



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

OPERATOR: License # \_\_\_\_\_

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

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

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

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

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
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

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

API No. 15 - \_\_\_\_\_

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

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

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

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

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

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

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ 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.

**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.

Submitted Electronically

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1055578

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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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

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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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 type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	Garvey 'A' 2-14
Doc ID	1055578

Tops

Name	Top	Datum
Anhydrite	1796	+ 561
B/Anhydrite	1831	+ 526
Heebner Shale	3572	- 1216
Lansing	3611	- 1255
B/KC	3916	- 1560
Pawnee	4016	- 1660
Ft. Scott	4114	- 1758
Cherokee Shale	4139	- 1782
Mississippian	4220	- 1863

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/>

Thomas E. Wright, Chairman  
Ward Loyd, Commissioner

Corporation Commission

Sam Brownback, Governor

May 11, 2011

Mark Shreve  
Mull Drilling Company, Inc.  
1700 N WATERFRONT PKWY  
BLDG 1200  
WICHITA, KS 67206

Re: ACO1  
API 15-063-21882-00-00  
Garvey 'A' 2-14  
NE/4 Sec.14-15S-27W  
Gove County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Mark Shreve



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Mull Drilling Co.  
1700 North Prky  
Building 1200  
Wichita KS 67206  
ATTN: Phil Askey

**Garvey A #2-14**

**14-15-27w Gove KS**

Job Ticket: 040690

**DST#: 1**

Test Start: 2011.02.27 @ 15:14:15

## GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:58:15

Time Test Ended: 22:00:45

Test Type: Conventional Bottom Hole

Tester: Mike Roberts

Unit No: 48

**Interval: 4090.00 ft (KB) To 4140.00 ft (KB) (TVD)**

Reference Elevations: 2356.00 ft (KB)

Total Depth: 4140.00 ft (KB) (TVD)

2347.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 6669 Outside**

Press @ Run Depth: 42.61 psig @ 4130.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.02.27

End Date:

2011.02.27

Last Calib.:

2011.02.27

Start Time: 15:14:15

End Time:

22:00:45

Time On Btm:

2011.02.27 @ 16:58:00

Time Off Btm:

2011.02.27 @ 19:05:45

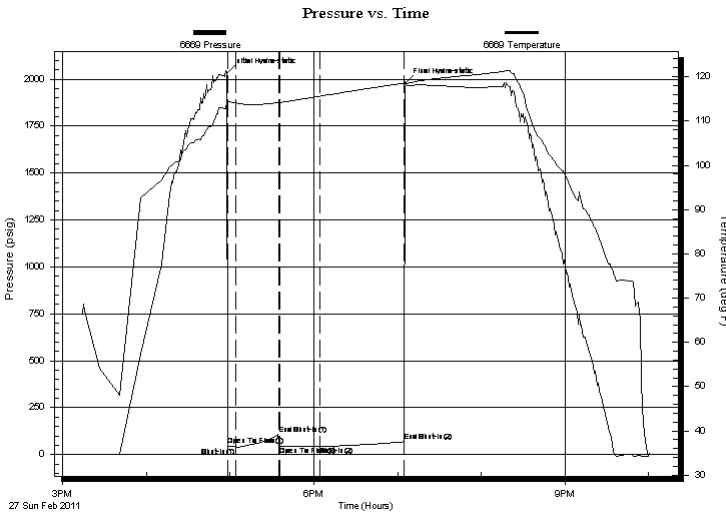
**TEST COMMENT:** IF: Built to weak surface blow

IS: No return blow

FF: No blow

FS: No return blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2033.37	114.28	Initial Hydro-static
1	47.53	113.25	Open To Flow (1)
7	40.17	114.05	Shut-In (1)
37	106.98	114.20	End Shut-In (1)
38	44.14	114.19	Open To Flow (2)
67	42.61	115.60	Shut-In (2)
127	69.16	118.57	End Shut-In (2)
128	1979.56	118.74	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud w/oil spots	0.04

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Mull Drilling Co.  
1700 North Prky  
Building 1200  
Wichita KS 67206  
ATTN: Phil Askey

**Garvey A #2-14**  
**14-15-27w Gove KS**  
Job Ticket: 040690 **DST#: 1**  
Test Start: 2011.02.27 @ 15:14:15

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4100.00 ppm			
Filter Cake: 1.00 inches			

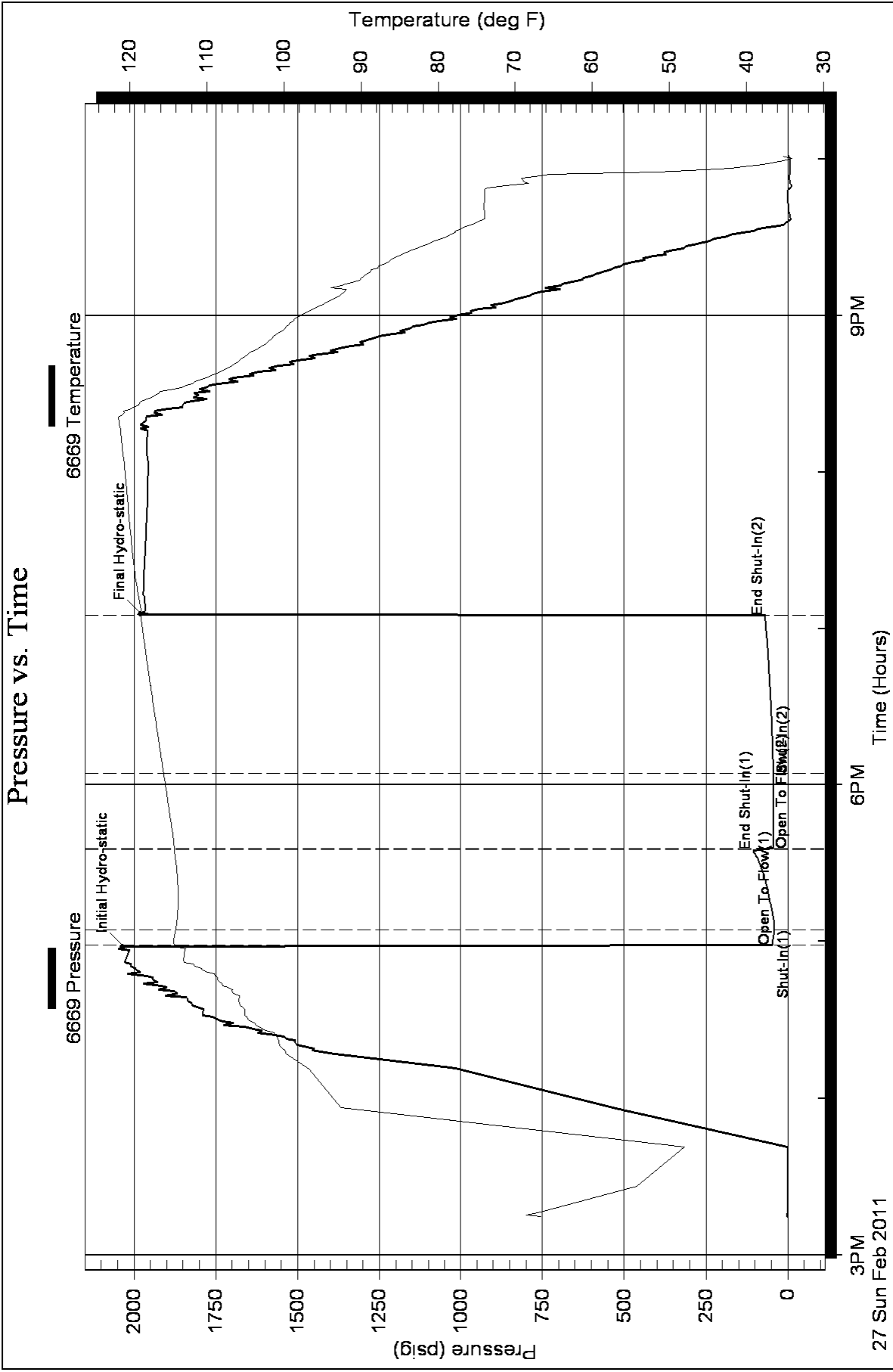
**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
3.00	Mud w /oil spots	0.042

Total Length: 3.00 ft      Total Volume: 0.042 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

### Pressure vs. Time



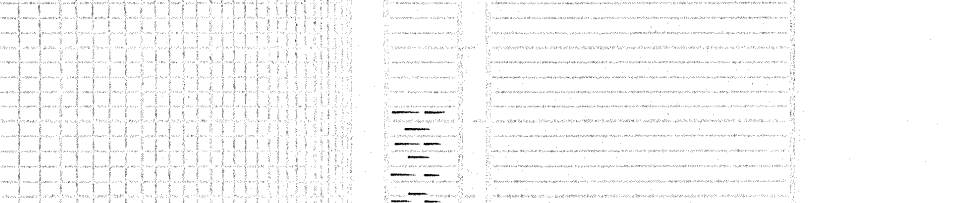
COMPANY: Mull Drilling Company, Inc.  
 LEASE: Garvey "A" #2-14  
 FIELD: Willard  
 LOCATION: 2185' FNL & 335' FEL  
 SECTION: 14 T19S R15S SEC 37 W  
 COUNTY: Gove STATE: Kansas  
 CORRELATION: Dale Dig. Log #2  
 DATE: 2/21/11  
 WELL NO: 15-063-21882  
 RIG NO: 4900  
 LTO: 4302L  
 TYPE LOG: Gravity/Mod-G  
 SAMPLES SAND FROM: 3100'  
 DRILLING THE REPT FROM: 1700-1900', 3100'  
 SAMPLES EXCLUDED FROM: 3100'  
 GEOLOGICAL SUPERVISION FROM: 3550'  
 GEOLOGIST ON WELL: Phil Akey, P.G.  
 INFORMATION FOS: LGS SAMPLES  
 Formation: Anhydrite 1792 (+589)  
 E-log 1796 (+560)  
 B/Anhyd 1828 (+520)  
 E-log 1831 (+525)  
 Helwan 3568 (-1212)  
 E-log 3572 (-1216)  
 Toronto 3588 (-1232)  
 E-log 3592 (-1236)  
 Lansing 3608 (-1252)  
 E-log 3611 (-1255)  
 Sta-sh 3856 (-1500)  
 E-log 3859 (-1505)  
 Hurlingham 3885  
 E-log 3888  
 B/KC 3912 (-1556)  
 E-log 3915 (-1559)  
 Pauman 4013 (-1657)  
 E-log 4016 (-1660)  
 Ft Scott 4110 (-1754)  
 E-log 4113 (-1757)  
 Char. L. 4139 (-1781)  
 E-log 4139 (-1783)  
 BPL 4181 (-1925)  
 E-log 4183 (-1927)  
 Miss 4218 (-1862)  
 E-log 4220 (-1864)  
 RTO 4300 (-1944)  
 LTO 4302L (-1946)

REMARKS: The Mull Drilling Garvey "A" #2-14 on structure, few & the reference well on the Mull-Garvey #1-13. Upon review of all samples, DST results, and E-log evaluation, it was decided to plug between this well.

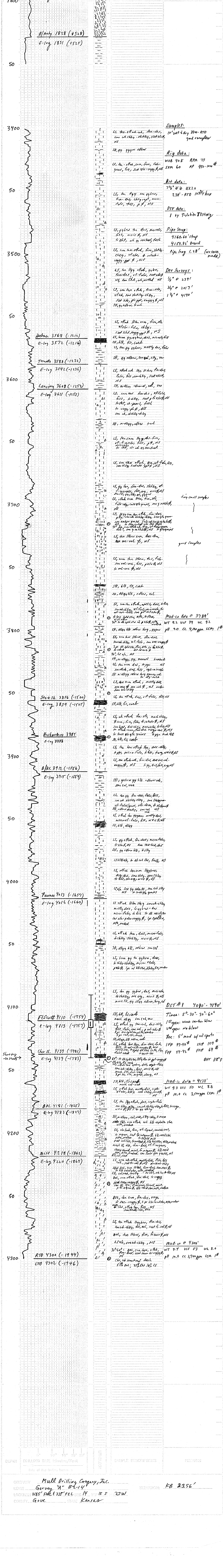
Phil Akey, P.G.

Well # 15-063-21882

LEGEND



SCALE 1" = 100'



COMPANY: Mull Drilling Company, Inc.  
 LEASE: Garvey "A" #2-14  
 LOCATION: 2185' FNL & 335' FEL SEC 14 T19S R15S  
 COUNTY: Gove STATE: Kansas  
 ELEVATION: KB 2356'  
 27W



