



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1189049  
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 # \_\_\_\_\_

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

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

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

Datum:  NAD27       NAD83       WGS84

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

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

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

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

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

Total Vertical 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

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

1189049

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

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

**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 <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  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
<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

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	Slanovich 1-16
Doc ID	1189049

All Electric Logs Run

CDL/CNL/PE
DIL
Micro
Sonic

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	Slanovich 1-16
Doc ID	1189049

Tops

Name	Top	Datum
Anhydrite	1769	+ 987
B/Anhydrite	1835	+ 921
Heebner Shale	4112	- 1356
Lansing	4205	- 1449
Stark Shale	4493	- 1737
B/KC	4629	- 1873
Cherokee Shale	4768	- 2012
Mississippian	4905	- 2149
St. Louis Porosity	4996	- 2240

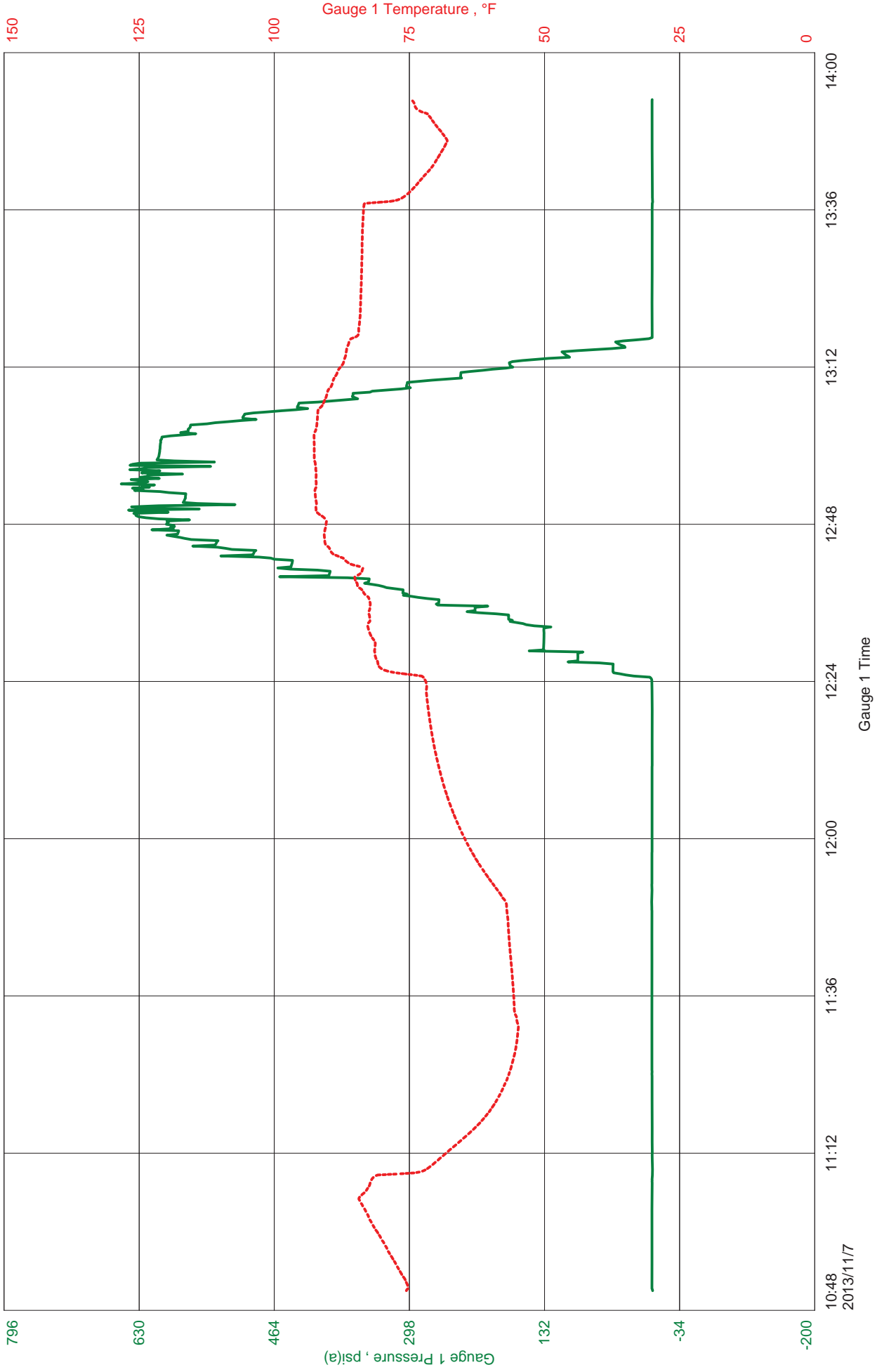




Mull Drilling Company, Inc  
DST #1 Cherokee 4810-4870  
Start Test Date: 2013/11/07  
Final Test Date: 2013/11/07

Slanovich #1-16  
Formation: Cherokee Lime  
Pool: Wildcat  
Job Number: K053

# Slanovich #1-16





**JASON MCLEMORE**

**CELL # 620-6170527**

**General Information**

<b>Company Name</b>	Mull Drilling Company, Inc	<b>Job Number</b>	K053
<b>Contact</b>	MarkSchreve	<b>Representative</b>	Jason McLemore
<b>Well Name</b>	Slanovich #1-16	<b>Well Operator</b>	Mull Drilling Company, Inc
<b>Unique Well ID</b>	DST #1 Cherokee 4810-4870	<b>Prepared By</b>	Jason McLemore
<b>Surface Location</b>	16-26s-29w-Gray	<b>Qualified By</b>	Kevin Kessler
<b>Field</b>	Wildcat	<b>Test Unit</b>	#7
<b>Well Type</b>	Vertical		

**Test Information**

<b>Test Type</b>	Drill Stem Test	<b>Representative</b>	Jason McLemore
<b>Formation</b>	Cherokee Lime	<b>Well Operator</b>	Mull Drilling Company, Inc
<b>Well Fluid Type</b>	01 Oil	<b>Report Date</b>	2013/11/07
<b>Test Purpose (AEUB)</b>	Initial Test	<b>Prepared By</b>	Jason McLemore
<b>Start Test Date</b>	2013/11/07	<b>Start Test Time</b>	10:51:00
<b>Final Test Date</b>	2013/11/07	<b>Final Test Time</b>	13:54:00

**Test Results**

Hole Bridged Off 14 Stands in, Pull Tool





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: slano1dst1

TIME ON: 10:51 AM  
TIME OFF: 13:54 PM

Company Mull Drilling Company, Inc Lease & Well No. Slanovich #1-16  
Contractor Duke #6 Charge to Mull Drilling Company, Inc  
Elevation KB 2756 Formation Cherokee Lime Effective Pay \_\_\_\_\_ Ft. Ticket No. K053  
Date 11-07-13 Sec. 16 Twp. 26 S Range 29 W County Gray State KANSAS  
Test Approved By Kevin Kessler Diamond Representative Jason McLemore

Formation Test No. 1 Interval Tested from 4810 ft. to 4870 ft. Total Depth 4870 ft.  
Packer Depth 4805 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4810 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
Top Recorder Depth (Inside) 4791 ft. Recorder Number 5513 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 4807 ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type Chemical Viscosity 50 Drill Collar Length 279 ft. I.D. 2 1/4 in.  
Weight 9.2 Water Loss 8.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 3500 P.P.M. Drill Pipe Length 4498 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number 7 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out No Anchor Length 60 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 31' DP in Anchor Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Hole Bridged Off 14 Stands in, Pull Tool  
2nd Open:

Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
_____	Total

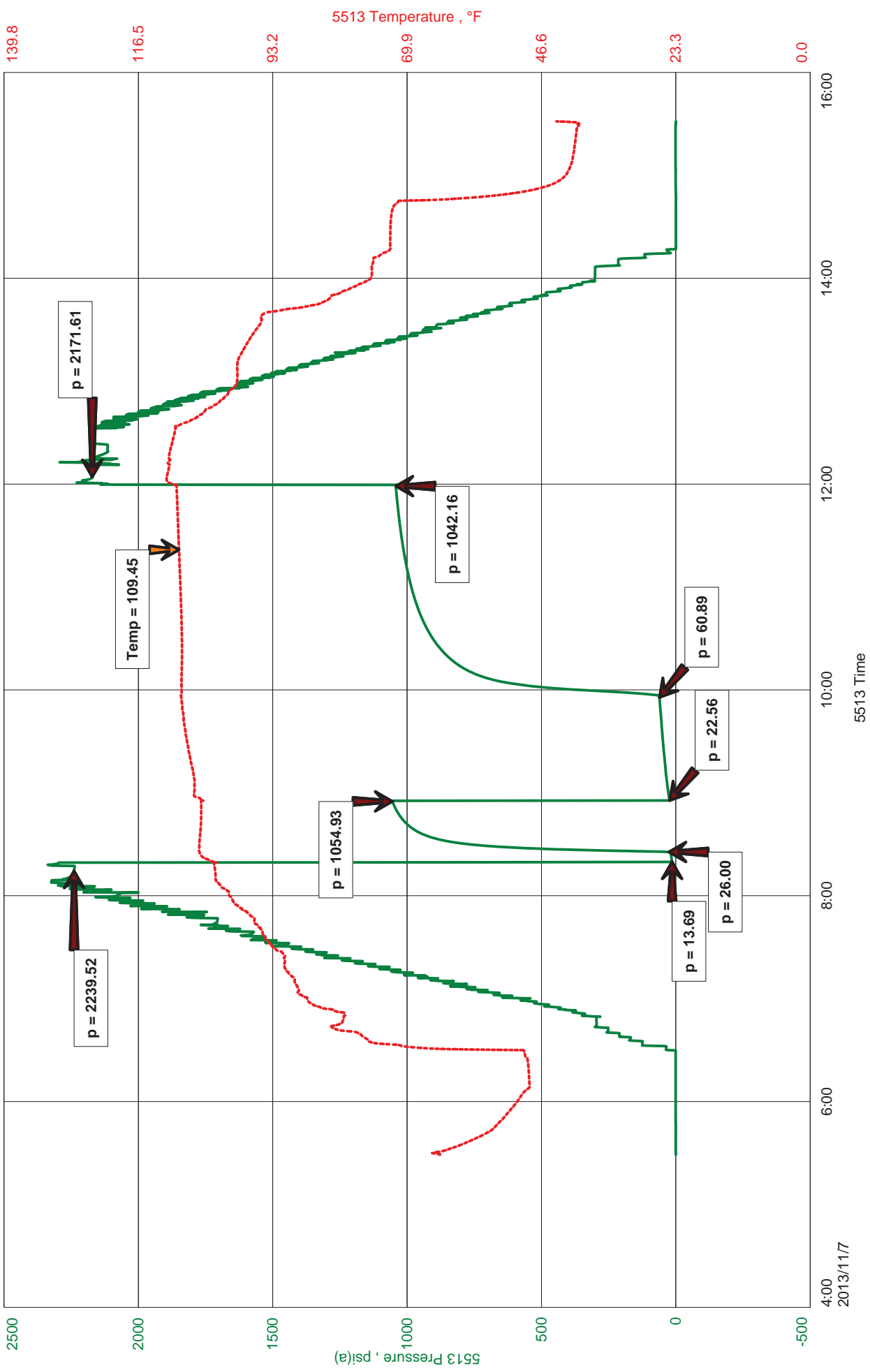
Time Set Packer(s) \_\_\_\_\_ A.M. \_\_\_\_\_ P.M. Time Started Off Bottom \_\_\_\_\_ A.M. \_\_\_\_\_ P.M. Maximum Temperature \_\_\_\_\_  
Initial Hydrostatic Pressure..... (A) \_\_\_\_\_ P.S.I.  
Initial Flow Period..... Minutes (B) \_\_\_\_\_ P.S.I. to (C) \_\_\_\_\_ P.S.I.  
Initial Closed In Period..... Minutes (D) \_\_\_\_\_ P.S.I.  
Final Flow Period..... Minutes (E) \_\_\_\_\_ P.S.I. to (F) \_\_\_\_\_ P.S.I.  
Final Closed In Period..... Minutes (G) \_\_\_\_\_ P.S.I.  
Final Hydrostatic Pressure..... (H) \_\_\_\_\_ P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Mull Drilling Company, Inc  
DST #2 Paw-Cher 4730-4870  
Start Test Date: 2013/11/07  
Final Test Date: 2013/11/08

Slanovich #1-16  
Formation: Pawnee-Cherokee Lime  
Pool: Wildcat  
Job Number: K054

# Slanovich #1-16





**JASON MCLEMORE**

**CELL # 620-6170527**

**General Information**

<b>Company Name</b>	Mull Drilling Company, Inc	<b>Job Number</b>	K054
<b>Contact</b>	Mark Shreve	<b>Representative</b>	Jason McLemore
<b>Well Name</b>	Slanovich #1-16	<b>Well Operator</b>	Mull Drilling Company, Inc
<b>Unique Well ID</b>	DST #2 Paw-Cher 4730-4870	<b>Prepared By</b>	Jason McLemore
<b>Surface Location</b>	16-26-29-Gray	<b>Qualified By</b>	Kevin Kessler
<b>Field</b>	Wildcat	<b>Test Unit</b>	#7
<b>Well Type</b>	Vertical		

**Test Information**

<b>Test Type</b>	Drill Stem Test	<b>Representative</b>	Jason McLemore
<b>Formation</b>	Pawnee-Cherokee Lime	<b>Well Operator</b>	Mull Drilling Company, Inc
<b>Well Fluid Type</b>	01 Oil	<b>Report Date</b>	2013/11/08
<b>Test Purpose (AEUB)</b>	Initial Test	<b>Prepared By</b>	Jason McLemore
<b>Start Test Date</b>	2013/11/07	<b>Start Test Time</b>	17:29:00
<b>Final Test Date</b>	2013/11/08	<b>Final Test Time</b>	04:41:00

**Test Results**

**RECOVERED:**

100	Muddy Water 50%W, 50%M
100	Total Fluid

**CHLORIDES: 8000**

**PH:7**

**RW: 1.2 @ 50**

**Tool Sample: Salt Water**



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: slano1dst2

TIME ON: 5:29 PM  
TIME OFF: 4:41 AM

Company Mull Drilling Company, Inc Lease & Well No. Slanovich #1-16  
Contractor Duke #6 Charge to Mull Drilling Company, Inc  
Elevation KB 2756 Formation Pawnee-Cherokee Lime Effective Pay \_\_\_\_\_ Ft. Ticket No. K054  
Date 11-07-13 Sec. 16 Twp. \_\_\_\_\_ 26 S Range \_\_\_\_\_ 29 W County Gray State KANSAS  
Test Approved By Kevin Kessler Diamond Representative Jason McLemore

Formation Test No. 2 Interval Tested from 4730 ft. to 4870 ft. Total Depth 4870 ft.  
Packer Depth 4725 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4730 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
Top Recorder Depth (Inside) 4711 ft. Recorder Number 5513 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 4867 ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type Chemical Viscosity 50 Drill Collar Length 626 ft. I.D. 2 1/4 in.  
Weight 9.2 Water Loss 8.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 3500 P.P.M. Drill Pipe Length 4071 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number 7 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out No Anchor Length 140 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. <sup>124' DP in Anchor</sup> Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Weak Blow, Built to 1", No Blowback  
2nd Open: Weak blow, Built to 3-1/2", No Blowback

Recovered 100 ft. of Muddy Water 50%W, 50%M  
Recovered 100 ft. of Total Fluid  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of CHLORIDES: 8000

Recovered _____ ft. of <u>PH: 7</u>	Price Job
Recovered _____ ft. of <u>RW: 1.2 @50</u>	Other Charges
Remarks: <u>Tool Sample: Salt Water</u>	Insurance
	Total

Time Set Packer(s) 9:30 PM A.M. P.M. Time Started Off Bottom 1:05 AM A.M. P.M. Maximum Temperature 109

Initial Hydrostatic Pressure..... (A) 2240 P.S.I.  
Initial Flow Period..... Minutes 5 (B) 14 P.S.I. to (C) 26 P.S.I.  
Initial Closed In Period..... Minutes 30 (D) 1055 P.S.I.  
Final Flow Period..... Minutes 60 (E) 23 P.S.I. to (F) 61 P.S.I.  
Final Closed In Period..... Minutes 120 (G) 1042 P.S.I.  
Final Hydrostatic Pressure..... (H) 2172 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



**KEVIN L. KESSLER**  
**CONSULTING PETROLEUM GEOLOGIST**  
( 316 ) 522-7338

**OPERATOR : MULL DRILLING COMPANY INC.**  
**LEASE : SLANOVICH WELL # : 1 - 16**  
**LOCATION : 1779' FSL & 2469' FWL**  
**SEC: 16 TWP : 26 S RGE : 29 W**  
**COUNTY : GRAY STATE : KANSAS**

**ELEVATION**  
**KB : 2756**  
**GL : 2744**  
**MEASUREMENTS FROM KB**

**CONTRACTOR : DUKE DRILLING RIG # 6**  
**COMM: 10 / 31 / 2013 COMP : 10 / 17 / 2013**  
**RTD : 5100 LOG TD : 5101**  
**SAMPLES SAVED FROM : 4100 TO: RTD**  
**GEOLOGICAL SUPERVISION FROM : 4100 TO : RTD**  
**MUD UP : 3900 TYPE MUD : CHEMICAL**

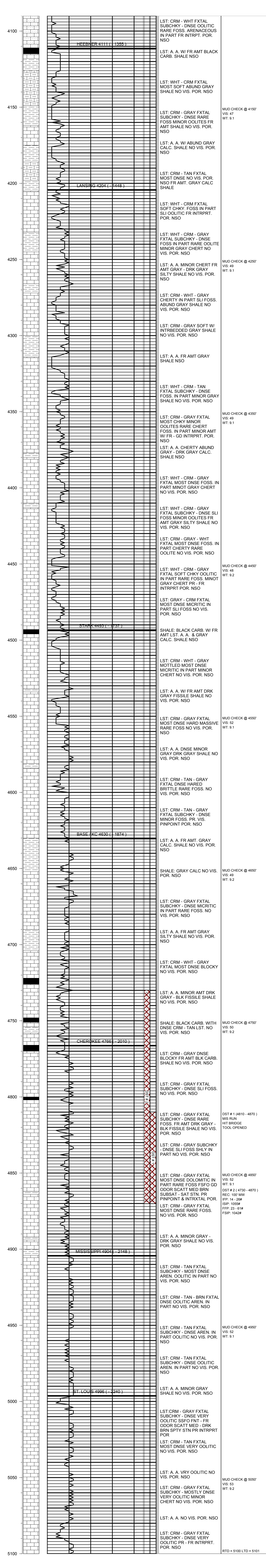
**CASING RECORD**  
**SURFACE : 8 5/8" @ 470'**  
**PRODUCTION :**

**ELECTRICAL SURVEYS:**

FORMATION	TOP	SAMPLE	DATUM	TOP	LOG	DATUM	STRUCT. COMP.
HEEBNER	4111	-1355	4111	-1355	+06		
LANSING	4204	-1448	4204	-1448	+08		
STARK	4493	-1737	4493	-1737	+10		
BASE / KC	4630	-1874	4630	-1874	+03		
CHEROKEE	4766	-2010	4766	-2010	+04		
MISSISSIPPI	4904	-2148	4904	-2148	+03		
ST. LOUIS	4996	-2240	4996	-2240	-44		

**REFERENCE WELL FOR STRUCTURAL COMPARISON :**

**GEAR PETROLEUM # 1 RENICK - DOLL SEC 15 - T 26 S - R 29 W GRAY COUNTY KANSAS**



**COMMENTS:**

**DUE TO THE LACK OF COMMERCIAL SHOWS OF OIL**

**AND NEGATIVE DST RESULTS**

**THIS WELL WAS PLUGGED AS D & A**

**KEVIN L. KESSLER**