

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

Form ACO-4 Form must be typed March 2009

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

OPERAT	OR: License #	API No. 15				
Name:_		Spot Description:				
Address	1:		Sec Twp	S. R East West		
Address	2:		Feet from No	orth / South Line of Section		
City:	State: Zip:+		Feet from Ea	st / West Line of Section		
	Person:					
Phone:	()	Lease Name:	Well	l #:		
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 e					
	Formation:	BOPD:	MCFPD:	BWPD:		
	Formation:	BOPD:	MCFPD:	BWPD:		
	Formation:	BOPD:	MCFPD:	BWPD:		
	Formation:	BOPD:	MCFPD:	BWPD:		
	Formation:	BOPD:	MCFPD:	BWPD:		
 3. 4.	Plat map showing the location of the subject well, all other well the subject well, and for each well the names and addresses of Signed certificate showing service of the application and affidation	of the lessee of record or opera	ator.	ses within a 1/2 mile radius of		
	nmingling of PRODUCTION ONLY, include the following:					
<u> </u>	Wireline log of subject well. Previously Filed with ACO-1: Yes No					
<u> </u>	Complete Form ACO-1 (Well Completion form) for the subject well.					
For Con	nmingling of FLUIDS ONLY, include the following:					
	Well construction diagram of subject well.					
8.	Any available water chemistry data demonstrating the compati	ne compatibility of the fluids to be commingled.				
current ii mingling	/IT: I am the affiant and hereby certify that to the best of my nformation, knowledge and personal belief, this request for comis true and proper and I have no information or knowledge, which istent with the information supplied in this application.	Suk	omitted Electron	ically		
	C Office Use Only			t in the application. Protests must be a filed wihin 15 days of publication of		

Date: _

Approved By:

15-Day Periods Ends: _



CONFIDENTIAL

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1067790

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 #	API No. 15 - 15-141-20433-00-00
Name: Murfin Drilling Co., Inc.	Spot Description:
Address 1:250 N WATER STE 300	SE NW NE SE Sec. 8 Twp. 8 S. R. 14 ☐ East V West
Address 2:	
City: WICHITA State: KS Zip: 67202 + 1216	900 Feet from √ East /
Contact Person: Leon Rodak	Footages Calculated from Nearest Outside Section Corner:
Phone: (316) 267-3241	□ne □nw ☑se □sw
CONTRACTOR: License #_30606	County: Osborne
Name: Murfin Drilling Co., Inc.	Lease Name: Ruthi Well #: 1-8
Wellsite Geologist: Paul Gunzelman	Field Name: Wildcat
Purchaser:	Producing Formation: Topeka, LKC
Designate Type of Completion:	Elevation: Ground: 1760 Kelly Bushing: 1765
✓ New Well Re-Entry Workover	Total Depth: 3650 Plug Back Total Depth: 3210
	Amount of Surface Pipe Set and Cemented at: 219 Fee
 ✓ Oil	Multiple Stage Cementing Collar Used? ✓ Yes No
Gas GSW Temp. Abd.	If yes, show depth set: Fee
CM (Coal Bed Methane)	If Allowate II appropriate appropriate 1906
Cathodic Other (Core, Expl., etc.):	If Alternate II completion, cement circulated from: 1906 feet depth to: 0 w/ 165 sx cm
If Workover/Re-entry: Old Well Info as follows:	reet depth to: sx cm
Operator:	
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	The special of instances produced and instances and desperiences and considerate and the special and the
Deepening Re-perf. Conv. to ENHR Conv. to SWD	Chloride content: 30000 ppm Fluid volume: 1100 bble
☐ Conv. to GSW	Dewatering method used: Evaporated
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	QuarterSecTwpS. R East Wes
ENHR Permit #:	A state and the state of the st
GSW Permit #:	County: Permit #:

AFFIDAVIT

09/14/2011

Completion Date or

Recompletion Date

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.

Submitted Electronically

08/29/2011

Date Reached TD

08/23/2011

Spud Date or

Recompletion Date

KCC Office Use ONLY
✓ Letter of Confidentiality Received Date:11/15/2011
Confidential Release Date:
Wireline Log Received
✓ Geologist Report Received
UIC Distribution
ALT I I II Approved by: NAOMI JAMES Date: 11/15/2011

Side Two . Well #: <u>1</u>-8 Operator Name: Murfin Drilling Co., Inc. Lease Name: Ruthi ____S. R. 14 ___ East ✓ West County: Osborne 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 Wireline Logs surveyed. Attach final geological well site report. Log Formation (Top), Depth and Datum Drill Stem Tests Taken ✓ Yes No Sample (Attach Additional Sheets) Name Top Datum Samples Sent to Geological Survey √ Yes No See Attachment ✓ No Cores Taken Yes Electric Log Run ✓ Yes Electric Log Submitted Electronically ✓ Yes (If no, Submit Copy) List All E. Logs Run: **Dual Induction** Dual Compensated Microresistivity CASING RECORD ✓ New Used Report all strings set-conductor, surface, intermediate, production, etc. Size Casing Weight Lbs. / Ft. Type of Type and Percent Size Hole Setting # Sacks Purpose of String Depth Set (In O.D.) Surface 12.2500 8.6250 23 219 Common 160 3% cc, 2% gel Production 7.8750 4.5000 10.5 3255 ASC 245 ADDITIONAL CEMENTING / SQUEEZE RECORD Purpose: Depth # Sacks Used Type and Percent Additives Type of Cement Top Bottom Perforate **Protect Casing** Plug Back TD Plug Off Zone PERFORATION RECORD - Bridge Plugs Set/Type Acid. Fracture, Shot. Cement Squeeze Record Shots Per Foot Specify Footage of Each Interval Perforated (Amount and Kind of Material Used) Depth 2717 - 2721 Topeka 250 gal 15% MCA, 750 gal 20% NEFE 4 250 gal 15% MCA, 750 gal 20% NEFE 4 3020 - 3026 LKC "C" Liner Run: TUBING RECORD: Size: Set At: Packer At: Yes ✓ No 2 3/8 3103 NA Date of First, Resumed Production, SWD or ENHR. **Producing Method:** Flowing Gas Lift 10/05/2011 ✓ Pumping Other (Explain) **Estimated Production** Oil Bbls. Mcf Water Bbls. Gas-Oil Ratio Gravity Gas

DISPOSITION OF GAS:		METHOD	OF COMPLETION:		PRODUCTION INTERVAL:
Vented Sold Used on Lease	Open Hole	Perf.	Dually Comp.	Commingled (Submit ACO-4)	27170-3026
(If vented, Submit ACO-18.)	Other (Specify	<i>(</i>)		(4.1)	

7

33

Per 24 Hours

8

Form U-1 July 2006 Affidavit of Notice Served Application for: ACO-4 Application for Commingling of Production Re: Well Name: Ruthi #1-8 SE NW NE SE Sec. 8-8S-14W Legal Location: _ August The undersigned hereby certificates that he / she is a duly authorized agent for the applicant, and that on the day 22nd 2012 , a true and correct copy of the application referenced above was delivered or mailed to the following parties: Note: A copy of this affidavit must be served as a part of the application. Address (Attach additional sheets if necessary) Name I further attest that notice of the filing of this application was published in the Osborne County Farmer , the official county publication Osborne county. A copy of the affidavit of this publication is attached. day of August 2012 22nd Signed this Applicant of Duly Authorized Agent

Protests may be filed by any party having a valid interest in the application. Petitions for protests shall be in writing and shall clearly identify the name and address protestant and the title of the application. The petition shall include a clear and concise statement of the direct and substantial interest of the protestant in the protest and substantial interest of the protestant in the protest upon the applicant by mail or personal service at the same time or before the protestant files the protest with the Conservation Division. Protests must be filed within 15 days of the publication notice of the application.

My Commission Expires

Subscribed and sworn to before me this

Page Three Form U-1 July 2006 Offset Operators, Unleased Mineral Owners and Landowners acreage (Attach additional sheets if necessary) Legal Description of Leasehold: Sec. 8-8S-15W, W/2 Sec.9-8S-15W, Murfin Drilling Co., Inc. 250 N. Water, Suite 300 NW/4 Sec. 16-8S-15W, and NE/4 Sec. 17-8S-15W Wichita, KS 67202 all in Osborne, Co., KS I hereby certify that the statements made herein are true and correct to the best of my knowledge and belief. Applicant or Duly Authorized Agent _{day of} August 22nd Subscribed and sworn before me this Notary Public My Commission Expires: Instructions: Fully complete application, including page 4 (plat map) showing subject well and all known oil, gas and input wells, including wells being drilled, 1. inactive wells, or dry holes, within one-half mile. Show lease names and operators or unleased mineral rights owners of all lands within one-half mile. Show well numbers and elevations of producing formation tops. 2. Attach some type of log (drillers log, electric log, etc.). Attach some type of verification of cementing for surface casing, longstring, D.V. tool, perforations, etc. (Cement ticket and job log, bond log, etc.) 3. Attach Affidavit of Notice. 4. 5. Fill in schematic drawing of subsurface facilities including: size, setting depth, amount of cement, measured or calculated tops of cement for each of surface, intermediate (if any) and production casing; size and setting depth of tubing and packer; geological zone of injection showing top and bottom of injection interval.

Deliver or mail one (1) copy of the application to the landowner on whose land the injection well is located and to each operator or lessee of record 7. and each unleased mineral rights owner within one-half mile of the applicant well.

The original and one copy of the application and all attachments shall be mailed to the State Corporation Commission, Conservation Division.

6.

Approval of this application, if granted, is valid only as long as there are no substantial changes in operation set forth in the application. A substantial 8. change requires the approval of a new application. No injection well may be used without prior written authorization.

STATE OF KANSAS Osborne COUNTY SS.

Affidavit of Publication

Jack Krier, being first duly sworn, deposes and says: That he is publisher of then Osborne County Farmer, a weekly newspaper printed in the State of Kansas, and published in and of general circulation in Osborne County, Kansas, with a general paid circulation on a weekly basis in Osborne County, Kansas, and that said newspaper is not a trade, religious or fraternal publication.

Said newspaper is a weekly published one day a week and has been 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 Osborne, Kansas, in said county as second class matter.

That the attached notice was published in the regul	is a true copy thereof and ar and entire issue of said
newspaper for	consecutive Wllk,
the first publication thereof	being made as aforesaid on
the <u>26</u> day of <u>Ju</u>	ly , 20 12,
with subsequent publication following dates:	ns being made on the
, 20	, 20
, 20	, 20
, 20	, 20
Signed: Jac	La Krien
Subscribed and sworn to	before me this 26
day of July	, 20_\2
My Appt. Expires	planine 76lir by Public's Signature
My commission expires: _	3-25-13
Publication Fee	\$ 31.57
Affidavit, Notary's Fee	\$.50
Additional copies @	
Total Publication Fee	\$ 32.07

(Published Thursday, July 26, 2012 in the Osborne County Farmer)

BEFORE THE STATE COR-PORATION COMMISSION OF THE STATE OF KANSAS

NOTICE OF FILING APPLICATION

RE: Murfin Drilling Co., Inc.- Application for Commingling of Production on the Ruthi #1-8, located in Osborne County, Kansas.

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

You, and each of you, are hereby notified that Murfin Drilling Company, Inc. has filed an application for Commingling of Production from the Topeka and the LKC at the Ruthi #1-8 well located in the SE NW NE SE of Sec. 8-8S-14W, Osborne Co., KS.

Any persons who object to or protest this application shall be required to file their objections or protest with the Conservation Division of the State Corporation Commission of the State of Kansas within fifteen (15) days from the date of this publication. These protests shall be pursuant to Commission 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.

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

Murfin Drilling Company,

250 N. Water, Suite 300 Wichita, KS 67202 316-267-3241 (7-C39-26)

AFFIDAVIT

STATE OF KANSAS

- SS.

County of Sedgwick

Mark Fletchall, 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_ issues - weeks, that the first publication of said notice was

made as aforesaid on the 23rd of

July A.D. 2012, 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.

Fletchall

Subscribed and sworn to before me this

Notary Public Sedgwick County, Kansas

23rd day of July, 2012

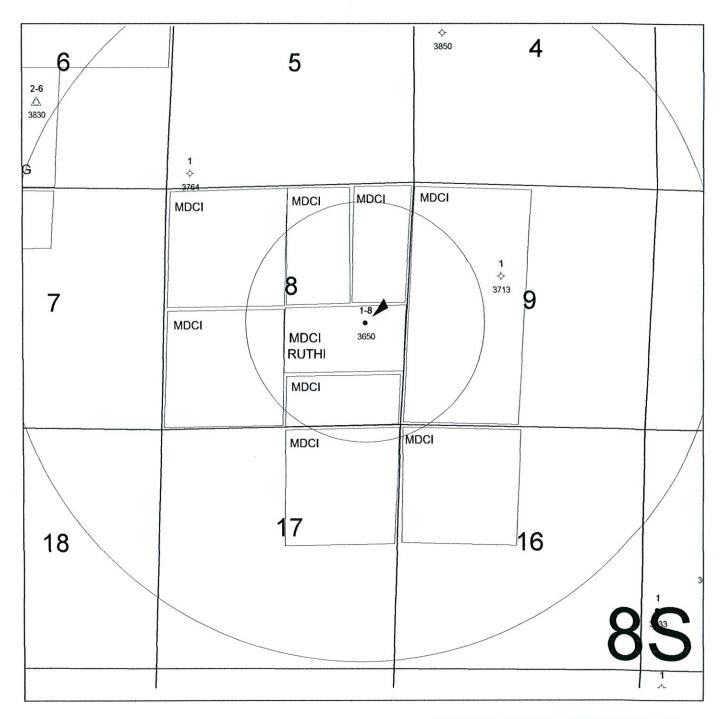
Printers Fee: \$98.80

DEBORAH C. SANDERS NOTARY PUBLIC STATE OF KANSAS My Appt. Exp.

LEGAL PUBLICATION

PUBLISHED IN THE WICHITA EAGLE
JULY 23, 2012 (3197519)
BEFORE THE STATE
CORPORATION COMMISSION
OF THE STATE OF KANSAS
NOTICE OF FILING APPLICATION
RE: Murfin Drilling Co., Inc.. Application for
Commingling of Production on the Ruthi
#1-8, located in Osborne County, Kansas.
TO: All Oil and Gas Producers, Unleased
Mineral Interest Owners, Landowners,
and all persons whomever concerned.
You, and each of you, are hereby notified
that Murfin Drilling Company, Inc. has filed
an application for Commingling of Production
from the Topeka and the LKC at the Ruthi
#1-8 well located in the SE NW NE SE of Sec.
8-85-14W, Osborne Co., KS.
Any persons who object to or protest
this application shall be required to file their
objections or protest with the Conservation
Division of the State Corporation Commission
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natural resources of the State of Kansas.
All persons interested or concerned shall
take notice of the foregoing and shall govern
themselves accordingly. All persons interested or concerned shall take notice of the foregoing and shall govern themselves accordingly.

Murfin Drilling Company, Inc. 250 N. Water, Suite 300 Wichita, KS 67202 316-267-3241



8 S - 15 W



Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Sam Brownback, Governor

Mark Sievers, Chairman Thomas E. Wright, Commissioner

September 6, 2012

Kenneth Dean Murfin Drilling Co., Inc. 250 N Water, Ste 300 Wichita, KS 67202-1216

RE: Approved Commingling CO081220

Ruthi #1 Sec.8-T8S-R14W, Osborne County

API No. 15-141-20433-00-00

Dear Mr. Dean:

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 August 22, 2012, concerns approval to simultaneously produce from the following sources of supply through the same tubing string in the same wellbore:

		Estimated Current Production		
Source of Supply	BOPD	MCFPD	BWPD	Perf Depth
Topeka	0.3	0.0	5.4	2717-2721
LKC	7.7	0.0	1.6	3020-3026
Total Estimated Current Production	8.0	0.0	7.0	

Based upon the depth of the LKC 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 CO081220 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