



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1157422  
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: \_\_\_\_\_



1157422

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
--	---

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:  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

<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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	Mishler F 1
Doc ID	1157422

All Electric Logs Run

Compensated Density Neutron Log
Micro Resistivity Log
Dual Induction Log
Cement Bond Log

Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	Mishler F 1
Doc ID	1157422

Tops

Name	Top	Datum
Anhydrite	1765'	(+684)
Base/Anhydrite	1796'	(+653)
Heebner	3778'	(-1329)
Lansing	3818'	(-1369)
Base/KC	4109'	(-1660)
Pawnee	4236'	(-1787)
Fort Scott	4310'	(-1861)
Cherokee	4336'	(-1887)
Mississippi	4404'	(-1955)
L.T.D.	4475'	(-2026)

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/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

September 05, 2013

Marge Schulte  
Farmer, John O., Inc.  
370 W WICHITA AVE  
PO BOX 352  
RUSSELL, KS 67665-2635

Re: ACO1  
API 15-135-25599-00-00  
Mishler F 1  
NE/4 Sec.15-17S-25W  
Ness 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,  
Marge Schulte

# ALLIED OIL & GAS SERVICES, LLC 060421

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:  
128 Road 14

DATE <u>5-21-13</u>	SEC <u>15</u>	TWP <u>13</u>	RANGE <u>25</u>	CALLED OUT <u>7:00 PM</u>	ON LOCATION <u>7:00 PM</u>	JOB START <u>7:05</u>	JOB FINISH <u>7:45 PM</u>
LEASE <u>Mishler</u>	WELL # <u>F B1</u>	LOCATION <u>Arnold 4.5 on R12 to</u>			COUNTY <u>New</u>	STATE <u>TX</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)			220 RD. 1 1/2, south into				

CONTRACTOR Arcey 3 OWNER Same

TYPE OF JOB <u>Surface</u>	CEMENT
HOLE SIZE <u>12 1/4</u> T.D. <u>221</u>	AMOUNT ORDERED <u>150 m Class A</u>
CASING SIZE <u>8 7/8</u> DEPTH <u>221</u>	<u>37cc 2% Mel</u>
TUBING SIZE _____ DEPTH _____	
DRILL PIPE _____ DEPTH _____	
TOOL _____ DEPTH _____	
PRES. MAX _____ MINIMUM _____	COMMON <u>150</u> @ <u>17.90</u> <u>2.685.00</u>
MEAS. LINE _____ SHOE JOINT _____	POZMIX _____ @ _____
CEMENT LEFT IN CSG. <u>15</u>	GEL <u>3</u> @ <u>23.40</u> <u>70.20</u>
PERFS. _____	CHLORIDE <u>5</u> @ <u>64.00</u> <u>320.00</u>
DISPLACEMENT <u>13</u>	ASC _____ @ _____

**EQUIPMENT**

PUMP TRUCK	CEMENTER <u>Tom Deehan</u>
# <u>597</u>	HELPER <u>Charles Kuyon</u>
BULK TRUCK	
# <u>599</u>	DRIVER <u>Kevin Wagoner</u>
BULK TRUCK	
# _____	DRIVER _____

**REMARKS:**

Ran 221' of 8 7/8" Arg. Arched Csg.  
Arnold 9.6 mi. H=0. Mixed 150 m  
Class A 37cc 2% Mel. Displaced  
with H=0.

Cement Mel Calculate  
1 Xanda

CHARGE TO: John O Farmer

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

To: Allied Oil & Gas Services, LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME X GALEN GASCHELER

SIGNATURE X Galen Gascher

COMMON	<u>150</u>	@	<u>17.90</u>	<u>2.685.00</u>
POZMIX		@		
GEL	<u>3</u>	@	<u>23.40</u>	<u>70.20</u>
CHLORIDE	<u>5</u>	@	<u>64.00</u>	<u>320.00</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>162.09</u>	@	<u>2.48</u>	<u>401.98</u>
MILEAGE	<u>7.4% 33x</u>		<u>2.60</u>	<u>634.92</u>
				TOTAL <u>4.112.10</u>

**SERVICE**

DEPTH OF JOB <u>221</u>	
PUMP TRUCK CHARGE	<u>1512.35</u>
EXTRA FOOTAGE	@ _____
MILEAGE <u>Hum 33</u>	@ <u>7.70</u> <u>254.10</u>
MANIFOLD	@ _____
<u>Hum 33</u>	@ <u>4.40</u> <u>145.20</u>
	@ _____

TOTAL 1.911.55

**PLUG & FLOAT EQUIPMENT**

_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____

TOTAL \_\_\_\_\_

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES 6.023.65

DISCOUNT 1204.73 IF PAID IN 30 DAYS

4.818.92

JOB LOG

SWIFT Services, Inc.

DATE 5-28-13 PAGE NO. 1

CUSTOMER John O Farmer WELL NO. #1 LEASE Mishler F JOB TYPE Cement 5 1/2" Longstring TICKET NO. 24724

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0430							on location RTD - 4475' TP - 4474' SJ - #1 22.56' P.C. - #66 1769' Cent - #1 #3 #5 #8 #12 #15 #18 #66 Basket - #19 #66 5 1/2" 14" 150' scratchers 175 sks EA-2 w 1/4" Flocele
	0613							Start 5 1/2" 14" casing in well
	0837							Drop Ball Circulate - Rotate -
	0905	6 3/4	12		✓	300		Pump 500 gal Mud Flush
		6 3/4	20		✓	300		Pump 20 bbl KCL Flush
	0915		7-5					Plug RH - MH (30 sks - 20 sks)
	0920	4 1/2	30		✓	200		mix 125 sks EA-2 @ 15.5 ppg Wash out Pump & Lines Release Latch Down Plug
	0933	6 3/4	0		✓	200		Start Displacement
		6 3/4	62		✓	700		Lift PSD
		6 3/4	100		✓	700		Max Lift PSD
	1000	6 3/4	108.6		✓	1600		Land Latch Down Plug
	1003							Release PSD - Hold -  Wash up truck
	1030							Job Complete  Thank You Dave, Blaine, TJ + Doug



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 6911

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-5-13				NESS	KS		10:15 A.M.
Lease				Location			
mishlee "F"				Arnold 4S 1 1/2 W S into			
Contractor			Well No.		Owner		
J. M.			1		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.		
Type Job			T.D.		Charge To		
Port collar					J.O. Farmer		
Hole Size			Depth		Street		
7 7/8							
Csg. Size			Depth		City		
5 1/2					State		
Tbg. Size			Depth		The above was done to satisfaction and supervision of owner agent or contractor.		
2 7/8							
Tool			Shoe Joint		Cement Amount Ordered		
					250 QMIC 1/4 #110		
Cement Left in Csg.			Displace		Common		
			88L		USED 160SK		
Meas Line			EQUIPMENT		Poz. Mix		
			No. Cementer		Gel.		
			17 No. Helper		5		
			No. Driver		Calcium		
			No. Driver		Hulls		
			No. Driver		Salt		
			No. Driver		Flowseal		
			No. Driver		Kol-Seal		
			No. Driver		Mud CLR 48		
			No. Driver		CFL-117 or CD110 CAF 38		
			No. Driver		Sand		
			No. Driver		Handling		
			No. Driver		Mileage		
			No. Driver		FLOAT EQUIPMENT		
			No. Driver		Guide Shoe		
			No. Driver		Centralizer		
			No. Driver		Baskets		
			No. Driver		AFU Inserts		
			No. Driver		Float Shoe		
			No. Driver		Latch Down		
			No. Driver		Pumptrk Charge		
			No. Driver		Mileage		
			No. Driver		Tax		
			No. Driver		Discount		
			No. Driver		Total Charge		
Signature			Job Services & Remarks				
Oil Serv			Remarks: Rat Hole Mouse Hole Centralizers Baskets D/V or Port Collar Port Collar @ 1768. Test to 1000#. Open Tool & Mix 5SK gel & Est. Circulation. Mixed 160SK & Displace. Cement Circulated! Close Tool Test to 1000#. Run 5 joints & wash clean * 88L from Drilling Rig *				
			Pumptrk Charge		port collar		
			Mileage		25		
			Tax				
			Discount				
			Total Charge				





# Discovery Drilling

P.O. Box 763 • Hays, KS 67601 • OFFICE (785) 623-2920 • CELLULAR (785) 635-1511

## DRILLER'S LOG

Operator: John O. Farmer, Inc. Lic# 5135 Contractor: **Discovery Drilling Co., Inc. LIC#31548**  
370 West Wichita Avenue - P.O. Box 352 PO Box 763  
Russell, KS 67665 Hays, KS 67601

Lease: Mishler "F" # 1 Location: 1815 FNL & 1400 FEL  
SE/NE/SW/NE  
Section 15/ 17S/ 25W  
Ness County, KS

Loggers Total Depth: 4475' API#15- 135-25,599-00-00  
Rotary Total Depth: 4475' Elevation: 2441 GL / 2449 KB  
Commenced: 5/21/2013 Completed: 5/28/2013  
Casing: 8 5/8" @ 220.90'W/150sks Status: Oilwell  
5 1/2" @ 447.4'W/125sks  
(Port Collar @ 176.8')

### DEPTHS & FORMATIONS (All from KB)

Surface, Sand & Shale	<u>0'</u>	Shale	<u>1799'</u>
Dakota Sand	<u>1001'</u>	Shale & Lime	<u>2326'</u>
Shale	<u>1046'</u>	Shale	<u>2649'</u>
Cedar Hill Sand	<u>1263'</u>	Shale & Lime	<u>2978'</u>
Red Bed Shale	<u>1494'</u>	Lime & Shale	<u>3946'</u>
Anhydrite	<u>1768'</u>	RTD	<u>4475'</u>
Base Anhydrite	<u>1799'</u>		

STATE OF KANSAS )  
) ss  
COUNTY OF ELLIS )


Thomas H. Alm of Discovery Drilling states that to the best of his knowledge the above and foregoing is a true and correct log of the above captioned well.

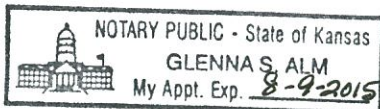
  
Thomas H. Alm

Subscribed and sworn to before me on 6-4-2013

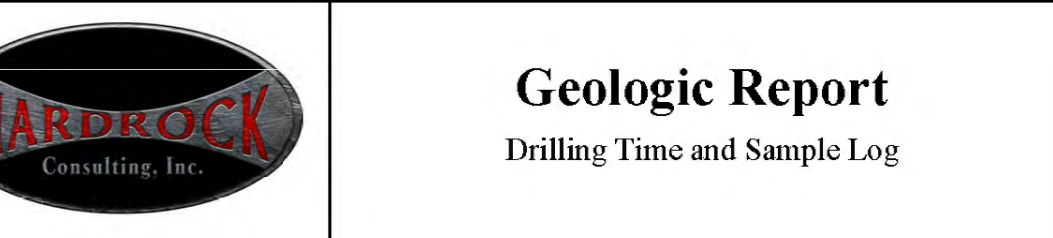
My Commission expires: 8-9-2015

(Place stamp or seal below)

  
Notary Public







**Geologic Report**  
Drilling Time and Sample Log

Operator <b>John O. Farmer, Inc.</b>		KB Elevation 2449'
Lease <b>Mishler F</b> No. <b>1</b>		DF GL 2441'
API # <b>15-135-25599-0000</b>		Casing Record Surface 8 5/8" @ 221'
Field <b>Wildcat</b>		Production 5 1/2" @ 4474'
Location <b>1815' FNL &amp; 1400' FEL</b>		Electrical Surveys CNL/CDL, DIL, MEL
Sec. <b>15</b>	Twp. <b>17s</b>	Rgc. <b>25w</b>
County <b>Ness</b> State <b>Kansas</b>		

Formation	Log Tops	Sample Tops	Struct Comp
Anhydrite	1765' +684	1767' +682	-3
Base	1796' +653	1799' +650	-5
Heebner	3778' -1329	3781' -1332	-6
Lansing	3818' -1369	3818' -1369	-7
BKc	4109' -1660	4113' -1664	-3
Pawnee	4236' -1787	4239' -1790	-3
Fort Scott	4310' -1861	4312' -1863	-4
Cherokee	4336' -1887	4338' -1889	-3
Mississippian	4404' -1955	4405' -1956	-1
Total Depth	4475' -2026	4475' -2026	

Reference Well For Structural Comparison **John O. Farmer, Inc. Mishler A #1**  
1770' FNL & 360' FWL Sec. 15 T17s R25w Ness Co. Kansas

Drilling Contractor **Discovery Drilling Co., Inc. Rig #3**  
 Commenced **5-21-2013** Completed **5-28-2013**  
 Samples Saved From **3750'** To **RTD**  
 Drilling Time Kept From **3650'** To **RTD**  
 Samples Examined From **3750'** To **RTD**  
 Geological Supervision From **4050'** To **RTD**

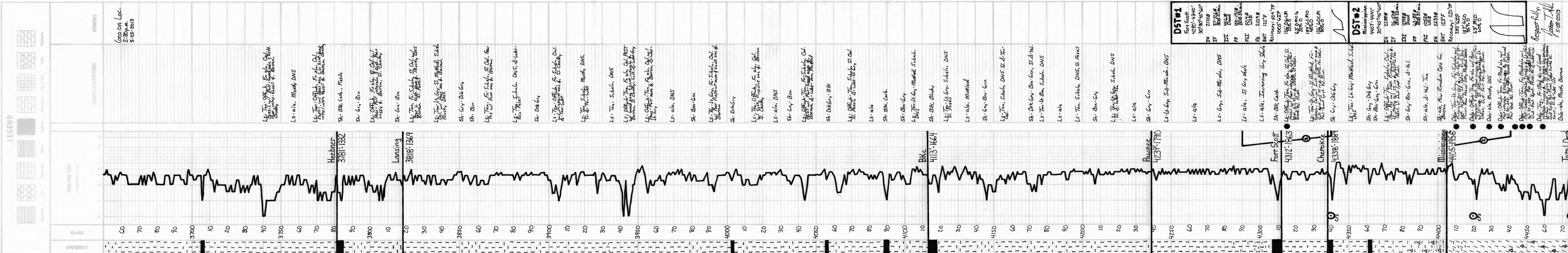
Displacement **3600'** Mud Type **Chemical**

**Summary and Recommendations**

The location for the Mishler F #1 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Two drill stem tests were conducted both which recovered commercial amounts of oil from the Fort Scott and the Mississippian Warsaw Formations. After all gathered data had been examined the decision was made to run 5 1/2 inch production casing to further evaluate the Mishler F #1 well.

- Perforations:
- Miss (4444'-4448') Not Tested
  - Miss (4431'-4437') DST #2
  - Miss (4418'-4422') DST #2
  - Fort Scott (4312'-4316') DST #1

Respectfully Submitted,  
  
 Jason T Alm  
 Hard Rock Consulting, Inc.







## DRILL STEM TEST REPORT

Prepared For: **John O Farmer, Inc**

PO Box 352  
Russell KS 67665-2635

ATTN: Jason Alm

### **Mishler F #1**

### **15-17s-25w Ness,KS**

Start Date: 2013.05.26 @ 13:15:00

End Date: 2013.05.26 @ 20:47:30

Job Ticket #: 53068                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.05.31 @ 11:03:08



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

John O Farmer, Inc  
 PO Box 352  
 Russell KS 67665-2635  
 ATTN: Jason Alm

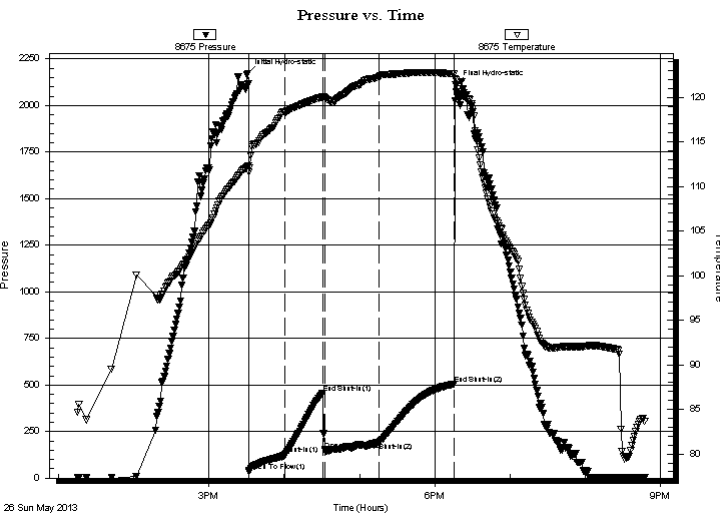
**15-17s-25w Ness, KS**  
**Mishler F #1**  
 Job Ticket: 53068 **DST#: 1**  
 Test Start: 2013.05.26 @ 13:15:00

## GENERAL INFORMATION:

Formation: **Fort Scott**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:31:30  
 Time Test Ended: 20:47:30  
 Interval: **4290.00 ft (KB) To 4340.00 ft (KB) (TVD)**  
 Total Depth: 4340.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jace McKinney  
 Unit No: 46  
 Reference Elevations: 2449.00 ft (KB)  
 2441.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8675 Inside**  
 Press @ Run Depth: 191.35 psig @ 4291.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.05.26 End Date: 2013.05.26 Last Calib.: 2013.05.26  
 Start Time: 13:15:15 End Time: 20:47:30 Time On Btm: 2013.05.26 @ 15:30:45  
 Time Off Btm: 2013.05.26 @ 18:16:30

**TEST COMMENT:** B.O.B. in 10 min.  
 Bled off for 5 min. No return blow  
 B.O.B. in 3 1/2 min.  
 Bled off for 5 min. Weak surface in 20 min, died in 45 min



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2172.49	112.28	Initial Hydro-static
1	37.10	111.60	Open To Flow (1)
30	125.74	118.20	Shut-In(1)
60	456.12	120.02	End Shut-In(1)
62	150.00	119.92	Open To Flow (2)
105	191.35	122.31	Shut-In(2)
165	504.24	122.60	End Shut-In(2)
166	2109.93	121.91	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
126.00	gcom 30%G 30%O 40%M	1.50
189.00	gcmo 30%G 30%M 40%O	2.65
63.00	mcog 15%M 20%O 65%G	0.88
126.00	ogm 20%O 80%M	1.77
0.00	1005 Feet Gas In Pipe	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

John O Farmer, Inc  
PO Box 352  
Russell KS 67665-2635  
ATTN: Jason Alm

15-17s-25w Ness, KS

Mishler F #1

Job Ticket: 53068

DST#: 1

Test Start: 2013.05.26 @ 13:15:00

## GENERAL INFORMATION:

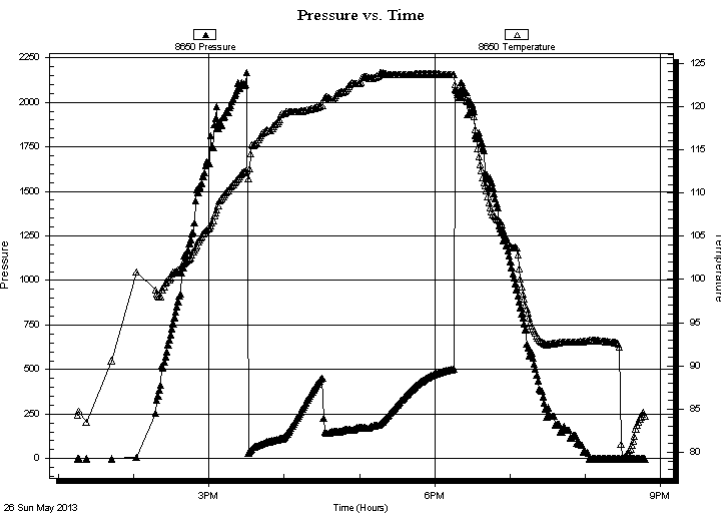
Formation: **Fort Scott**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:31:30  
 Time Test Ended: 20:47:30  
 Interval: **4290.00 ft (KB) To 4340.00 ft (KB) (TVD)**  
 Total Depth: 4340.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jace McKinney  
 Unit No: 46  
 Reference Elevations: 2449.00 ft (KB)  
 2441.00 ft (CF)  
 KB to GR/CF: 8.00 ft

Serial #: **8650**

Outside

Press @ Run Depth: psig @ 4291.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.05.26 End Date: 2013.05.26 Last Calib.: 2013.05.26  
 Start Time: 13:15:15 End Time: 20:47:15 Time On Btm:  
 Time Off Btm:

TEST COMMENT: B.O.B. in 10 min.  
 Bled off for 5 min. No return blow  
 B.O.B. in 3 1/2 min.  
 Bled off for 5 min. Weak surface in 20 min, died in 45 min



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
126.00	gcom 30%G 30%O 40%M	1.50
189.00	gcmo 30%G 30%M 40%O	2.65
63.00	mcog 15%M 20%O 65%G	0.88
126.00	ogm 20%O 80%M	1.77
0.00	1005 Feet Gas In Pipe	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

John O Farmer, Inc  
 PO Box 352  
 Russell KS 67665-2635  
 ATTN: Jason Alm

**15-17s-25w Ness, KS**  
**Mishler F #1**  
 Job Ticket: 53068      **DST#: 1**  
 Test Start: 2013.05.26 @ 13:15:00

**Tool Information**

Drill Pipe:	Length: 4248.76 ft	Diameter: 3.80 inches	Volume: 59.60 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 29.70 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 59.75 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.46 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4290.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	70.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Change Over Sub	1.00			4271.00	
Shut In Tool	5.00			4276.00	
Hydraulic tool	5.00			4281.00	
Packer	5.00			4286.00	20.00      Bottom Of Top Packer
Packer	4.00			4290.00	
Stubb	1.00			4291.00	
Recorder	0.00	8675	Inside	4291.00	
Recorder	0.00	8650	Outside	4291.00	
Perforations	13.00			4304.00	
Change Over Sub	1.00			4305.00	
Drill Pipe	31.00			4336.00	
Change Over Sub	1.00			4337.00	
Bullnose	3.00			4340.00	50.00      Bottom Packers & Anchor

**Total Tool Length: 70.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

John O Farmer, Inc  
PO Box 352  
Russell KS 67665-2635  
ATTN: Jason Alm

**15-17s-25w Ness,KS**  
**Mishler F #1**  
Job Ticket: 53068      **DST#: 1**  
Test Start: 2013.05.26 @ 13:15:00

## Mud and Cushion Information

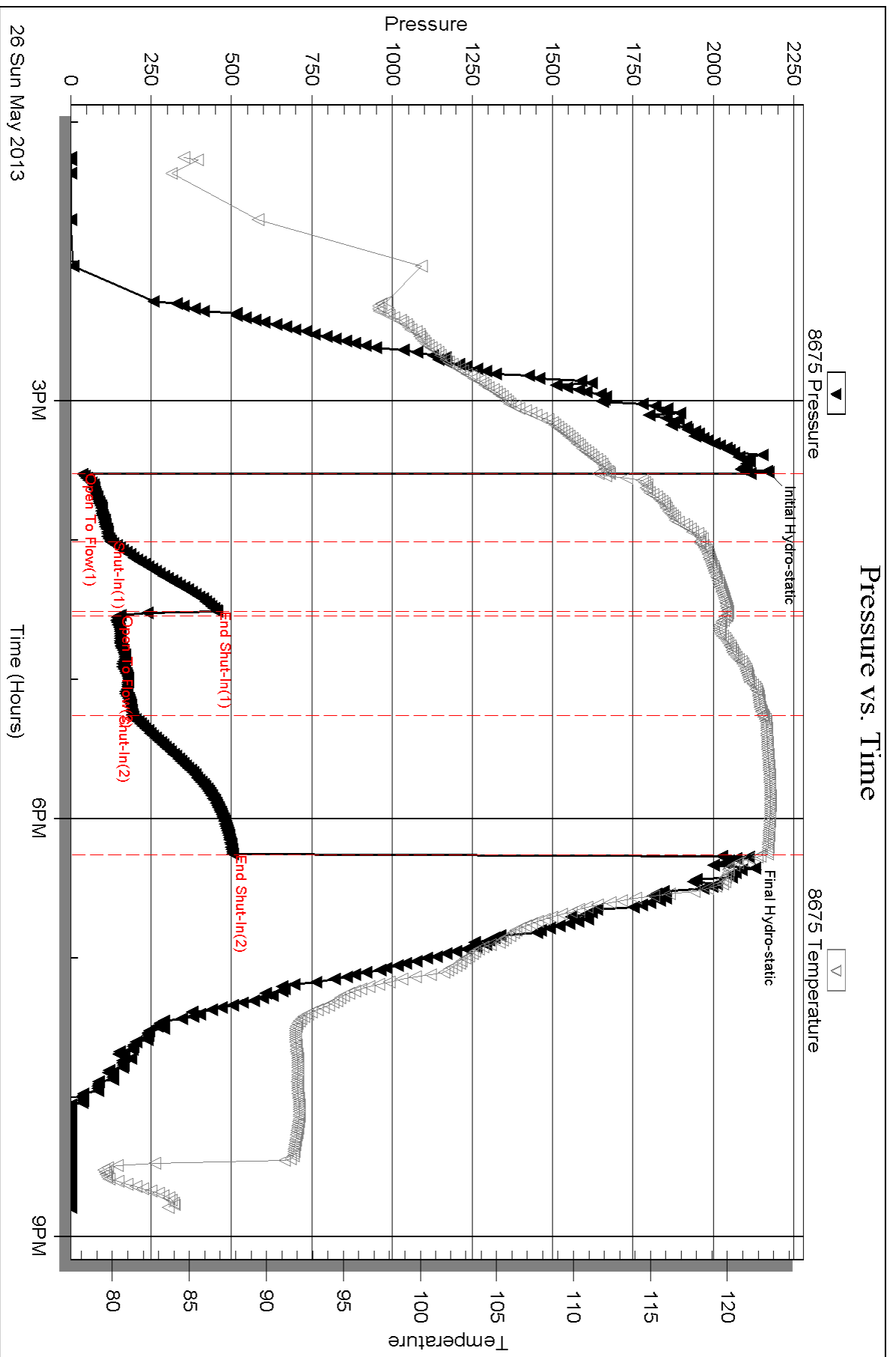
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	gcom 30%G 30%O 40%M	1.497
189.00	gcmo 30%G 30%M 40%O	2.651
63.00	mcog 15%M 20%O 65%G	0.884
126.00	ogm 20%O 80%M	1.767
0.00	1005 Feet Gas In Pipe	0.000

Total Length: 504.00 ft      Total Volume: 6.799 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

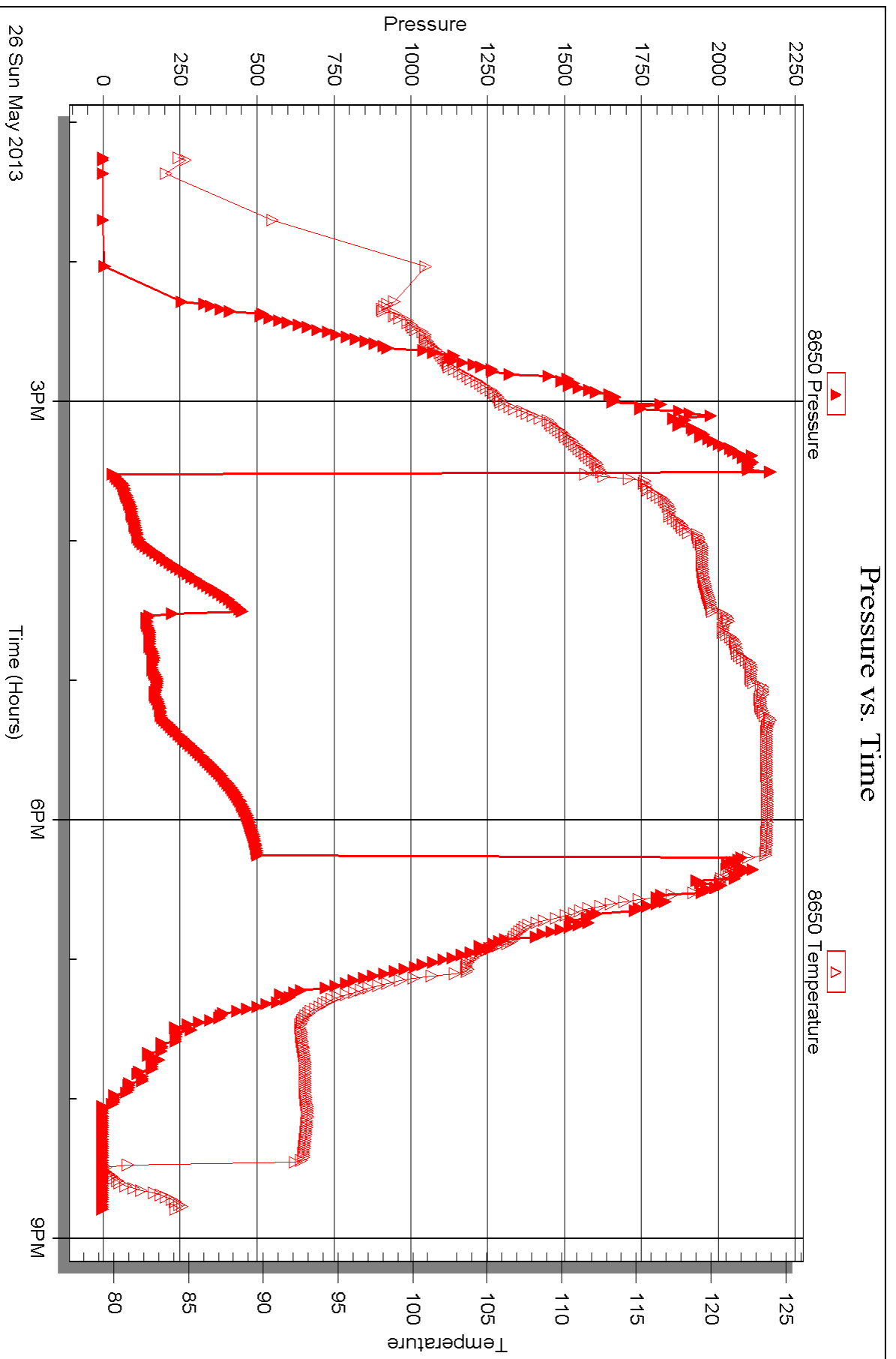


Serial #: 8650

Outside John O Farmer, Inc

Mshler F #1

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **John O Farmer, Inc**

PO Box 352  
Russell KS 67665-2635

ATTN: Jason Alm

### **Mishler F #1**

#### **15-17s-25w Ness,KS**

Start Date: 2013.05.27 @ 14:55:00

End Date: 2013.05.27 @ 22:06:30

Job Ticket #: 53069                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.05.31 @ 11:01:29

John O Farmer, Inc  
15-17s-25w Ness,KS  
Mishler F #1  
DST # 2  
Miss  
2013.05.27





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

John O Farmer, Inc  
 PO Box 352  
 Russell KS 67665-2635  
 ATTN: Jason Alm

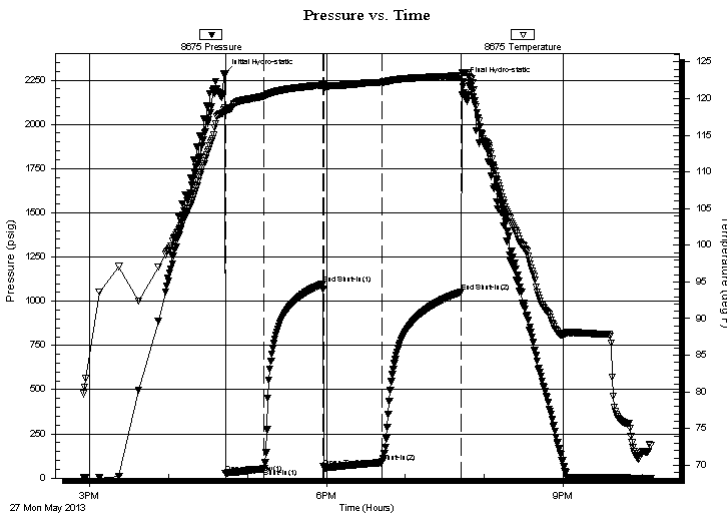
**15-17s-25w Ness, KS**  
**Mishler F #1**  
 Job Ticket: 53069 **DST#: 2**  
 Test Start: 2013.05.27 @ 14:55:00

## GENERAL INFORMATION:

Formation: **Miss**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:43:00  
 Time Test Ended: 22:06:30  
 Interval: **4407.00 ft (KB) To 4441.00 ft (KB) (TVD)**  
 Total Depth: 4475.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Straddle (Reset)  
 Tester: Jace McKinney  
 Unit No: 46  
 Reference Elevations: 2449.00 ft (KB)  
 2441.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8675 Inside**  
 Press @ Run Depth: 87.99 psig @ 4408.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.05.27 End Date: 2013.05.27 Last Calib.: 2013.05.27  
 Start Time: 14:55:15 End Time: 22:06:30 Time On Btm: 2013.05.27 @ 16:42:45  
 Time Off Btm: 2013.05.27 @ 19:43:30

**TEST COMMENT:** B.O.B. in 23 min.  
 Bled off for 5 min. No return blow  
 B.O.B. in 37 min.  
 Bled off for 5 min. Weak surface return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2288.48	118.75	Initial Hydro-static
1	26.77	118.10	Open To Flow (1)
30	52.61	120.31	Shut-In(1)
75	1097.92	121.82	End Shut-In(1)
75	63.62	121.43	Open To Flow (2)
120	87.99	122.21	Shut-In(2)
180	1052.61	123.09	End Shut-In(2)
181	2238.87	123.53	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
63.00	mco 40%M 60%O	0.61
157.00	gco 5%G 95%O	2.20
0.00	282 Feet Gas In Pipe	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE**  
**TESTING, INC.**

**DRILL STEM TEST REPORT**

John O Farmer, Inc  
PO Box 352  
Russell KS 67665-2635  
ATTN: Jason Alm

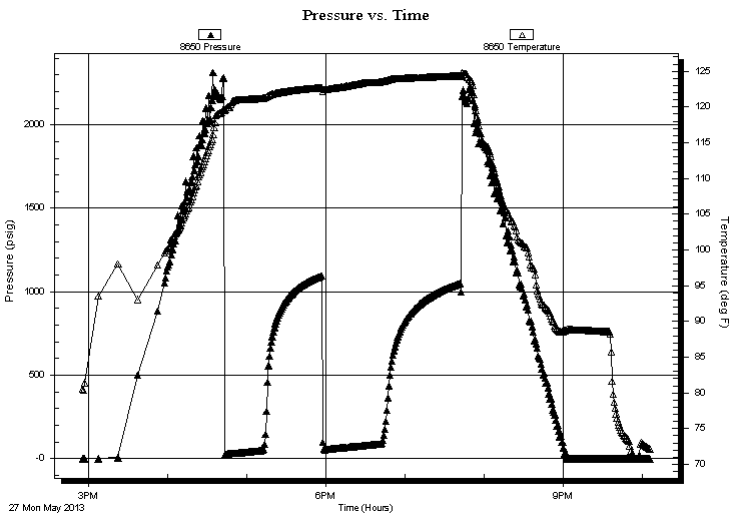
**15-17s-25w Ness,KS**  
**Mishler F #1**  
Job Ticket: 53069      **DST#: 2**  
Test Start: 2013.05.27 @ 14:55:00

**GENERAL INFORMATION:**

Formation: **Miss**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 16:43:00  
Time Test Ended: 22:06:30  
Interval: **4407.00 ft (KB) To 4441.00 ft (KB) (TVD)**  
Total Depth: 4475.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Reference Elevations: 2449.00 ft (KB)  
2441.00 ft (CF)  
KB to GR/CF: 8.00 ft  
Test Type: Conventional Straddle (Reset)  
Tester: Jace McKinney  
Unit No: 46

**Serial #: 8650**      **Outside**  
Press @ Run Depth:      psig @ 4408.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2013.05.27      End Date: 2013.05.27      Last Calib.: 1899.12.30  
Start Time: 14:55:15      End Time: 22:06:15      Time On Btm:  
Time Off Btm:

**TEST COMMENT:** B.O.B. in 23 min.  
Bled off for 5 min. No return blow  
B.O.B. in 37 min.  
Bled off for 5 min. Weak surface return blow



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

**Recovery**

Length (ft)	Description	Volume (bbl)
63.00	mco 40%M 60%O	0.61
157.00	gco 5%G 95%O	2.20
0.00	282 Feet Gas In Pipe	0.00

\* Recovery from multiple tests

**Gas Rates**

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

John O Farmer, Inc  
 PO Box 352  
 Russell KS 67665-2635  
 ATTN: Jason Alm

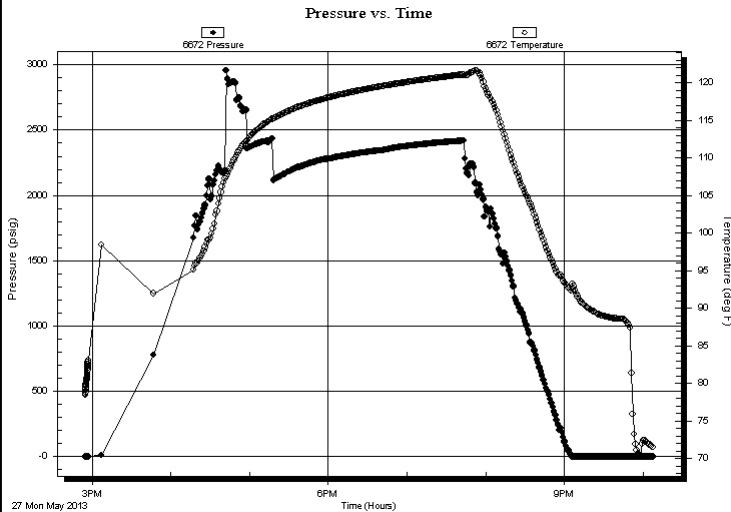
**15-17s-25w Ness,KS**  
**Mishler F #1**  
 Job Ticket: 53069 **DST#: 2**  
 Test Start: 2013.05.27 @ 14:55:00

## GENERAL INFORMATION:

Formation: **Miss**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:43:00  
 Time Test Ended: 22:06:30  
**Interval: 4407.00 ft (KB) To 4441.00 ft (KB) (TVD)**  
 Total Depth: 4475.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 Test Type: Conventional Straddle (Reset)  
 Tester: Jace McKinney  
 Unit No: 46  
 Reference Elevations: 2449.00 ft (KB)  
 2441.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6672 Below (Straddle)**  
 Press @ Run Depth: psig @ 4448.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.05.27 End Date: 2013.05.27 Last Calib.: 2013.05.27  
 Start Time: 14:55:01 End Time: 22:07:45 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** B.O.B. in 23 min.  
 Bled off for 5 min. No return blow  
 B.O.B. in 37 min.  
 Bled off for 5 min. Weak surface return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
63.00	mco 40%M 60%O	0.61
157.00	gco 5%G 95%O	2.20
0.00	282 Feet Gas In Pipe	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

John O Farmer, Inc  
 PO Box 352  
 Russell KS 67665-2635  
 ATTN: Jason Alm

**15-17s-25w Ness, KS**  
**Mishler F #1**  
 Job Ticket: 53069      **DST#: 2**  
 Test Start: 2013.05.27 @ 14:55:00

**Tool Information**

Drill Pipe:	Length: 4375.75 ft	Diameter: 3.80 inches	Volume: 61.38 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 29.70 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 61.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.45 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4407.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	4441.00 ft			
Interval between Packers:	34.00 ft			
Tool Length:	93.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Shut In Tool	5.00			4392.00	
Hydraulic tool	5.00			4397.00	
Jars	0.00			4397.00	
Safety Joint	0.00		Fluid	4397.00	
Packer	5.00			4402.00	20.00      Bottom Of Top Packer
Packer	5.00			4407.00	
Stubb	1.00			4408.00	
Recorder	0.00	8675	Inside	4408.00	
Recorder	0.00	8650	Outside	4408.00	
Perforations	32.00			4440.00	
Change Over Sub	0.00			4440.00	
drill Pipe	0.00			4440.00	
change Over Sub	0.00			4440.00	
Perforations	0.00			4440.00	
Blank Off Sub	1.00			4441.00	34.00      Tool Interval
Packer	5.00			4446.00	
Stubb	1.00			4447.00	
Change Over Sub	1.00			4448.00	
Recorder	0.00	6672	Below	4448.00	
Drill Pipe	32.00			4480.00	
Change Over Sub	0.00			4480.00	
Bullnose	0.00			4480.00	39.00      Bottom Packers & Anchor

**Total Tool Length: 93.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

John O Farmer, Inc  
 PO Box 352  
 Russell KS 67665-2635  
 ATTN: Jason Alm

**15-17s-25w Ness,KS**  
**Mishler F #1**  
 Job Ticket: 53069      **DST#: 2**  
 Test Start: 2013.05.27 @ 14:55:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 38 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.78 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5000.00 ppm		
Filter Cake: inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	mco 40%M 60%O	0.613
157.00	gco 5%G 95%O	2.202
0.00	282 Feet Gas In Pipe	0.000

Total Length: 220.00 ft      Total Volume: 2.815 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: API 39 @ 70 F = 38



Serial #: 8675

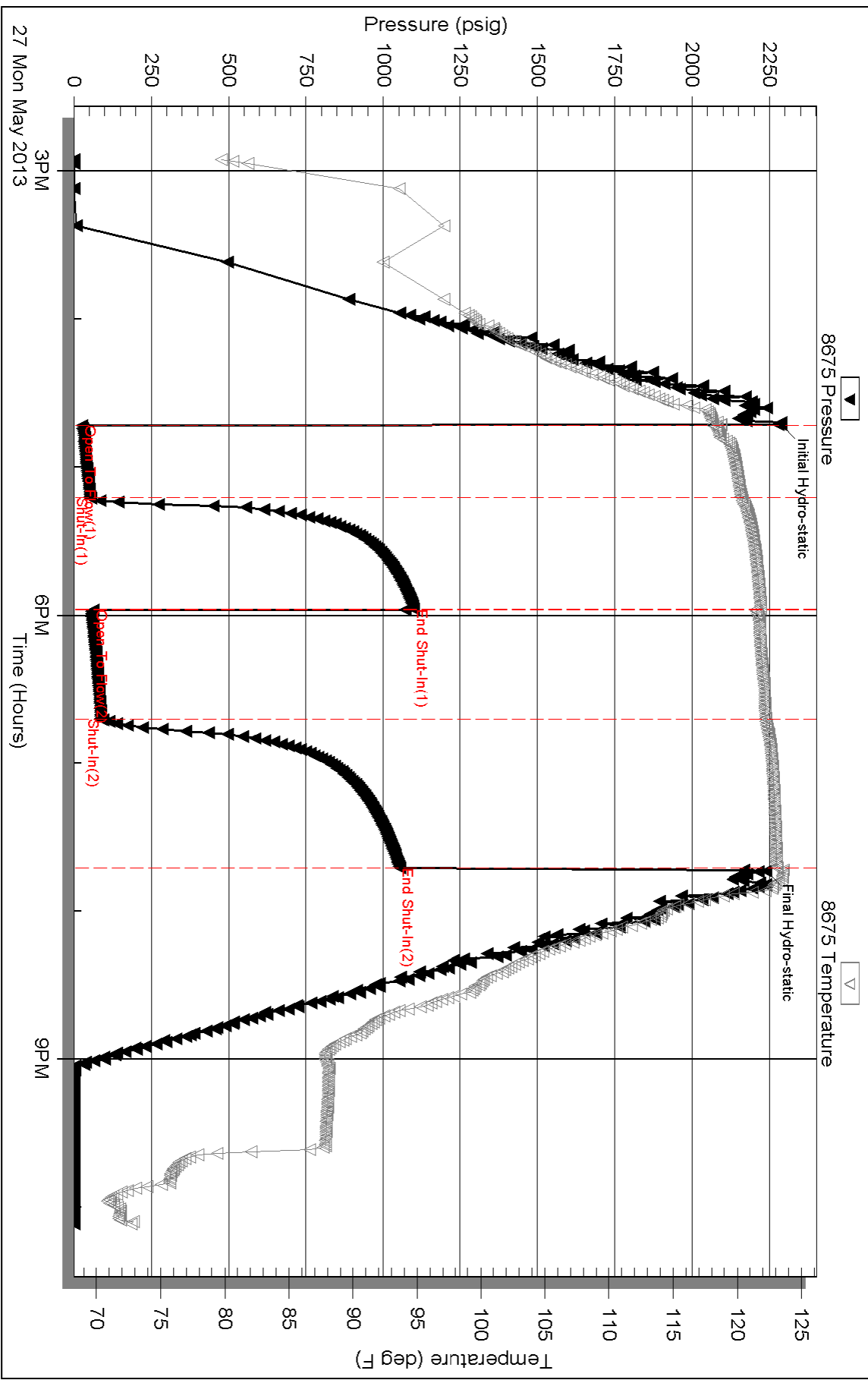
Inside

John O Farmer, Inc

Mshler F #1

DST Test Number: 2

### Pressure vs. Time

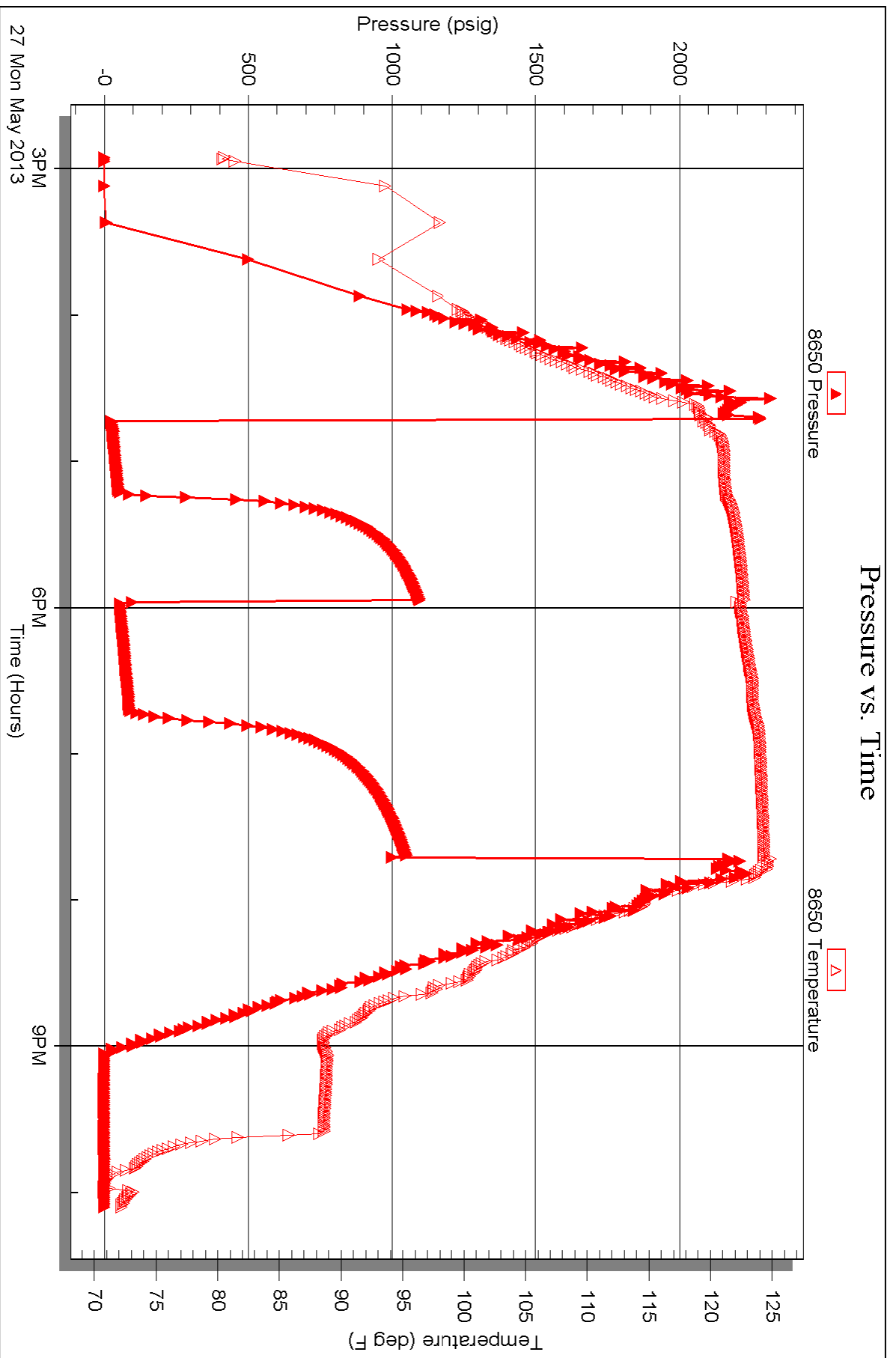


Serial #: 8650

Outside John O Farmer, Inc

Mshler F #1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 53069

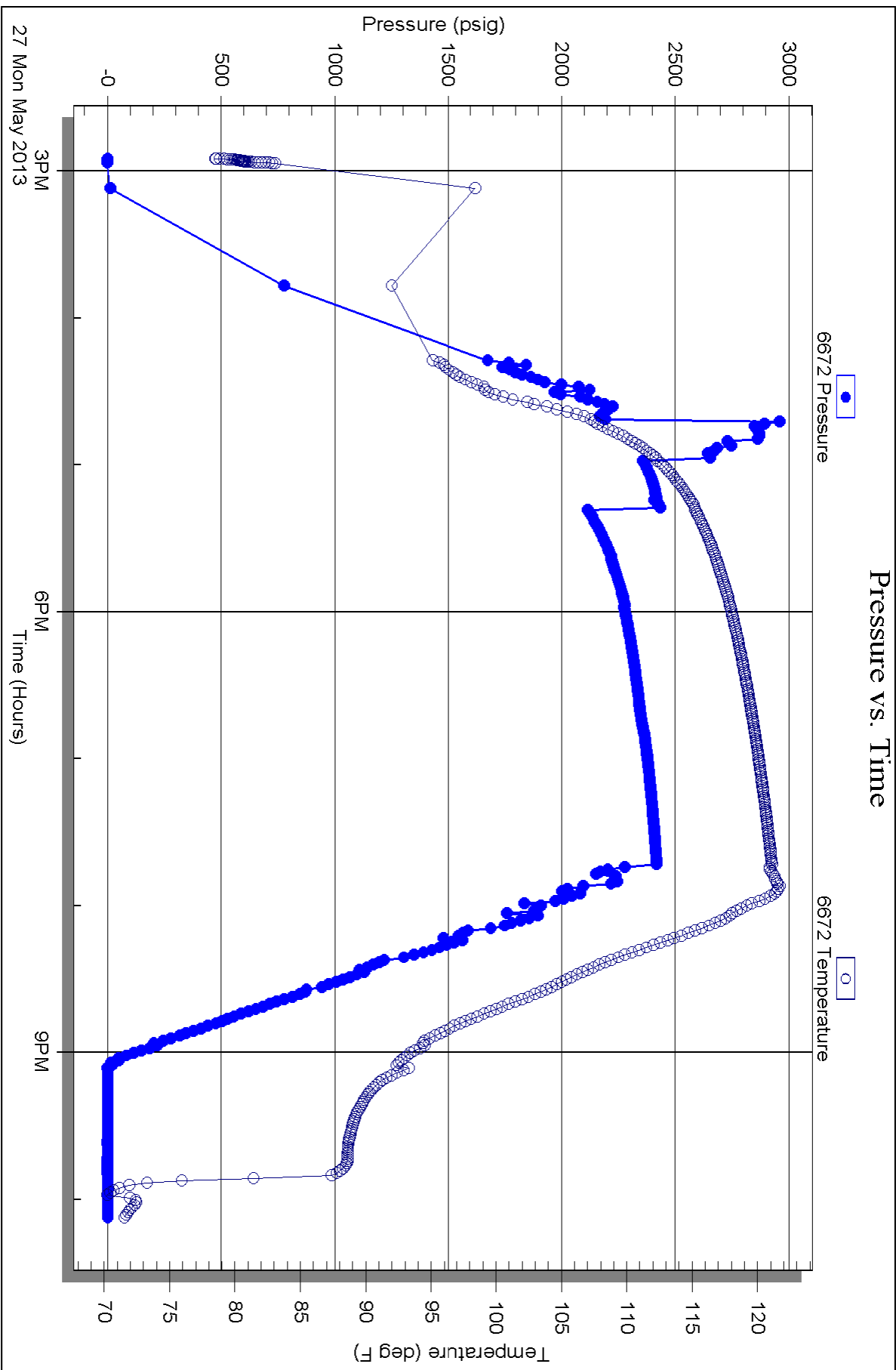
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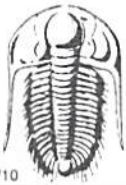
Serial #: 6672

Below (Straddled) Farmer, Inc

Mshler F #1

DST Test Number: 2





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53068

Well Name & No. Mighler F # 1 Test No. 1 Date 5/26/13  
 Company John O Farmer, Inc Elevation 2449 KB 2441 GL  
 Address 370 W Wichita Ave, Po Box 352, Russell KS 67665-2635  
 Co. Rep / Geo. Jason Alm Rig Discovery Rig 3  
 Location: Sec. 15 Twp. 12s Rge. 25w Co. Ness Co. State KS

Interval Tested 4290 - 4340 Zone Tested Fort Scott  
 Anchor Length 50 Drill Pipe Run 4248.76 Mud Wt. 9.4  
 Top Packer Depth 4286 Drill Collars Run 29.90 Vis 55  
 Bottom Packer Depth 4290 Wt. Pipe Run \_\_\_\_\_ WL 8.8  
 Total Depth 4340 Chlorides 5,000 ppm System LCM 1#

Blow Description B.O.B. in 10 min.  
Bled off for 5 min. No return below  
B.O.B. in 3 1/2 min.  
Bled off for 5 min. weak surface in 20 min, died in 45 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>0</u>	<u>1005 Feet Gas In Pipe</u>				
<u>126</u>	<u>0 gm</u>		<u>20</u>		<u>80</u>
<u>63</u>	<u>mcoo</u>	<u>65</u>	<u>20</u>		<u>15</u>
<u>189</u>	<u>gcmo</u>	<u>30</u>	<u>40</u>		<u>30</u>
<u>126</u>	<u>gcom</u>	<u>30</u>	<u>30</u>		<u>40</u>

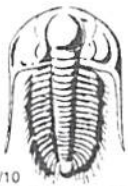
Rec Total 504 BHT 123 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2,172  Test 1250 T-On Location 12:20  
 (B) First Initial Flow 37  Jars \_\_\_\_\_ T-Started 13:15  
 (C) First Final Flow 126  Safety Joint \_\_\_\_\_ T-Open 15:31  
 (D) Initial Shut-In 456  Circ Sub N/C T-Pulled 18:16  
 (E) Second Initial Flow 150  Hourly Standby \_\_\_\_\_ T-Out 20:47  
 (F) Second Final Flow 191  Mileage 130 RT 201.50  
 (G) Final Shut-In 504  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2,110  Straddle \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Flow 45  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Shut-In 60  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1451.50  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1451.50

Approved By \_\_\_\_\_ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of 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 statements or opinion concerning the results 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.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53069

Well Name & No. Mishler F # 1 Test No. 2 Date 5/27/13  
 Company John O Farmer, Inc Elevation 2449 KB 2441 GL  
 Address 370 W Wichita Ave, Po Box 352, Russell KS 67665-2635  
 Co. Rep / Geo. Jason Alm Rig Discovery Rig 3  
 Location: Sec. 15 Twp. 17s Rge. 25w Co. Ness Co. State KS

Interval Tested 4407-4441 TP 4475 Zone Tested Miss  
 Anchor Length 34 Anchor 34 1/2 pipe Drill Pipe Run 4375.25 Mud Wt. 9.4  
 Top Packer Depth 4402 Drill Collars Run 29.70 Vis 56  
 Bottom Packer Depth 4407 Wt. Pipe Run \_\_\_\_\_ WL 8.8  
 Total Depth 4475 Chlorides 5000 ppm System LCM 2#

Blow Description B.O.B. in 23 min.  
Bled off for 5 min. No return below

B.O.B. in 37 min.  
Bled off for 5 min. Weak surface return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>0</u>	<u>282 Feet Gas In Pipe</u>				
<u>157</u>	<u>600</u>	<u>5</u>	<u>95</u>		
<u>63</u>	<u>MCO</u>		<u>60</u>		<u>40</u>
____	____	____	____	____	____
____	____	____	____	____	____

Rec Total 220 BHT 123 Gravity 38 API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2,288  Test 1250 T-On Location 13:40  
 (B) First Initial Flow 27  Jars \_\_\_\_\_ T-Started 14:55  
 (C) First Final Flow 53  Safety Joint \_\_\_\_\_ T-Open 16:48  
 (D) Initial Shut-In 1,098  Circ Sub NIC T-Pulled 19:43  
 (E) Second Initial Flow 64  Hourly Standby \_\_\_\_\_ T-Out 22:06  
 (F) Second Final Flow 88  Mileage 130 RT 201.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 1,053  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2,239  Straddle 600  Ruined Shale Packer \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 45  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Flow 45  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Shut-In 60  Day Standby \_\_\_\_\_ Total 2051.50  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 2051.50

Approved By \_\_\_\_\_ Our Representative

Triobite Testing Inc. shall not be liable for damaged of any kind of 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 statements or opinion concerning the results 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.