



**APPLICATION FOR COMMINGLING OF PRODUCTION (K.A.R. 82-3-123) OR FLUIDS (K.A.R. 82-3-123a)** *Commingling ID # \_\_\_\_\_*

OPERATOR: License # \_\_\_\_\_ API No. 15 - \_\_\_\_\_  
Name: \_\_\_\_\_ Spot Description: \_\_\_\_\_  
Address 1: \_\_\_\_\_ - - - - - Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
Address 2: \_\_\_\_\_ Feet from  North /  South Line of Section  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_ Feet from  East /  West Line of Section  
Contact Person: \_\_\_\_\_ County: \_\_\_\_\_  
Phone: ( \_\_\_\_\_ ) \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

1. Name and upper and lower limit of each production interval to be commingled:  
Formation: \_\_\_\_\_ (Perfs): \_\_\_\_\_  
Formation: \_\_\_\_\_ (Perfs): \_\_\_\_\_  
Formation: \_\_\_\_\_ (Perfs): \_\_\_\_\_  
Formation: \_\_\_\_\_ (Perfs): \_\_\_\_\_  
Formation: \_\_\_\_\_ (Perfs): \_\_\_\_\_

2. Estimated amount of fluid production to be commingled from each interval:  
Formation: \_\_\_\_\_ BOPD: \_\_\_\_\_ MCFPD: \_\_\_\_\_ BWPD: \_\_\_\_\_  
Formation: \_\_\_\_\_ BOPD: \_\_\_\_\_ MCFPD: \_\_\_\_\_ BWPD: \_\_\_\_\_  
Formation: \_\_\_\_\_ BOPD: \_\_\_\_\_ MCFPD: \_\_\_\_\_ BWPD: \_\_\_\_\_  
Formation: \_\_\_\_\_ BOPD: \_\_\_\_\_ MCFPD: \_\_\_\_\_ BWPD: \_\_\_\_\_  
Formation: \_\_\_\_\_ 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 and affidavit of publication as required in K.A.R. 82-3-135a.

**For Commingling of PRODUCTION ONLY, include the following:**

- 5. Wireline log of subject well. Previously Filed with ACO-1:  Yes  No
- 6. Complete Form ACO-1 (*Well Completion form*) for the subject well.

**For Commingling of FLUIDS ONLY, include the following:**

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

**AFFIDAVIT:** I am the affiant and 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.

**Submitted Electronically**

**KCC Office Use Only**  
 Denied  Approved  
15-Day Periods Ends: \_\_\_\_\_  
Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

*Protests may be filed by any party having a valid interest in the application. Protests must be in writing and comply with K.A.R. 82-3-135b and must be filed within 15 days of publication of the notice of application.*

TOPS MAP 15-09



# Dual Induction Log

DIGITAL LOG 786 825-3353

API No.	Company F.G. HOLL Company LLC			State	Kansas
15-009-25,387-00-00	Well Mauch #1-28				
	Field Jettie West				
	County	Barton	State	Kansas	
	Location	220' W & 80' S of C NW SE 1900' FSL & 2200' FEL		Other Services	CNL / CDL MEL / BHCS
	Sec: 28	Twp: 20 S	Rge: 14 W	Elevation	K.B. 1909 D.F. 1901 G.L. 1901
Permanent Datum	Ground Level	Elevation 1901			
Log Measured From	Kelly Bushing	8 Ft. Above Perm. Datum			
Drilling Measured From	Kelly Bushing				
Date	2/19/2010				
Run Number	One				
Depth Driller	3750				
Depth Logger	3753				
Bottom Logged Interval	3752				
Top Log Interval	00				
Casing Driller	8.625 @ 863				
Casing Logger	857				
Bit Size	7.875				
Type Fluid in Hole	Chemical				
Salinity, ppm CL	8.900				
Density / Viscosity	8.3	50			
pH / Fluid Loss	11.0	8.0			
Source of Sample	Flowline				
Rm @ Meas. Temp	.5	@	66		
Rmf @ Meas. Temp	.38	@	66		
Rmc @ Meas. Temp	.68	@	66		
Source of Rmf / Rmc	Charts				
Rm @ BHT	.29	@	113		
Operating Rig Time	6 Hours				
Max Rec. Temp. F	113				
Equipment Number	17				
Location	Hays				
Recorded By	T. Martin				

3250

-15

3300

-15

3350

-15

3400

-15

3450

-15

3500

-15

Blime 3270

(1367)

Lags 3284

(1375)

A

B

C

D

e

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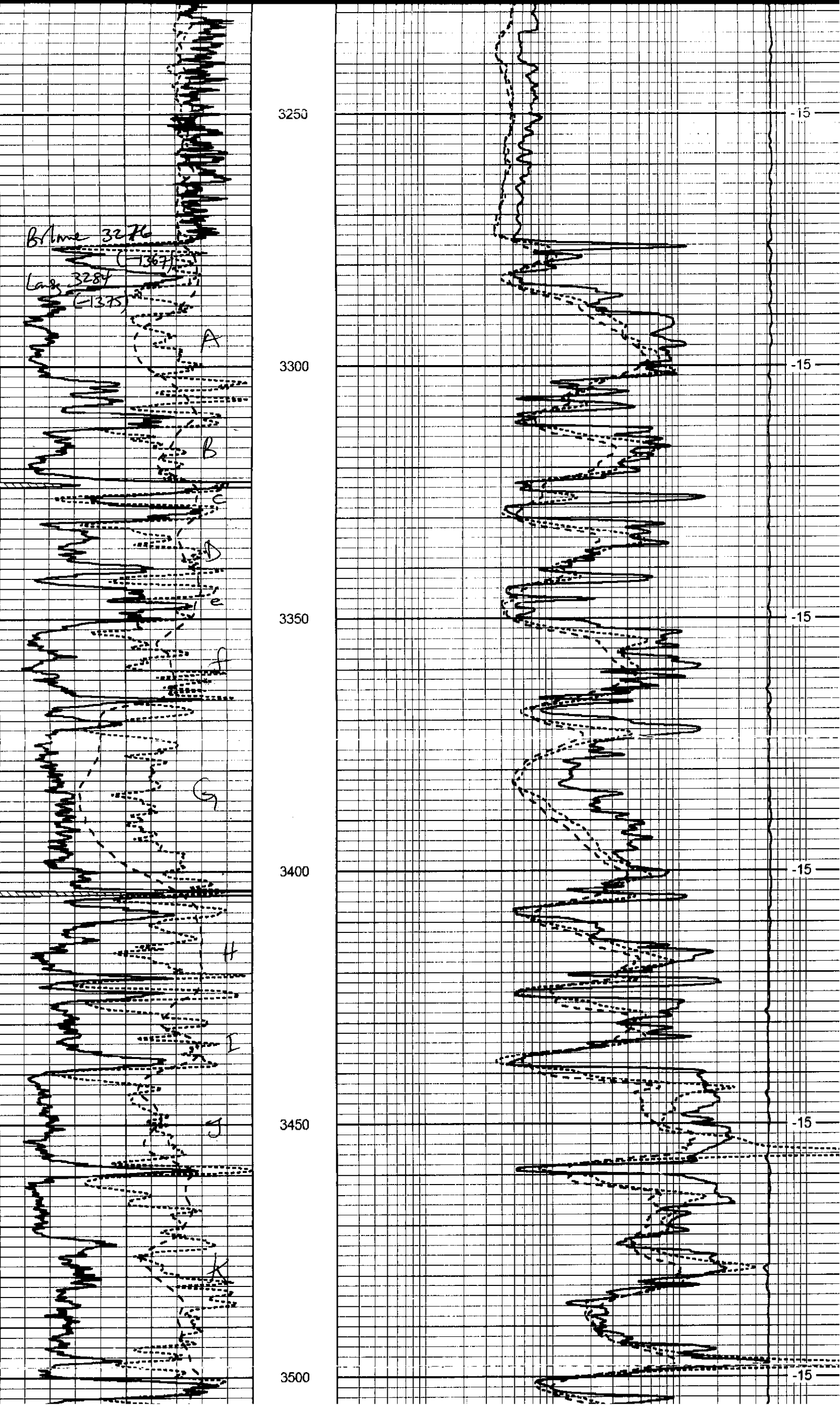
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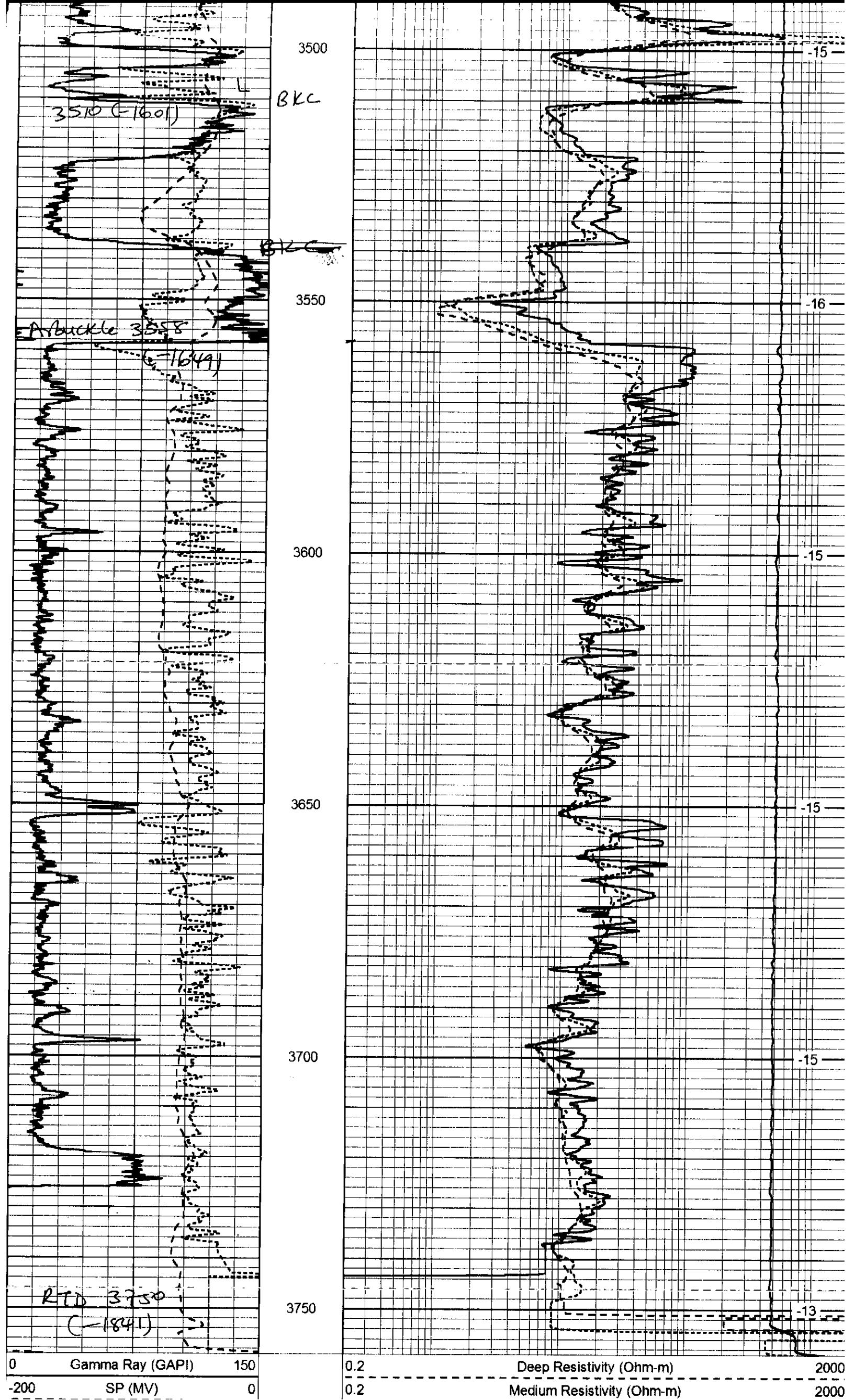
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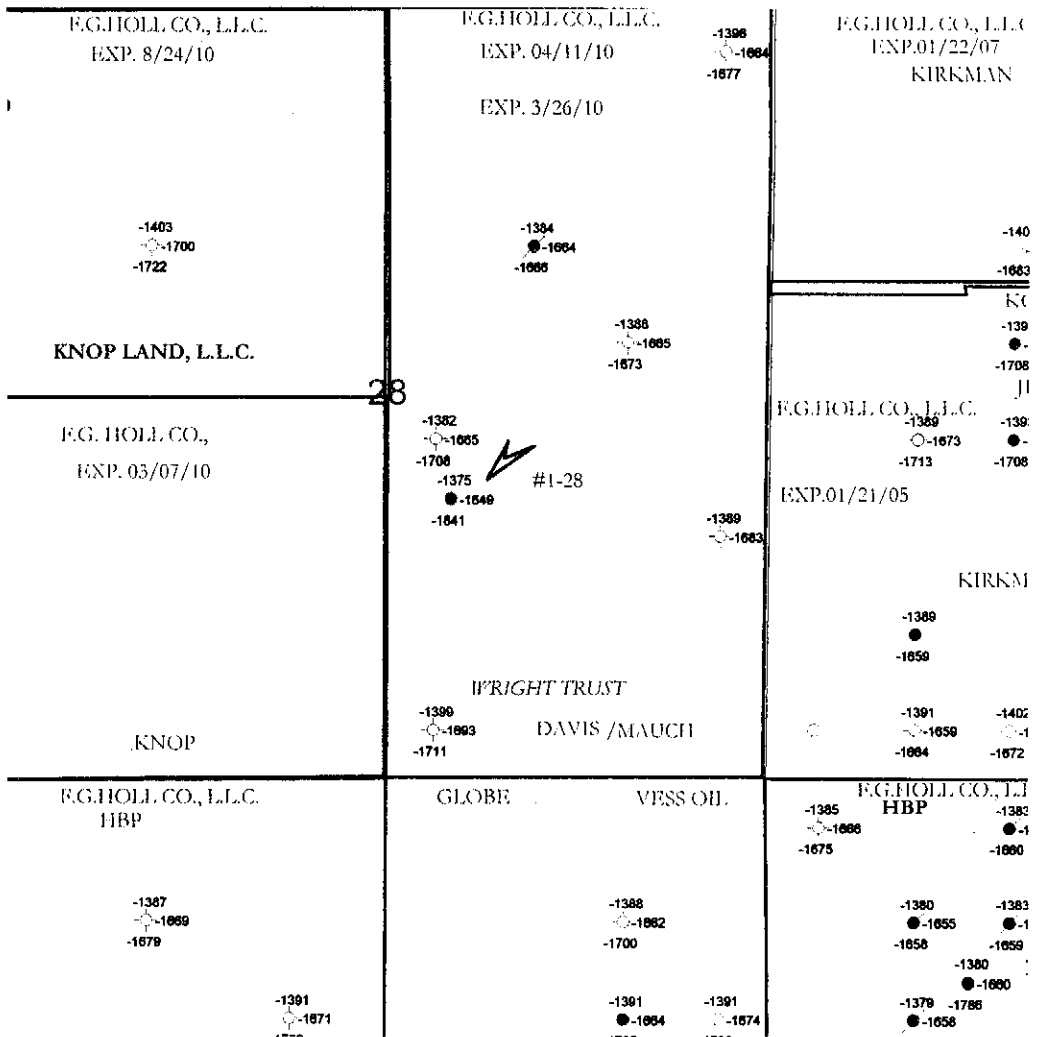
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F.G. HOLL COMPANY, L.L.C.  
 COMMINGLING APPLICATION: LANSING-ARBUCKLE  
 MAUCH NO. 1-28 OIL WELL  
 NW SE Sec. 28-20S-14W; Barton

TOPS LEGEND

06/03/2011

Lansing

○ Arbuckle

RTD

**CONFIDENTIAL**

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # 5056  
Name: F. G. Holl Company L.L.C.  
Address 1: 9431 E CENTRAL STE 100  
Address 2: \_\_\_\_\_  
City: WICHITA State: KS Zip: 67206 2563  
Contact Person: Franklin R. Greenbaum  
Phone: (316) 684-8481  
CONTRACTOR: License # 5929  
Name: Duke Drilling Co., Inc.  
Wellsite Geologist: Rene Hustead  
Purchaser: NCRA

API No. 15 - 15-009-25387-00-02  
Spot Description: 220' W. & 80' S. OF NWSE  
     NW SE Sec. 28 Twp. 20 S. R. 14  East  West  
1900 Feet from  North /  South Line of Section  
2200 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Barton  
Lease Name: MAUCH Well #: 1-28  
Field Name: Jettie West

Producing Formation: Lansing-Kansas City & Arbuckle  
Elevation: Ground: 1903 Kelly Bushing: 1909  
Total Depth: 3750 Plug Back Total Depth: 3730  
Amount of Surface Pipe Set and Cemented at: 863 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from: \_\_\_\_\_  
feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  WSW  SWD  SIOW  
 Gas  D&A  ENHR  SIGW  
 OG  GSW  Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:  
Operator: F.G. Holl Company, L.L.C.

Well Name: MAUCH NO. 1-28

Original Comp. Date: 3/02/2010 Original Total Depth: 3750

Deepening  Re-perf.  Conv. to ENHR  Conv. to SWD  
 Conv. to GSW

Plug Back: \_\_\_\_\_ Plug Back Total Depth

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

ENHR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

5/04/2011 5/09/2011

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

**Drilling Fluid Management Plan**  
(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_

**KCC Office Use ONLY**

Letter of Confidentiality Received  
Date: 06/03/2011

Confidential Release Date: \_\_\_\_\_

Wireline Log Received

Geologist Report Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: F. G. Holl Company L.L.C. Lease Name: MAUCH Well #: 1-28  
 Sec. 28 Twp. 20 S. R. 14  East  West County: Barton

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	0		
Electric Log Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Electric Log Submitted Electronically <i>(If no, Submit Copy)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No			

List All E. Logs Run:

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (in O.D.)	Weight lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing				
___ Plug Back TD	-			
___ Plug Off Zone	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
	Removed CIBP from 3540'		

TUBING RECORD:	Size: <u>2-7/8"</u>	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>5/10/2011</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____		
Estimated Production Per 24 Hours	Oil Bbls. <u>25</u>	Gas Mcf	Water Bbls.	Gas-Oil Ratio 
				Gravity 

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input checked="" type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: <u>3426 - 3562</u>
<input type="checkbox"/> Other <i>(Specify)</i> _____		

*BEFORE THE  
STATE CORPORATION COMMISSION OF THE STATE OF KANSAS:  
NOTICE OF FILING APPLICATION FOR COMMINGLING OF PRODUCTION*

June 3, 2011

**RE: F.G. Holl Company, L.L.C. – Application for order to commingle production from the Lansing-Kansas City & Arbuckle Formations at the Mauch #1-28; Barton County, Kansas.**

TO: All Oil and Gas Producers, Unleased Mineral Interest Owners, Landowners, and all persons whosoever concerned.

You, and each one of you, are hereby notified that F.G. Holl Company, L.L.C. has filed an application to commingle production from the Lansing-Kansas City & Arbuckle Formations at its Mauch #1-28 well, 220' W. & 80' S. of NW SE Sec. 28-20S-14W, Barton County, Kansas.

Any persons who object or protest against this application shall be required to file their concerns with the Conservation Division of the State Corporation Commission of the State of Kansas within 15 days from the date of the publication. These protests shall be filed pursuant to Commission's regulations and must state specific reasons why the grant of the application may cause waste, violate correlative rights or pollute the natural resources of the state of Kansas. If no protests are received, this application may be granted through a summary proceeding. If valid protests are received, this matter will be set for hearing.

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

F.G. Holl Company, L.L.C  
9431 E. Central, Suite 100,  
Wichita, KS. 67206  
(316) 684-8481



(First published in the *Great Bend Tribune* June 7, 2011)11T

BEFORE THE STATE  
CORPORATION COMMISSION  
OF THE STATE OF KANSAS:  
NOTICE OF FILING  
APPLICATION FOR  
COMMINGLING OF  
PRODUCTION

RE: F.G. Holl Company, L.L.C.

-Application for order to  
commingle production from the  
Lansing-Kansas City &  
Arbuckle Formations at the  
Mauch #1-28; Barton County,  
Kansas.

TO: All Oil and Gas Producers,  
Unleased Mineral Interest  
Owners, Landowners, and all  
persons whosever concerned.

You, and each one of you, are  
hereby notified that F.G. Holl  
Company, L.L.C. has filed an  
application to commingle  
production from the Lansing-  
Kansas City & Arbuckle  
Formations at its Mauch #1-28  
well, 220' W. & 80' S. of NW SE  
Sec. 28-20S-14W, Barton County,  
Kansas.

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through a summary proceeding.  
If valid protests are received, this  
matter will be set for hearing.

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

F.G. Holl Company, L.L.C.  
9431 E. Central, Suite 100,  
Wichita, KS. 67206  
(316) 684-8481

## Certificate of Service

F.G. Holl Company, L.L.C.

June 3, 2011

Re: Commingling Application for Mauch #1-28

I hereby certify that F.G. Holl Company, L.L.C. has sent out copies of the commingling application notice to the parties listed below as follows:

<u>Name</u>	<u>Address</u>
Karla R. Kirkman	1909 Lincoln St., Great Bend, KS. 67530
Kodiac Petroleum Inc.	Box 4677, Eaglewood, CO. 80155-04677
Vess Oil Corporation	1700 Waterfront Parkway, Bld 500, Wichita, KS. 67206-5504
Robert R. Hahn Living Tr.	9437 Connell Dr., Overland Park, KS. 66212
Laura H. Cotter Tr.	13017 Canterbury Road, Leawood, KS. 66209
Knopland L.L.C.	Box 505, Ellinwood, KS. 67526

F.G. Holl Company, L.L.C.  
9431 E. Central, Suite 100  
Wichita, KS. 67206  
(316) 684-8481, ext. 216

BEFORE THE STATE  
CORPORATION  
COMMISSION OF THE  
STATE OF KANSAS:  
NOTICE OF FILING  
APPLICATION FOR  
COMMINGLING OF  
PRODUCTION

June 3, 2011

RE: F.G. Holl Company,  
L.L.C. - Application for  
order to commingle  
production from the  
Lansing-Kansas City  
& Arbuckle Formations  
at the Mauch #1-28,  
Barton County,  
Kansas.

TO: All Oil and Gas  
Producers, Unleased  
Mineral Interest Owners,  
Landowners, and all  
persons whose ever  
concerned.

You, and each one of  
you, are hereby notified  
that F.G. Holl  
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filed an application to  
commingle production  
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at its Mauch #1-28  
well, 220' W. & 80' S. of  
NW SE Sec.  
28-20S-14W, Barton  
County, Kansas.

Any persons who object  
or protest against  
this application shall  
be required to file  
their concerns with  
the Conservation Division  
of the State Corporation  
Commission of the State  
of Kansas within 15 days  
from the date of the  
publication. These  
protests shall be filed  
pursuant to Commission's  
regulations and must  
state specific reasons  
why the grant of the  
application may cause  
waste, violate correlative  
rights or pollute the  
natural resources of the  
state of Kansas. If no  
protests are received,  
this application may be  
granted through a  
summary proceeding.

If valid protests are  
received, this matter  
will be set for hearing.  
All persons interested or  
concerned shall take  
notice of the foregoing  
and shall govern  
themselves accordingly.  
F.G. Holl Company,  
L.L.C.

9431 E Central, Suite 100,  
Wichita, KS, 67208  
(316) 684-8481

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June 22, 2011

Loveness Mpanje  
F. G. Holl Company, LLC  
9431 E. Central, Ste 100  
Wichita, KS 67206-2563

RE: Approved Commingling CO061103  
Mauch #1-28, Sec. 28-T20S-R14W, Barton County  
API No. 15-009-25387-00-03

Dear Ms. Mpanje:

Your Application for Commingling (ACO-4) for the above described well has been reviewed and approved by the Kansas Corporation Commission (KCC) per K.A.R. 82-3-123. Notice was examined and found to be proper per K.A.R. 82-3-135a. No protest had been filed within the 15-day protest period. This application, which was received by the KCC on June 13, 2011 concerns approval to simultaneously produce from the following sources of supply through the same tubing string in the same wellbore:

Source of Supply	Estimated Current Production			Perf Depth
	BOPD	MCFPD	BWPD	
Lansing-Kansas City	10	0	0.0	3426-3444
Arbuckle	15	0	0	3558-3562
Total Estimated Current Production	25	0	0	

Based upon the depth of the Arbuckle formation perforations, total oil production shall not exceed 100 BOPD and total gas production shall not exceed 50% of the absolute open flow (AOF).

Commingling ID number CO061103 has been assigned to this approved application. Use this number for well completion reports (ACO-1) and other correspondence that may concern this approved commingling.

Sincerely,

Rick Hestermann  
Production Department