



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 1171089
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed

Form must be Signed

All blanks must be Filled

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: Jeff Christian

Purchaser: MV Purchasing

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:

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 #: _____

| | | |
|-------------------|-----------------|--------------------|
| 08/06/2013 | 08/14/2013 | 09/11/2013 |
| Spud Date or | Date Reached TD | Completion Date or |
| Recompletion Date | | Recompletion Date |

API No. 15 - 15-039-21185-00-00

Spot Description:

N2_NW_NW_SW Sec. 6 Twp. 5 S. R. 30 East West

2500 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: Decatur

Lease Name: Earl Well #: 1-6

Field Name:

Producing Formation: LKC, Cherokee Lime

Elevation: Ground: 2842 Kelly Bushing: 2853

Total Vertical Depth: 4479 Plug Back Total Depth: 4455

Amount of Surface Pipe Set and Cemented at: 221 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: 2594 Feet

If Alternate II completion, cement circulated from: 2594

feet depth to: 0 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: 12/02/2013

Confidential Release Date: _____

Wireline Log Received

Geologist Report Received

UIC Distribution

NADMI JAMES 12/02/2013

1171089

Operator Name: Murfin Drilling Co., Inc. Lease Name: Earl Well #: 1-6
 Sec. 6 Twp. 5 S. R. 30 East West County: Decatur

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 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: | | | |

| 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 | 221 | Common | 190 | 3% cc |
| Production | 7.8750 | 5.5000 | 15.5 | 4479 | EA2 | 175 | |
| | | | | | | | |

| 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 (Amount and Kind of Material Used) | Depth |
|----------------|---|---|-------|
| 4 | 3958 - 3962 LKC F | 250 gal 20% MCA, 750 gal 15% NEFE | |
| 4 | 4041 - 4048 LKC J | 250 gal 20% MCA, 1000 gal 15% NEFE | |
| 4 | 4302 - 4306 Cher Lm | 250 gal 15% MCA, 750 gal 15% NEFE | |
| | | | |

| | | | |
|--|------------------------|--|--|
| TUBING RECORD: Size: <u>2 3/8</u> Set At: <u>4330</u> Packer At: <u>NA</u> | | Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| Date of First, Resumed Production, SWD or ENHR. <u>09/23/2013</u> | | Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____ | |
| Estimated Production Per 24 Hours | Oil Bbls. <u>32</u> | Gas Mcf <u>129</u> | Water Bbls. Gas-Oil Ratio Gravity <u>31</u> |

| | | |
|---|--|--|
| 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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____ | PRODUCTION INTERVAL: <u>3958 - 4306</u> |
|---|--|--|

Affidavit of Notice Served

Re: Application for: Commingling of Production

Well Name: Earl #1-6 Legal Location: N2 NW NW SW Sec. 6-5S-30W

The undersigned hereby certifies that he / she is a duly authorized agent for the applicant, and that on the day 24th of April, 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.

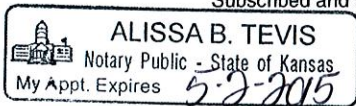
| Name | Address (Attach additional sheets if necessary) |
|------|---|
|------|---|

I further attest that notice of the filing of this application was published in the The Oberlin Herald, the official county publication of Decatur county. A copy of the affidavit of this publication is attached.

Signed this 24th day of April, 2015

Applicant of Duly Authorized Agent

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



Notary Public

My Commission Expires: 5-2-2015

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. 6-5S-30W, N/2 and SE/4 of Sec.1-5S-31W

250 N. Water, Suite 300

Wichita, KS 67202

Landowner:

Stephen & Barbara Brown, Earl and Zola Brown

W/2 &W/2 SE/4 of Sec. 6-5S-30W

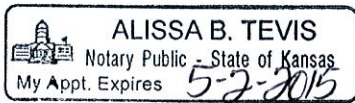
847 100th Rd

Selden, KS 67757

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 24th day of April, 2015



Notary Public

My Commission Expires: 5-2-2015

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.**

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, that the first publication of said notice was

made as aforesaid on the 7th of

March 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

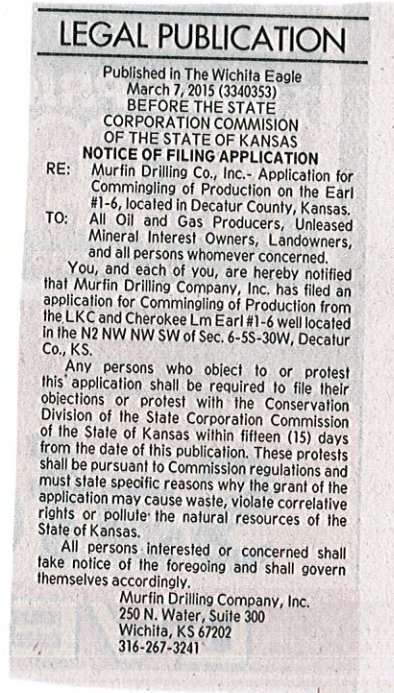
9th day of March, 2015



Rachel M. Wilson

Notary Public Sedgwick County, Kansas

Printers Fee: \$135.80



Proof of Publication

STATE OF KANSAS
DECATUR
COUNTY

SS.
Cynthia Haynes

of lawful age, being duly sworn upon oath, states that she
is the publisher

of THE OBERLIN HERALD

THAT said newspaper has been published at least weekly fifty (50) times a year and has been so published for at least one year prior to the first publication of the attached notice;

THAT said paper was entered as second class mail matter at the post office of its publication;

THAT said paper has a general paid circulation on a weekly basis in DECATUR County, Kansas, and is

NOT a trade, religious or fraternal publication and has been

PRINTED and published in DECATUR County, Kansas.

THE ATTACHED was published on the following dates in a regular issue of said newspaper.

1st
Publication was made on the 11th day of March, 2015.

2nd
Publication was made on the day of, 20.....

3rd
Publication was made on the day of, 20.....

4th
Publication was made on the day of, 20.

5th
Publication was made on the day of, 20.....

Publication Fee \$ 44.15

Affidavit, Notary's Fees \$ 2.00

Additional Copies @ \$.....

Total Publication Fee \$ 46.15

(Sign) *Cynthia Haynes*

Witness my hand this 11th day of March, 2015.

SUBSCRIBED and sworn to before me this 11th

DAY OF March....., 2015
(Notary Public)

My commission expires 4-9-2016

Patricia A. Cozad

PUBLIC NOTICE
(Published in The Oberlin Herald,
Wednesday, March 11, 2015)1t

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 Earl #1-
6, located in Decatur County, Kansas.

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

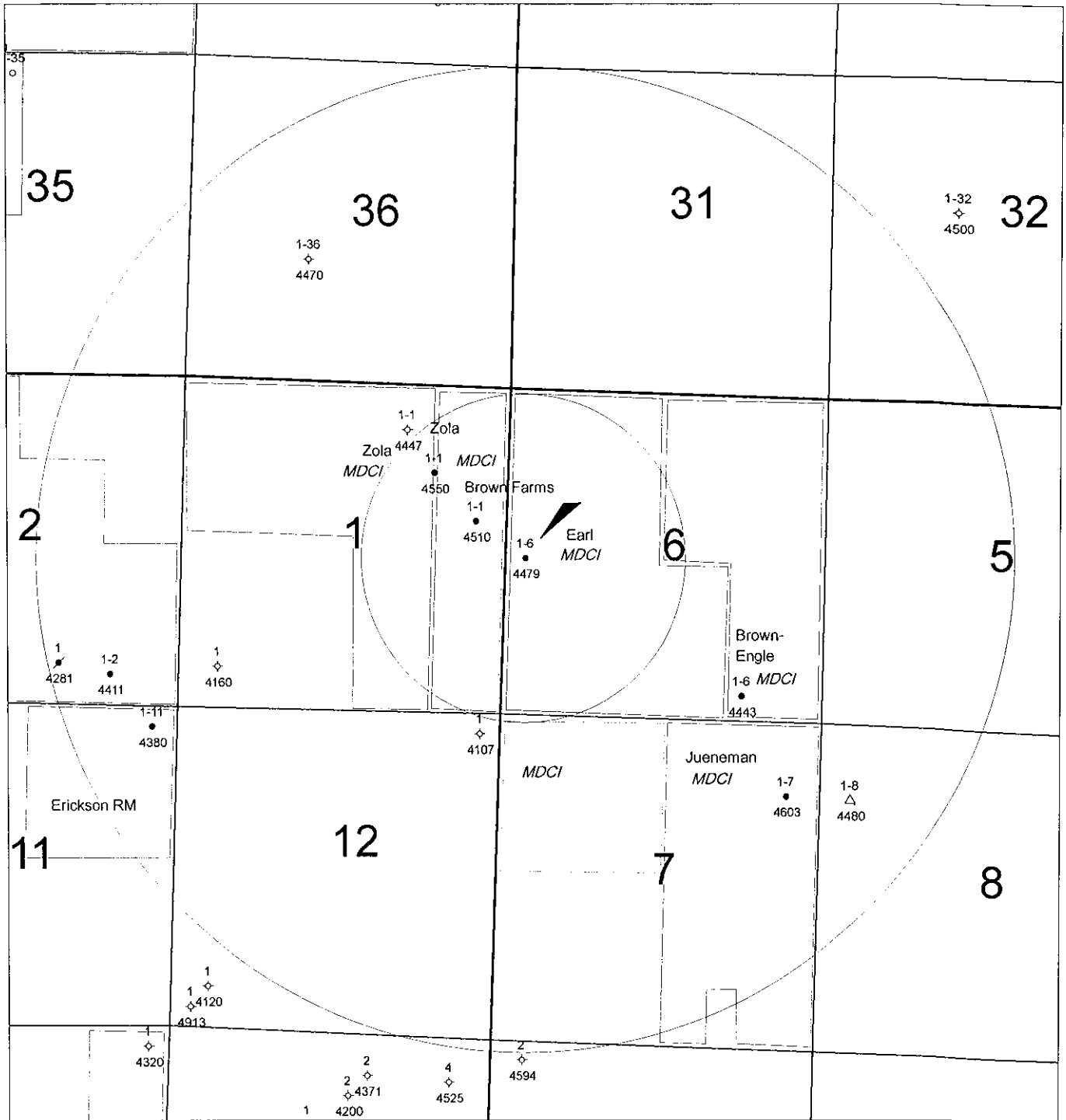
You, and each of you, are hereby notified
that Murfin Drilling Company, Inc. has filed an
application for Commingling of Production
from the LKC and Cherokee Lm Earl #1-6
well located in the N2 NW SW of Sec.
6-5S-30W, Decatur Co., KS.

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

NOTARY PUBLIC - State of Kansas
PATRICIA A. COZAD
My Appt. Exp. 4-9-2016



4-5S 30-31W



MURFIN
SURVEYING & ENGINEERING, INC.
WICHITA, KANSAS

Earl #1-6
Commingle App.
Sec. 6-5S-30W
Decatur Co., KS

Author
Date: 21 April, 2015

Horizontal Scale:
Contour Interval:



DUAL RECEIVER CEMENT BOND LOG

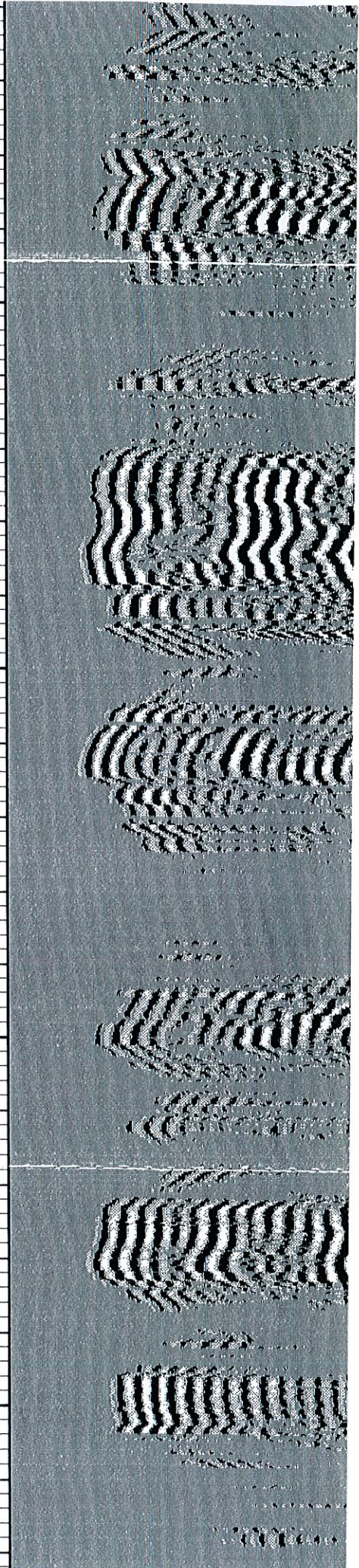
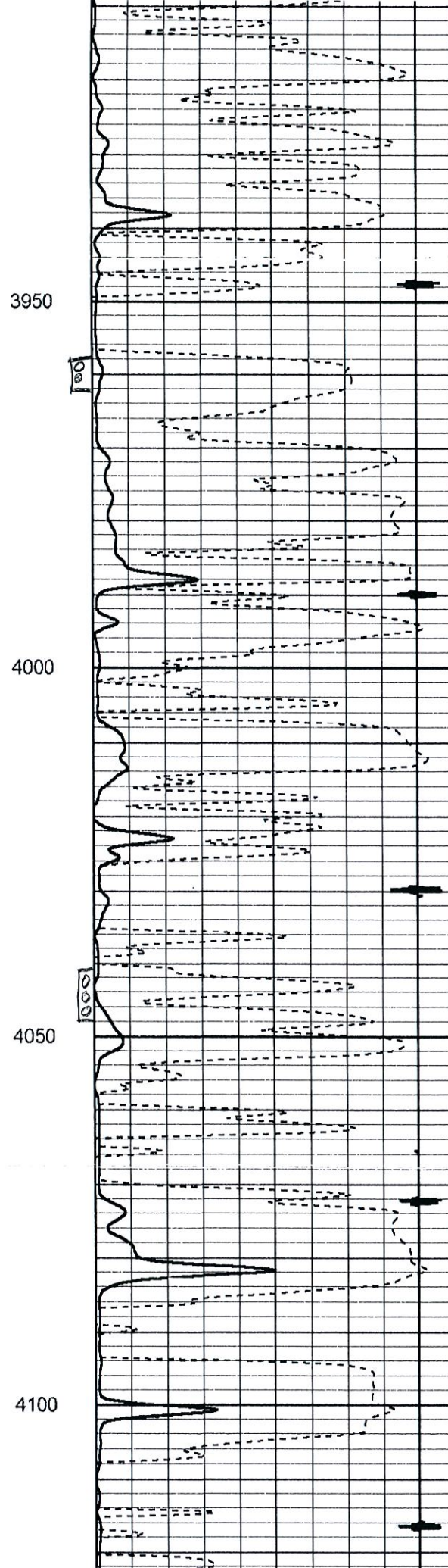
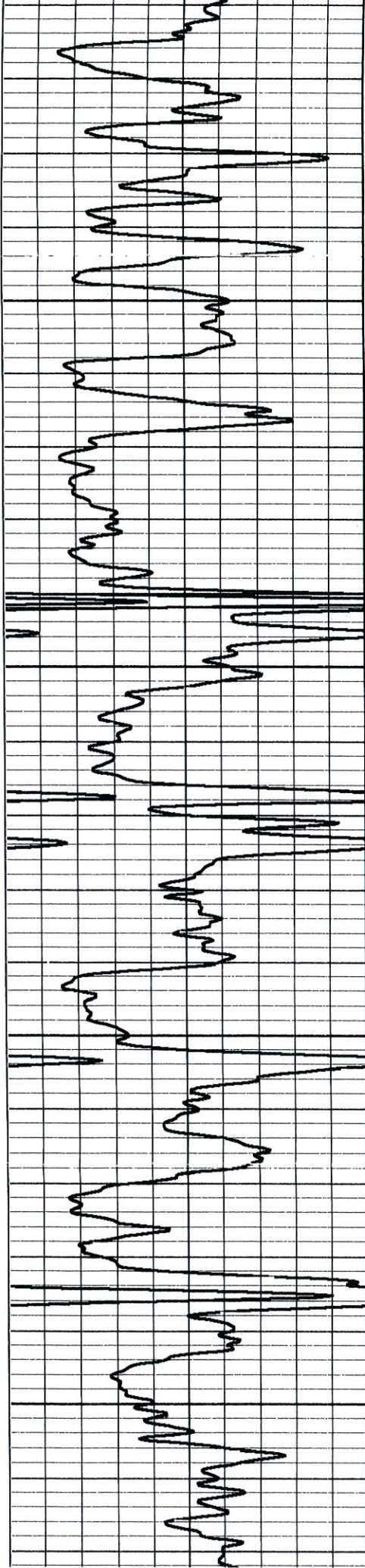
| | | |
|---|---|---|
| Company MURFIN DRILLING COMPANY, INC. Well EARL NO. 1-6 Field ELNA NE County DECATURE State KANSAS | Company MURFIN DRILLING COMPANY, INC. Well EARL NO. 1-6 Field ELNA NE County DECATURE State KANSAS | |
| | Location: API #: 15-039-21,185-00-00 | Other Services |
| | 2500' FSL & 330' FWL SEC 6 TWP 5S RGE 30W | |
| | Permanent Datum GROUND LEVEL Elevation 2842 Log Measured From K.B. 11' A.G.L. Drilling Measured From KELLY BUSHING | Elevation K.B. 2853 D.F. G.L. 2842 |

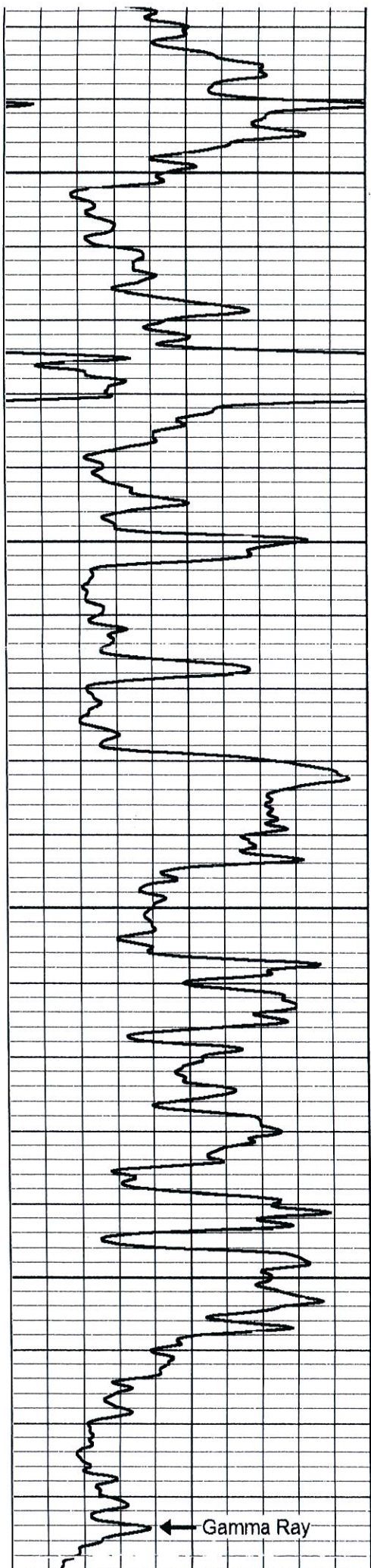
| | |
|------------------------|------------------------------|
| Date | AUG 29, 2013 |
| Run Number | ONE |
| Depth Driller | 4479 |
| Depth Logger | 4455 PORT COLLAR @ 2594 |
| Bottom Logged Interval | 4454 |
| Top Log Interval | |
| Open Hole Size | |
| Type Fluid | WATER |
| Density / Viscosity | |
| Max. Recorded Temp. | 121F |
| Estimated Cement Top | 3350 |
| Time Well Ready | |
| Time Logger on Bottom | |
| Equipment Number | PT-09 |
| Location | HAYS |
| Recorded By | BRAD LEIKER |
| Witnessed By | MR. GLEN WAHRMAN |

| Borehole Record | | | | Tubing Record | | | |
|-----------------|-------|------|------|---------------|--------|------|----|
| Run Number | Bit | From | To | Size | Weight | From | To |
| ONE | 12.25 | 00 | 221 | | | | |
| TWO | 7.875 | 00 | 4479 | | | | |
| | | | | | | | |

| Casing Record | Size | Wgt/Ft | Top | Bottom |
|-------------------|-------|--------|-----|--------|
| Surface String | 8 5/8 | 23# | 00 | 221 |
| Prot. String | | | | |
| Production String | 5 1/2 | 15.5# | 00 | 4475 |
| Liner | | | | |

>>> Hays >>>
 <<< End <<<



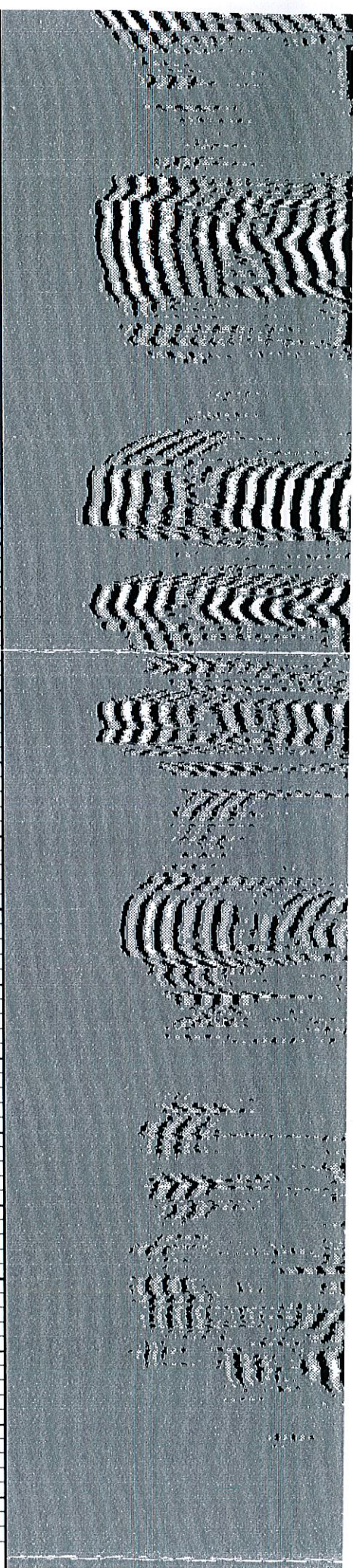
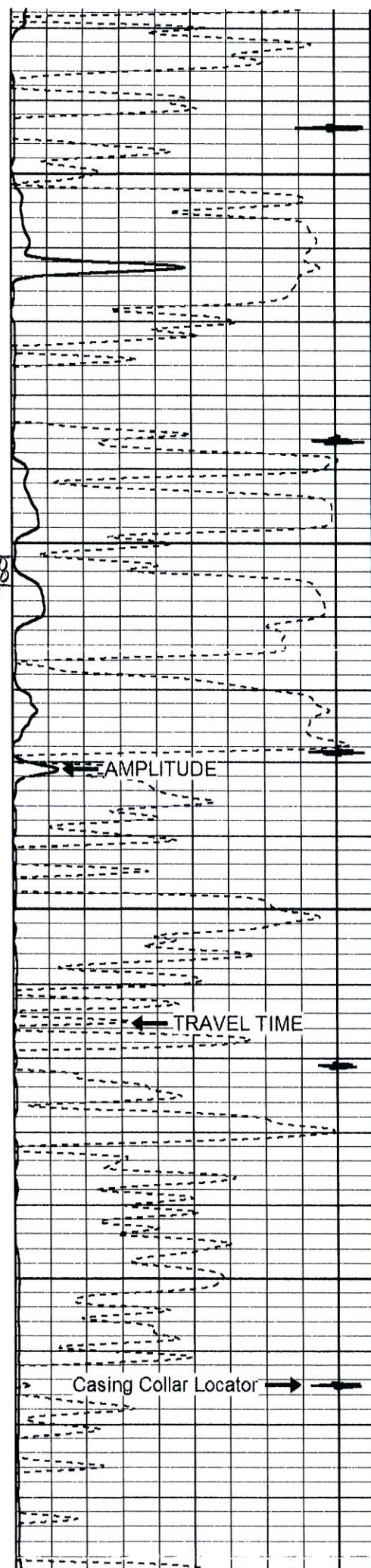


4250

4300

4350

4400



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

May 11, 2015

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

RE: Approved Commingling CO041511
Earl 1-6
API No. 15-039-21185-00-00

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 Cherokee Lm 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