



**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.*



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

1208227

Form ACO-1  
August 2013

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

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

OPERATOR: License # 30606  
Name: Murfin Drilling Co., Inc.  
Address 1: 250 N WATER STE 300  
Address 2: \_\_\_\_\_  
City: WICHITA State: KS Zip: 67202 + 1216  
Contact Person: Leon Rodak  
Phone: ( 316 ) 267-3241  
CONTRACTOR: License # 30606  
Name: Murfin Drilling Co., Inc.  
Wellsite Geologist: Saman Sharifaie  
Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well  Re-Entry  Workover
- Oil  WSW  SWD  SLOW  
 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: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening  Re-perf.  Conv. to ENHR  Conv. to SWD  
 Plug Back  Conv. to GSW  Conv. to Producer
- Commingled Permit #: \_\_\_\_\_  
 Dual Completion Permit #: \_\_\_\_\_  
 SWD Permit #: \_\_\_\_\_  
 ENHR Permit #: \_\_\_\_\_  
 GSW Permit #: \_\_\_\_\_

<u>02/21/2014</u>	<u>03/02/2014</u>	<u>03/24/2014</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-063-22177-00-00

Spot Description: \_\_\_\_\_

NW NW NW Sec. 31 Twp. 12 S. R. 30  East  West

330 Feet from  North /  South Line of Section

330 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: Gove

Lease Name: Abell Ranch 'B' Well #: 1-31

Field Name: \_\_\_\_\_

Producing Formation: Lans E, Miss

Elevation: Ground: 2896 Kelly Bushing: 2907

Total Vertical Depth: 4625 Plug Back Total Depth: 4588

Amount of Surface Pipe Set and Cemented at: 222 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: 2398 Feet

If Alternate II completion, cement circulated from: 0

feet depth to: 2398 w/ 200 sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: 1300 ppm Fluid volume: 1400 bbls

Dewatering method used: Evaporated

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.

Submitted Electronically

**KCC Office Use ONLY**

- Confidentiality Requested  
Date: 06/17/2014
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: NAOMI JAMES Date: 06/17/2014



1208227

Operator Name: Murfin Drilling Co., Inc. Lease Name: Abell Ranch 'B' Well #: 1-31  
 Sec. 31 Twp. 12 S. R. 30  East  West County: Gove

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name See Attachment	Top Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
List All E. Logs Run:			
<b>Attached</b>			

CASING RECORD <input checked="" 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
Surface	12.2500	8.6250	23	222	Common	175	3% CC
Production	7.8750	5.5000	15.5	4613	EA 2	175	10% nat. 5% cel. 1/4# per cu ft. sea

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*  
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*  
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

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
4	4039-4045 Lans E	250g 15% MCA, 750g 15% NEFE	
4	4543-4555 Miss	300g 20% MCA, 900g 20% SGA, 900g 20% NEFE	

TUBING RECORD:	Size: <u>2.375</u>	Set At: <u>4587</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>03/26/2014</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>44</u>	Gas Mcf	Water Bbls. <u>18</u>	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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: <u>4039-4555</u>
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**Affidavit of Notice Served**

Re: Application for: ACO-4 Application for Commingling of Production of Fluids

Well Name: Abell Ranch B #1-31 Legal Location: NW NW NW Sec. 31-12S-30W

The undersigned hereby certifies that he / she is a duly authorized agent for the applicant, and that on the day 8th of October, 2015, 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.

Name

Address (Attach additional sheets if necessary)


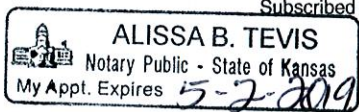
I further attest that notice of the filing of this application was published in the Gove County Advocate, the official county publication of Gove county. A copy of the affidavit of this publication is attached.

Signed this 8th day of October, 2015



Applicant of Duly Authorized Agent

Subscribed and sworn to before me this 8th day of October, 2015

  
Notary Public

My Commission Expires: 5-2-2019

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 of the 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 proceedings, including the manner in which the protestant may be affected, and the nature, extent, character and grounds of the protest. Protestants shall serve 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.

**Offset Operators, Unleased Mineral Owners and Landowners acreage**

(Attach additional sheets if necessary)

Name:

Legal Description of Leasehold:

Murfin Drilling Co., Inc.

Sec. 30, Sec. 31 in 12S-30W

250 N. Water, Suite 300

E/2 Sec. 25, E/2 Sec. 36 in 12S-31W

Wichita, KS 67202

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

Subscribed and sworn before me this 8th day of October, 2015



Notary Public

My Commission Expires: 5-2-2019

**Instructions:**

1. Fully complete application, including page 4 (*plat map*) showing subject well and all known oil, gas and input wells, including wells being drilled, 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.*).
3. Attach some type of verification of cementing for surface casing, longstring, D.V. tool, perforations, etc. (*Cement ticket and job log, bond log, etc.*)
4. Attach Affidavit of Notice.
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.
6. The original and one copy of the application and all attachments shall be mailed to the State Corporation Commission, Conservation Division.
7. 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 and each unleased mineral rights owner within one-half mile of the applicant well.
8. 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 change requires the approval of a new application. **No injection well may be used without prior written authorization.**
9. All application fees must accompany the application.

**AFFIDAVIT OF PUBLICATION**

**State of Kansas,**

**Gove County, ss:**

Roxanne Broeckelman,  
being first duly sworn, deposes and  
says: That she is  
co-publisher of

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

Said newspaper is a weekly  
published at least 50 times a year;  
and 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 in  
Quinter in said county as periodical  
class mail matter.

That the attached notice is a true  
copy thereof and was published in  
the regular and entire issue of said  
newspaper for one  
consecutive week(s), the first  
publication thereof being made as  
aforesaid on the 24th day  
of June, 2015,  
with subsequent publications being  
made on the following dates:

\_\_\_\_\_, \_\_\_\_\_  
\_\_\_\_\_, \_\_\_\_\_  
\_\_\_\_\_, \_\_\_\_\_  
\_\_\_\_\_, \_\_\_\_\_  
\_\_\_\_\_, \_\_\_\_\_  
\_\_\_\_\_, \_\_\_\_\_  
\_\_\_\_\_, \_\_\_\_\_

Printer's Fee ..... \$ 19.25  
Additional Copies ..... \$ \_\_\_\_\_  
Affidavit Fees ..... \$ 2.00  
Total Publication Fees \$ 21.25

*Roxanne Broeckelman*

Subscribed and sworn to before me  
this 24th day of  
June, 2015

*Linda L. Zerr*  
Notary Public

My commission expires:  
January 8, 2017

**LEGAL ADVERTISING**  
(Published in the Gove County Advocate, Quinter,  
KS, Wed., June 24, 2015 - 1f)  
**BEFORE THE STATE CORPORATION  
COMMISSION OF THE STATE OF KANSAS  
NOTICE OF FILING APPLICATION**  
**RE:** Murfin Drilling Co., Inc.- Application for Com-  
mingling of Production on the Abell Ranch B #1-  
31, located in Gove 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 appli-  
cation for Commingling of Production from the  
LKC and the Mississippian at the Abell Ranch B  
#1-31 well located in the NW NW NW of Sec. 31-  
12S-30W, Gove Co., KS.

Any persons who object to or protest this ap-  
plication 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 them-  
selves accordingly.

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

LINDA L. ZERR  
NOTARY PUBLIC  
STATE OF KANSAS  
My Appt. Exp. 1-8-2017

**AFFIDAVIT**

STATE OF KANSAS \
- SS.
County of Sedgwick /

Mark Fletchall, of lawful age, being first duly sworn, depose 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, that the first publication of said notice was

made as aforesaid on the 22<sup>nd</sup> of

June A.D. 2015, 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.

*Mark Fletchall*

Subscribed and sworn to before me this

22<sup>nd</sup> day of June, 2015

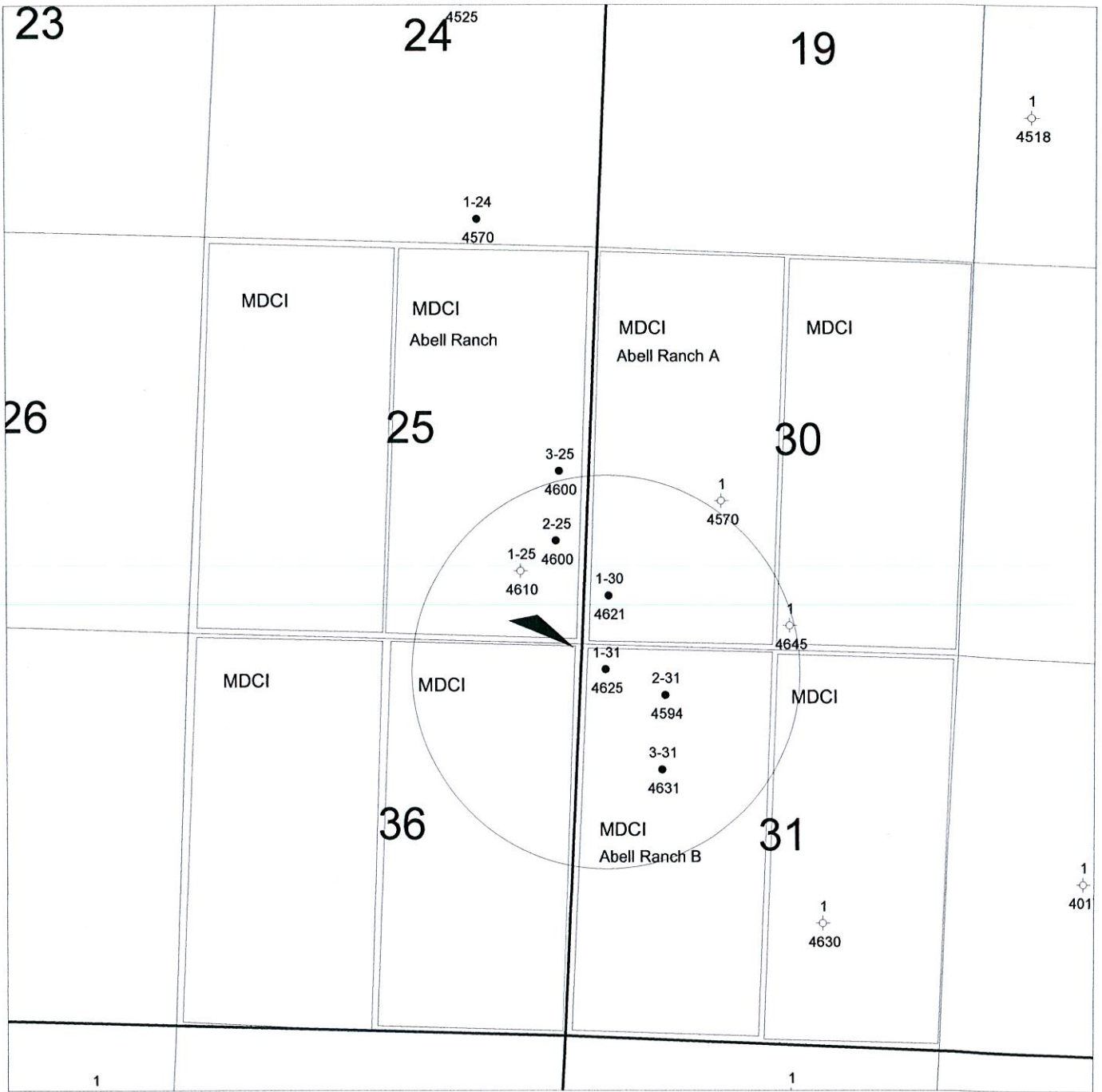


*Rachel M. Wilson*

Notary Public Sedgwick County, Kansas

Printers Fee: \$142.60

**LEGAL PUBLICATION**  
Published in The Wichita Eagle  
June 22, 2015 (3353659)  
BEFORE THE STATE CORPORATION  
COMMISSION OF THE STATE OF KANSAS  
**NOTICE OF FILING APPLICATION**  
RE: Murfin Drilling Co., Inc.- Application for  
Commingleing of Production on the Abell  
Ranch B #1-31, located in Gove County,  
Kansas.  
TO: All Oil and Gas Producers, Unleased  
Mineral Interest Owners, Landowners,  
and all persons whomsoever concerned.  
You, and each of you, are hereby notified  
that Murfin Drilling Company, Inc. has filed  
an application for Commingleing of Production  
from the LKC and the Mississippian at the  
Abell Ranch B #1-31 well located in the NW  
NW NW of Sec. 31-12S-30W, Govee 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, Inc.  
250 N. Water, Suite 300  
Wichita, KS 67202  
316-267-3241



T12S / R30-31W



**Abell Ranch B #1-31  
Commingling App.  
Sec. 31-12S-30W, Gove Co. KS**

Author:  
Date: 8 October, 2015

Horizontal Scale:  
Contour Interval:



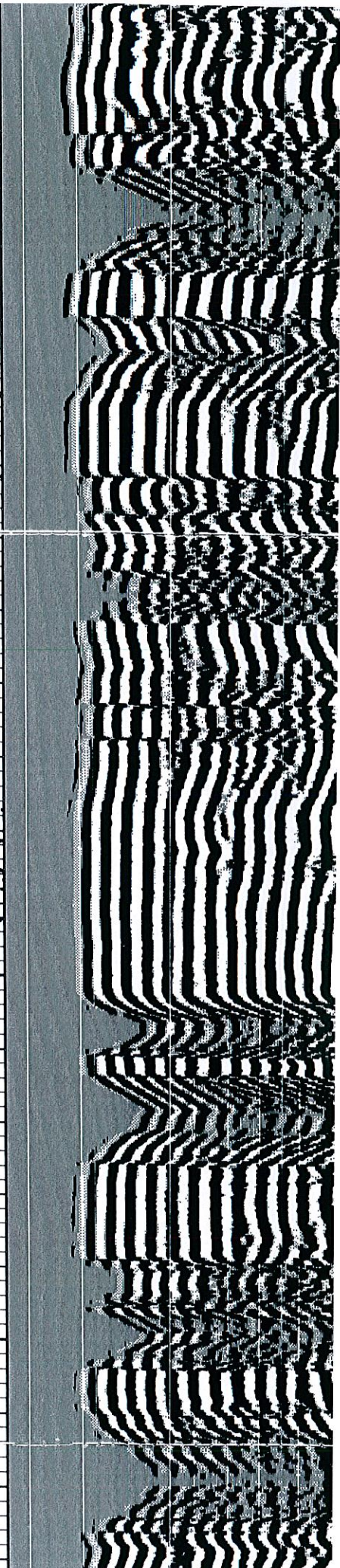
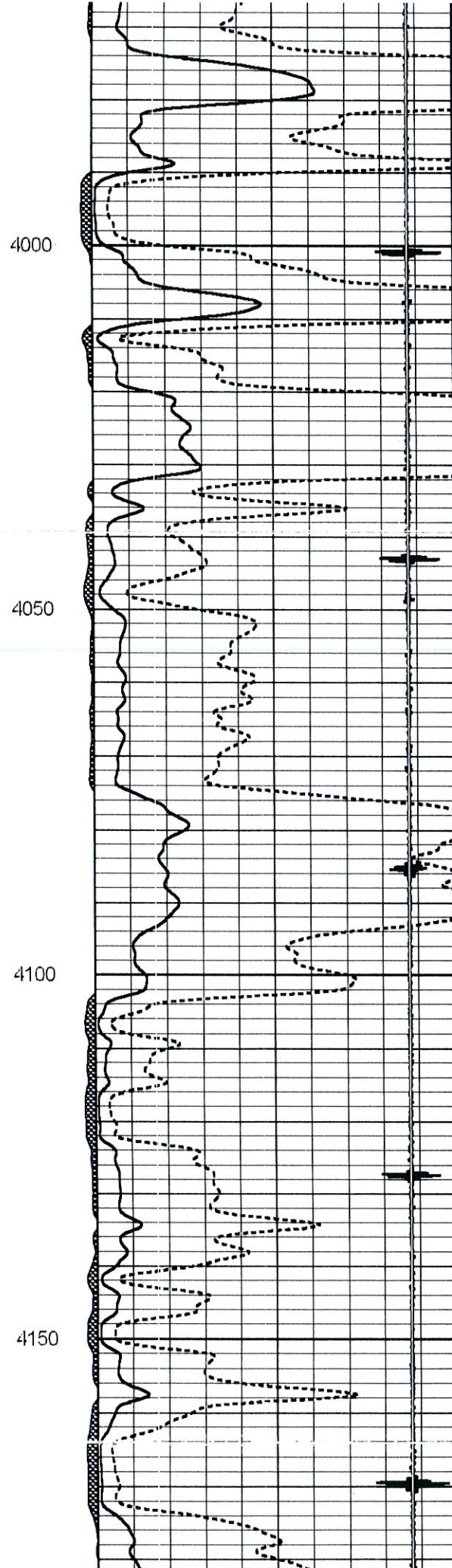
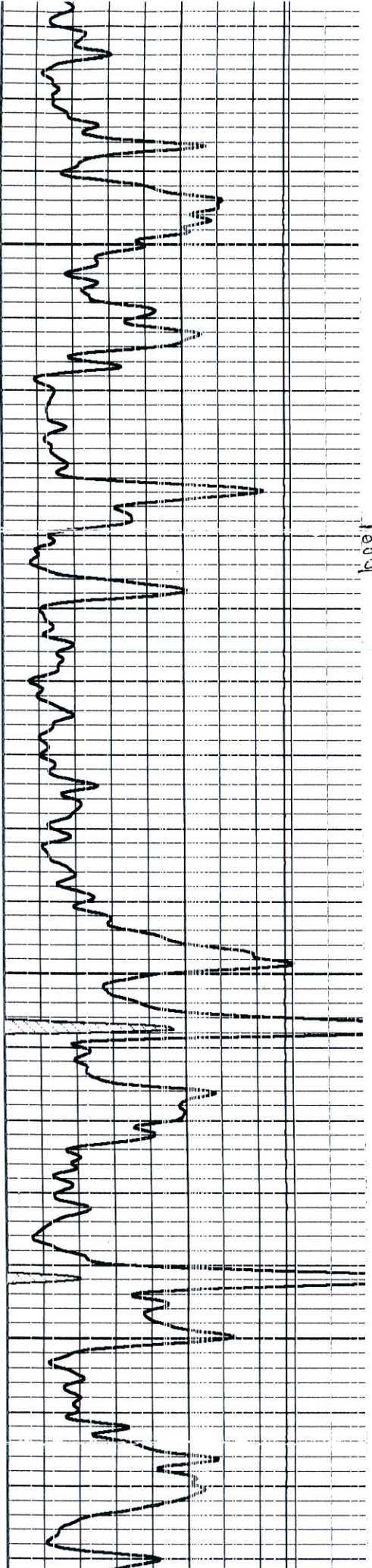


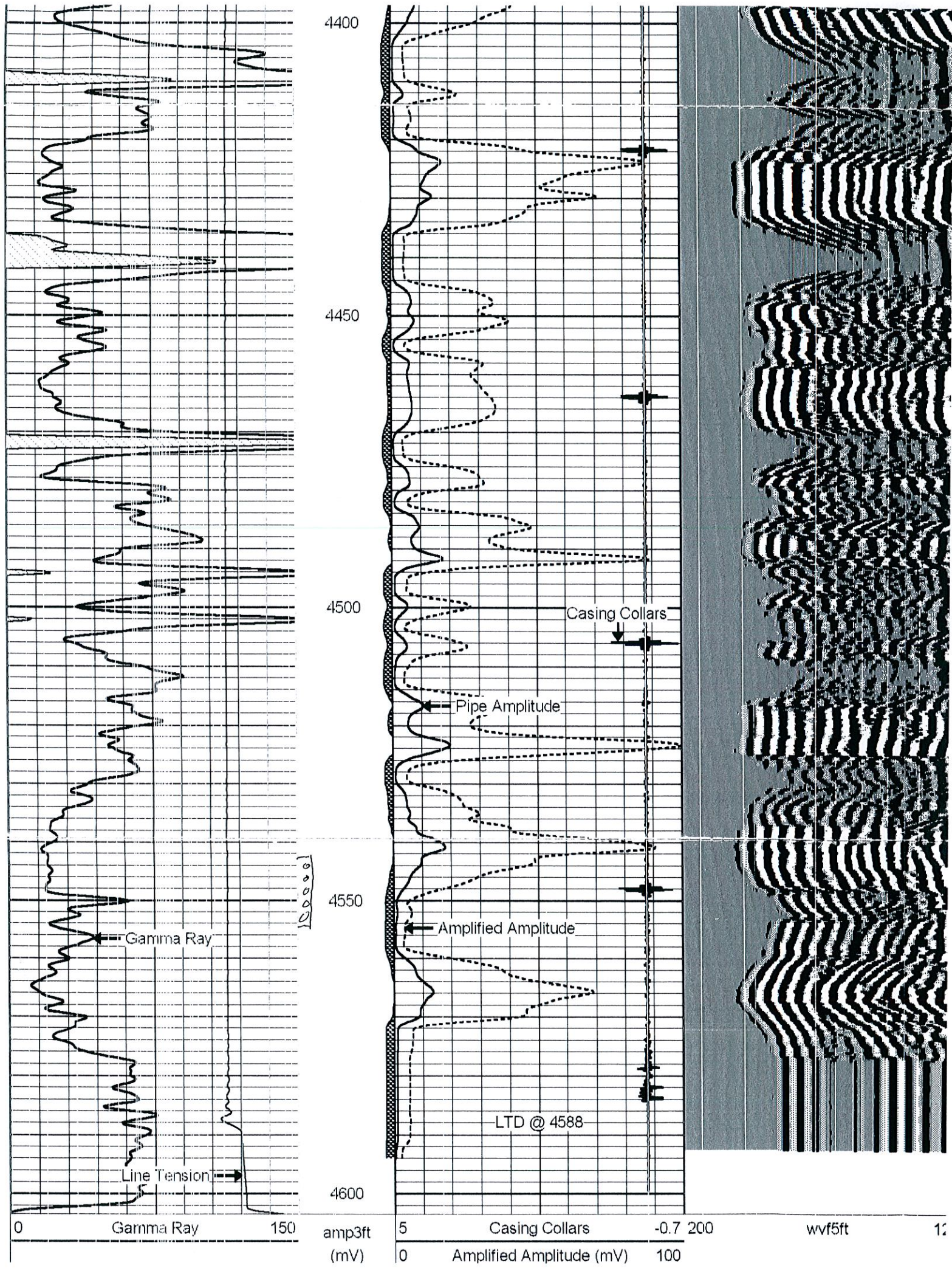
Pioneer Energy Services

WELL FILE

Sonic Cement  
Bond Log

API No.	Company <b>Murfin Drilling Company, Inc.</b>		
15-063-22,177-00-00	Well <b>Abell Ranch 'B' No. 1-31</b>		
	Field <b>Wildcat</b>		
	County <b>Gove</b>	State <b>Kansas</b>	
	Location <b>330' FNL &amp; 330' FWL</b>		
	Sec: <b>31</b>	Twp: <b>12 S</b>	Rge: <b>30 W</b>
Permanent Datum Ground Level Elevation <b>2896</b>			Other Services
Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum			Mast Trailer
Drilling Measured From Kelly Bushing			Elevation
			K.B. 2907
			D.F.
			G.L. 2896
Run Number	One		
Date Survey	03-10-2014		
Date Cementing	03-04-2014		
Type Cementing Operation	Primary		
Depth Driller	4625		
Depth Logger	4588		
Logged Interval	4587	to	3300
Casing Driller	5.5"	@	T.D.
Float Collar -- D.V. Tool			@
Squeeze Depth	////		
Amount & Type Cement	////		
Amount & Type Admix	////		
Type Fluid In Hole	Water		
Fluid Level	Full		
Salinity PPM CL	////		
Weight lb/gal -- Vis.	////		////
Approx. Logged Cement Top	3482		
Calculated Cement Top	////		
Max. Hole Temperature	124		
Tool No.	RBT 5-5		
Spacing Recorded	3-5		
Equipment -- Location	4		Hays
Recorded By	Stan Linenberger		
Witnessed By	John Gerstner		





0 Gamma Ray 150

amp3ft (mV)

5 Casing Collars -0.7 200  
0 Amplified Amplitude (mV) 100

wvf5ft 12

Conservation Division  
266 N. Main St., Ste. 220  
Wichita, KS 67202-1513



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

Shari Feist Albrecht, Chair  
Jay Scott Emler, Commissioner  
Pat Apple, Commissioner

Sam Brownback, Governor

October 26, 2015

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

RE: Approved Commingling CO101502  
Abell Ranch 'B' 1-31  
API No. 15-063-22177-00-00

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.

Based upon the depth of the Mississippian formation perforations, total oil production shall not exceed 200 BOPD and total gas production shall not exceed 50% of the absolute open flow (AOF).

Sincerely,

Rick Hestermann  
Production Department