



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1137206
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: _____



1137206

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 <i>(Attach Additional Sheets)</i>	<input 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 type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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

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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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

April 30, 2013

Leon Rodak
Murfin Drilling Co., Inc.
250 N WATER STE 300
WICHITA, KS 67202-1216

Re: ACO1
API 15-153-20916-00-00
Gilbert 1-27
SE/4 Sec.27-04S-31W
Rawlins 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,
Leon Rodak

Gilbert #1-27 2300' FSL 1000' FEL Sec. 27-4S-31W 2914' KB						Daisy #1-27 2200' FNL 2200' FEL Sec. 27-4S-31W 2926' KB		
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	2663	+251	+4	2659	+255	+8	2679	+247
B/Anhydrite	2695	+219	+5	2691	+223	+9	2712	+214
Topeka	3724	-810	+8	3722	-808	+10	3744	-818
Heebner	3888	-974	+8	3889	-975	+7	3908	-982
Lansing	3938	-1024	+8	3938	-1024	+8	3958	-1032
Stark	4105	-1191	+10	4105	-1191	+10	4127	-1201
BKC	4150	-1236	+9	4154	-1240	+5	4171	-1245
Pawnee	4268	-1354	+6	4266	-1352	+8	4286	-1360
Cherokee	4350	-1436	+9	4351	-1437	+8	4371	-1445
Mississippi	4462	-1548	+10	4466	-1552	+6	4484	-1558
RTD	4565						4550	
LTD				4565			4554	

Robert L. Milford

PETROLEUM GEOLOGIST
Wichita, Kansas

GEOLOGISTS REPORT
DRILLING TIME AND SAMPLE LOG

OPERATOR: **Murfin Drilling Company, Inc.**
LEASE: **Gilbert #1-27**
LOC. SPOT: **10'S S & 10' W of NW/NE SE**

LOC. FOOTAGE: **2,300' FSL 1,000' FEL**
SEC: **27** TWP: **4S** RNG: **31W**
COUNTY: **Rovillo** STATE: **Kansas**
API: **15-153-20916-00-00**

CONTRACTOR: **Murfin Drilling Co., Inc.** RIG NO.: **8**
DRILLING STARTED: **1-8-2013** COMPLETED: **1-17-2013**
MUD DISPLAYED: **3/179'** MUD TYPE: **Chemical**
DRILLING TIME KEPT FROM: **3/640'** TO: **RTD**
SAMPLES SAVED FROM: **3/640'** TO: **RTD**
SAMPLES EXAMINED FROM: **3/640'** TO: **RTD**
GEOLOGICAL SUPERVISION FROM: **3/628'** TO: **RTD**

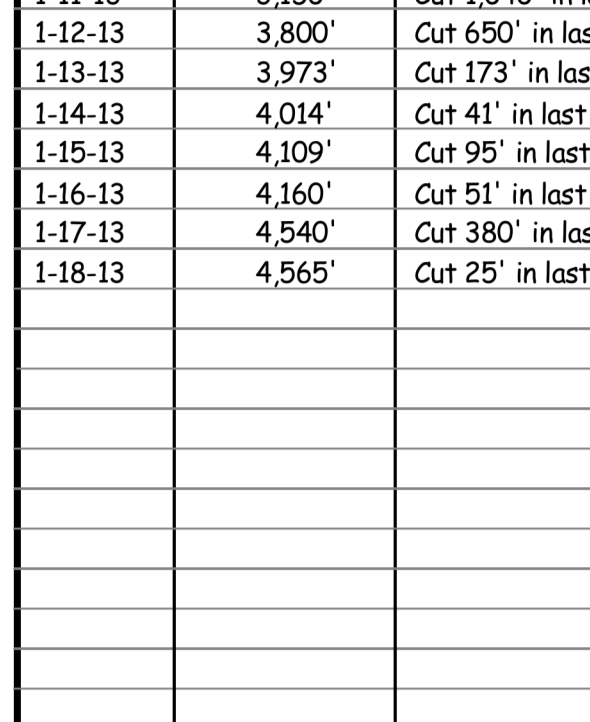
FORMATION NAME: **TOP LOG DATUM** SAMPLE TOP DATUM

Stone Corral	2,659'	+255	2,663'	+251
Lopeka	3,122'	-808	3,722'	-808
Hebner	3,889'	-975	3,888'	-974
Lansing	3,938'	-1024	3,937'	-1023
Stark	4,105'	-1191	4,105'	-1191
B/KC	4,153'	-1239	4,153'	-1239
Pawnee	4,266'	-1352	4,266'	-1352
Cherokee	4,351'	-1437	4,350'	-1436
Mississippi	4,466'	-1552	4,465'	-1551
Total Depth	4,565'	-1651	4,565'	-1651

ELEVATIONS
KB: **2,914'**
GL: **2,909'**

CASING RECORD
Conductor:
Surface: **8.5/8" @ 217'**
w/ 190 sacks cement
Production: **5.1/2" @ 495'**
w/ 175 sacks cement

ELECTRICAL SURVEYS
Pioneer Wireline:
Dial Induction Log
Dial Compensated -



DATE	7:00 AM DEPTH	REMARKS
1-8-13	0'	Spud @ 4:30 pm. Plug down @ 9:00 pm. Started drilling out plug @ 5:00 am on 1-9-13
1-9-13	320'	Cut 320' in last 24 hrs.
1-10-13	2,110'	Cut 1,790' in last 24 hrs; 22.75 hrs drlg.
1-11-13	3,150'	Cut 1,040' in last 24 hrs; 22.5 hrs drlg.
1-12-13	3,800'	Cut 650' in last 24 hrs; 22.75 hrs drlg. DST #1 @ 3973'
1-13-13	3,973'	Cut 173' in last 24 hrs; 7.25 hrs drlg. DST #2 @ 4014'
1-14-13	4,014'	Cut 41' in last 24 hrs; 2.75 hrs drlg. DST #3 @ 4109'
1-15-13	4,109'	Cut 95' in last 24 hrs; 5.5 hrs drlg. DST #4 @ 4160'
1-16-13	4,160'	Cut 51' in last 24 hrs; 2.75 hrs drlg.
1-17-13	4,540'	Cut 380' in last 24 hrs; 22.5 hrs drlg. RTD 4565' @ 8:17 am
1-18-13	4,565'	Cut 25' in last 24 hrs; 1.25 hrs drlg. Ran production casing.

Remarks

The electric log measurements correlate from 4' higher to 1' lower to the drilling measurements.

Formation tops and lithology on this report have been corrected to the electric log.

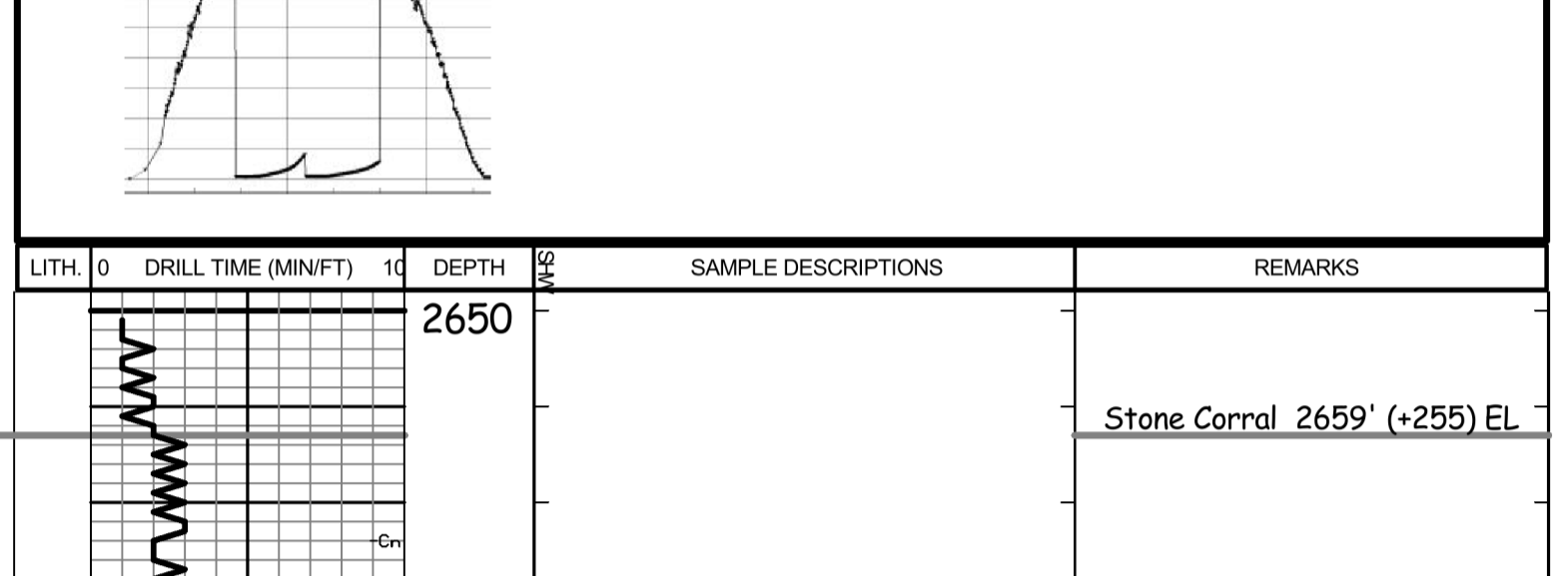
The drilling samples were deposited at the Kansas Geological Survey office in Wichita.

Respectfully submitted,

Robert L. Milford

Drill Stem Test Charts

Drill Stem Test by Trilobite Testing, Inc.



LITH.	0	DRILL TIME (MIN/FT)	10	DEPTH	SAMPLE DESCRIPTIONS	REMARKS
				2650		Stone Corral 2659' (+255) EL
				2700		B/Stone Corral 2691' (+223) EL



Sh: gry, red-brn
LS: crm-lt gry, fxln, fos in prt, sli shly in prt, sub chky-prtly dns w/ some chky, pr por, NS

Sh: gry-grn, red-brn, soft & gummy in prt
LS: lt gry, fxln, sli shly in prt, sub chky-prtly dns, pr por, NS

Sh: red-brn, mostly soft & gummy

LS: wh-crm, fxln, fos in prt, vry chky-prtly dns, some pr-fr fos-vug por, NS

LS: crm-lt gry, fxln, sli shly in prt, sub chky-prtly dns, pr por, NS

Sh: red-brn, some calc
LS: lt gry-tan, fxln, sli shly in prt, sub chky-prtly dns, pr por, NS

Sh: red-brn & gry-grn, some soft & gummy

Sh: red-brn, soft & gummy in prt

LS: wh-tan, fxln, shly in prt (red-brn, mottled), vry chky-prtly dns, pr por, NS

LS: wh-lt gry, fxln, sli fos, vry chky-prtly dns, mstly pr w/ some fr fos-vug por, NS

Calc Sd: crm-lt gry, fr-vry fr grain, some shly, soft-brittle, pr vis por, NS

Sh: red-brn, sdy in prt, soft & gummy in prt

LS: wh-crm, fxln, fos in prt, vry chky-prtly dns, pr por, NS

LS: A.A., pr por, NS

LS: crm-lt gry, fxln, sli fos, sub chky-prtly dns w/ some chky-vry chky, pr por, NS

Sh: Black Carb
LS: gry-brn, fxln, fos in prt, sli shly in prt, sub chky-prtly dns, pr por, NS
Sd: lt-med gry, fr-vry fr grain, some shly, soft-brittle, pr vis por, NS

Sh: red-brn & Sdy Sh: lt grn

LS: crm-lt gry, fxln, sli fos, sub chky-prtly dns w/ some chky, pr por, NS

Sh: red-brn, soft & gummy in prt

LS: wh-crm, fxln, fos in prt, vry chky-prtly dns, pr por, NS

LS: lt gry, fxln, soft & gummy in prt

LS: wh-crm, fxln, sli fos, vry chky-prtly dns, pr fos por, vry scat med-drk brn spdt-sub sat stn & blk ash spdt stn, 1 pc w/ SSFO, no odor

LS: wh-lt gry, fxln, sli fos, vry chky-prtly dns, pr por, rare brn-blk spdt stn (A.A.), NSFO, no odor

LS: wh-lt gry, fxln, sli fos, sli pyr, vry chky-prtly dns, tr small vug por, NS

Sh: Black Carb
LS: tan-brn, fxln, sli fos, prtly dns, pr por, NS

Sh: mostly red-brn & lt gry, soft & gummy in prt, w/ small amt of Sd: lt-med gry, fr-vry fr grain, sli calc, some shly, soft-brittle, pr vis por, NS

Sh: red-brn, some soft & gummy, some gry-grn

LS: wh-crm, fxln, ool in prt, sub chky-prtly dns, pr w/ tr fr intprt por, scat med-drk brn spdt-sub sat stn, S-FSFO, fr odor

Sh: red-brn, some soft & gummy, some gry-grn

LS: wh-tan, fxln, sli fos, sub chky-dns w/ some chky-vry chky, pr-fr w/ some gd intprt-vug por, scat med-drk brn spdt-sub sat stn, S-FSFO, fr odor

LS: crm-lt gry, fxln, prtly dns, pr por, tr brn spdt stn, NSFO, no odor

LS: crm-tan, fxln, fos in prt, sub chky-prtly dns, pr-fr fos-small vug por, scat lt-med brn spdt-sub sat stn, S-FSFO, no odor

Sh: red-brn, soft & gummy in prt, some gry & grn

LS: wh-tan, fxln, fos-ool (small) in prt, sub chky-prtly dns, fr w/ some gd intprt-vug por, fr amnt lt-drk brn spdt-sub sat stn, SSFO, no odor

Sh: red-brn, soft & gummy in prt, some gry & grn

LS: wh-tan, fxln, fos-ool in prt, sli chty (wh-crm), sli pyr, chky-prtly dns w/ some vry chky, pr-fr w/ some gd intprt por, scat lt-drk brn spdt-sub sat stn & some blk tartry spdt stn, SSFO, no odor

LS: crm-lt gry, fxln, sub chky-prtly dns, tr vug por w/ brn spdt stn, NSFO, no odor

Sh: Black Carb & drk gry

LS: tan-brn, fxln, sli fos, prtly dns, pr por, NS

Sh: red-brn, soft & gummy in prt, w/ gry & grn

LS: wh-tan, fxln, sli fos, tr calcite, sub chky-prtly dns w/ some chky, fr-vry fr grain, scat lt-med brn spdt-sub sat stn, S-FSFO, fr odor

LS: crm-gry, fxln, sub chky-prtly dns, pr por, NS

LS: brn, fxln, fos (fus), prtly dns, pr por, NS

Sh: red-brn, gry, some grn

LS: wh-lt gry, fxln, sli fos, sli chty (wh), chky-dns, pr fos w/ tr vug por, scat lt-med brn spdt-sub sat stn & some edge stn, SSFO w/ few pcd FS, no odor

Sh: med-drk gry, red-brn, & lt gry, soft & gummy

Sh: red-brn, soft & gummy in prt, some sdy, some gry & grn

LS: wh-crm, fxln, ool-fos in prt, chky-prtly dns, pr w/ tr fr intprt por, scat lt-med brn spdt-sub sat stn, S-FSFO (mstly pin point beads), no odor

LS: crm-lt gry, fxln, sub chky-prtly dns, pr por, NS

Sh: lt gry, soft & gummy, w/ drk gry, red-brn, grn

LS: crm-gry, fxln, fos in prt, shly in prt, sub chky-prtly dns w/ some chky, pr por, NS

LS: A.A., incrs gry-tan, fxln, prt dns, pr por, NS

Sh: gry-grn, some sdy

Sh: red-brn, soft & gummy in prt, gry, grn, some brn

LS: wh-lt gry, fxln, ool-fos in prt, sli chty (wh-lt gry), sub chky-prtly dns w/ some chky-vry chky, pr por, NS

Sh: lt gry, soft & gummy, red-brn, gry, grn, w/ some Calc Sh: gummy

Sh: red-brn, soft & gummy in prt, some gry & grn

LS: crm-gry, fxln, ool-fos in prt, shly in prt (red-brn, mottled), sub chky-prtly dns, pr por, NS

Sh: red-brn, gry, grn

LS: crm-lt gry, fxln, fos-ool in prt, shly in prt (red-brn, mottled), sub chky-prtly dns, pr por, NS

Sh: red-brn, gry, some grn

Sh: red-brn, gry, grn, some brn

LS: wh-tan, fxln, fos-ool in prt, sli chty (tan), sub chky-prtly dns w/ some chky-vry chky, pr por, NS

Sh: red-brn, gry, some drk gry

Sh: med-drk gry, some red-brn, grn

Sh: Black Carb

LS: crm-tan, fxln, fos, sub chky-prtly dns, pr por, NS

LS: crm-tan, fxln, ool-fos in prt, chky-prtly dns w/ some vry chky, pr por, NS

Shly LS: gry, fxln, gritty-prtly dns, pr por, NS

Sh: med-drk gry

Sh: Black Carb

Sh: lt gry, soft & gummy, gry-grn, red-brn

LS: crm-tan, fxln, ool in prt, some sdy, sub chky-prtly dns w/ some chky, pr por, NS

Sh: red-brn, soft & gummy in prt, w/ gry & grn, some red-brn

LS: crm-tan, fxln, fos-ool in prt, sub chky-prtly dns, pr por, rare dead brn spdt stn, NSFO, no odor

Sd: crm to red-brn, fr-med w/ some crs grains, calc, shly in prt, semi fri-brittle, pr vis por, NS

Sh: lt grn, soft & gummy, gry-grn, sdy in prt

LS: crm-tan, fxln, sli fos, sub chky-prtly dns, pr por, NS

Sh: red-brn, soft & gummy in prt, w/ gry & grn, some yell-grn

LS: A.A.

Sh: red-brn, gry, grn, w/ small amt Sd: clr-wh, fr-med grain, semi fri, pr vis por, NS, w/ some loose crs grains, sub rnd-sub ang, NS

Sh: gry, grn, red-brn, w/ small amt Sd: A.A.

Sh: red-brn, soft & gummy in prt, some sdy, some gry & grn, tr yell & purple, w/ some sdy, fr-med w/ some crs grain, sli calc, mstly brittle, pr vis por, NS, & some loose crs grains, sub rnd-sub ang, NS

Shly Sd: red-brn, fr-med grain, semi fri, pr vis por, NS, W/ Sh: Sd: A.A.

Sh: red-brn, soft & gummy in prt, some sdy, some gry, grn, tr yell, w/ some Sd: clr-wh, fr-med grain, semi fri-brittle, pr vis por, w/ some loose crs grains, sub rnd-sub ang, NS

Sh: red-brn, soft & gummy in prt, gry, grn, some yell, small amt Sd: A.A., & cht: wh-yell, fresh & weathered, some semi transl, pr vis por, NS

Ch: mstly wh-crm, some yell-org, fresh & weathered, some fos, some semi transl, pin point por in weathered cht, NS

LS: crm-lt gry, fxln, sub chky-dns, pr por, NS, w/ Ch: A.A., NS

LS: wh-tan, fxln, sub chky-dns w/ some chky-vry chky, pr por, NS, intermixed w/ Ch: mstly wh-crm, fresh & weathered, some fos, some semi transl, some pin point por in weathered cht, NS

LS: & cht: A.A., w/ tr glauc on cht

LS: wh-crm, fxln, chky-prtly dns, pr por, NS, intermixed w/ Ch: wh-crm, fresh & weathered, some semi transl, some pin point por in weathered cht, NS

LS & cht: A.A. w/ incrs amt Sh: gry, grn, red-brn

Dol: crm-tan, fxln, some sli suc, prtly dns, tr vug por, NS

Dol: A.A. w/ some med xln, chty (wh-crm, fresh), some vug por, NS

Ran 12 stand short trip @ TD, prior to running electric logs

L.T.D. 4565' (-1651)
R.T.D. 4565' (-1651)
Straight Hole Survey @ 4565': 1.5' Dev.



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE 300
Wichita KS 67202

ATTN: Rocky Milford

Gilbert #1-27

27-4s-31w Rawlins,KS

Start Date: 2013.01.13 @ 02:18:00

End Date: 2013.01.13 @ 13:26:30

Job Ticket #: 49004 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.01.18 @ 13:06:44



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co.

27-4s-31w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Gilbert #1-27

Job Ticket: 49004

DST#: 1

ATTN: Rocky Milford

Test Start: 2013.01.13 @ 02:18:00

GENERAL INFORMATION:

Formation: **Toronto-Lan B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:45:00

Time Test Ended: 13:26:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Wilbur Steinbeck

Unit No: 40

Interval: 3887.00 ft (KB) To 3973.00 ft (KB) (TVD)

Reference Elevations: 2914.00 ft (KB)

Total Depth: 3973.00 ft (KB) (TVD)

2909.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8360

Inside

Press @ Run Depth: 822.76 psig @ 3888.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.13

End Date: 2013.01.13

Last Calib.: 2013.01.13

Start Time: 02:18:15

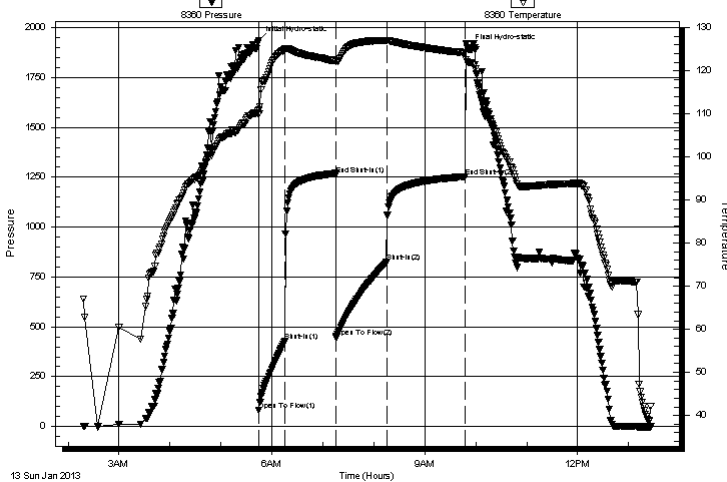
End Time: 13:26:30

Time On Btm: 2013.01.13 @ 05:44:15

Time Off Btm: 2013.01.13 @ 09:51:00

TEST COMMENT: 30 IF; BOB in 2 min
60 IS; Built to 2"
60 FF; BOB in 1 1/2 min
90 FS; Built to 5"

Pressure vs. Time



PRESSURE SUMMARY

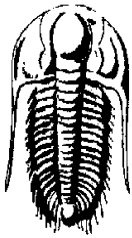
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1936.15	110.85	Initial Hydro-static
1	81.07	110.08	Open To Flow (1)
31	426.46	124.99	Shut-In(1)
91	1260.95	122.31	End Shut-In(1)
92	448.79	122.16	Open To Flow (2)
151	822.76	127.02	Shut-In(2)
243	1253.39	124.15	End Shut-In(2)
247	1892.83	121.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	OMCW 5%O 10%M 85%W	1.84
1533.00	Reversed Out	21.50
45.00	Oil 100%	0.63

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co.

27-4s-31w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Gilbert #1-27

Job Ticket: 49004

DST#: 1

ATTN: Rocky Milford

Test Start: 2013.01.13 @ 02:18:00

GENERAL INFORMATION:

Formation: **Toronto-Lan B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:45:00

Time Test Ended: 13:26:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Wilbur Steinbeck

Unit No: 40

Interval: 3887.00 ft (KB) To 3973.00 ft (KB) (TVD)

Total Depth: 3973.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2914.00 ft (KB)

2909.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8353 Outside

Press @RunDepth: psig @ 3888.00 ft (KB)

Start Date: 2013.01.13

End Date: 2013.01.13

Capacity: 8000.00 psig

Last Calib.: 2013.01.13

Start Time: 02:18:15

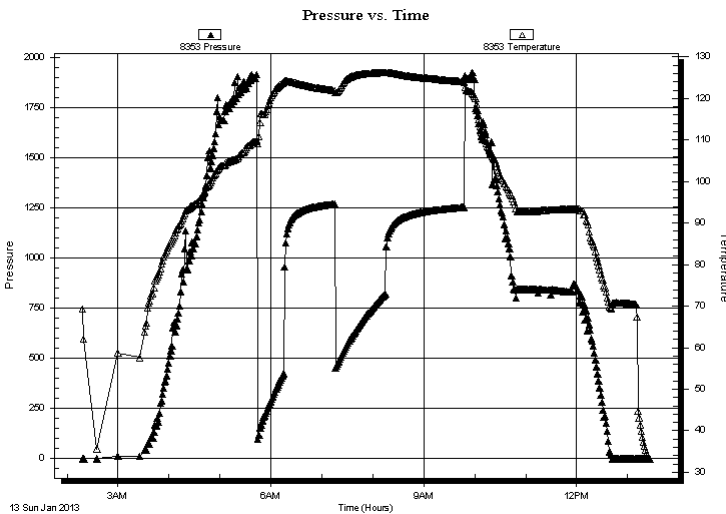
End Time: 13:26:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 IF; BOB in 2 min
60 IS; Built to 2"
60 FF; BOB in 1 1/2 min
90 FS; Built to 5"

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
248.00	OMCW 5%O 10%M 85%W	1.84
1533.00	Reversed Out	21.50
45.00	Oil 100%	0.63

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

27-4s-31w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Gilbert #1-27

Job Ticket: 49004

DST#: 1

ATTN: Rocky Milford

Test Start: 2013.01.13 @ 02:18:00

Tool Information

Drill Pipe:	Length: 3694.00 ft	Diameter: 3.80 inches	Volume: 51.82 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 69000.00 lb
			<u>Total Volume: 52.71 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3887.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	86.00 ft			
Tool Length:	113.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3861.00	
Shut In Tool	5.00			3866.00	
Hydraulic tool	5.00			3871.00	
Jars	5.00			3876.00	
Safety Joint	2.00			3878.00	
Packer	5.00			3883.00	27.00 Bottom Of Top Packer
Packer	4.00			3887.00	
Stubb	1.00			3888.00	
Recorder	0.00	8360	Inside	3888.00	
Recorder	0.00	8353	Outside	3888.00	
Perforations	18.00			3906.00	
Change Over Sub	1.00			3907.00	
Drill Pipe	62.00			3969.00	
Change Over Sub	1.00			3970.00	
Bullnose	3.00			3973.00	86.00 Bottom Packers & Anchor

Total Tool Length: 113.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

27-4s-31w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Gilbert #1-27

Job Ticket: 49004

DST#: 1

ATTN: Rocky Milford

Test Start: 2013.01.13 @ 02:18:00

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: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	OMCW 5%O 10%M 85%W	1.839
1533.00	Reversed Out	21.504
45.00	Oil 100%	0.631

Total Length: 1826.00 ft Total Volume: 23.974 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

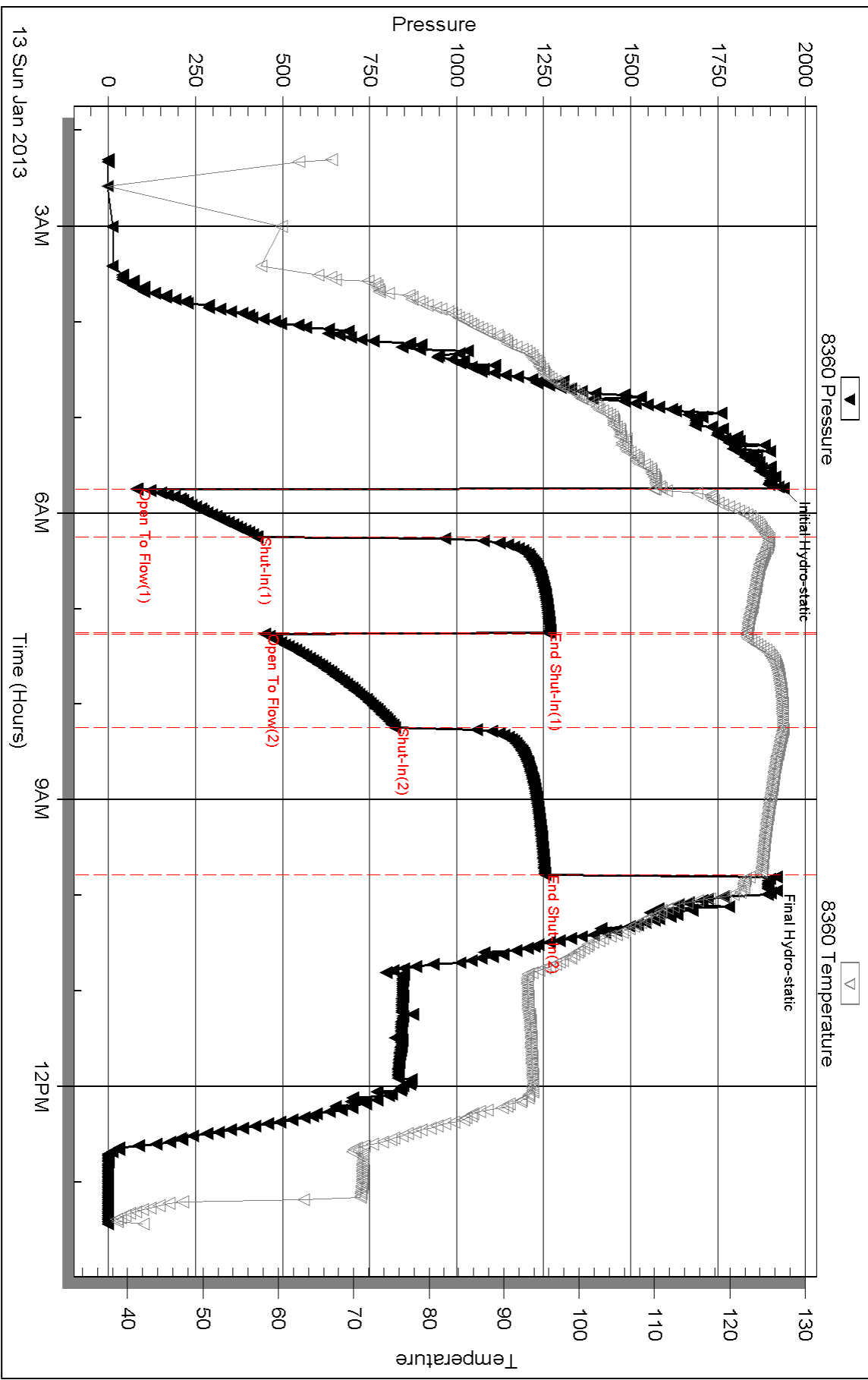
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

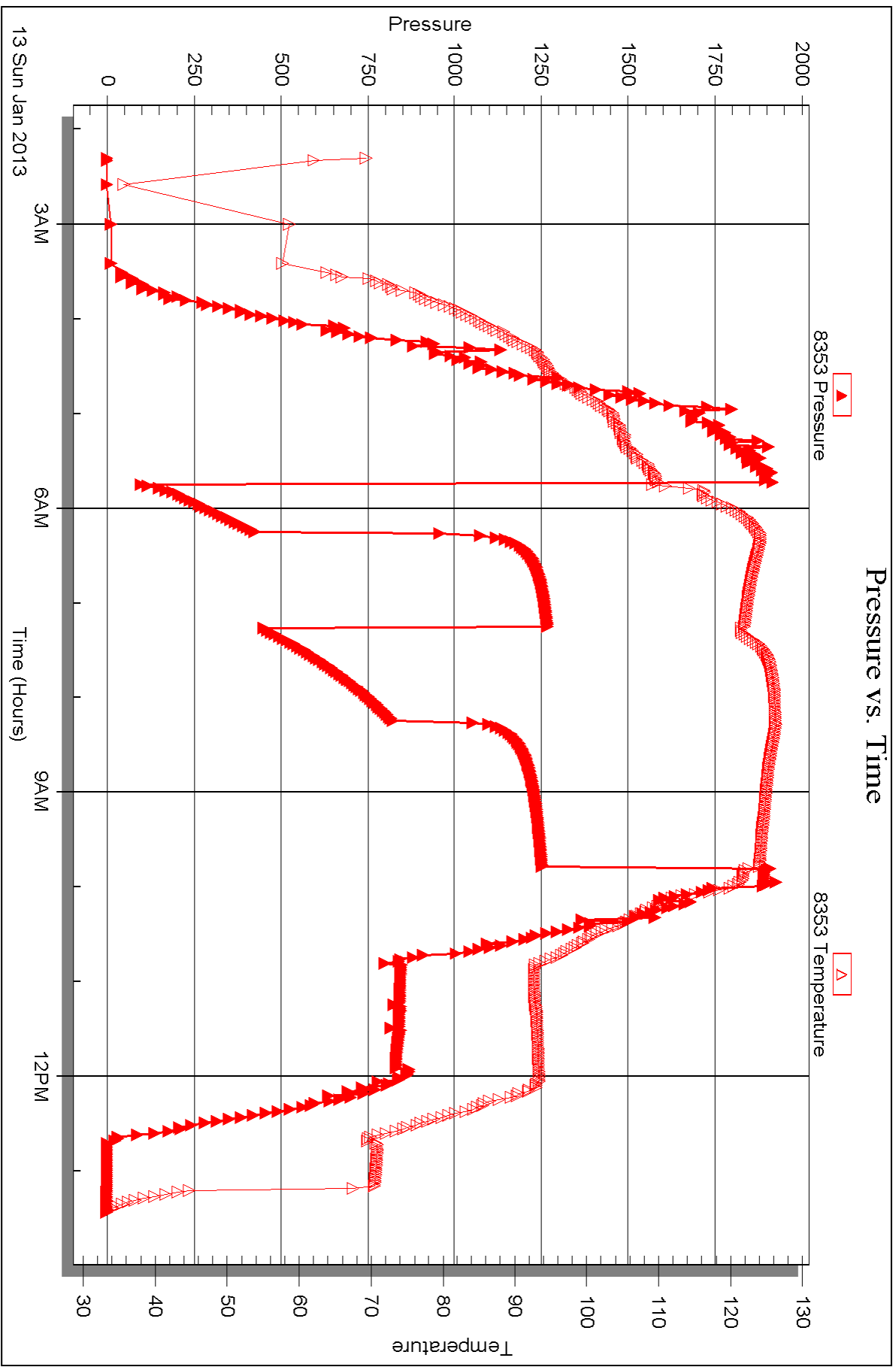


Serial #: 8353

Outside Murfin Drilling Co.

Gilbert #1-27

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE 300
Wichita KS 67202

ATTN: Rocky Milford

Gilbert #1-27

27-4s-31w Rawlins,KS

Start Date: 2013.01.13 @ 23:55:00

End Date: 2013.01.14 @ 09:22:15

Job Ticket #: 49005 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.01.18 @ 13:06:03



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co.

27-4s-31w Rawlins, KS

250 N Water STE 300
Wichita KS 67202

Gilbert #1-27

Job Ticket: 49005

DST#: 2

ATTN: Rocky Milford

Test Start: 2013.01.13 @ 23:55:00

GENERAL INFORMATION:

Formation: **LKC E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:24:45

Time Test Ended: 09:22:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Wilbur Steinbeck

Unit No: 40

Interval: 3987.00 ft (KB) To 4014.00 ft (KB) (TVD)

Reference Elevations: 2914.00 ft (KB)

Total Depth: 4014.00 ft (KB) (TVD)

2909.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8360

Inside

Press @ Run Depth: 148.23 psig @ 3988.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.13

End Date:

2013.01.14

Last Calib.: 2013.01.14

Start Time: 23:55:15

End Time:

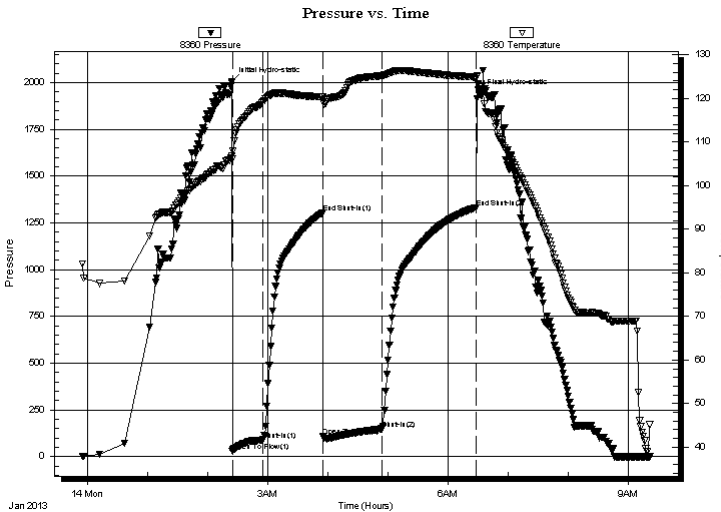
09:22:15

Time On Btm: 2013.01.14 @ 02:24:00

Time Off Btm: 2013.01.14 @ 06:32:15

TEST COMMENT: 30 IF; BOB in 5 1/2 min
60 ISI; Built to 4"
60 FF; BOB in 5 min
90 FSI; Built to 5" died to 1"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2003.20	106.70	Initial Hydro-static
1	29.58	106.12	Open To Flow (1)
31	88.81	119.01	Shut-In(1)
91	1302.98	120.30	End Shut-In(1)
92	109.30	119.25	Open To Flow (2)
150	148.23	125.22	Shut-In(2)
245	1331.90	124.90	End Shut-In(2)
249	1942.88	122.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	WGOCM 2%W 28%G 30%O 40%M	0.97
127.00	GO 40%G 60%O	1.78
744.00	Gas In Pipe	10.44

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co.

27-4s-31w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Gilbert #1-27

Job Ticket: 49005

DST#: 2

ATTN: Rocky Milford

Test Start: 2013.01.13 @ 23:55:00

GENERAL INFORMATION:

Formation: **LKC E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:24:45

Time Test Ended: 09:22:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Wilbur Steinbeck

Unit No: 40

Interval: **3987.00 ft (KB) To 4014.00 ft (KB) (TVD)**

Reference Elevations: 2914.00 ft (KB)

Total Depth: 4014.00 ft (KB) (TVD)

2909.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8353 Outside

Press @RunDepth: psig @ 3988.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.13 End Date: 2013.01.14

Last Calib.: 2013.01.14

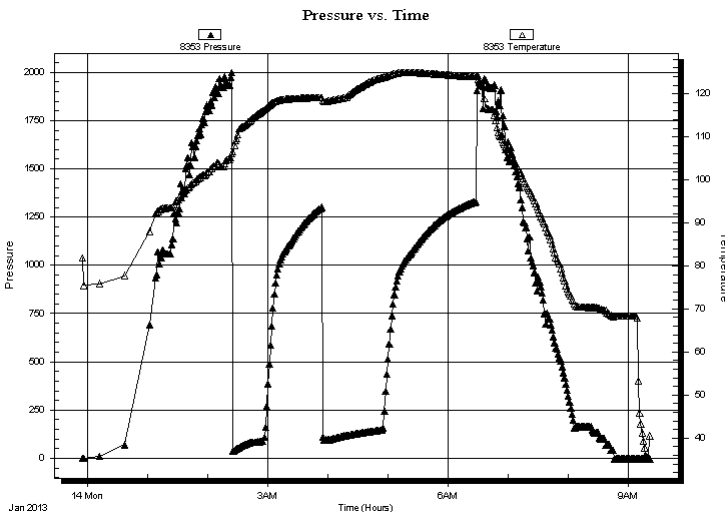
Start Time: 23:55:15 End Time: 09:22:15

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 IF; BOB in 5 1/2 min
60 IS; Built to 4"
60 FF; BOB in 5 min
90 FS; Built to 5" died to 1"

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
186.00	WGOCM 2%W 28%G 30%O 40%M	0.97
127.00	GO 40%G 60%O	1.78
744.00	Gas In Pipe	10.44

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

27-4s-31w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Gilbert #1-27

Job Ticket: 49005

DST#: 2

ATTN: Rocky Milford

Test Start: 2013.01.13 @ 23:55:00

Tool Information

Drill Pipe:	Length: 3786.00 ft	Diameter: 3.80 inches	Volume: 53.11 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose:	lb
			<u>Total Volume: 54.00 bbl</u>	Tool Chased	2.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	3987.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	27.00 ft				
Tool Length:	54.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3961.00	
Shut In Tool	5.00			3966.00	
Hydraulic tool	5.00			3971.00	
Jars	5.00			3976.00	
Safety Joint	2.00			3978.00	
Packer	5.00			3983.00	27.00 Bottom Of Top Packer
Packer	4.00			3987.00	
Stubb	1.00			3988.00	
Recorder	0.00	8360	Inside	3988.00	
Recorder	0.00	8353	Outside	3988.00	
Perforations	23.00			4011.00	
Bullnose	3.00			4014.00	27.00 Bottom Packers & Anchor

Total Tool Length: 54.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

27-4s-31w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Gilbert #1-27

Job Ticket: 49005

DST#: 2

ATTN: Rocky Milford

Test Start: 2013.01.13 @ 23:55:00

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: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	WGOCM 2%W 28%G 30%O 40%M	0.969
127.00	GO 40%G 60%O	1.781
744.00	Gas In Pipe	10.436

Total Length: 1057.00 ft Total Volume: 13.186 bbl

Num Fluid Samples: 0

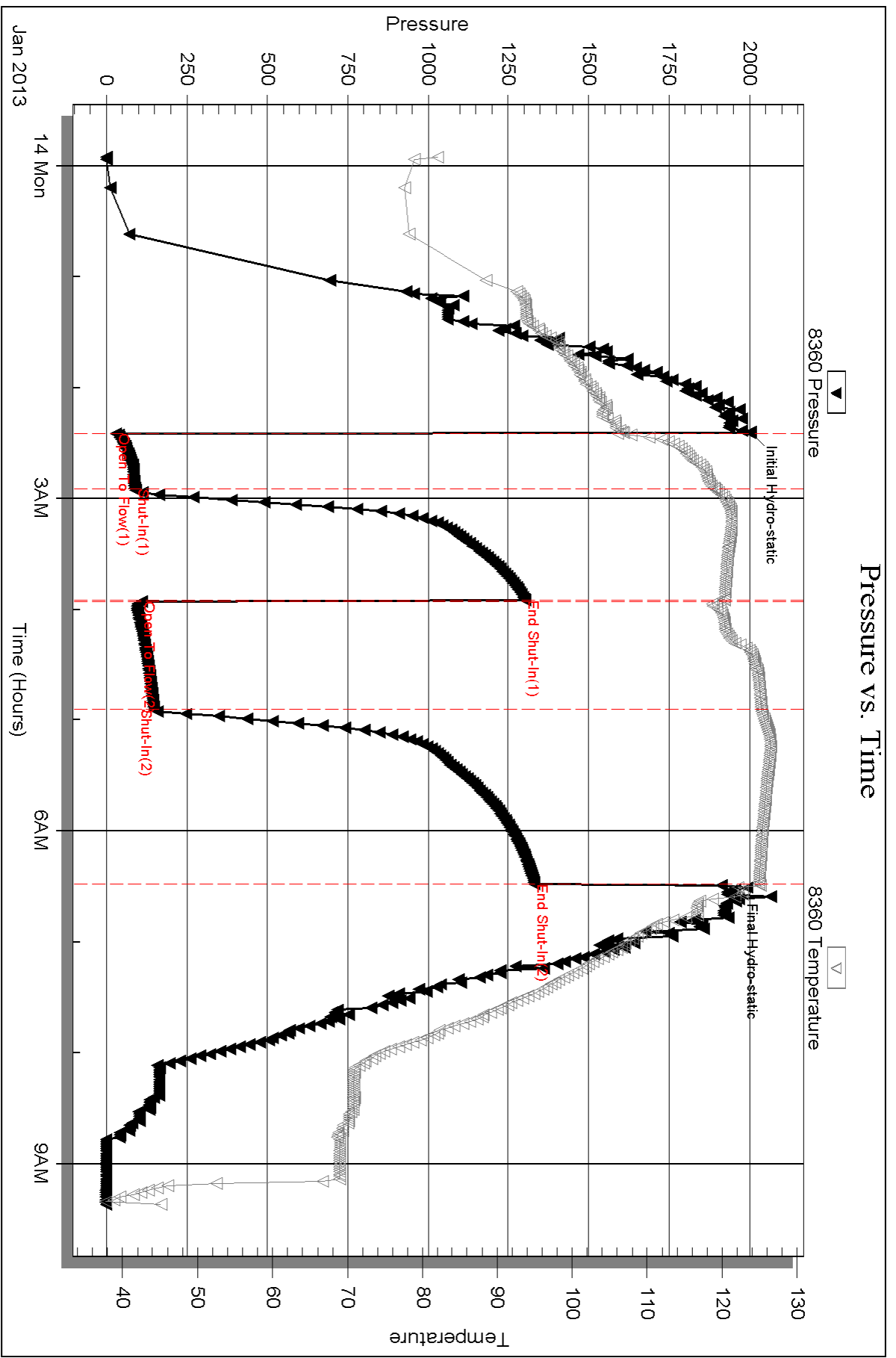
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

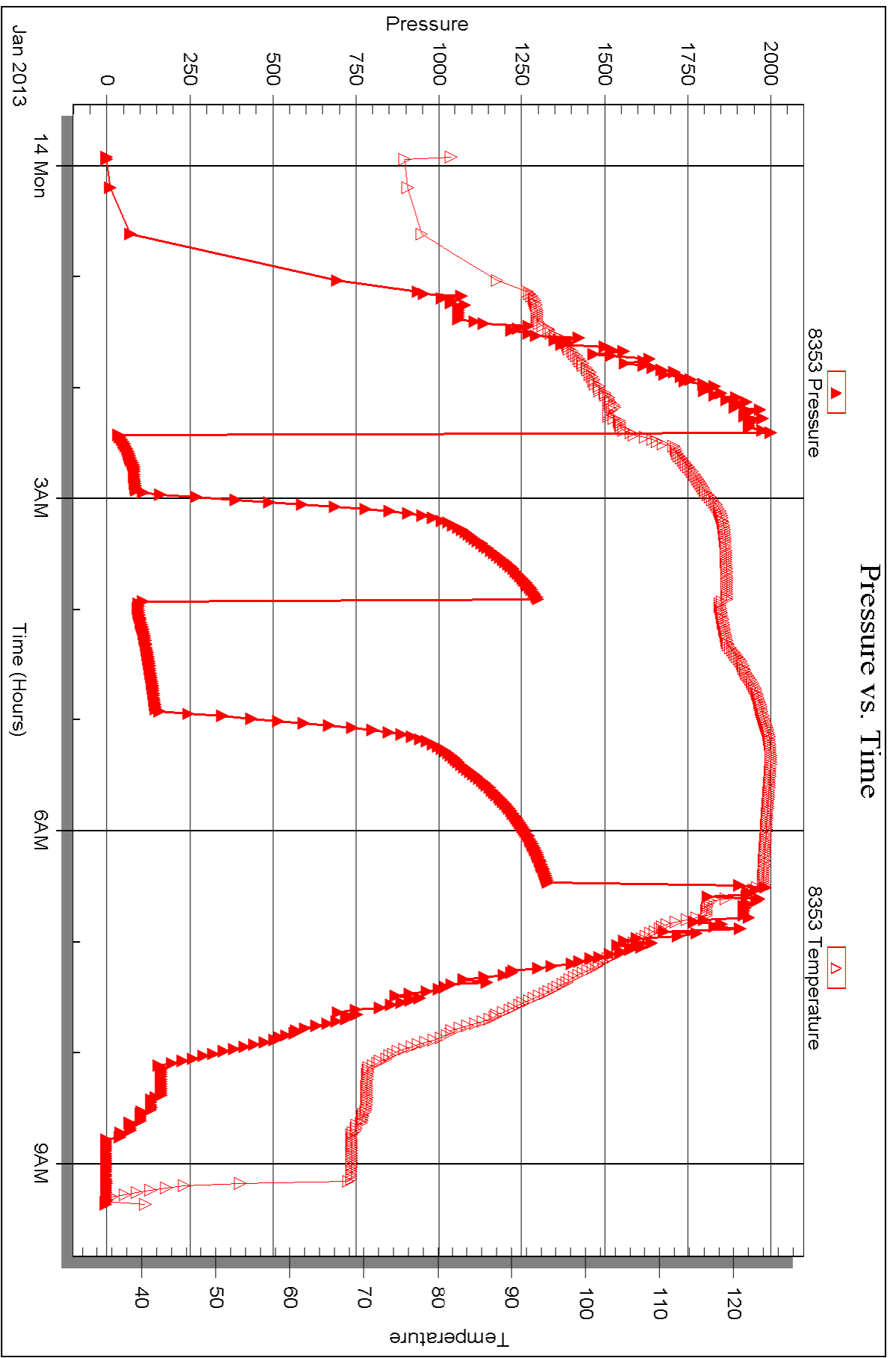


Serial #: 8353

Outside Murfin Drilling Co.

Gilbert #1-27

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE 300
Wichita KS 67202

ATTN: Rocky Milford

Gilbert #1-27

27-4s-31w Rawlins,KS

Start Date: 2013.01.15 @ 12:00:00

End Date: 2013.01.15 @ 19:52:30

Job Ticket #: 49006 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.01.18 @ 13:04:52



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co.

27-4s-31w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Gilbert #1-27

Job Ticket: 49006

DST#: 3

ATTN: Rocky Milford

Test Start: 2013.01.15 @ 12:00:00

GENERAL INFORMATION:

Formation: **Lan H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:23:15

Time Test Ended: 19:52:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Wilbur Steinbeck

Unit No: 40

Interval: 4036.00 ft (KB) To 4109.00 ft (KB) (TVD)

Reference Elevations: 2914.00 ft (KB)

Total Depth: 4109.00 ft (KB) (TVD)

2909.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8360

Inside

Press @ RunDepth: 21.33 psig @ 4037.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.15

End Date:

2013.01.15

Last Calib.:

2013.01.15

Start Time: 12:00:15

End Time:

19:52:30

Time On Btm:

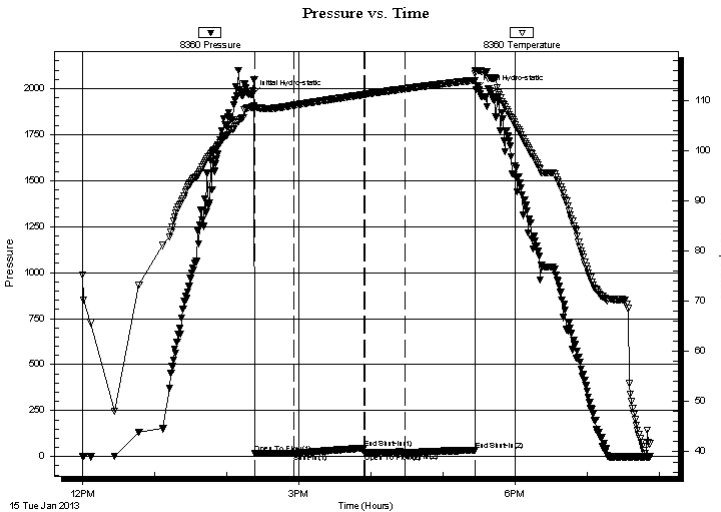
2013.01.15 @ 14:21:15

Time Off Btm:

2013.01.15 @ 17:27:45

TEST COMMENT: 30 IF; Weak Surface blow built to 1/4"
60 IS; No Blow
30 FF; Weak surface blow died in 10 min
60 FS; No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1967.86	108.67	Initial Hydro-static
2	17.75	108.40	Open To Flow (1)
35	18.89	109.07	Shut-In(1)
93	45.96	111.20	End Shut-In(1)
94	19.37	111.21	Open To Flow (2)
128	21.33	112.38	Shut-In(2)
185	34.55	114.06	End Shut-In(2)
187	1992.95	115.94	Final Hydro-static

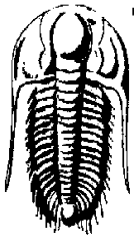
Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co.

27-4s-31w Rawlins, KS

250 N Water STE 300
Wichita KS 67202

Gilbert #1-27

Job Ticket: 49006

DST#: 3

ATTN: Rocky Milford

Test Start: 2013.01.15 @ 12:00:00

GENERAL INFORMATION:

Formation: **Lan H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:23:15

Time Test Ended: 19:52:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Wilbur Steinbeck

Unit No: 40

Interval: 4036.00 ft (KB) To 4109.00 ft (KB) (TVD)

Total Depth: 4109.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2914.00 ft (KB)

2909.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8353 Outside

Press @ Run Depth: psig @ 4037.00 ft (KB)

Start Date: 2013.01.15

End Date:

2013.01.15

Capacity: 8000.00 psig

Last Calib.:

2013.01.15

Start Time:

12:00:15

End Time:

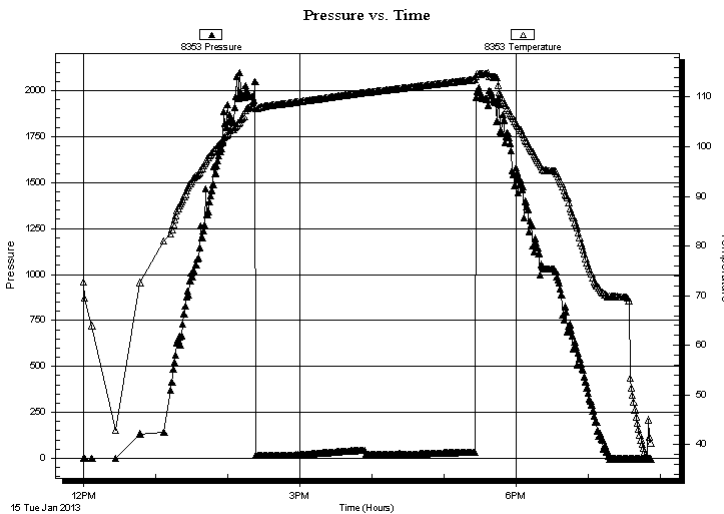
19:52:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 IF; Weak Surface blow built to 1/4"
60 IS; No Blow
30 FF; Weak surface blow died in 10 min
60 FS; No Blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud	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

Murfin Drilling Co.

27-4s-31w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Gilbert #1-27

Job Ticket: 49006

DST#: 3

ATTN: Rocky Milford

Test Start: 2013.01.15 @ 12:00:00

Tool Information

Drill Pipe:	Length: 3850.00 ft	Diameter: 3.80 inches	Volume: 54.01 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 54.90 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4036.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.00 ft			
Tool Length:	100.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4010.00	
Shut In Tool	5.00			4015.00	
Hydraulic tool	5.00			4020.00	
Jars	5.00			4025.00	
Safety Joint	2.00			4027.00	
Packer	5.00			4032.00	27.00 Bottom Of Top Packer
Packer	4.00			4036.00	
Stubb	1.00			4037.00	
Recorder	0.00	8360	Inside	4037.00	
Recorder	0.00	8353	Outside	4037.00	
Perforations	36.00			4073.00	
Change Over Sub	1.00			4074.00	
Drill Pipe	31.00			4105.00	
Change Over Sub	1.00			4106.00	
Bullnose	3.00			4109.00	73.00 Bottom Packers & Anchor

Total Tool Length: 100.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

27-4s-31w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Gilbert #1-27

Job Ticket: 49006

DST#: 3

ATTN: Rocky Milford

Test Start: 2013.01.15 @ 12:00:00

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

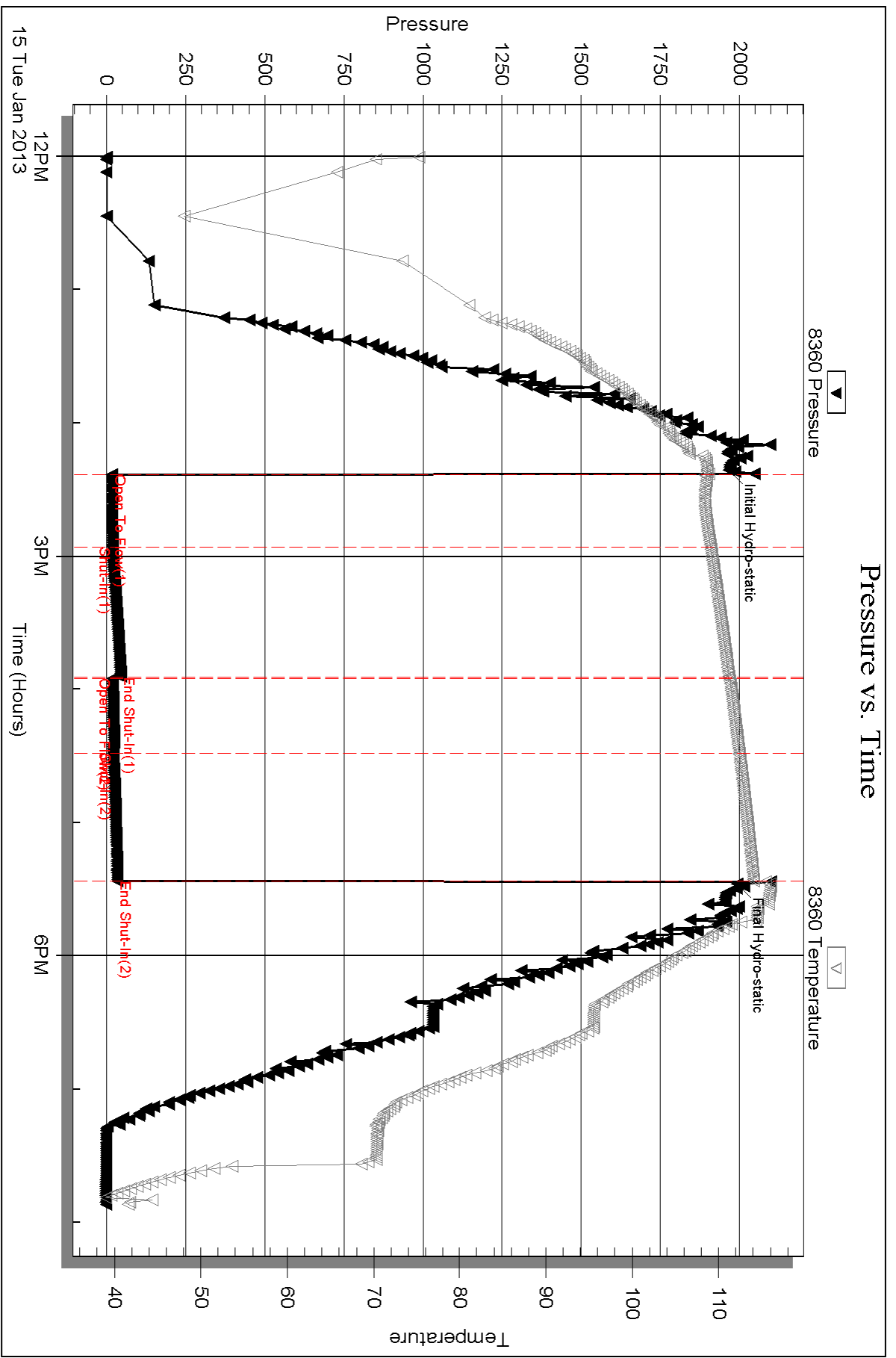
Serial #: 8360

Inside

Murfin Drilling Co.

Gilbert #1-27

DST Test Number: 3

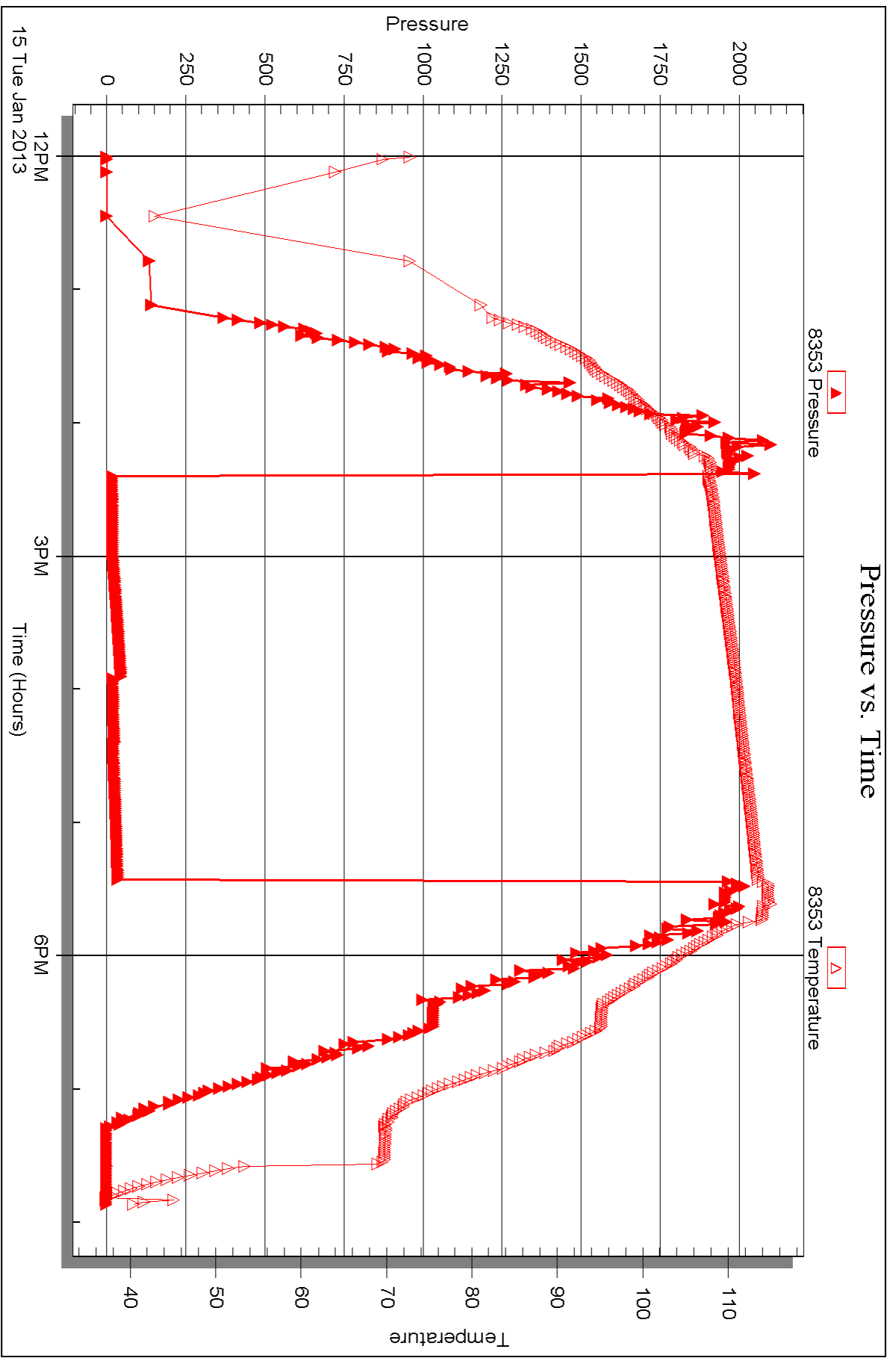


Serial #: 8353

Outside Murfin Drilling Co.

Gilbert #1-27

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE 300
Wichita KS 67202

ATTN: Rocky Milford

Gilbert #1-27

27-4s-31w Rawlins,KS

Start Date: 2013.01.15 @ 17:10:00

End Date: 2013.01.16 @ 01:52:30

Job Ticket #: 49007 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.01.18 @ 13:03:10



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co.

27-4s-31w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Gilbert #1-27

Job Ticket: 49007

DST#: 4

ATTN: Rocky Milford

Test Start: 2013.01.15 @ 17:10:00

GENERAL INFORMATION:

Formation: **Lan K-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:53:45

Time Test Ended: 01:52:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Wilbur Steinbeck

Unit No: 40

Interval: 4103.00 ft (KB) To 4160.00 ft (KB) (TVD)

Reference Elevations: 2914.00 ft (KB)

Total Depth: 4160.00 ft (KB) (TVD)

2909.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8360

Inside

Press @ Run Depth: 22.01 psig @ 4104.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.15

End Date:

2013.01.16

Last Calib.:

2013.01.16

Start Time: 17:10:15

End Time:

01:52:30

Time On Btm:

2013.01.15 @ 19:52:45

Time Off Btm:

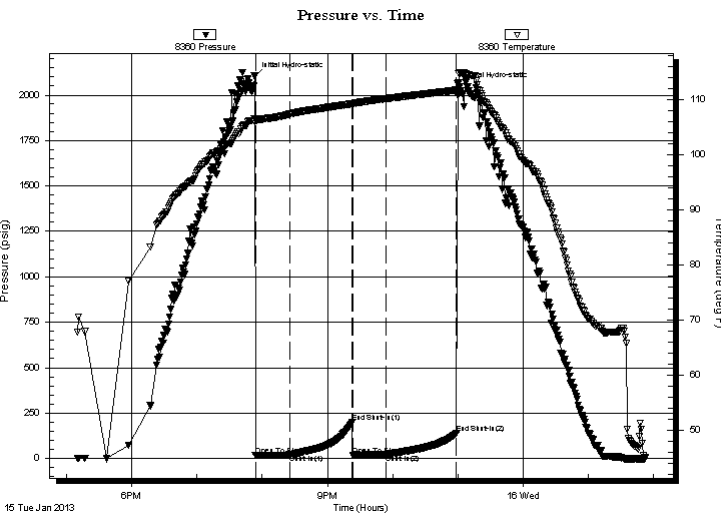
2013.01.15 @ 23:01:45

TEST COMMENT: 30 IF; Surface Blow

60 ISI; No Blow

30 FF; No Blow

60 FSI; No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2104.49	106.61	Initial Hydro-static
1	17.95	106.29	Open To Flow (1)
33	21.79	107.47	Shut-In(1)
90	197.99	109.32	End Shut-In(1)
91	20.00	109.33	Open To Flow (2)
121	22.01	110.23	Shut-In(2)
186	139.29	111.77	End Shut-In(2)
189	2046.88	114.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM 100%M	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co.

27-4s-31w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Gilbert #1-27

Job Ticket: 49007

DST#: 4

ATTN: Rocky Milford

Test Start: 2013.01.15 @ 17:10:00

GENERAL INFORMATION:

Formation: **Lan K-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:53:45

Time Test Ended: 01:52:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Wilbur Steinbeck

Unit No: 40

Interval: 4103.00 ft (KB) To 4160.00 ft (KB) (TVD)

Reference Elevations: 2914.00 ft (KB)

Total Depth: 4160.00 ft (KB) (TVD)

2909.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8353 Outside

Press @RunDepth: psig @ 4104.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.15

End Date:

2013.01.16

Last Calib.:

2013.01.16

Start Time: 17:10:15

End Time:

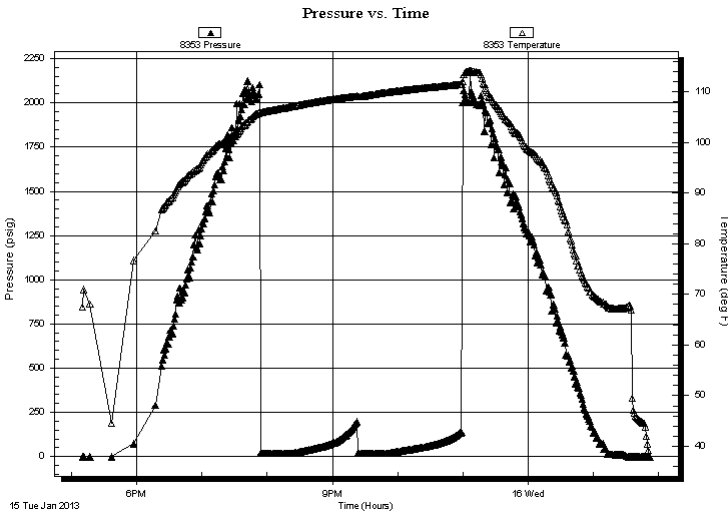
01:52:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 IF; Surface Blow
60 IS; No Blow
30 FF; No Blow
60 FS; No Blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM 100%M	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

27-4s-31w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Gilbert #1-27

Job Ticket: 49007

DST#: 4

ATTN: Rocky Milford

Test Start: 2013.01.15 @ 17:10:00

Tool Information

Drill Pipe:	Length: 3913.00 ft	Diameter: 3.80 inches	Volume: 54.89 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 55.78 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4103.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	84.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4077.00	
Shut In Tool	5.00			4082.00	
Hydraulic tool	5.00			4087.00	
Jars	5.00			4092.00	
Safety Joint	2.00			4094.00	
Packer	5.00			4099.00	27.00 Bottom Of Top Packer
Packer	4.00			4103.00	
Stubb	1.00			4104.00	
Recorder	0.00	8360	Inside	4104.00	
Recorder	0.00	8353	Outside	4104.00	
Perforations	20.00			4124.00	
Change Over Sub	1.00			4125.00	
Drill Pipe	31.00			4156.00	
Change Over Sub	1.00			4157.00	
Bullnose	3.00			4160.00	57.00 Bottom Packers & Anchor

Total Tool Length: 84.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

27-4s-31w Rawlins,KS

250 N Water STE 300
Wichita KS 67202

Gilbert #1-27

Job Ticket: 49007

DST#: 4

ATTN: Rocky Milford

Test Start: 2013.01.15 @ 17:10:00

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OSM 100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8360

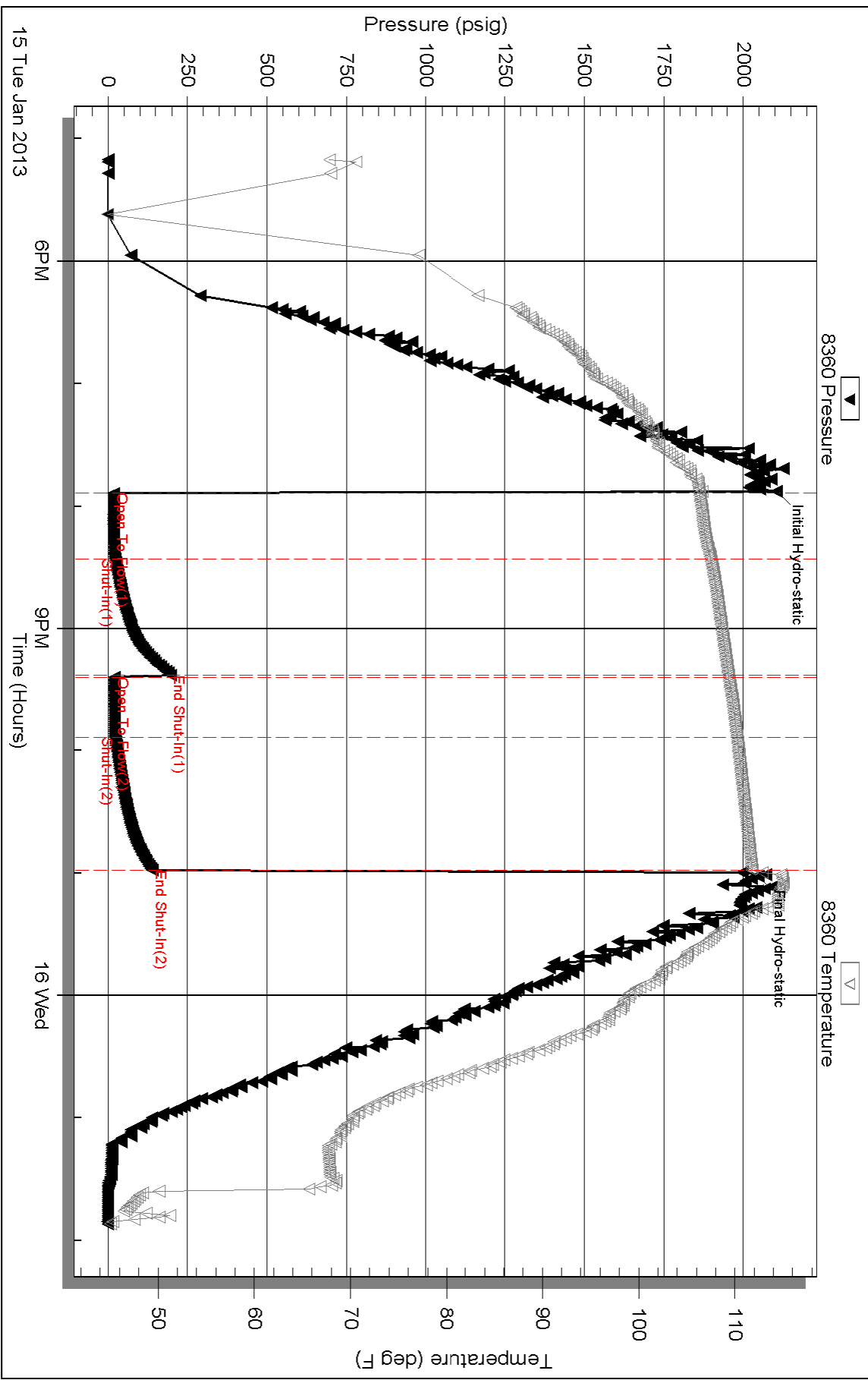
Inside

Murfin Drilling Co.

Gilbert #1-27

DST Test Number: 4

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 49007

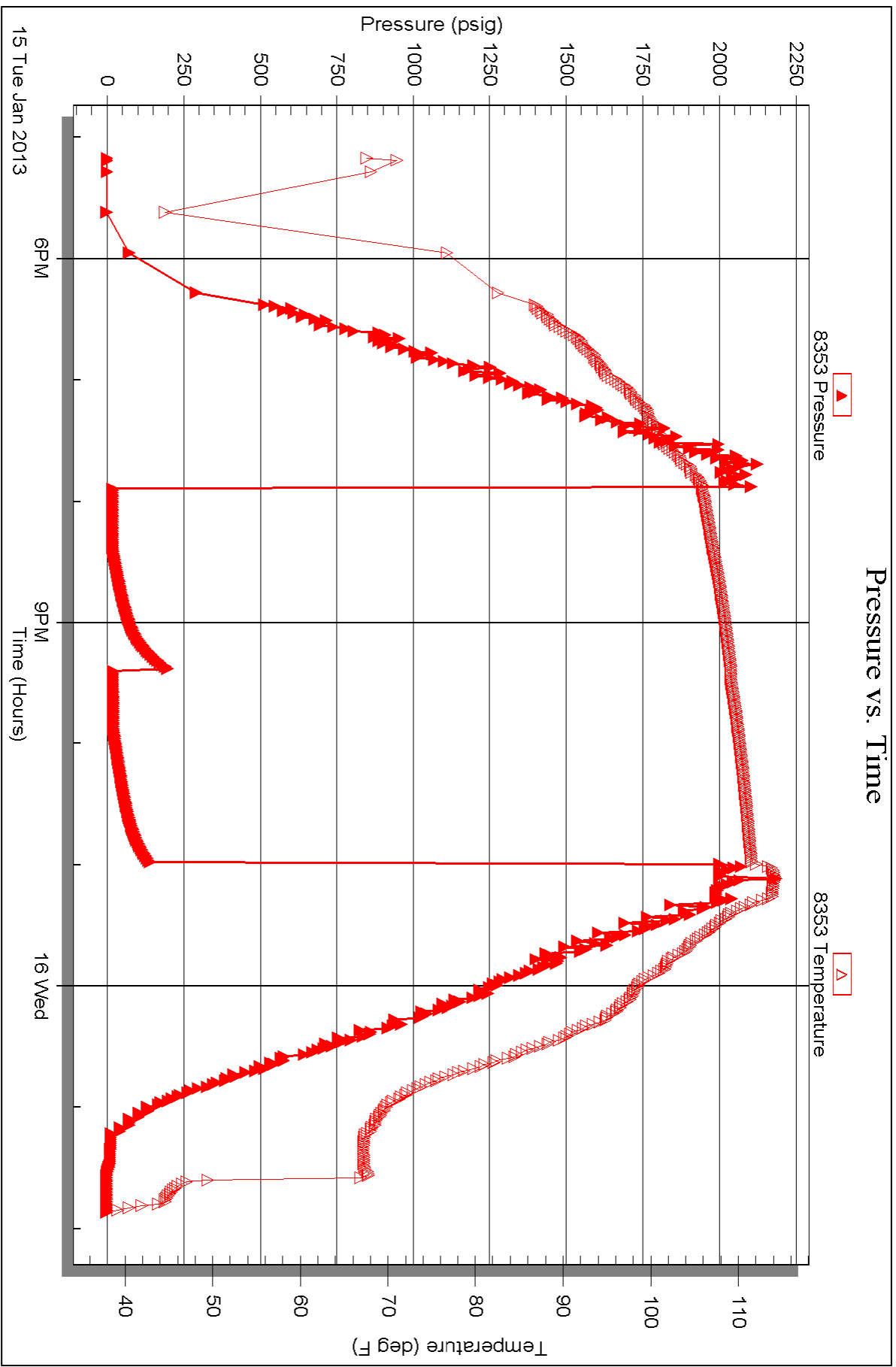
Printed: 2013.01.18 @ 13:03:13

Serial #: 8353

Outside Murfin Drilling Co.

Gilbert #1-27

DST Test Number: 4





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49004

Well Name & No. Gilbert 1-27 Test No. 1 Date 1-12-13
 Company Murphy Drilling Elevation 2914 KB 2909 GL
 Address 250 N Water Ste 300 Wichita KS 67202
 Co. Rep / Geo. Rocky Wilford Rig Murphy 8
 Location: Sec. 27 Twp. 4s Rge. 31w Co. Rawlins State Ks

Interval Tested 3887 3973 Zone Tested Toronto-Lan 'B'
 Anchor Length 86 Drill Pipe Run ~~180~~ 3,694 Mud Wt. 9.0
 Top Packer Depth 3882 Drill Collars Run 180 Vis 64
 Bottom Packer Depth 3887 Wt. Pipe Run 0 WL 5.6
 Total Depth 3973 Chlorides 1,000 ppm System LCM 8#
 Blow Description IF: Built to BOB in 2 min
IS: Built to 2"
FF: Built to BOB in 2 min
FI: Built to 5" ER

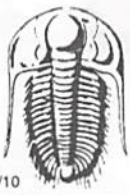
Rec	Feet of	%gas	%oil	%water	%mud
45	0	100			
1533	'REV'				
248	OSMCW	5	85	10	

Rec Total 1826 BHT 122 Gravity 24206 23.6 API RW 151 @ 392° F Chlorides 90,600 ppm

(A) Initial Hydrostatic <u>1936</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>22:40</u>
(B) First Initial Flow <u>81</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>2:18</u>
(C) First Final Flow <u>426</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>5:45</u>
(D) Initial Shut-In <u>1261</u>	<input checked="" type="checkbox"/> Circ Sub <u>Drapped Bar</u> 50	T-Pulled <u>9:45</u>
(E) Second Initial Flow <u>449</u>	<input checked="" type="checkbox"/> Hourly Standby <u>6 hrs</u> 575	T-Out <u>13:25</u>
(F) Second Final Flow <u>823</u>	<input checked="" type="checkbox"/> Mileage <u>48 RT</u> 74.40	Comments _____
(G) Final Shut-In <u>1253</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1893</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby _____	Total <u>2124.40</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>2124.40</u>	

Approved By _____ Our Representative

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49005

Well Name & No. Gilbert 1-27 Test No. 2 Date 1-13-13
 Company Murfin Drilling Elevation 2914 KB 2909 GL
 Address 250 N Water Ste 300 Wichita KS 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin 8
 Location: Sec. 27 Twp. 4S Rge. 31W Co. Rawlins State KS

Interval Tested 3987 4014 Zone Tested LKC E-F
 Anchor Length 27 Drill Pipe Run 3786 Mud Wt. 9.0
 Top Packer Depth 3982 Drill Collars Run 180 Vis 64
 Bottom Packer Depth 3987 Wt. Pipe Run 0 WL 5.6
 Total Depth 4084 Chlorides 1000 ppm System LCM 8#
 Blow Description 1F BOB in 5 1/2 min
1S1 Built to
1F BOB in 5 min
1S1 Built to 5" died to 1"

Rec	Feet of	%gas	%oil	%water	%mud
<u>127</u>	<u>60</u>	<u>40</u>	<u>60</u>		
<u>186</u>	<u>1600</u>	<u>28</u>	<u>30</u>	<u>40</u>	<u>40</u>
<u>744</u>	<u>'GIP'</u>				

Rec Total 313 BHT 123 Gravity 39.6 @ 58.4 = 38 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic <u>2003</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>23:10</u>
(B) First Initial Flow <u>30</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>23:55</u>
(C) First Final Flow <u>89</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2:28</u>
(D) Initial Shut-In <u>1303</u>	<input checked="" type="checkbox"/> Circ Sub <u>NA</u>	T-Pulled <u>6:28</u>
(E) Second Initial Flow <u>109</u>	<input checked="" type="checkbox"/> Hourly Standby <u>7 1/4 hr 25</u>	T-Out <u>9:25</u>
(F) Second Final Flow <u>148</u>	<input checked="" type="checkbox"/> Mileage <u>48 KT 74.40</u>	Comments
(G) Final Shut-In <u>1332</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1943</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>1649.40</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1649.40</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49006

Well Name & No. Gilbert 1-27 Test No. 3 Date 1-14-13
 Company Murfin Drilling Elevation 2914 KB 2909 GL
 Address 250 N Water stc 300 Wichita KS 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin 8
 Location: Sec. 27 Twp. 45 Rge. 31W Co. Rawlins State KS

Interval Tested 4036 409 Zone Tested Lan H-J
 Anchor Length 73 Drill Pipe Run 3850 Mud Wt. 90
 Top Packer Depth 4031 Drill Collars Run 180 Vis 58
 Bottom Packer Depth 4036 Wt. Pipe Run 0 WL 6.0
 Total Depth 4109 Chlorides 3,300 ppm System LCM 6
 Blow Description IF Weck surface built to 1/4"
ISI Noblow
PF Weck surface died in 10 min
FSI Noblow

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1 BHT 116 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1968</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>22:15</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>00:00</u>
(C) First Final Flow <u>19</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2:25</u>
(D) Initial Shut-In <u>46</u>	<input checked="" type="checkbox"/> Circ Sub <u>NA</u>	T-Pulled <u>5:25</u>
(E) Second Initial Flow <u>19</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>7:50</u>
(F) Second Final Flow <u>21</u>	<input checked="" type="checkbox"/> Mileage <u>418 KT</u> 74.40	Comments _____
(G) Final Shut-In <u>35</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1993</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1649.40</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1649.40</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49007

Well Name & No. Gilbert 1-27 Test No. 4 Date 1-15-13
 Company Murfin Drilling Elevation 2914 KB 2909 GL
 Address 250 N Water stc 300 Wichita KS 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin 8
 Location: Sec. 27 Twp. 4s Rge. 3lw Co. Rawlins State KS

Interval Tested 4103 4160 Zone Tested LAN K+L
 Anchor Length 57 Drill Pipe Run 3913 Mud Wt. 9.2
 Top Packer Depth 4098 Drill Collars Run 180 Vis 58
 Bottom Packer Depth 4103 Wt. Pipe Run 0 WL 6.0
 Total Depth 4160 Chlorides 3000 ppm System LCM 6
 Blow Description IF Surface Blow
ISI No Blow
FF No Blow
FSI No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>0.5M</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total _____ BHT 115 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2104</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>17:10</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>18:10</u>
(C) First Final Flow <u>21</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>20:52</u>
(D) Initial Shut-In <u>198</u>	<input checked="" type="checkbox"/> Circ Sub <u>NA</u>	T-Pulled <u>23:52</u>
(E) Second Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Hourly Standby <u>Loaded 12:40AM</u>	T-Out <u>2:50</u>
(F) Second Final Flow <u>22</u>	<input checked="" type="checkbox"/> Mileage <u>48RT Durbled 148.80</u>	Comments <u>Loaded tools at 12:40AM on 1-17-13</u>
(G) Final Shut-In <u>139</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2047</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1723.80</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1723.80</u>	

Approved By _____ Our Representative [Signature]

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ALLIED

OIL & GAS SERVICES, LLC

PROD CO INVOICE

acct.
Prod-Liz

PO Box 93999
Southlake, TX 76092

Invoice Number: 134384

Invoice Date: Jan 8, 2013

Page: 1

Voice: (817) 546-7282

Fax: (817) 246-3361

Bill To:

Murfin Drlg. Co., Inc.
250 N. Water
STE #300
Wichita, KS 67202

Now Includes:



Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Gilbert #1-27	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jan 8, 2013	2/7/13

Quantity	Item	Description	Unit Price	Amount
190.00	MAT	Class A Common	17.90	3,401.00
7.00	MAT	Chloride	64.00	448.00
199.50	SER	Cubic Feet	2.48	494.76
460.00	SER	Ton Mileage	2.60	1,196.00
1.00	SER	Surface	1,512.25	1,512.25
50.00	SER	Pump Truck Mileage	7.70	385.00
50.00	SER	Light Vehicle Mileage	4.40	220.00
1.00	SER	Manifold Rental	275.00	275.00
1.00	CEMENTER	LaRene Wentz		
1.00	OPER ASSIST	Paul Beaver		
1.00	OPER ASSIST	Ty Schrock		
1.00	OPER ASSIST	David Scariano		

Account	Qty	No.	Amount	Description
FD203	3	2723.0001	5386.33	Concret S. Csg. * 1-27

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 2855.52

ONLY IF PAID ON OR BEFORE
Feb 2, 2013

Subtotal	7,932.01
Sales Tax	309.84
Total Invoice Amount	8,241.85
Payment/Credit Applied	
TOTAL	8,241.85

OKM
- 2855.52
5,386.33

ALLIED OIL & GAS SERVICES, LLC, 058859

Federal Tax I.D.# 20-5876804

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

SERVICE POINT

Oakley KS

DATE <u>1-8-13</u>	SEC. <u>27</u>	TWP. <u>4</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION <u>7:00 pm</u>	JOB START <u>8:30 pm</u>	JOB FINISH <u>7:00 pm</u>
LEASE <u>Gilbert</u>	WELL # <u>1-27</u>	LOCATION <u>Lexford Ks, 7th & 1/2,</u>			COUNTY <u>Rauven</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>				<u>80, 30, 5 into</u>		<u>1.01</u>	

CONTRACTOR Murphy #8
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4" TD. 2181
 CASINO SIZE 8 7/8 DEPTH 2171
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSO. 201
 PERFS.
 DISPLACEMENT 1261

OWNER S & me
 CEMENT AMOUNT ORDERED 1907/2 com 328 cc
 COMMON 1.905 lb @ 12.70 3401.00
 POZMIX @
 GEL @
 CHLORIDE 75 lb @ 64.00 4800.00
 ASC @

EQUIPMENT

PUMP TRUCK CEMENTER Lakene Eidenzi
 # 431 HELPER Paul Beaver
 BULK TRUCK DRIVER Ty Schrock
 # 347
 BULK TRUCK DRIVER David Scornano
 #

HANDLING 1985 475 @ 2.78 498.76
 MILEAGE 227 mi x .25 x 2.40 1126.00
 TOTAL 5537.76

REMARKS:

Mix 190 lbs cement
Displace with water
Cement did circulate
Thank you

460.

SERVICE

DEPTH OF JOB 217'
 PUMP TRUCK CHARGE 1512.25
 EXTRA FOOTAGE @
 MILEAGE 470 50 @ 7.70 385.00
 MANIFOLD @ 275.00
MFLU 50 @ 4.40 220.00

TOTAL 2392.25

CHARGE TO: Murphy Drilling Co
 STREET
 CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

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.

TOTAL
 SALES TAX (if Any) 309.84
 TOTAL CHARGES 7,932.01
 DISCOUNT 2855.52 IF PAID IN 30 DAYS
5096.49
3670

PRINTED NAME Radney Farr
 SIGNATURE Radney Farr



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300

Acety -

cc: W 1
cc: Lin
cc: LR-1

Invoice

DATE	INVOICE #
1/25/2013	23886

BILL TO
Murfin Drilling Co Inc PO Box 661 Colby, KS 67701-0661

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-27	Gilbert	Rawlins		Oil	Development	Cement Port Collar	Josh
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				110	Miles	6.00	660.00
576D-D	Pump Charge - Port Collar				1	Job	1,250.00	1,250.00
290	D-Air				2	Gallon(s)	35.00	70.00T
276	Flocele				100	Lb(s)	2.00	200.00T
330	Swift Multi-Density Standard (MIDCON II)				225	Sacks	16.50	3,712.50T
581D	Service Charge Cement				350	Sacks	2.00	700.00
583D	Drayage				1,922.8	Ton Miles	1.00	1,922.80
	Subtotal							8,515.30
	Sales Tax Rawlins County						8.05%	320.59
USED FOR					IC 103			
APPROVED					JLK			

Thank You For Your Business In 2012!
We Look Forward To Serving You In 2013!

Total \$8,835.89



CHARGE TO: Morfin
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET
 No 23886

PAGE 1 OF 1

SERVICE LOCATIONS

1. Hess WELL/PROJECT NO. 1.27 LEASE Gilbert COUNTY/PARISH Acadians STATE KS CITY

2. Ness (5745) TICKET TYPE SERVICE CONTRACTOR RIG NAME NO. SHIPPED VIA CT DELIVERED TO Locatroy ORDER NO. DATE 1-24-13 OWNER

3. WELL TYPE O:1 WELL CATEGORY Develop JOB PURPOSE Cement Port Collet WELL PERMIT NO. WELL LOCATION Perford ks 72168030025

4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575		1			*112	110	m.				6.00	660.00
5760		1			Pump Charge Port Collet	1	ct				1250.00	1250.00
290		1			O A-T	2	gal				35.00	70.00
276		2			Fluocle	100	lbs				2.00	200.00
330		2			Swift Multi-Density	225	SKS				16.50	3712.50
581		2			Service Charge Cement	350	SKS				2.00	700.00
583		2			Drayage	1922.80	m				1.00	1922.80

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED 1-25-13 TIME SIGNED 0945 A.M. P.M.

DATE SIGNED 1-25-13 TIME SIGNED 0945 A.M. P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UN-DECIDED	DIS-AGREE
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	

PAGE TOTAL 8515 30

TOTAL 8835.89

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR John Brown APPROVAL

Paulina's TAX 8.05/0 326.59

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 1-25-13 PAGE NO.

CUSTOMER Morton WELL NO. 1-27 LEASE Gilbert JOB TYPE Cement Port Collar TICKET NO. 23886

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) <small>Gal</small>	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								2 3/8 x 5 1/2 PC @ 2673 on location
	0945							
	1020				✓		1200	Pressure test
		3			✓		300	Open Port Collar
	1005	4		✓		600		Start Cement
			110	✓				Circulate Cement
			9.3	✓				Displace
	1040							Close Port Collar
					✓		1200	Pressure test
								Run 6 joints
		3	30	✓			500	Reverse out Clean
								wash of Back up
	1215							Job Complete Thank You Josh, Brian, Jeremy
								Mixed 225 sks Circulated 20 sks to pit



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300

Arcty -

cc: WF
cc: LG
cc: LR-1

Invoice

DATE	INVOICE #
1/18/2013	23070

BILL TO
Murfin Drilling Co Inc PO Box 661 Colby, KS 67701-0661

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-27	Gilbert	Rawlins	Company Rig #8	Oil	Development	Cement LongStri...	Don
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				120	Miles	6.00	720.00
578D-L	Pump Charge - Long String - 4553 Feet				1	Job	1,500.00	1,500.00
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
280	Flocheck 21				500	Gallon(s)	2.50	1,250.00T
403-5	5 1/2" Cement Basket				2	Each	250.00	500.00T
404-5	5 1/2" Port Collar				1	Each	2,400.00	2,400.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	250.00	250.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	350.00	350.00T
409-5	5 1/2" Turbolizer				15	Each	90.00	1,350.00T
413-5	5 1/2" Roto Wall Scratcher				10	Each	40.00	400.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
325	Standard Cement				225	Sacks	13.50	3,037.50T
276	Flocele				57	Lb(s)	2.00	114.00T
283	Salt				1,125	Lb(s)	0.20	225.00T
284	Calseal				11	Sack(s)	35.00	385.00T
285	CFR-1				159	Lb(s)	4.00	636.00T
581D	Service Charge Cement				225	Sacks	2.00	450.00
583D	Drayage				1,412.94	Ton Miles	1.00	1,412.94
Subtotal								15,280.44
Sales Tax Rawlins County							8.05%	901.40

USED FOR IC 103
APPROVED JR

Thank You For Your Business In 2012!
We Look Forward To Serving You In 2013!

Total \$16,181.84



Services, Inc.

TICKET
No 23070

PAGE 1 OF 2

CHARGE TO: Meridian Drilling Co
 ADDRESS: Meridian Drilling Co
 CITY, STATE, ZIP CODE: _____

SERVICE LOCATIONS

1. Hess City WELL/PROJECT NO. _____ LEASE Gilbert COUNTY/PARISH St. Charles STATE Ks DATE 1-18-13 OWNER _____
 2. Hess City TICKET TYPE CONTRACTOR CONTRACTOR Co RIG NAME/NO. HS SHIPPED VIA Tr DELIVERED TO Meridian Drilling Co ORDER NO. _____
 3. _____ WELL TYPE _____ WELL CATEGORY _____ JOB PURPOSE _____ WELL PERMIT NO. _____ WELL LOCATION _____
 4. _____ REFERRAL LOCATION _____ INVOICE INSTRUCTIONS Wellhead Cement Logging

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
525		1			MILEAGE #110	120	mi			1800	21600
578		1			Dump Charge - customers truck	1	hr	45.3	A	15200	15200
221		1			Liquid Rock	7	gal			2500	17500
280		1			Flt. Check-21	500	gal			250	125000
403		1			Cement Baskets	2	ea		5 1/2 in	25000	50000
404		1			BHT Galas	1	ea		5 1/2 in	24000	24000
406		1			Latex Drums	1	ea		5 1/2 in	25000	25000
457		1			Insert Plates Steel w/ Anti Acid	1	ea		5 1/2 in	35000	35000
409		1			Turbolizers	15	ea		5 1/2 in	90	135000
713		1			Roto Wheel Swabbers	10	ea		5-14T	4000	40000
419		1			Rotating Head Reel	1	ea		5 1/2 in		20000

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.
 DATE SIGNED: 1-18-13 TIME SIGNED: 2:00 P.M.
 SIGNATURE: [Signature]

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? YES NO

WE UNDERSTOOD AND MET YOUR NEEDS? YES NO

OUR SERVICE WAS PERFORMED WITHOUT DELAY? YES NO

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? YES NO

ARE YOU SATISFIED WITH OUR SERVICE? YES NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	P1	903000
PAGE TOTAL	P2	636044
Subtotal		1539044
Tax		90140
TOTAL		1618184

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 SWIFT OPERATOR: [Signature] APPROVAL: _____
 Thank You!



Services, Inc

PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 23872

CUSTOMER
Marta Dye B.

WELL
1-27 Gilbert

DATE
1-18-13

PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING		TIME	DESCRIPTION	WELL			UNIT PRICE		AMOUNT
		LOC	ACCT			QTY	UM	QTY	UM	PRICE	
335		2			Standard Bore	225	SKS	2152	lbs	13.50	3037.50
376		2			Escape	57	lbs			2.00	114.00
283		2			Salt	1125	lbs			1.30	225.00
284		2			Calced	1058	lbs	11	SKS	35.00	385.00
285		2			CER-1	159	lbs			4.00	636.00
581		2								2.00	450.00
583		2								1.00	1912.94

SERVICE CHARGE
MILEAGE CHANGE
TOTAL WEIGHT
LOADED MILES

CUBIC FEET
TON MILES

CONTINUATION TOTAL

225-
130
1918.94
2.00
1.00
450.00
1912.94
6261.44

JOB LOG

SWIFT Services, Inc.

DATE 1-18-13 PAGE NO. 1

CUSTOMER Meritor Day Co WELL NO. 1-27 LEASE Gilbert JOB TYPE Cent. Longstrm TICKET NO. 23070

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		TD - 451.5	DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING		
	0215								DN 100 w/ F.E. Rg L.D.D.F.
	0415								St. 5 1/2" - 15.5 #/ft casing to 4553
									Insert Float Shoe / Aut-R30
									L.D. Baffle - S.S. - 23' @ 4530 = 108 BBL
									Cent 1 Hr 13 - 42-43 42-43
									Cent Baskets 43 & 44 Pin end
	0515								P.C. #44 @ 2679' - (Bit Cir # 5.3)
	0620								Drop Ball up ball 5' to cent
	0630								Fin Run - casing - Top
	0640								St. CIR / Rotate
									Fin CIR.
		6	15						Pump 15 BBL KCL Flush
		5	12						Pump 12 BBL - 500 gal Fto chok-21
		5	5						Pump 5 BBL - KCL spacer
									Start 175 SKS FA-2 cent
			43						Fin cent - Wash out pump lines
		8	80				300		Drop L.D. Plug - Start Displ
		7 1/6	108				300 / 410		Change to 1 1/2" Press - slow rate
	0845	5	7 1/5				500 / 1500		Plug Displ - Release & Hold
									Plug RH-30 SKS cent - NH-20 SKS cent
	0915								Job Complete
									Wash up & Pack up

[Signature]
 Alan, Jon, & Jeremy