77002 has filed with the State Corporation
Commission of the State of Kansas an
Application requesting that the Commission
issue an order pursuant to K.A.R. 82-3-123 and
82-3-123a granting the commingling of the
Morrow and Chester formations in the Liberal
#1-5 well located in the SE/4 NW/4 of
Section 5-35S-33W, Seward County, KS.

You are further hereby notified that, unless
written protest of this application is received by
the Kansas Corporation Commission of the
State of Kansas, Conservation Division, 130 S.
Market St., Room 207B, Wichita, KS, 67202-3802
within fifteen (15) days following publication of
this Notice, this Application will be granted
without hearing.

All parties interested or concerned shall take
notice of the foregoing and govern themselves
accordingly.

April 28, 2006

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KANSAS CORPORATION COMMISSION

**MAY 01 2006**

CONSERVATION DIVISION  
WICHITA, KS

Kansas Corporation Commission  
130 S. Market – Room 2078  
Wichita, Kansas 67202

RE: **Form ACO-4: Application for Commingling of Production**  
**Liberal #1-5**  
**Chester Formation**  
**Morrow Formation**  
**Section 6, T35S, R33W**  
**Seward County, KS**

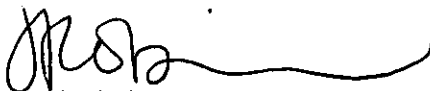
Gentlemen:

Medicine Bow Operating Company, c/o El Paso Production Company, respectfully submits Form ACO-4, Application for Commingling of Production for the subject well. Also attached are the following supporting documents:

- Plat map showing the location of the subject well and all other wells within ½ mile radius (NOTE: Medicine Bow is the only operator located within ½ mile radius);
- Wireline log of subject well;
- Form ACO-1; and
- Current wellbore schematic.

Should you have any questions or require additional information, please do not hesitate to contact me at 713.420.4634.

Yours very truly,



Jamie A. Robinson  
Sr. Regulatory Analyst

/jr  
Enclosures

# LIBERAL 1-5



LEGAL: SE -SE -NE SEC 6 - 35S - 33W Seward County, Kansas  
 Surface loc: 1,990' FNL & 330' FEL API NO: 175-21320-01-00 |  
 Btm Hole Loc: 2043' FNL, 3705' FWL SE SW NE Sec 6-35S-33W

Spud Date: 06/17/93  
 Completion Date: 09/22/93  
 Total Depth: 6656' TVD  
 8399' MD

KB Elevation: 2864'  
 GR Elevation: 2852'  
 BTW: 680'  
 PBD: 7960'

CONDUCTOR CSG: N/A  
 Cmt'd w/ N/A

SURFACE CSG: 8-5/8", 32#, K-55 set @ 1599'  
 Cmt'd w/ 650 SKS to surface.

PRODUCTION CSG: 4-1/2", 11.60#, N-80 set @ 8399'. TOC: 6954'  
 Cmt'd w/ 425 SKS Class H

PRODUCING ZONE: Upper & Lower MORROW

PERFORATED INTERVAL: U. Morrow 7486-94', 7502-18'  
 L. Morrow 7842-56', 7860-66'

PUMPING UNIT SIZE: Flo'g well.  
 SL: SPM:

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**MAY 01 2006**  
**CONSERVATION DIVISION**  
**WICHITA, KS**

TUBING DETAIL: ROD DETAIL:

1 jt 2-3/8" tbg  
 1 ea 4' tbg sub  
 245 jts 2-3/8" tbg  
 1-25/32" SN  
 3' Perf'd Sub

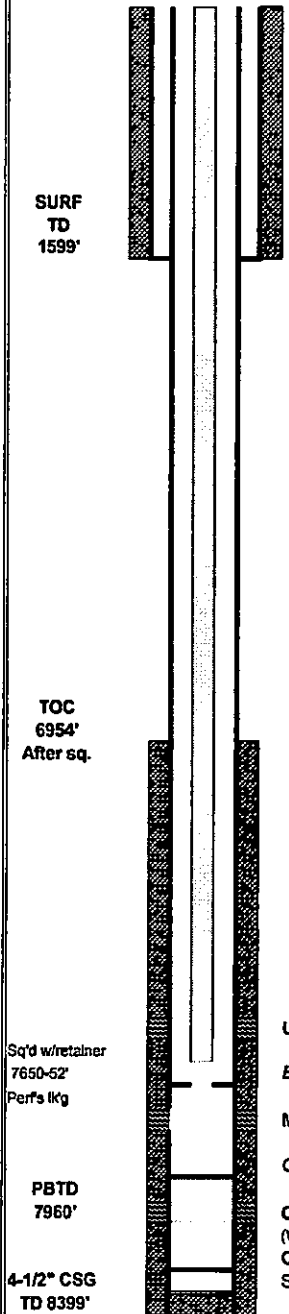
TBG DEPTH: 7800' PUMP DEPTH:

U. Morrow Perfs: 7486-94', 7502-18'  
 Baker Model "D" w/KO plug @ 7806'  
 Morrow Perfs: 7842-56', 7860-66'  
 CIBP @ 7960'

Chester Perfs: 8233-38', 54-61', 76-88' & 8301-09'  
 (Well frac'd. Est rate @ 133 mcf/d covered w/sd. SCP 565 psig. No additional test'g)  
 Cmt retrn @ 8340'  
 Sq perfs @ 8346'

NOTE: Well bore is possibly full of sand. RIH 2/17/06 w/stick line & set dn @ 2950'.  
 Got hung up & work'd loose.  
 Recommend to POOH w/tbg, clean out sd, drill out Model D pkr & CIBP w/air.  
 Commingle zones.

DATE LAST PULLED: 2/17/2006



4-1/2" CSG  
 TD 8399'

# KANSAS

## CORPORATION COMMISSION

KATHLEEN SEBELIUS, GOVERNOR  
BRIAN J. MOLINE, CHAIR  
ROBERT E. KREHBIEL, COMMISSIONER  
MICHAEL C. MOFFET, COMMISSIONER

June 5, 2006

Att: Ms. Jamie A. Robinson  
Medicine Bow Operating Company  
1001 Louisiana St., Ste. W2117B  
Houston, Texas 77002

**RE: Approved Commingling CO 050601**  
**Liberal #1-5, Sec. 6, T.35S, R. 33W, Seward County, Kansas**  
**API No. 15-175-21320-01-00**

Dear Ms. Robinson:

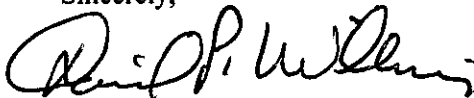
Your "Application for Commingling" (ACO-4) for the above described well has been technically reviewed and approved by the Kansas Corporation Commission (KCC) per **K.A.R. 82-3-123a**. This application, which was received by the KCC on **May 1, 2006** concerns approval to simultaneously produce from the following **two** sources of supply through the same tubing string in the same wellbore: the **Morrow** and the **Chester** formations.

According to your application, the estimated current production from the **Morrow** source of supply is **105 MCFPD** and **0 BWPD**. The estimated current production from the **Chester** source of supply is **133 MCPD** and **0 BWPD**. The total estimated current production from all sources of supply in the subject well is **238 MCFPD** and **0 BWPD**. Included in this application was operator verification that the offset operators had been formally notified of this application and that the notice was published pursuant to K.A.R. 82-3-135 a (d) in both the Southwest Daily Times and the Wichita Eagle newspapers. No protest has been filed within the 15-day protest period.

Based upon the depth of the **Chester** formation perforations, total gas production shall not exceed **50%** of the absolute open flow of the well per state test.

Docket Number **CO 050601** has been assigned to this approved application. Please use this number for well completion reports (ACO-1) and other correspondence that may concern this approved commingling.

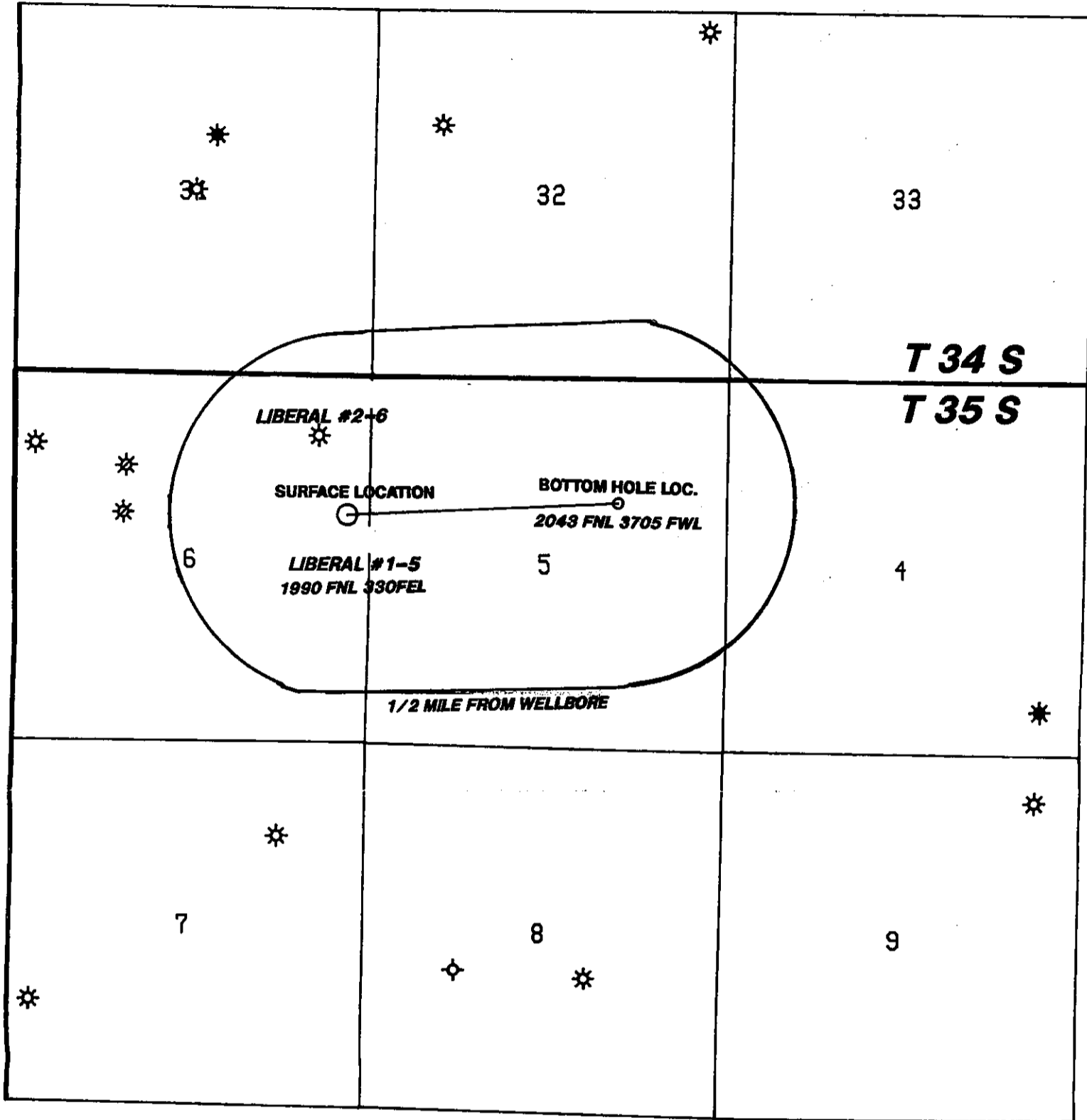
Sincerely,



David P. Williams  
Professional Geologist III/Production Supervisor

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MAY 01 2006  
CONSERVATION DIVISION  
WICHITA, KS



SCALE  
1"=2000'

R 33 W

006-0008 (03/04)

**el paso** Production

El Paso Production  
1001 Louisiana Street Houston, Texas 77002  
PO Box 2511 Houston, Texas 77252.2511

**WELL LOCATION PLAT**

**LIBERAL 1-5**  
**SEWARD CO., KANSAS**