



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1109876
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: _____



1109876

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> _____ <input type="checkbox"/> Other <i>(Specify)</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

January 24, 2013

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

Re: ACO1
API 15-039-21161-00-00
Phillips 'A' 1-22
NE/4 Sec.22-04S-30W
Decatur 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

Phillips 'A' #1-22 1800' FNL 1800' FEL Sec. 22-4S-30W 2743' KB							Cotton Candy #1-14 2640' FSL 330' FWL Sec. 14-4S-30W 2813' KB	
Formation	Sample top	Datum	Ref	Log tops	Datum	Ref	Log tops	Datum
Anhydrite	2529	+214	-2	2528	+215	-1	2597	+216
B/Anhydrite	2562	+181	Flat	2560	183	+2	2632	+181
Topeka	3616	-873	-7	3614	-871	-5	3679	-866
Heebner	3782	-1039	-6	3781	-1038	-5	3846	-1033
Lansing	3832	-1089	-9	3829	-1086	-6	3893	-1080
Stark	3986	-1243	-3	3985	-1242	-2	4053	-1240
BKC	4031	-1288	Flat	4032	-1289	-1	4101	-1288
Pawnee	4144	-1401	-4	4150	-1407	-10	4210	-1397
Cherokee	4228	-1485	-3	4229	-1486	-4	4295	-1482
Mississippi	4367	-1624	-16	4360	-1617	-9	4421	-1608
Arbuckle	4426	-1683	-28	4423	-1680	-25	4468	-1655
RTD	4450						4506	
LTD	4			4451			4505	

Robert L. Milford

PETROLEUM GEOLOGIST
Wichita, Kansas

GEOLOGISTS' REPORT

DRILLING TIME AND SAMPLE LOG

OPERATOR - Murfin Drilling Company, Inc.
LEASE - Phillips 'A' #1-22
LOC. SPOT - 150 S & 150 W of NE SW NE
CL - 278'

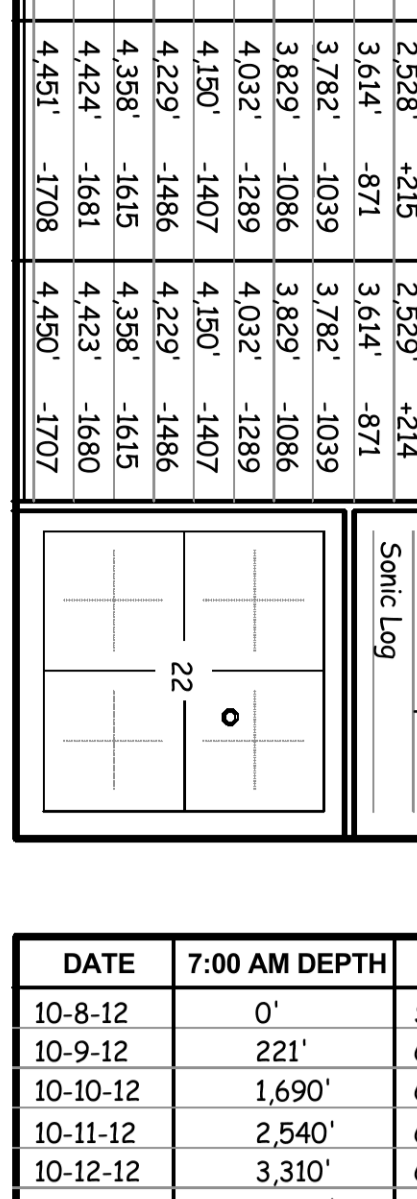
LOC. FOOTAGE 1800' FNL 1800' FEL
SEC. 22 TWP. 4S R. 30W
COUNTY - Decatur STATE - Kansas
API - 15-039-2161-00-00

CONTRACTOR - Murfin Drilling Co., Inc. REG. NO. 3
DRILLING STARTED 10-9-2012 COMPLETED 10-19-2012
MUD DISPLACED 2,988' MUD TYPE Chemical
DRILLING TIME KEPT FROM 3:00' TO RTD
SAMPLES SAVED FROM 3:00' TO RTD
SAMPLES EXAMINED FROM 3:00' TO RTD
GEOLOGICAL SUPERVISION FROM 3:425' TO RTD

MEASUREMENTS FROM CASING RECORD
Casing Record
Conductor
Surface 8.58' @ 221'
Production 5.17' @ 4438'

ELEVATIONS
KB 2,743'
CL 2,788'

FORMATION NAME	LOG TOP	DATUM	SAMPLE TOP	DATUM
Stone Corral	2,528'	+215	2,529'	-214
Topeka	3,614'	-871	3,614'	-871
Heebner	3,782'	-1039	3,782'	-1039
Admiring	3,829'	-1086	3,829'	-1086
B/KC	4,032'	-1289	4,032'	-1289
Pawnee	4,150'	-1407	4,150'	-1407
Cherokee	4,229'	-1486	4,229'	-1486
Mississippi	4,388'	-1615	4,388'	-1615
Arbuckle	4,424'	-1681	4,424'	-1680
Total Depth	4,451'	-1708	4,450'	-1707



DATE	7:00 AM DEPTH	REMARKS
10-8-12	0'	Spud @ 5:15 pm. Plug down @ 9:15 pm. Dev.: 0.3° @ 221'
10-9-12	221'	Cut 221' in last 24 hrs. Drill out plug @ 7:00 am. Dev.: 0.4° @ 806', 0.0° @ 1367'
10-10-12	1,690'	Cut 1,469' in last 24 hrs; 20.75 hrs drlg. 0.3° @ 2302'
10-11-12	2,540'	Cut 850' in last 24 hrs; 22 hrs drlg.
10-12-12	3,310'	Cut 770' in last 24 hrs; 22.25 hrs drlg. DST #1 @ 3850'
10-13-12	3,850'	Cut 540' in last 24 hrs; 20.75 hrs drlg. DST #2 @ 3866'
10-14-12	3,866'	Cut 16' in last 24 hrs; 0.75 hrs drlg. DST #3 @ 3903'
10-15-12	3,920'	Cut 54' in last 24 hrs; 3 hrs drlg. DST #4 @ 3952', DST #5 @ 4016'
10-16-12	4,016'	Cut 96' in last 24 hrs; 6.5 hrs drlg.
10-17-12	4,185'	Cut 169' in last 24 hrs; 13.5 hrs drlg. DST #6 @ 4252'
10-18-12	4,315'	Cut 130' in last 24 hrs; 7.75 hrs drlg. RTD 4450' @ 1:40 pm
10-19-12	4,450'	Cut 135' in last 24 hrs; 6.5 hrs drlg. Ran production casing

Remarks

The electric log measurements correlate from 2' higher to 1' lower to the drilling measurements.

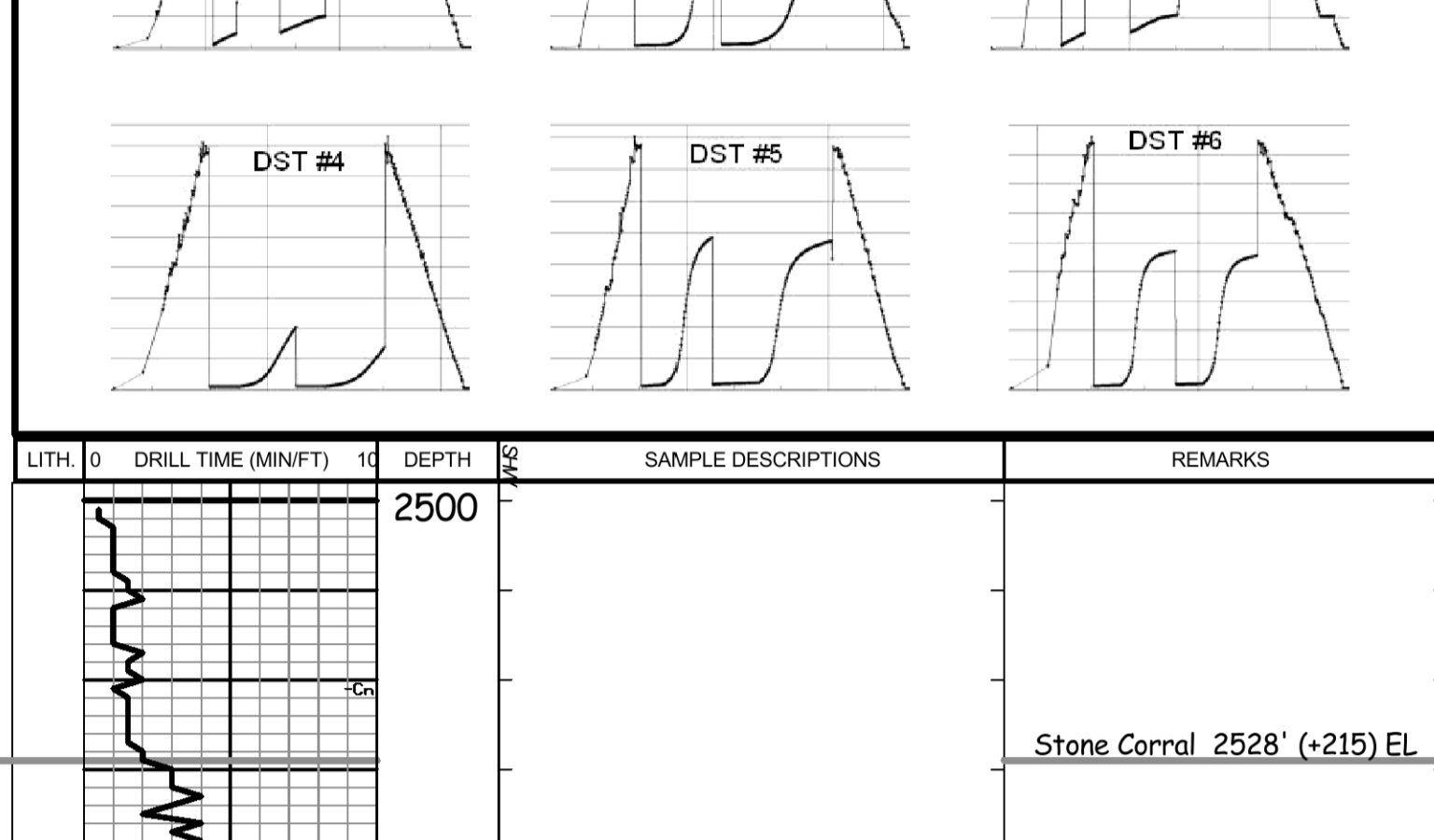
Formation tops and lithology on this report have been corrected to the electric log.

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

Respectfully submitted,

Robert L. Milford

Drill Stem Test Charts



LITH.	DRILL TIME (MIN/FT)	DEPTH (ft)	SAMPLE DESCRIPTIONS	REMARKS
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2500' Stone Corral 2528' (+215) EL

2550' B/Stone Corral 2560' (+183) EL

3500' Morgan Mud check @ 3319': 62 Vis, 8.7 Wt, 5.2 WL, 700 ppm Chl, 2# LCM

3550' LS: crm-gry, fxl, fos-ool in prt, sub chky-prty dns w/ some chky, pr por, NS
Sh: lt-drk gry, some red-brn, gry, gm

3600' LS: crm-lt gry, fxl, fos-ool in prt, some shly, sub chky-prty dns w/ some chky, pr por, NS
Sh: red-brn & gry, some gm & brn

3650' LS: crm-med gry, fxl, shly in prt, some fos, sub chky-prty dns, pr por, NS
Sh: red-brn, gry, gm, w/ some Calc Sh: red-brn & purple

3700' LS: crm, fxl, fos, sub chky-prty dns, pr por, NS, w/ some Shly LS: A.A.
LS: crm-lt gry, fxl, fos in prt, some sil shly, sub chky-prty dns, pr por, NS
Sh: red-brn & brick red, some soft & gummy

3750' LS: Dol: wh-lt gry, fxl, fos in prt, tr cht (wh), sub chky-prty dns w/ some chky-vry chky, pr w/ tr fr fos-vug por, NS
LS: crm-lt gry, fxl, fos in prt, some sil shly, sub chky-prty dns, pr por, NS
Sh: red-brn, some gm

3800' LS: crm-lt gry, fxl, fos in prt, some sil shly, sub chky-prty dns, pr por, NS
Calc Sd: crm-lt gry, fr-vry fr grain, some shly, semi fri-brittle, pr vis por, NS
Sh: red-brn, some gry & gm, w/ some Sd Sh: red-brn

3850' LS: wh-lt gry, fxl, vry fos, chky-prty dns w/ some vry chky, pr vis por, NS
LS: wh-crm, fxl, fos in prt, chky-prty dns w/ some vry chky, pr por, NS
LS: A.A., mstly sub chky-prty dns, pr por, NS

3900' Sh: Black Carb
LS: tan, fxl, fos, sub chk-prt dns, pr por, NS
Sh: gry & red-brn, w/ small amt Sd: gry, fr-vry fr grain, shly, sil calc, mstly brittle, pr por, NS
LS: crm-tan, fxl, fos, sub chky-prty dns, pr por, NS
Sh: red-brn, gm, gry

3950' LS: crm, fxl, fos, sub chky-prty dns, pr por, NS
Sh: red-brn, gm, gry
LS: crm, fxl, fos in prt, sub chky-prty dns, pr por, NS
LS: crm, fxl, fos in prt, chky-prty dns, pr por, NS
LS: wh-crm, fxl, fos, chky-prty dns w/ some vry chky, pr w/ tr fr fos-vug por, NS

4000' Sh: drk gry w/ tr Black Carb
LS: gry-tan, fxl, fos, mstly dns, pr por, NS
Sh: red-brn, gm, gry
Shly Sd: lt gry-lt gm, fr-vry fr grain, sil calc, soft-brittle, pr vis por, NS
Sh: red-brn, some gm & gry

4050' LS: wh-crm, fxl, fos in prt, vry chky-prty dns, pr por, NS
Sh: red-brn, soft & gummy in prt, some gry & gm
LS: wh-lt gry, fxl, vry fos, chky-prty dns w/ some vry chky, pr vis por, NS
LS: wh-crm, fxl, fos in prt, chky-prty dns w/ some vry chky, pr por, NS
LS: A.A., mstly sub chky-prty dns, pr por, NS

4100' Sh: Black Carb
LS: tan, fxl, fos, prty dns, pr por, NS
LS: crm, fxl, fos-ool in prt, tr pyr, chky-prty dns w/ some vry chky, pr w/ tr fr fos-vug por, scat lt-drk brn spdt-sub sat stn, SSFO, no odor
S-FSFO (FS in few pcs), no odor

4150' LS: red-brn, some gry & gm
LS: crm-tan, fxl, fos (fust), sub chky-prty dns, pr por, NS
Sh: red-brn & gm, some gry & brn
Sh: red-brn, gry, gm, some brn

4200' LS: crm, fxl, fos in prt, sub chky-prty dns w/ some chky, pr-fr w/ tr gd fos-vug por, scat lt-brn-bk spdt-sub sat stn, SSFO, no odor
Sh: mstly red-brn, some drk gry
Sh: red-brn, gry, gm, some brn

4250' LS: crm-lt gry, fxl, fos in prt, sub chky-dns w/ some chky, pr w/ tr fr fos-vug por, scat lt-brn-bk spdt-sub sat stn, SSFO, no odor
Sh: red-brn, gm, gry
LS: crm-med gry, sil fos, shly in prt (some red-brn, mottled), sub chky-prty dns, pr por, tr dead brn stn, SSFO, no odor
Sh: red-brn, gry, gm, some brn

4300' Shly Sd: lt gry-lt gm, fr-vry fr grain, sil calc, soft-brittle, pr vis por, NS
Sh: red-brn, gry, gm, some Calc Sh: lt purple
LS: crm-lt gry, fxl, fos-ool in prt, some sil shly, sub chky-prty dns, pr por, NS
Sh: red-brn, gry, gm

4350' LS: crm-lt gry, fxl, fos-ool in prt, sil chty (crm-tan, ool-fos), chky-prty dns w/ some vry chky, pr intprt por, vry scat brn-bk spdt-sub sat stn, SSFO, no odor
LS: tan, fxl, fos, prty dns, pr por, NS
LS: crm, fxl, fos-ool in prt, tr pyr, chky-prty dns w/ some vry chky, pr w/ tr fr fos-vug por, scat lt-drk brn spdt-sub sat stn, SSFO, no odor

4400' LS: crm, fxl, chty (wh-crm, fresh), chky-prty dns, pr por, NS
LS: crm, fxl, some shly (red-brn, mottled), chky-prty dns, pr por, NS & Chert: wh-yell, fresh-sli, fresh-sli, weathered, pr vis por, NS
LS: crm, fxl, chty (wh-crm, fresh), chky-prty dns, pr por, NS
Dol: crm-lt gry, fxl, some sil, sub chky-prty dns, sil chty, some fr-fr in point por, NS
Dol: A.A., w/ some fr-gd vug por, NS
Dol: A.A., some chky, NS

4450' Ran 14 stand short trip after circ. @ TD, & prior to running electric logs
R.T.D. 4450' (-1707)
L.T.D. 4451' (-1708)
Straight Hole Survey @ 4500': 1.1° Dev.

4450' DST #1 3818'-3850' LKC 'A' zn IF: blow built to 7.5'; ISI: no blow back FF: 80B in 58'; FSI: no blow back Recovery: 495' TOTAL FLUID 70' Mud (100%) 185' MW (90% W, 10% M) 240' MW (95% W, 5% M) FFP: 21-111#/30' ISIP: 1289#/60' FFP: 116-146#/60' FSIP: 1283#/90'

4450' Heebner 3782' (-1039) EL

4450' DST #2 3842'-3866' LKC 'B' zn IF: blow built to 11'; FF: no blow Recovery: 20' TOTAL FLUID 1' Free Oil (100% O) 19' OCM (5% O, 95% M) FFP: 19-26#/30' ISIP: 964#/60' FFP: 31-34#/30' FSIP: 745#/60'

4450' DST #3 3879'-3903' LKC 'F' zn IF: blow built to 9.75'; ISI: no blow back FF: 80B in 45'; FSI: no blow back Recovery: 325' TOTAL FLUID 220' MW (70% W, 30% M) 300' MW (95% W, 5% M) 5' Mud (heavy) (100% M) Chl ppm: 60,000 DST: 1,500 Mud IFP: 22-121#/30' ISIP: 1304#/60' FFP: 127-267#/60' FSIP: 1280#/90'

4450' Morgan Mud check @ 3903': 51 Vis, 9.3 Wt, 5.6 WL, 1,500 ppm Chl, 1.5# LCM

4450' DST #4 3919'-3952' LKC 'H' zn IF: surface blow throughout; FF: no blow Rec. 5' Oil Spotted Mud (100% M) FFP: 23-23#/30' ISIP: 506#/60' FFP: 33-43#/30' FSIP: 339#/60'

4450' Morgan Mud check @ 3952': 56 Vis, 9.2 Wt, 5.6 WL, 1,500 ppm Chl, 2# LCM

4450' Star 3986' (-1243) EL

4450' DST #5 3947'-4016' LKC 'J'-K' zn IF: blow built to 2.5'; FF: no blow Recovery: 90' TOTAL FLUID 1' Free Oil (100% O) 89' OCM (50% O, 50% M) FFP: 22-37#/30' ISIP: 1205#/60' FFP: 34-53#/60' FSIP: 1178#/90'

4450' Morgan Mud check @ 4016': 57 Vis, 9.0 Wt, 5.2 WL, 1,400 ppm Chl, 2# LCM

4450' B/KC 4032' (-1289) EL

4450' Ran 27 stand short trip prior to DST #1 Pipe Strap @ 3850': Strap short 0.21' Straight Hole Survey @ 3850': 0.7° Dev. Morgan Mud check @ 3850': 57 Vis, 9.1 Wt, 5.2 WL, 900 ppm Chl, 1# LCM

4450' DST #6 4225'-4252' Cherokee Sand IF: blow built to 1.75" FF: no blow Recovery: 60' TOTAL FLUID 10' Free Oil (100% O) 50' OCM (40% O, 60% M) Oil Gravity 20° API FFP: 21-31#/30' ISIP: 1173#/60' FFP: 39-43#/30' FSIP: 1135#/60'

4450' Straight Hole Survey @ 4252': 0.6° Dev.

4450' Morgan Mud check @ 4326': 69 Vis, 9.1 Wt, 4.8 WL, 1,000 ppm Chl, 3# LCM

4450' Cherookee 4170' (-1427) EL

4450' DST #6 4225'-4252' Cherokee Sand IF: blow built to 1.75" FF: no blow Recovery: 60' TOTAL FLUID 10' Free Oil (100% O) 50' OCM (40% O, 60% M) Oil Gravity 20° API FFP: 21-31#/30' ISIP: 1173#/60' FFP: 39-43#/30' FSIP: 1135#/60'

4450' Straight Hole Survey @ 4252': 0.6° Dev.

4450' Morgan Mud check @ 4326': 69 Vis, 9.1 Wt, 4.8 WL, 1,000 ppm Chl, 3# LCM

4450' Miss 4358' (-1615) EL

4450' Chert: A.A., fresh, mstly wh-crm, some pink fresh, dcrs yell, NS
LS: crm, fxl, chty (wh-crm, fresh), chky-prty dns, pr por, NS
LS: crm, fxl, some shly (red-brn, mottled), chky-prty dns, pr por, NS & Chert: wh-yell, fresh-sli, fresh-sli, weathered, pr vis por, NS
LS: crm, fxl, chty (wh-crm, fresh), chky-prty dns, pr por, NS
Dol: crm-lt gry, fxl, some sil, sub chky-prty dns, sil chty, some fr-fr in point por, NS
Dol: A.A., w/ some fr-gd vug por, NS
Dol: A.A., some chky, NS

4450' Ran 14 stand short trip after circ. @ TD, & prior to running electric logs
R.T.D. 4450' (-1707)
L.T.D. 4451' (-1708)
Straight Hole Survey @ 4500': 1.1° Dev.



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE 300
Wichita KS 67202

ATTN: Rocky Milford

Phillips "A" #1-22

22-4s-30w Decatur,KS

Start Date: 2012.10.13 @ 12:50:00

End Date: 2012.10.13 @ 21:11:45

Job Ticket #: 48085 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.10.19 @ 14:24:00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

22-4s-30w Decatur, KS

250 N Water STE 300
Wichita KS 67202

Phillips "A" #1-22

Job Ticket: 48085

DST#: 1

ATTN: Rocky Milford

Test Start: 2012.10.13 @ 12:50:00

GENERAL INFORMATION:

Formation: **Lansing A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:10:30

Time Test Ended: 21:11:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Wilbur Steinbeck

Unit No: 43

Interval: 3818.00 ft (KB) To 3850.00 ft (KB) (TVD)

Reference Elevations: 2743.00 ft (KB)

Total Depth: 3850.00 ft (KB) (TVD)

2738.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6799 Inside

Press @ Run Depth: 246.15 psig @ 3819.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.13

End Date:

2012.10.13

Last Calib.: 2012.10.13

Start Time: 12:50:05

End Time:

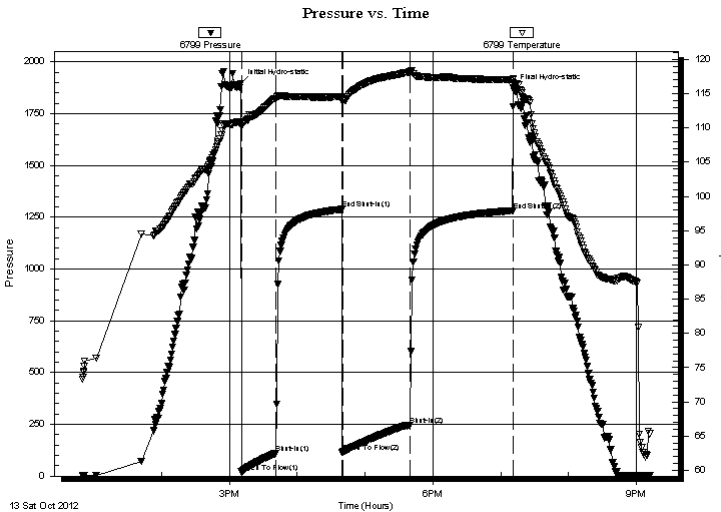
21:11:44

Time On Btm: 2012.10.13 @ 15:10:00

Time Off Btm: 2012.10.13 @ 19:11:00

TEST COMMENT: 30 IF: Built to 7 1/2"
60 IS: No Blow
60 FF: Built to BOB in 58 min
90 FS: No Blow

PRESSURE SUMMARY



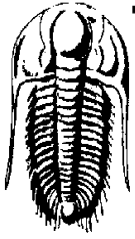
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1895.04	110.88	Initial Hydro-static
1	20.68	110.25	Open To Flow (1)
31	111.09	114.29	Shut-In(1)
90	1288.76	114.52	End Shut-In(1)
90	116.24	114.00	Open To Flow (2)
150	246.15	118.13	Shut-In(2)
241	1282.52	116.99	End Shut-In(2)
241	1873.88	116.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	MW 5%M 95%W	1.18
185.00	MW 10%M 90%W	0.91
70.00	M 100%M	0.44

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.

22-4s-30w Decatur, KS

250 N Water STE 300
Wichita KS 67202

Phillips "A" #1-22

ATTN: Rocky Milford

Job Ticket: 48085 **DST#: 1**

Test Start: 2012.10.13 @ 12:50:00

GENERAL INFORMATION:

Formation: **Lansing A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:10:30

Time Test Ended: 21:11:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Wilbur Steinbeck

Unit No: 43

Interval: 3818.00 ft (KB) To 3850.00 ft (KB) (TVD)

Reference Elevations: 2743.00 ft (KB)

Total Depth: 3850.00 ft (KB) (TVD)

2738.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8648

Inside

Press@RunDepth: psig @ 3819.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.13

End Date: 2012.10.13

Last Calib.: 1899.12.30

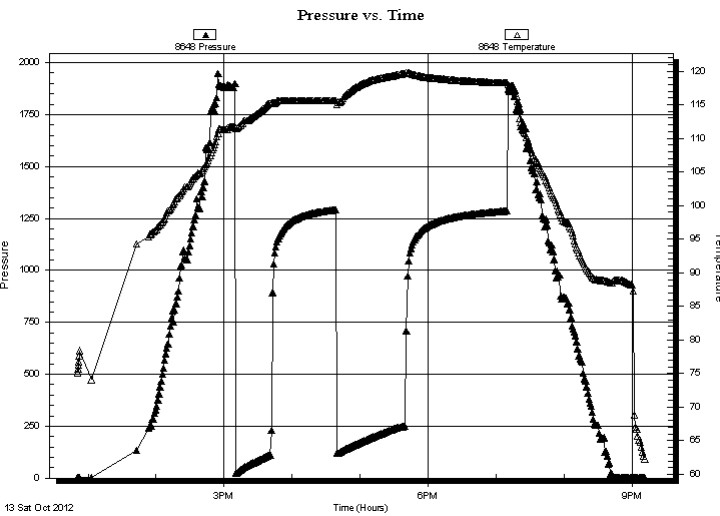
Start Time: 12:50:50

End Time: 21:10:29

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 IF: Built to 7 1/2"
60 IS: No Blow
60 FF: Built to BOB in 58 min
90 FS: No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
240.00	MW 5%M 95%W	1.18
185.00	MW 10%M 90%W	0.91
70.00	M 100%M	0.44

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

22-4s-30w Decatur,KS

250 N Water STE 300
Wichita KS 67202

Phillips "A" #1-22

Job Ticket: 48085

DST#: 1

ATTN: Rocky Milford

Test Start: 2012.10.13 @ 12:50:00

Tool Information

Drill Pipe:	Length: 3335.00 ft	Diameter: 3.80 inches	Volume: 46.78 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: 485.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 49.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3818.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	61.00 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			3790.00	
Shut In Tool	5.00			3795.00	
Hydraulic tool	5.00			3800.00	
Jars	5.00			3805.00	
Safety Joint	3.00			3808.00	
Packer	5.00			3813.00	29.00 Bottom Of Top Packer
Packer	5.00			3818.00	
Packer - Shale	0.00			3818.00	
Stubb	1.00			3819.00	
Recorder	0.00	8648	Inside	3819.00	
Recorder	0.00	6799	Inside	3819.00	
Perforations	26.00			3845.00	
Bullnose	5.00			3850.00	32.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

22-4s-30w Decatur,KS

250 N Water STE 300
Wichita KS 67202

Phillips "A" #1-22

Job Ticket: 48085

DST#: 1

ATTN: Rocky Milford

Test Start: 2012.10.13 @ 12:50:00

Mud and Cushion Information

Mud Type:		Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	18000 ppm
Viscosity:	57.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	5.19 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	900.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
240.00	MW 5%M 95%W	1.180
185.00	MW 10%M 90%W	0.910
70.00	M 100%M	0.435

Total Length: 495.00 ft Total Volume: 2.525 bbl

Num Fluid Samples: 0

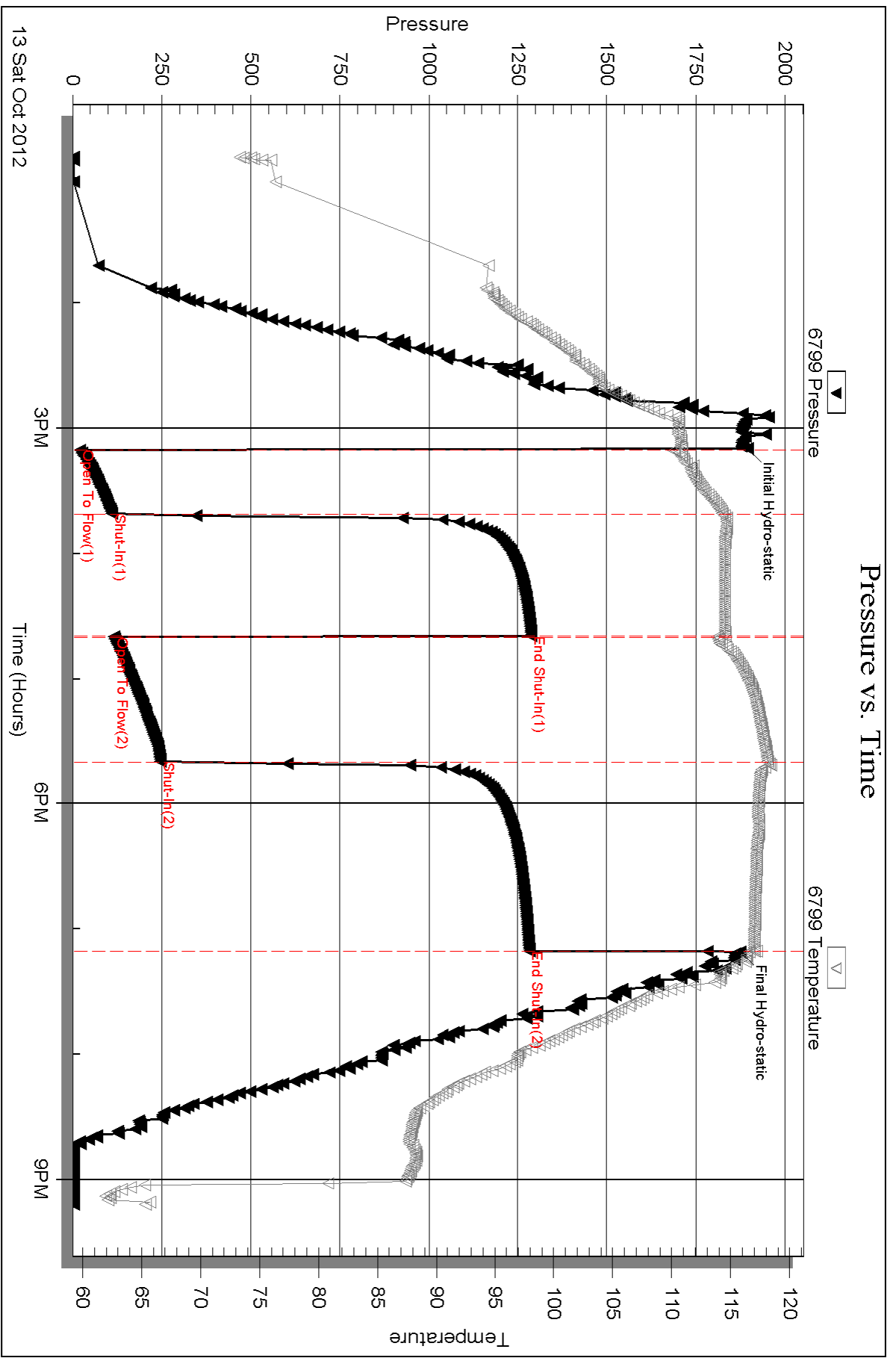
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .393@66.2=18000



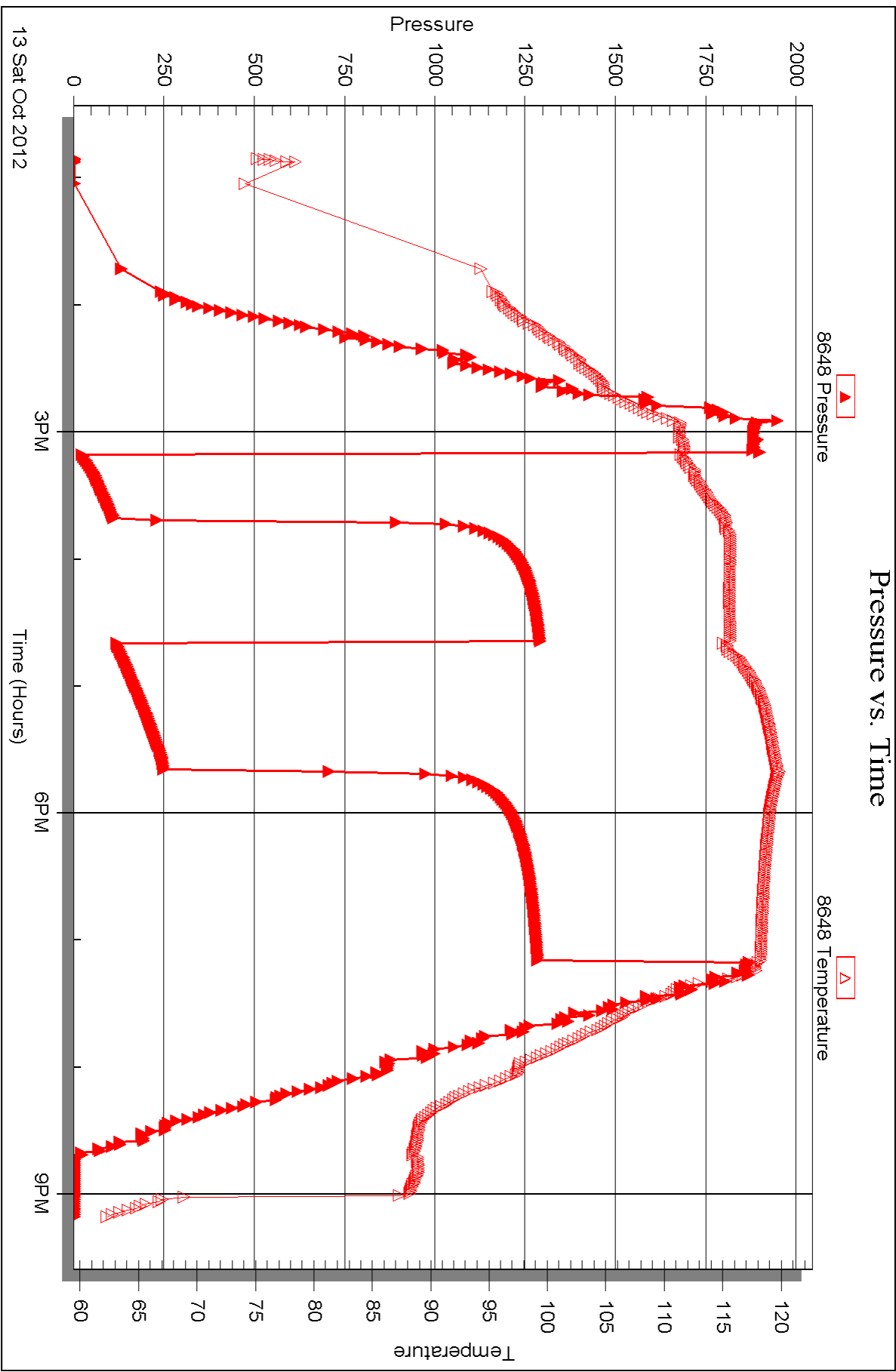
Serial #: 8648

Inside

Murfin Drilling Co.

Phillips "A" #1-22

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE 300
Wichita KS 67202

ATTN: Rocky Milford

Phillips "A" #1-22

22-4s-30w Decatur,KS

Start Date: 2012.10.14 @ 02:58:00

End Date: 2012.10.14 @ 09:50:15

Job Ticket #: 48086 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.10.19 @ 14:22:43

Murfin Drilling Co. 22-4s-30w Decatur,KS Phillips "A" #1-22 DST # 2 LKC "B" 2012.10.14



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

22-4s-30w Decatur, KS

250 N Water STE 300
Wichita KS 67202

Phillips "A" #1-22

Job Ticket: 48086

DST#: 2

ATTN: Rocky Milford

Test Start: 2012.10.14 @ 02:58:00

GENERAL INFORMATION:

Formation: **LKC "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:38:30

Time Test Ended: 09:50:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 43

Interval: 3842.00 ft (KB) To 3866.00 ft (KB) (TVD)

Reference Elevations: 2743.00 ft (KB)

Total Depth: 3866.00 ft (KB) (TVD)

2738.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6799

Inside

Press @ Run Depth: 34.69 psig @ 3843.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.14

End Date:

2012.10.14

Last Calib.: 2012.10.14

Start Time: 02:58:05

End Time:

09:50:14

Time On Btm: 2012.10.14 @ 04:37:45

Time Off Btm: 2012.10.14 @ 07:43:45

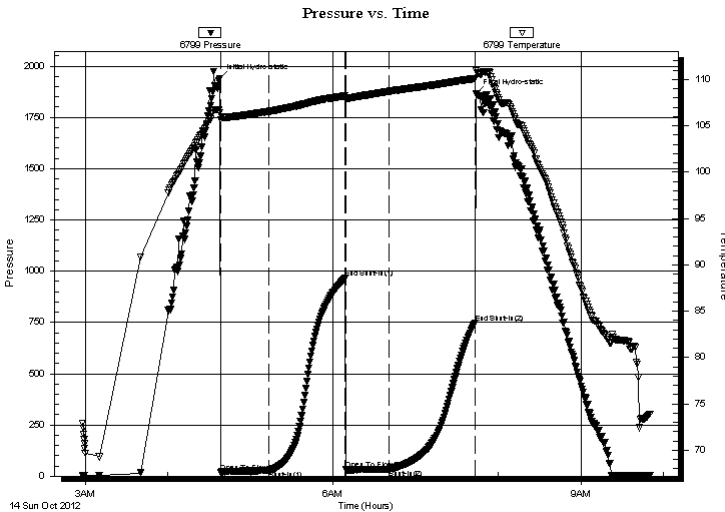
TEST COMMENT: 30 - IF- 1/4" Blow built to 1"

60 - IS- No Return

30 - FF- No Blow

60 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1939.51	106.42	Initial Hydro-static
1	19.22	105.63	Open To Flow (1)
36	26.83	106.55	Shut-In(1)
91	964.61	108.23	End Shut-In(1)
92	31.33	107.97	Open To Flow (2)
123	34.69	108.71	Shut-In(2)
186	745.38	110.10	End Shut-In(2)
186	1867.19	110.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
19.00	OCM 95M 5o	0.09
1.00	Free Oil 100o	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

22-4s-30w Decatur,KS

250 N Water STE 300
Wichita KS 67202

Phillips "A" #1-22

Job Ticket: 48086

DST#: 2

ATTN: Rocky Milford

Test Start: 2012.10.14 @ 02:58:00

GENERAL INFORMATION:

Formation: **LKC "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:38:30

Time Test Ended: 09:50:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 43

Interval: 3842.00 ft (KB) To 3866.00 ft (KB) (TVD)

Reference Elevations: 2743.00 ft (KB)

Total Depth: 3866.00 ft (KB) (TVD)

2738.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8648

Inside

Press @ RunDepth: psig @ 3843.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.14

End Date:

2012.10.14

Last Calib.:

2012.10.14

Start Time: 02:58:35

End Time:

09:49:14

Time On Btm:

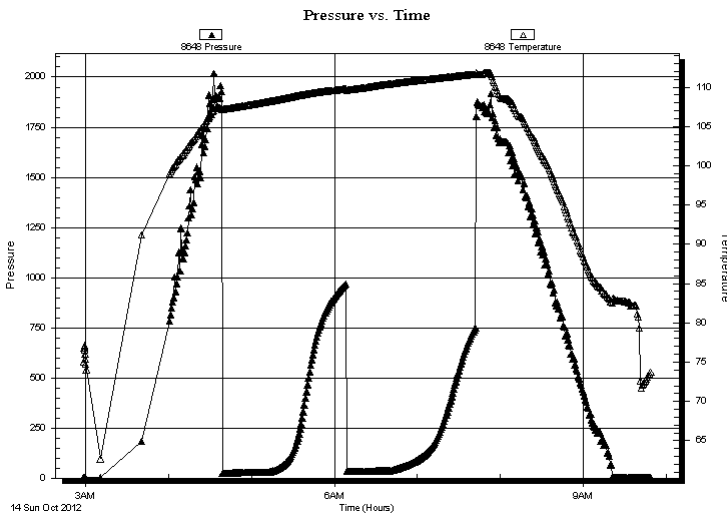
Time Off Btm:

TEST COMMENT: 30 - IF- 1/4" Blow built to 1"

60 - IS- No Return

30 - FF- No Blow

60 - FS- No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
19.00	OCM 95M 5o	0.09
1.00	Free Oil 100o	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

22-4s-30w Decatur,KS

250 N Water STE 300
Wichita KS 67202

Phillips "A" #1-22

Job Ticket: 48086

DST#: 2

ATTN: Rocky Milford

Test Start: 2012.10.14 @ 02:58:00

Tool Information

Drill Pipe:	Length: 3333.00 ft	Diameter: 3.80 inches	Volume: 46.75 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: 485.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 49.14 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3842.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	53.00 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			3814.00	
Shut In Tool	5.00			3819.00	
Hydraulic tool	5.00			3824.00	
Jars	5.00			3829.00	
Safety Joint	3.00			3832.00	
Packer	5.00			3837.00	29.00 Bottom Of Top Packer
Packer	5.00			3842.00	
Stubb	1.00			3843.00	
Recorder	0.00	8648	Inside	3843.00	
Recorder	0.00	6799	Inside	3843.00	
Perforations	18.00			3861.00	
Bullnose	5.00			3866.00	24.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

22-4s-30w Decatur,KS

250 N Water STE 300
Wichita KS 67202

Phillips "A" #1-22

Job Ticket: 48086

DST#: 2

ATTN: Rocky Milford

Test Start: 2012.10.14 @ 02:58:00

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.09 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
19.00	OCM 95M 5o	0.093
1.00	Free Oil 100o	0.005

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

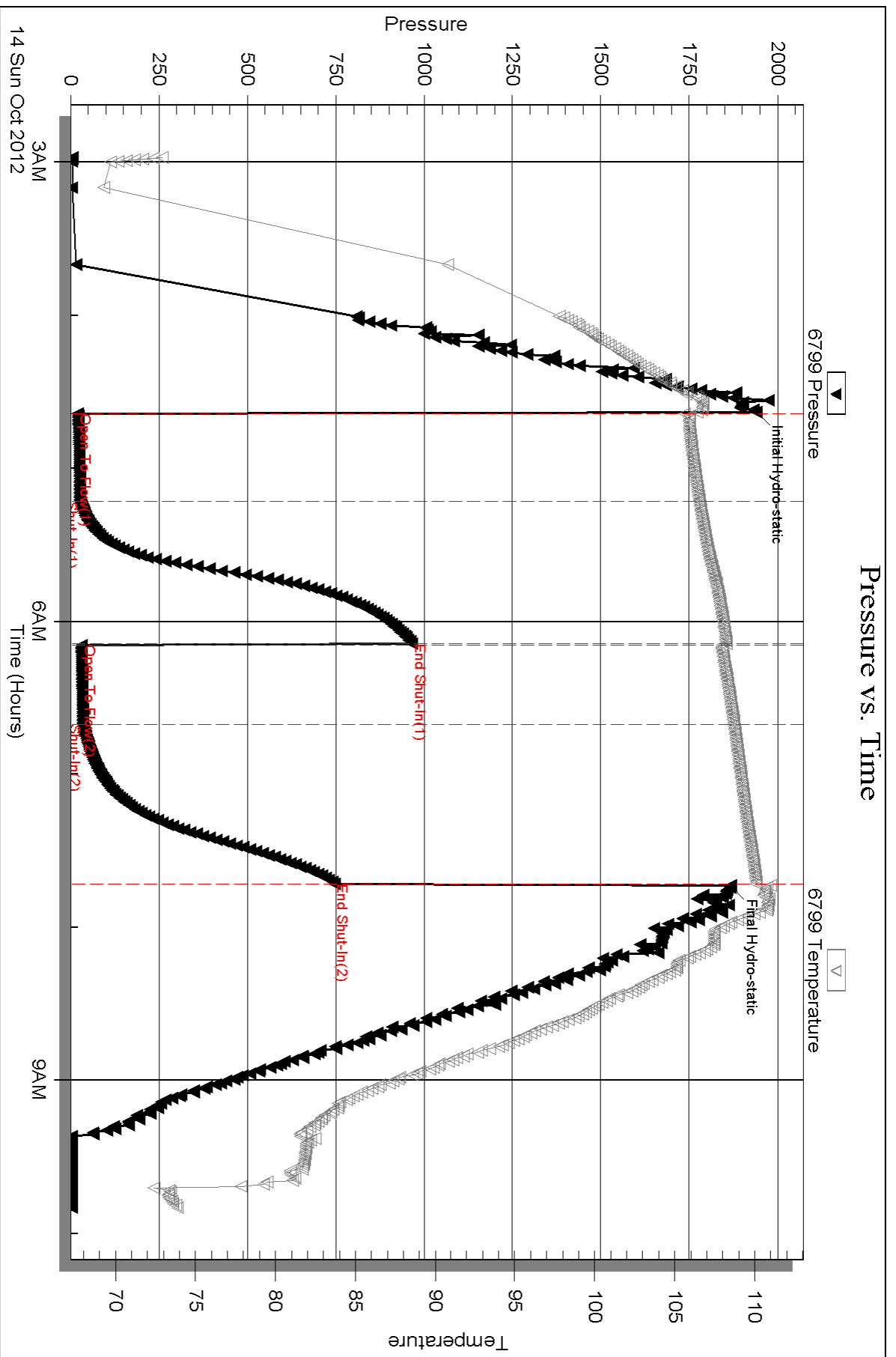
Serial #: 6799

Inside

Murfin Drilling Co.

Phillips "A" #1-22

DST Test Number: 2



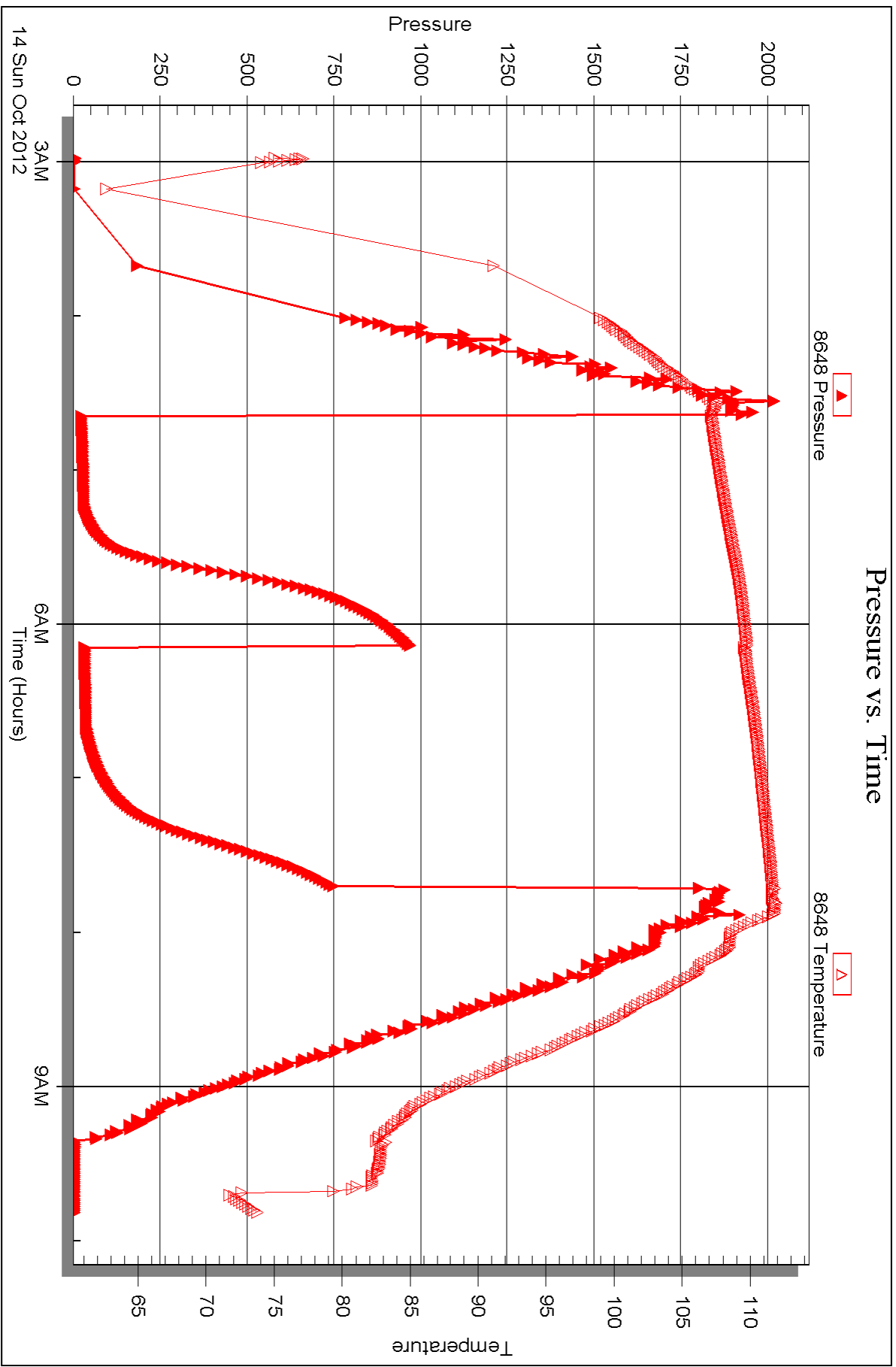
Serial #: 8648

Inside

Murfin Drilling Co.

Phillips "A" #1-22

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE 300
Wichita KS 67202

ATTN: Rocky Milford

Phillips "A" #1-22

22-4s-30w Decatur,KS

Start Date: 2012.10.14 @ 17:50:00

End Date: 2012.10.15 @ 02:08:15

Job Ticket #: 48087 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.10.19 @ 14:21:54



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.

22-4s-30w Decatur, KS

250 N Water STE 300
Wichita KS 67202

Phillips "A" #1-22

Job Ticket: 48087

DST#: 3

ATTN: Rocky Milford

Test Start: 2012.10.14 @ 17:50:00

GENERAL INFORMATION:

Formation: **LKC "F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:32:45

Time Test Ended: 02:08:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 43

Interval: 3879.00 ft (KB) To 3903.00 ft (KB) (TVD)

Reference Elevations: 2743.00 ft (KB)

Total Depth: 3903.00 ft (KB) (TVD)

2738.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6799

Inside

Press @ Run Depth: 267.89 psig @ 3880.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.14

End Date:

2012.10.15

Last Calib.: 2012.10.15

Start Time: 17:50:05

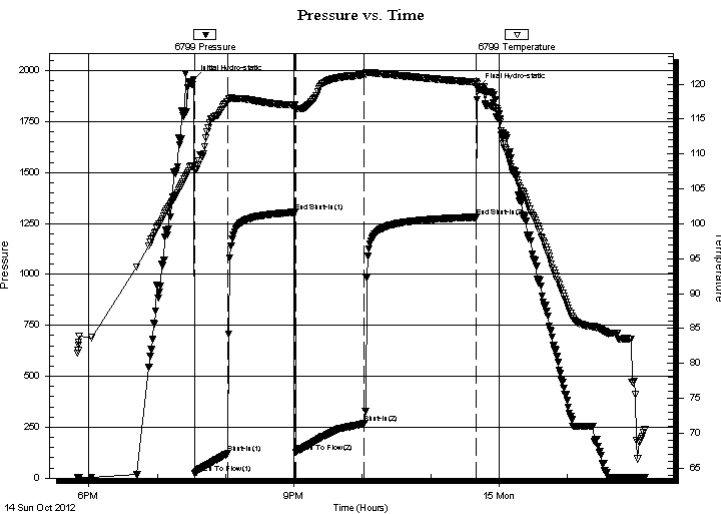
End Time:

02:08:14

Time On Btm: 2012.10.14 @ 19:31:45

Time Off Btm: 2012.10.14 @ 23:41:45

TEST COMMENT: 30 - IF- Surface Blow built to 9 3/4"
60 - IS- No Return
60 - FF- Surface Bow started at 3 min. Built to BoB in 45 min.
90 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1956.42	108.28	Initial Hydro-static
1	22.29	107.71	Open To Flow (1)
30	121.55	117.54	Shut-In(1)
89	1304.94	117.00	End Shut-In(1)
90	127.08	116.50	Open To Flow (2)
150	267.89	121.38	Shut-In(2)
248	1280.66	120.30	End Shut-In(2)
250	1918.43	119.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100M	0.02
300.00	Muddy Water 5M 95W	1.48
220.00	Muddy Water 30M 70W	1.45

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.

22-4s-30w Decatur,KS

250 N Water STE 300
Wichita KS 67202

Phillips "A" #1-22

ATTN: Rocky Milford

Job Ticket: 48087

DST#: 3

Test Start: 2012.10.14 @ 17:50:00

GENERAL INFORMATION:

Formation: **LKC "F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:32:45

Time Test Ended: 02:08:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 43

Interval: 3879.00 ft (KB) To 3903.00 ft (KB) (TVD)

Total Depth: 3903.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2743.00 ft (KB)

2738.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8648 Inside

Press @ RunDepth: psig @ 3880.00 ft (KB)

Start Date: 2012.10.14

End Date: 2012.10.15

Start Time: 17:50:35

End Time: 02:06:59

Capacity: 8000.00 psig

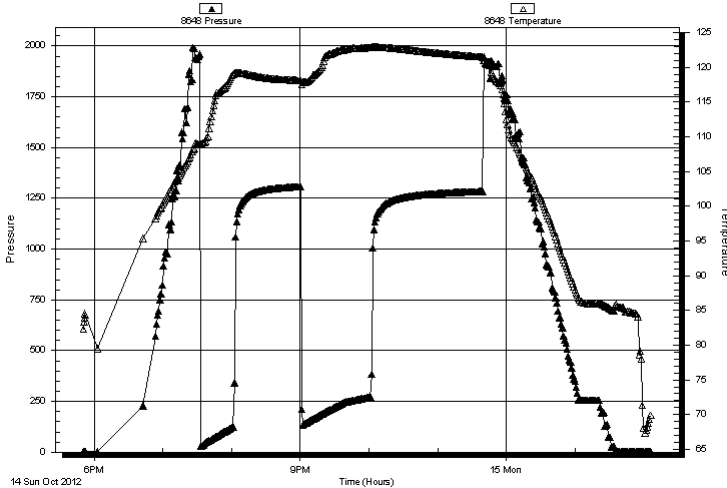
Last Calib.: 2012.10.15

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF- Surface Blow built to 9 3/4"
60 - IS- No Return
60 - FF- Surface Bow started at 3 min. Built to BoB in 45 min.
90 - FS- No Return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100M	0.02
300.00	Muddy Water 5M 95W	1.48
220.00	Muddy Water 30M 70W	1.45

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

22-4s-30w Decatur,KS

250 N Water STE 300
Wichita KS 67202

Phillips "A" #1-22

Job Ticket: 48087

DST#: 3

ATTN: Rocky Milford

Test Start: 2012.10.14 @ 17:50:00

Tool Information

Drill Pipe:	Length: 3390.00 ft	Diameter: 3.80 inches	Volume: 47.55 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: 485.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 49.94 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3879.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	53.00 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			3851.00	
Shut In Tool	5.00			3856.00	
Hydraulic tool	5.00			3861.00	
Jars	5.00			3866.00	
Safety Joint	3.00			3869.00	
Packer	5.00			3874.00	29.00 Bottom Of Top Packer
Packer	5.00			3879.00	
Stubb	1.00			3880.00	
Recorder	0.00	8648	Inside	3880.00	
Recorder	0.00	6799	Inside	3880.00	
Perforations	18.00			3898.00	
Bullnose	5.00			3903.00	24.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

22-4s-30w Decatur,KS

250 N Water STE 300
Wichita KS 67202

Phillips "A" #1-22

Job Ticket: 48087

DST#: 3

ATTN: Rocky Milford

Test Start: 2012.10.14 @ 17:50:00

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	Mud 100M	0.025
300.00	Muddy Water 5M 95W	1.475
220.00	Muddy Water 30M 70W	1.446

Total Length: 525.00 ft Total Volume: 2.946 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

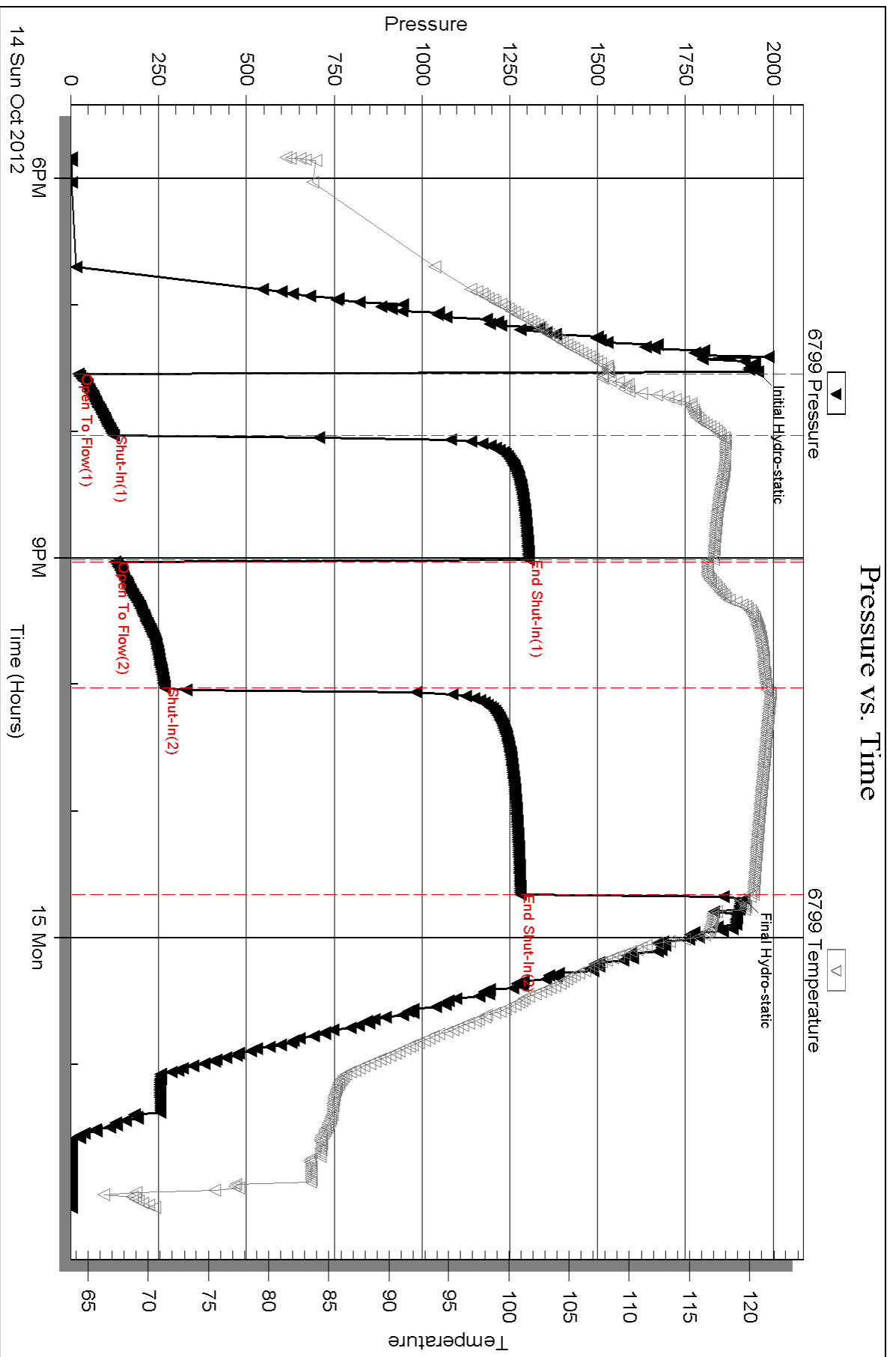
Serial #: 6799

Inside

Murfin Drilling Co.

Phillips "A" #1-22

DST Test Number: 3



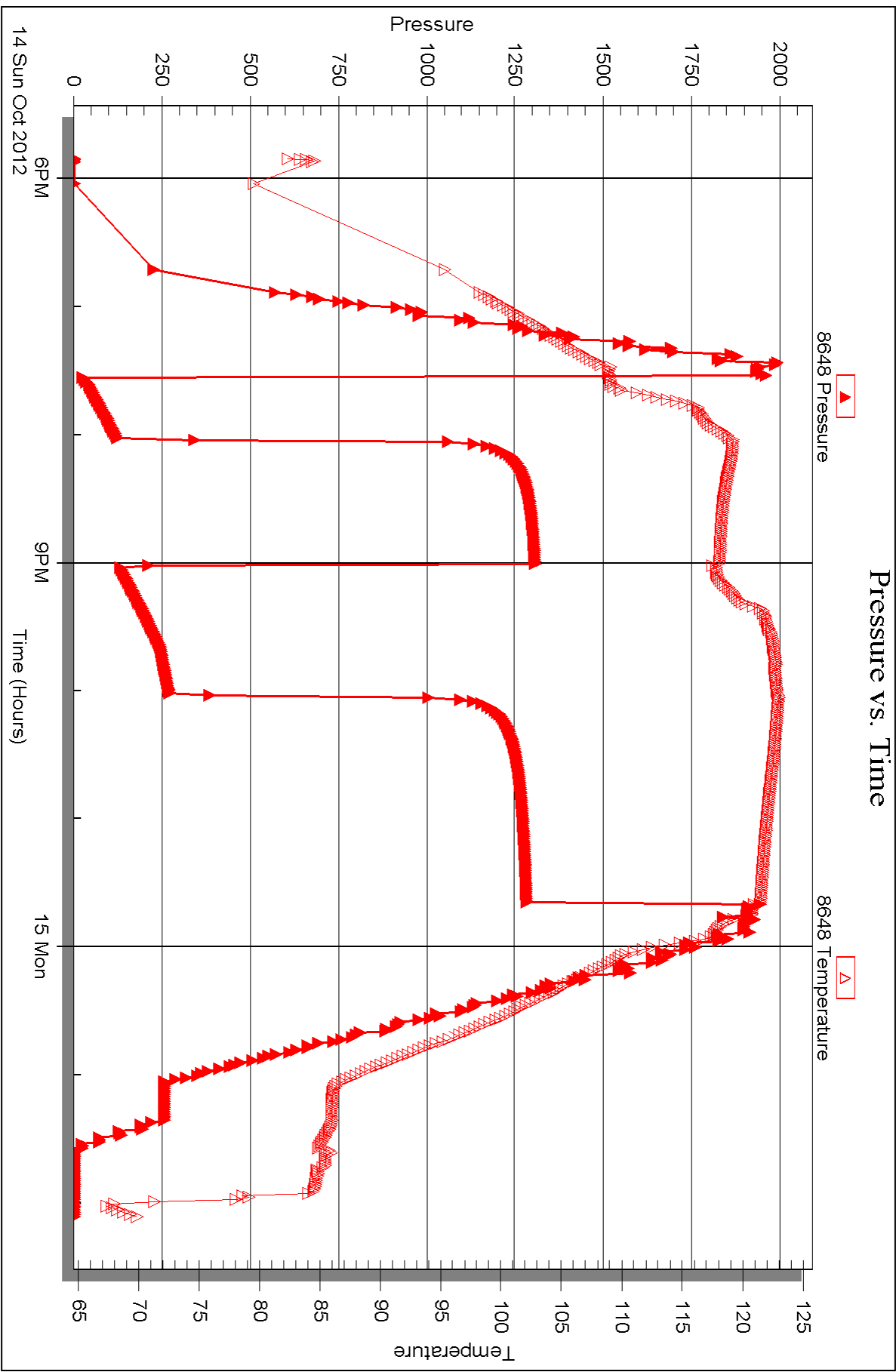
Serial #: 8648

Inside

Murfin Drilling Co.

Phillips "A" #1-22

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE 300
Wichita KS 67202

ATTN: Rocky Milford

Phillips "A" #1-22

22-4s-30w Decatur,KS

Start Date: 2012.10.15 @ 12:08:00

End Date: 2012.10.15 @ 18:43:30

Job Ticket #: 48088 DST #: 4

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

Printed: 2012.10.19 @ 14:17:11

Murfin Drilling Co. 22-4s-30w Decatur,KS Phillips "A" #1-22 DST # 4 LKC "H" 2012.10.15



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

22-4s-30w Decatur, KS

250 N Water STE 300
Wichita KS 67202

Phillips "A" #1-22

Job Ticket: 48088

DST#: 4

ATTN: Rocky Milford

Test Start: 2012.10.15 @ 12:08:00

GENERAL INFORMATION:

Formation: **LKC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:59:00

Time Test Ended: 18:43:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 43

Interval: 3919.00 ft (KB) To 3952.00 ft (KB) (TVD)

Reference Elevations: 2743.00 ft (KB)

Total Depth: 3952.00 ft (KB) (TVD)

2738.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8648

Inside

Press @ Run Depth: 23.59 psig @ 3920.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.15

End Date:

2012.10.15

Last Calib.: 2012.10.15

Start Time: 12:08:05

End Time:

18:43:29

Time On Btm: 2012.10.15 @ 13:58:15

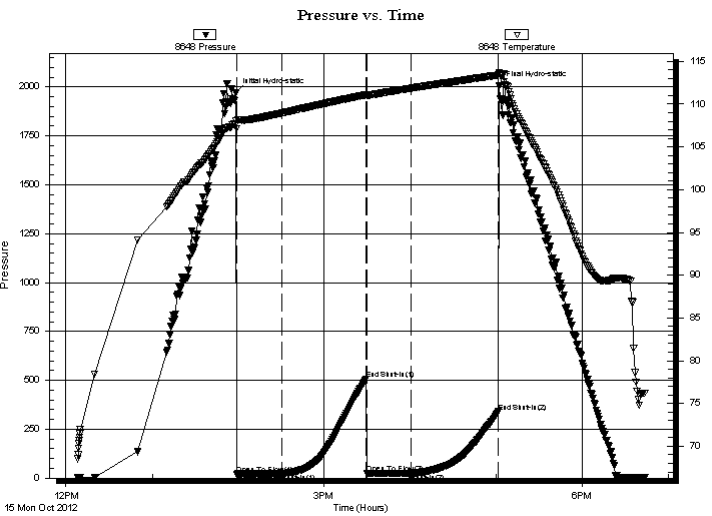
Time Off Btm: 2012.10.15 @ 17:02:00

TEST COMMENT: 30 - IF- Surface Blow did not build or die

60 - IS- No Return

30 - FF- No Blow

60 - FS- No Return



PRESSURE SUMMARY

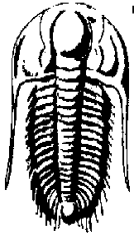
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1969.34	107.99	Initial Hydro-static
1	20.24	107.09	Open To Flow (1)
33	22.42	108.96	Shut-In(1)
91	506.32	111.08	End Shut-In(1)
92	23.28	110.96	Open To Flow (2)
123	23.59	111.85	Shut-In(2)
183	339.21	113.39	End Shut-In(2)
184	2006.50	113.71	Final Hydro-static

Recovery

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

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

22-4s-30w Decatur,KS

250 N Water STE 300
Wichita KS 67202

Phillips "A" #1-22

Job Ticket: 48088

DST#: 4

ATTN: Rocky Milford

Test Start: 2012.10.15 @ 12:08:00

GENERAL INFORMATION:

Formation: **LKC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:59:00

Time Test Ended: 18:43:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 43

Interval: 3919.00 ft (KB) To 3952.00 ft (KB) (TVD)

Reference Elevations: 2743.00 ft (KB)

Total Depth: 3952.00 ft (KB) (TVD)

2738.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6799 Inside

Press @ RunDepth: psig @ 3920.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.15 End Date: 2012.10.15

Last Calib.: 2012.10.15

Start Time: 12:08:05 End Time: 18:44:59

Time On Btm:

Time Off Btm:

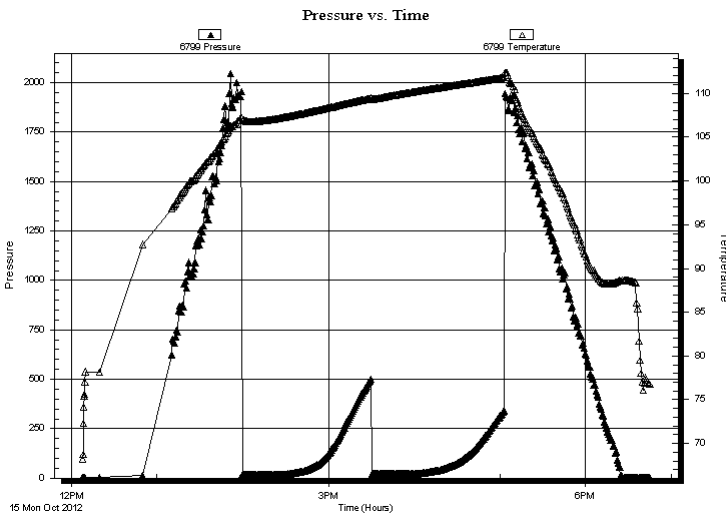
TEST COMMENT: 30 - IF- Surface Blow did not build or die

60 - IS- No Return

30 - FF- No Blow

60 - FS- No Return

PRESSURE SUMMARY



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

Recovery

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

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

22-4s-30w Decatur,KS

250 N Water STE 300
Wichita KS 67202

Phillips "A" #1-22

Job Ticket: 48088

DST#: 4

ATTN: Rocky Milford

Test Start: 2012.10.15 @ 12:08:00

Tool Information

Drill Pipe:	Length: 3430.00 ft	Diameter: 3.80 inches	Volume: 48.11 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: 485.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 50.50 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3919.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	62.00 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			3891.00	
Shut In Tool	5.00			3896.00	
Hydraulic tool	5.00			3901.00	
Jars	5.00			3906.00	
Safety Joint	3.00			3909.00	
Packer	5.00			3914.00	29.00 Bottom Of Top Packer
Packer	5.00			3919.00	
Stubb	1.00			3920.00	
Recorder	0.00	8648	Inside	3920.00	
Recorder	0.00	6799	Inside	3920.00	
Perforations	27.00			3947.00	
Bullnose	5.00			3952.00	33.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

22-4s-30w Decatur,KS

250 N Water STE 300
Wichita KS 67202

Phillips "A" #1-22

Job Ticket: 48088

DST#: 4

ATTN: Rocky Milford

Test Start: 2012.10.15 @ 12:08:00

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OSM 100M (oil spots)	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 #: 8648

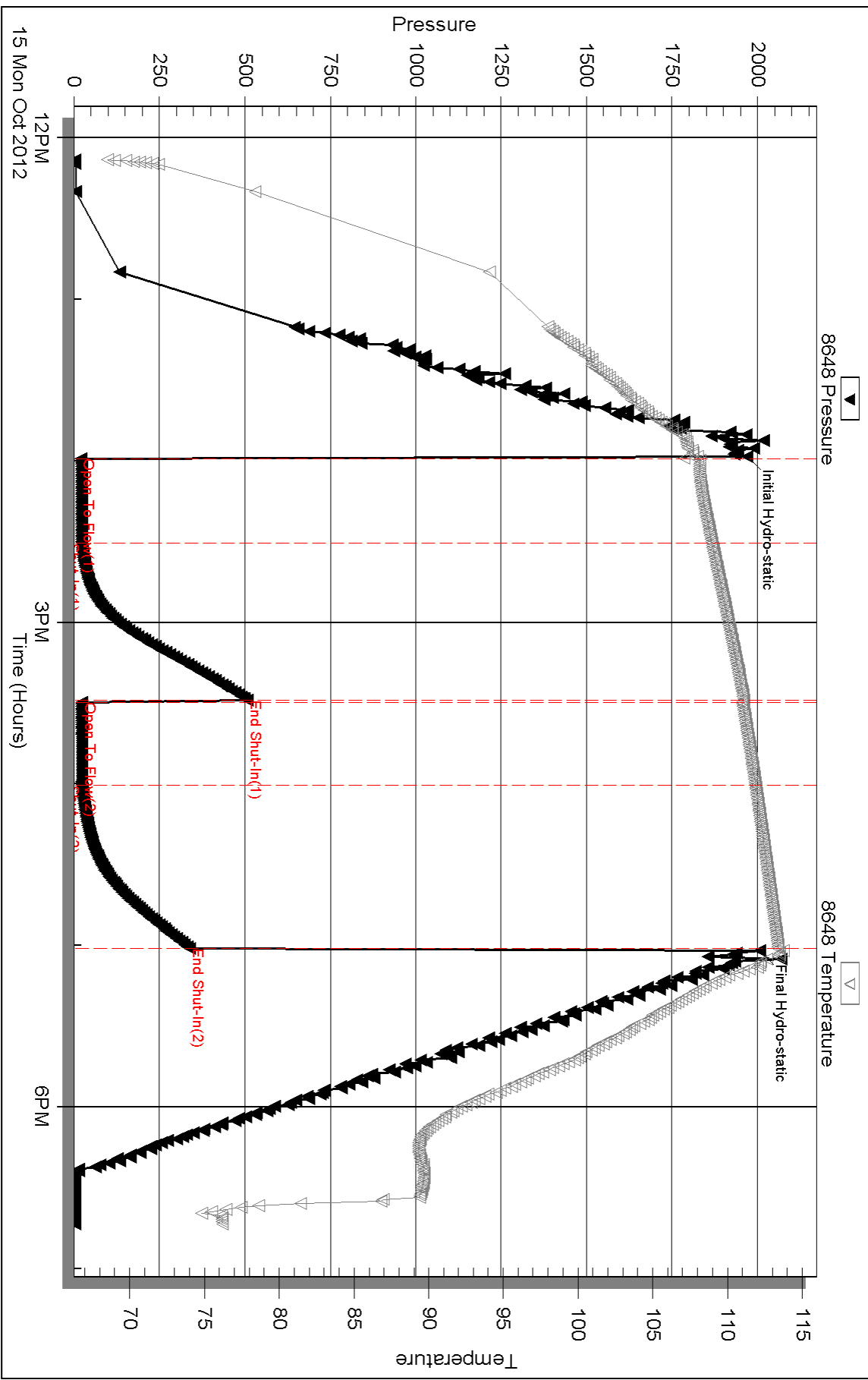
Inside

Murfin Drilling Co.

Phillips "A" #1-22

DST Test Number: 4

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 48088

Printed: 2012.10.19 @ 14:17:15

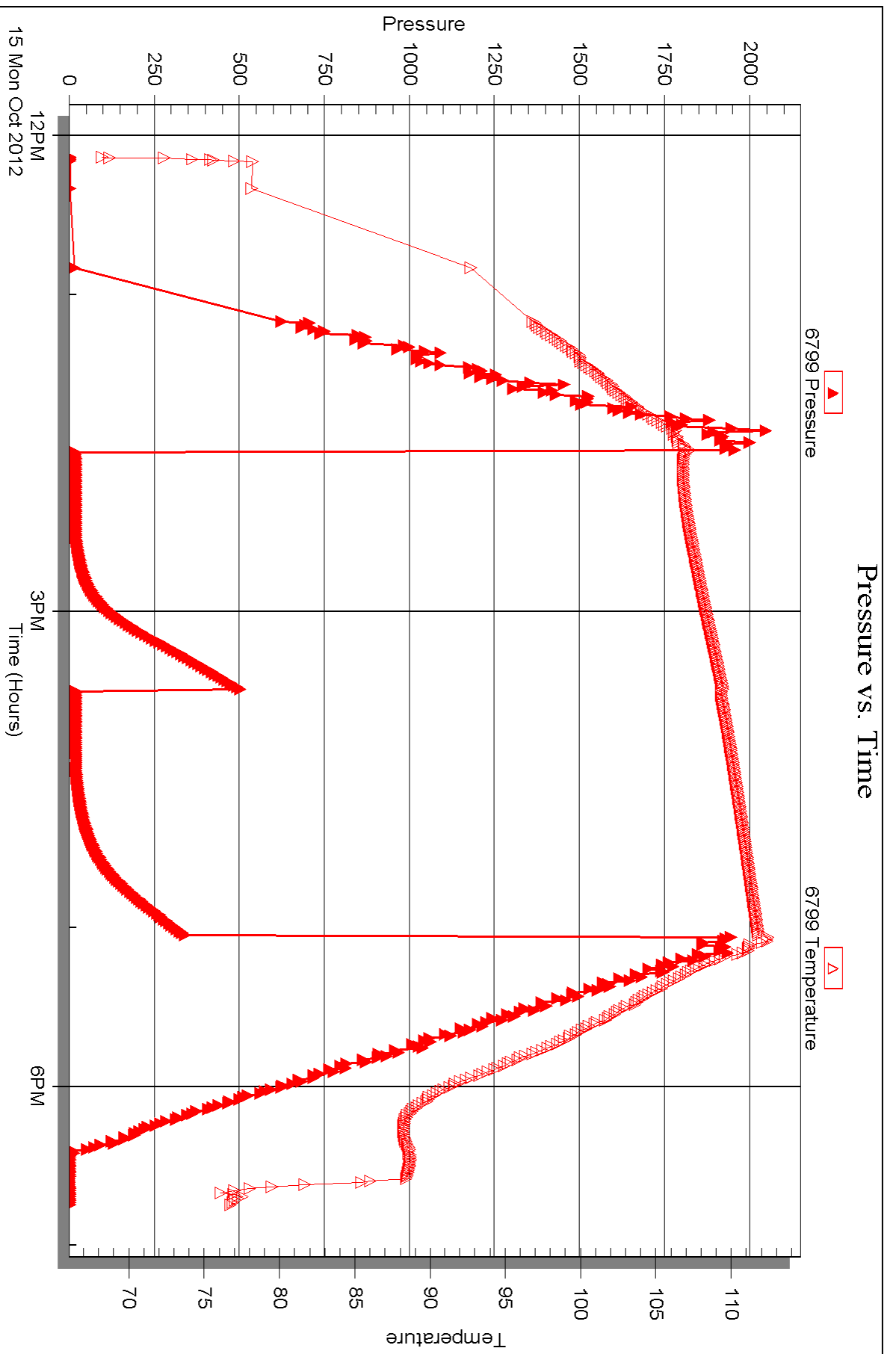
Serial #: 6799

Inside

Murfin Drilling Co.

Phillips "A" #1-22

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE 300
Wichita KS 67202

ATTN: Rocky Milford

Phillips "A" #1-22

22-4s-30w Decatur,KS

Start Date: 2012.10.16 @ 06:00:00

End Date: 2012.10.16 @ 14:12:30

Job Ticket #: 48089 DST #: 5

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

Printed: 2012.10.19 @ 14:16:05



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

22-4s-30w Decatur, KS

250 N Water STE 300
Wichita KS 67202

Phillips "A" #1-22

Job Ticket: 48089

DST#: 5

ATTN: Rocky Milford

Test Start: 2012.10.16 @ 06:00:00

GENERAL INFORMATION:

Formation: **LKC "J-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:02:45

Time Test Ended: 14:12:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 43

Interval: 3947.00 ft (KB) To 4016.00 ft (KB) (TVD)

Reference Elevations: 2743.00 ft (KB)

Total Depth: 4016.00 ft (KB) (TVD)

2738.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6799 Inside

Press @ Run Depth: 53.58 psig @ 3948.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.16

End Date: 2012.10.16

Last Calib.: 2012.10.16

Start Time: 06:00:05

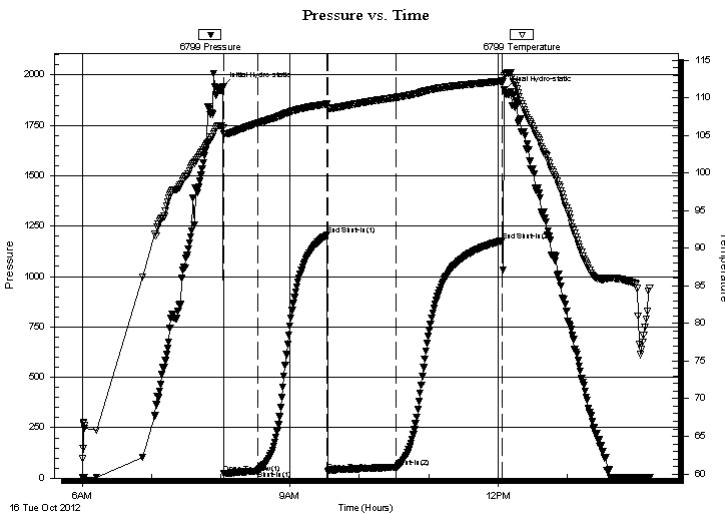
End Time: 14:12:29

Time On Btm: 2012.10.16 @ 08:01:45

Time Off Btm: 2012.10.16 @ 12:05:45

TEST COMMENT: 30 - IF- 1/2" Blow built to 2 1/2"
60 - IS- No Return
60 - FF- 1" Blow built to 1 1/4". Then died back to Surface Blow
90 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1941.55	106.02	Initial Hydro-static
1	22.35	105.27	Open To Flow (1)
30	37.73	106.64	Shut-In(1)
90	1205.98	109.19	End Shut-In(1)
91	34.82	108.67	Open To Flow (2)
150	53.58	110.06	Shut-In(2)
242	1178.30	112.22	End Shut-In(2)
244	1924.14	112.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
89.00	OCM 50o 50M	0.44
1.00	Free Oil 100o	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

22-4s-30w Decatur, KS

250 N Water STE 300
Wichita KS 67202

Phillips "A" #1-22

Job Ticket: 48089

DST#: 5

ATTN: Rocky Milford

Test Start: 2012.10.16 @ 06:00:00

GENERAL INFORMATION:

Formation: **LKC "J-K"**

Deviated: **No Whipstock:** **ft (KB)**

Test Type: **Conventional Bottom Hole (Initial)**

Time Tool Opened: **08:02:45**

Tester: **Kevin Mack**

Time Test Ended: **14:12:30**

Unit No: **43**

Interval: 3947.00 ft (KB) To 4016.00 ft (KB) (TVD)

Reference Elevations: **2743.00 ft (KB)**

Total Depth: **4016.00 ft (KB) (TVD)**

2738.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Good**

KB to GR/CF: **5.00 ft**

Serial #: 8648

Inside

Press @ Run Depth: **psig @ 3948.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2012.10.16**

End Date: **2012.10.16**

Last Calib.: **2012.10.16**

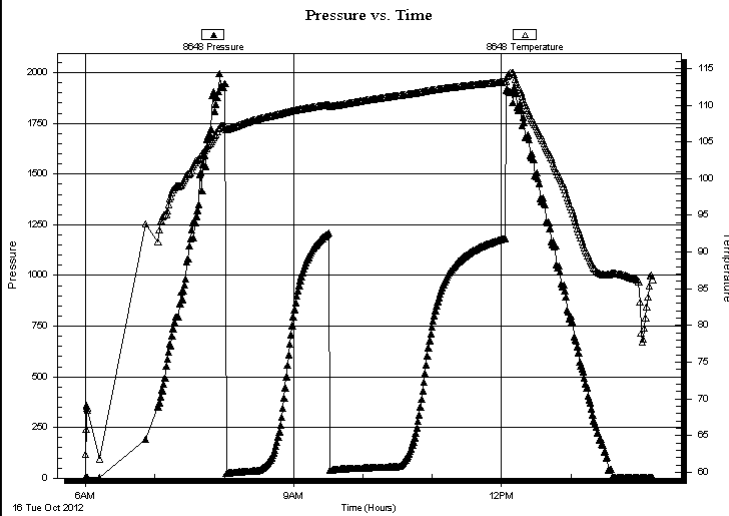
Start Time: **06:00:05**

End Time: **14:10:44**

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF- 1/2" Blow built to 2 1/2"
60 - IS- No Return
60 - FF- 1" Blow built to 1 1/4". Then died back to Surface Blow
90 - FS- No Return



PRESSURE SUMMARY

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

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
89.00	OCM 50o 50M	0.44
1.00	Free Oil 100o	0.00

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

22-4s-30w Decatur,KS

250 N Water STE 300
Wichita KS 67202

Phillips "A" #1-22

Job Ticket: 48089

DST#: 5

ATTN: Rocky Milford

Test Start: 2012.10.16 @ 06:00:00

Tool Information

Drill Pipe:	Length: 3453.00 ft	Diameter: 3.80 inches	Volume: 48.44 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: 485.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose:	95000.00 lb
			<u>Total Volume: 50.83 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	3947.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	69.00 ft				
Tool Length:	98.00 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			3919.00	
Shut In Tool	5.00			3924.00	
Hydraulic tool	5.00			3929.00	
Jars	5.00			3934.00	
Safety Joint	3.00			3937.00	
Packer	5.00			3942.00	29.00 Bottom Of Top Packer
Packer	5.00			3947.00	
Stubb	1.00			3948.00	
Recorder	0.00	8648	Inside	3948.00	
Recorder	0.00	6799	Inside	3948.00	
Perforations	1.00			3949.00	
Change Over Sub	1.00			3950.00	
Drill Pipe	62.00			4012.00	
Change Over Sub	1.00			4013.00	
Bullnose	3.00			4016.00	69.00 Bottom Packers & Anchor

Total Tool Length: 98.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

22-4s-30w Decatur,KS

250 N Water STE 300
Wichita KS 67202

Phillips "A" #1-22

Job Ticket: 48089

DST#: 5

ATTN: Rocky Milford

Test Start: 2012.10.16 @ 06:00:00

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
89.00	OCM 50o 50M	0.438
1.00	Free Oil 100o	0.005

Total Length: 90.00 ft Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

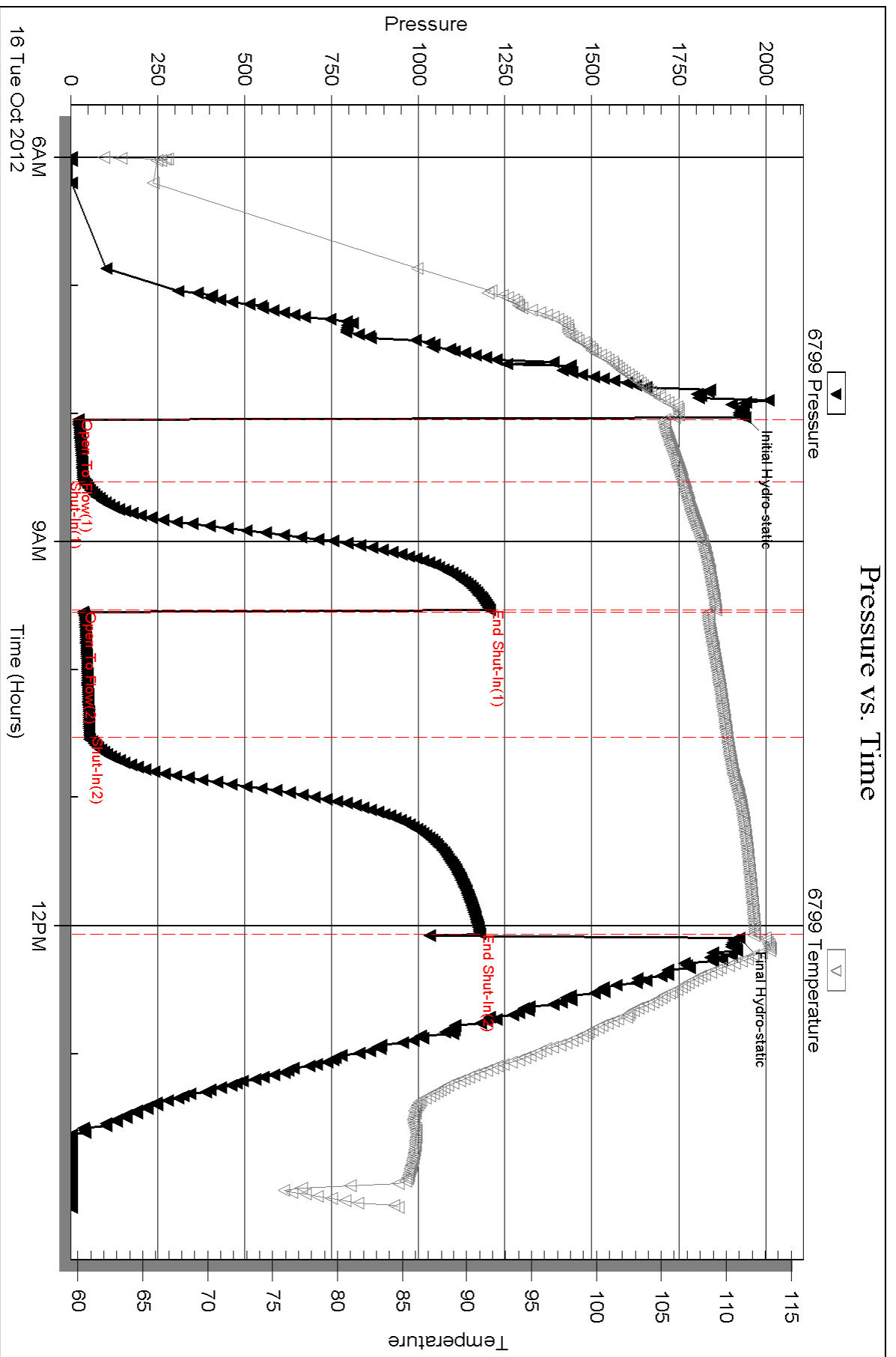
Serial #: 6799

Inside

Murfin Drilling Co.

Phillips "A" #1-22

DST Test Number: 5



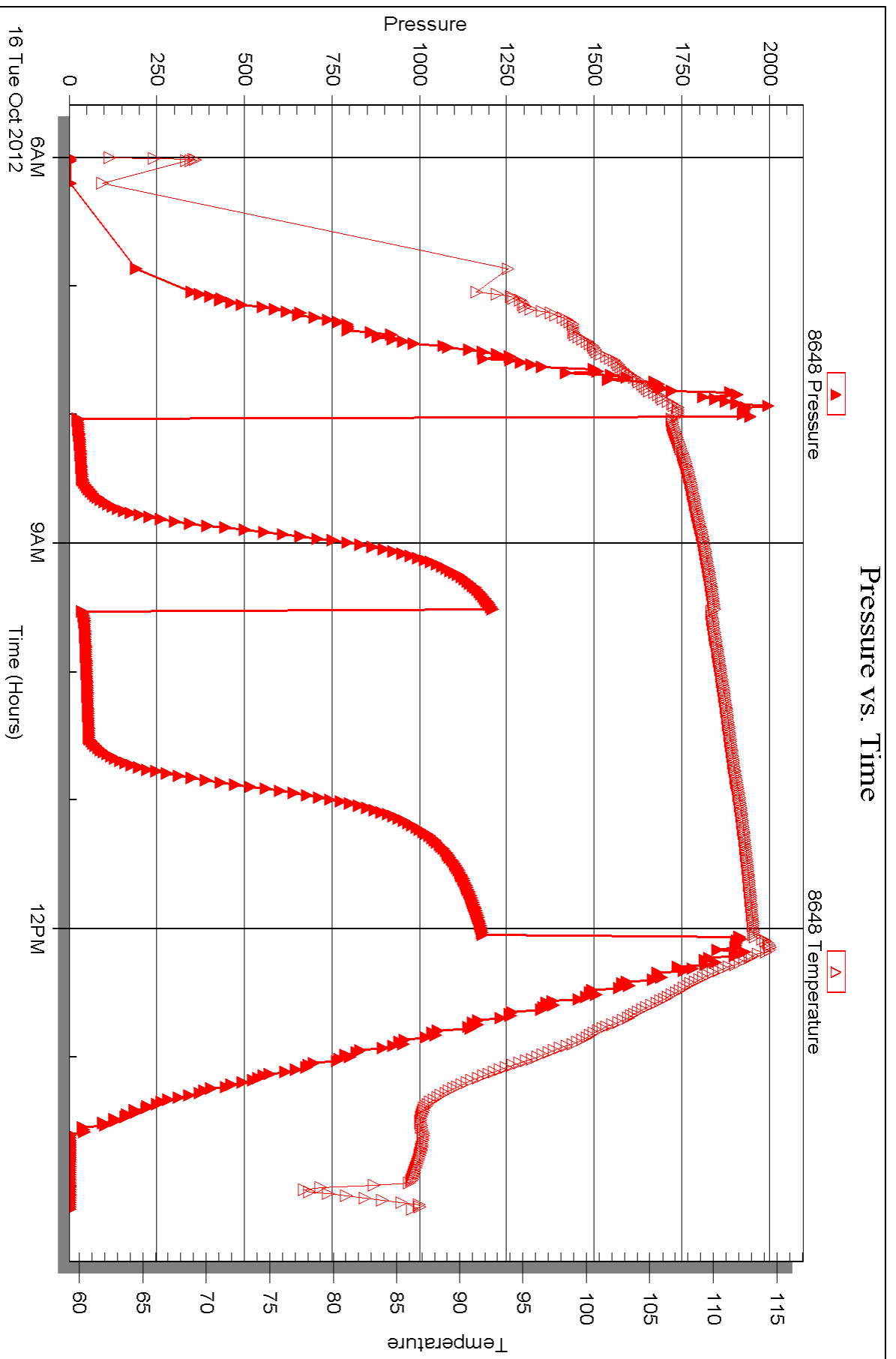
Serial #: 8648

Inside

Murfin Drilling Co.

Phillips "A" #1-22

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N Water STE 300
Wichita KS 67202

ATTN: Rocky Milford

Phillips "A" #1-22

22-4s-30w Decatur,KS

Start Date: 2012.10.17 @ 17:20:00

End Date: 2012.10.18 @ 00:33:30

Job Ticket #: 48090 DST #: 6

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

Printed: 2012.10.19 @ 14:05:25

Murfin Drilling Co.
22-4s-30w Decatur,KS
Phillips "A" #1-22
DST # 6
Cherokee Sand
2012.10.17



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co.

22-4s-30w Decatur, KS

250 N Water STE 300
Wichita KS 67202

Phillips "A" #1-22

Job Ticket: 48090

DST#: 6

ATTN: Rocky Milford

Test Start: 2012.10.17 @ 17:20:00

GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:03:45

Time Test Ended: 00:33:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 43

Interval: 4225.00 ft (KB) To 4252.00 ft (KB) (TVD)

Reference Elevations: 2743.00 ft (KB)

Total Depth: 4252.00 ft (KB) (TVD)

2738.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6799 Inside

Press @ Run Depth: 43.50 psig @ 4226.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.17

End Date:

2012.10.18

Last Calib.: 2012.10.18

Start Time: 17:20:05

End Time:

00:33:29

Time On Btm: 2012.10.17 @ 19:02:45

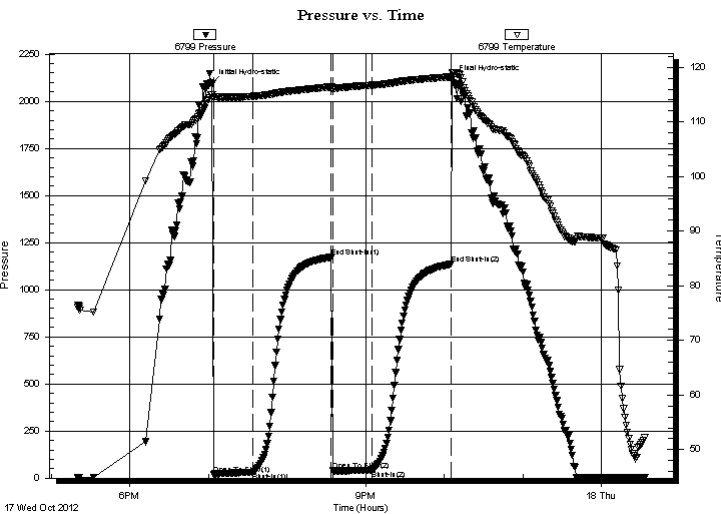
Time Off Btm: 2012.10.17 @ 22:05:45

TEST COMMENT: 30 - IF- Surface Blow built to 1 3/4"

60 - IS- No Return

30 - FF- No Blow

60 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2092.25	115.03	Initial Hydro-static
1	21.30	114.40	Open To Flow (1)
31	31.63	114.69	Shut-In(1)
91	1173.05	116.43	End Shut-In(1)
92	39.62	115.97	Open To Flow (2)
122	43.50	116.73	Shut-In(2)
182	1135.42	118.24	End Shut-In(2)
183	2114.16	118.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	OCM 40o 60M	0.25
10.00	Free Oil	0.05

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co.

22-4s-30w Decatur, KS

250 N Water STE 300
Wichita KS 67202

Phillips "A" #1-22

Job Ticket: 48090

DST#: 6

ATTN: Rocky Milford

Test Start: 2012.10.17 @ 17:20:00

GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:03:45

Time Test Ended: 00:33:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 43

Interval: 4225.00 ft (KB) To 4252.00 ft (KB) (TVD)

Reference Elevations: 2743.00 ft (KB)

Total Depth: 4252.00 ft (KB) (TVD)

2738.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8648 Inside

Press @ RunDepth: psig @ 4226.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.17 End Date: 2012.10.18

Last Calib.: 2012.10.18

Start Time: 17:20:35 End Time: 00:32:29

Time On Btm:

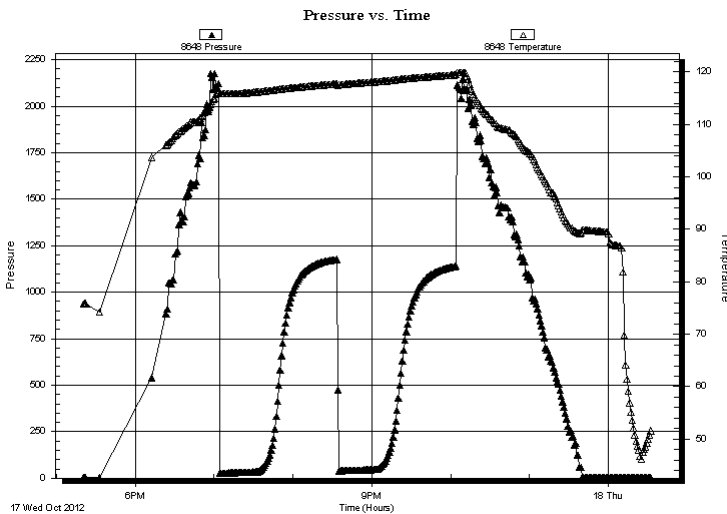
Time Off Btm:

TEST COMMENT: 30 - IF- Surface Blow built to 1 3/4"

60 - IS- No Return

30 - FF- No Blow

60 - FS- No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
50.00	OCM 40o 60M	0.25
10.00	Free Oil	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co.

22-4s-30w Decatur,KS

250 N Water STE 300
Wichita KS 67202

Phillips "A" #1-22

Job Ticket: 48090

DST#: 6

ATTN: Rocky Milford

Test Start: 2012.10.17 @ 17:20:00

Tool Information

Drill Pipe:	Length: 3736.00 ft	Diameter: 3.80 inches	Volume: 52.41 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: 485.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 54.80 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4225.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4197.00	
Shut In Tool	5.00			4202.00	
Hydraulic tool	5.00			4207.00	
Jars	5.00			4212.00	
Safety Joint	3.00			4215.00	
Packer	5.00			4220.00	29.00 Bottom Of Top Packer
Packer	5.00			4225.00	
Stubb	1.00			4226.00	
Recorder	0.00	8648	Inside	4226.00	
Recorder	0.00	6799	Inside	4226.00	
Perforations	21.00			4247.00	
Bullnose	5.00			4252.00	27.00 Bottom Packers & Anchor

Total Tool Length: 56.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co.

22-4s-30w Decatur,KS

250 N Water STE 300
Wichita KS 67202

Phillips "A" #1-22

Job Ticket: 48090

DST#: 6

ATTN: Rocky Milford

Test Start: 2012.10.17 @ 17:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

20 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 4.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
50.00	OCM 40o 60M	0.246
10.00	Free Oil	0.049

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API 22 @ 80 deg. = 20 cor.

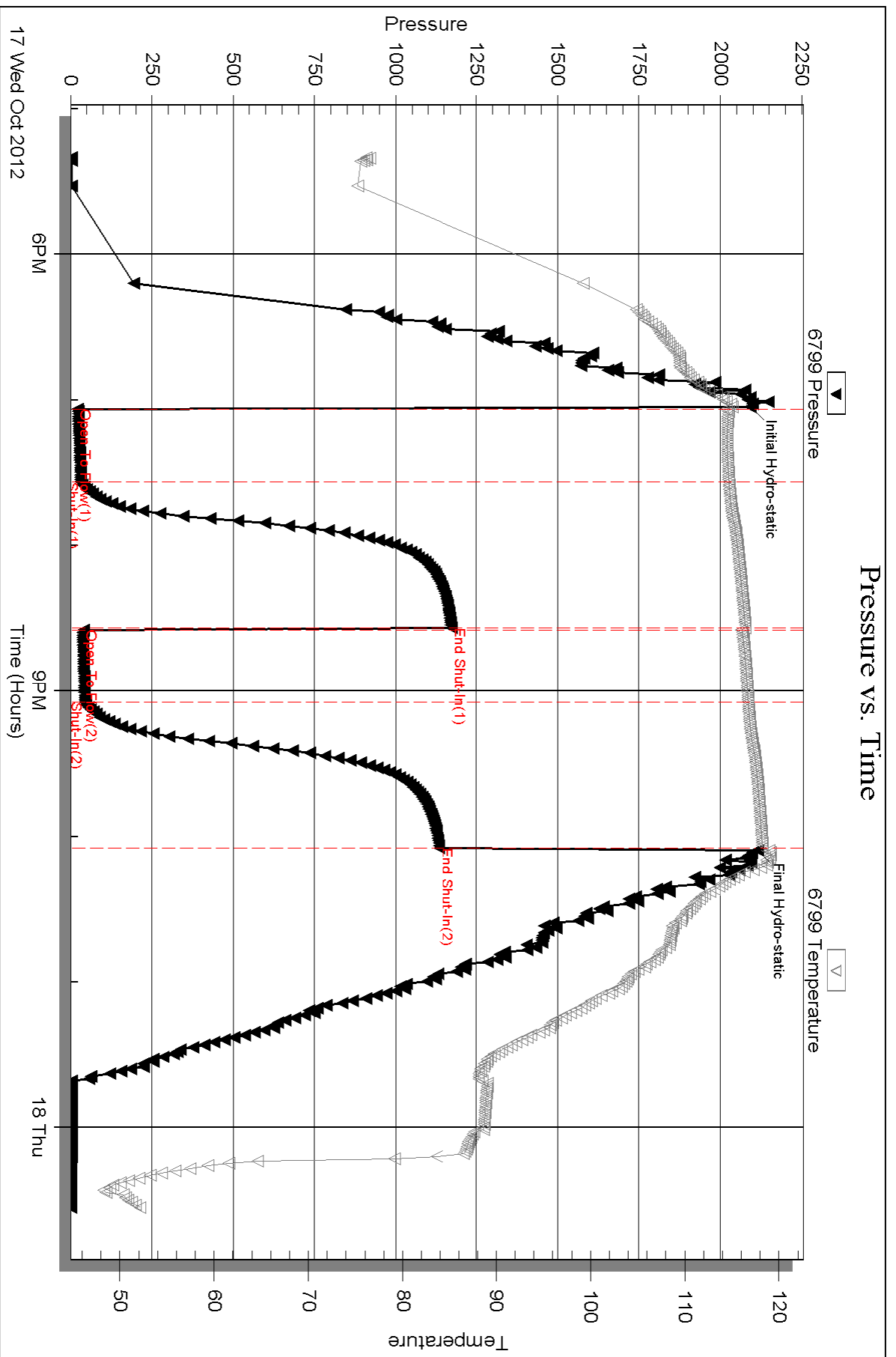
Serial #: 6799

Inside

Murfin Drilling Co.

Phillips "A" #1-22

DST Test Number: 6



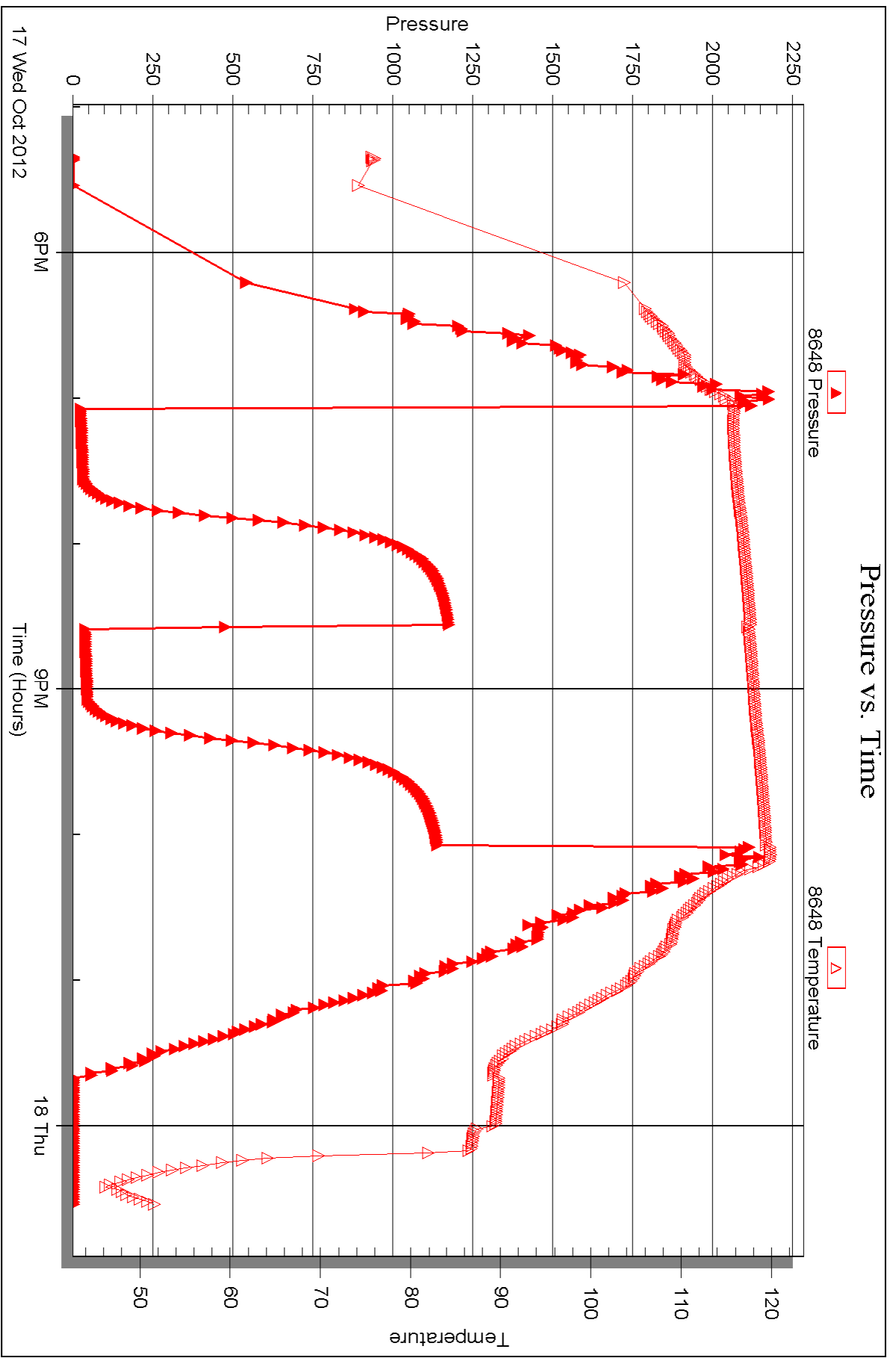
Serial #: 8648

Inside

Murfin Drilling Co.

Phillips "A" #1-22

DST Test Number: 6





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48085

Well Name & No. Phillips A #1-22 Test No. 1 Date 10-13-12
 Company Murfin Drilling Elevation 2738 KB 2743 GL
 Address 250 NWATER STE 300 Wichita Ks 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin Rig 3
 Location: Sec. 22 Twp. 4s Rge. 30w Co. Decatur State KS

Interval Tested 3818 3850 Zone Tested Lansing A
 Anchor Length 32 Drill Pipe Run 3335 Mud Wt. 9.1
 Top Packer Depth 3813 Drill Collars Run 485 Vis 57
 Bottom Packer Depth 3818 Wt. Pipe Run 0 WL 52
 Total Depth 3850 Chlorides 900 ppm System LCM

Blow Description IF; Built to 7'1/2"
ISI; No Blow
FF; Built to B.O.B. in 58 min
FSI; No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>M</u>			<u>100</u>	
<u>185</u>	<u>MW</u>		<u>90</u>	<u>10</u>	
<u>240</u>	<u>MW</u>		<u>95</u>	<u>5</u>	

Rec Total 495 BHT 117 Gravity _____ API RW .393 @ 66.2 °F Chlorides 18000 ppm

(A) Initial Hydrostatic 1895 Test 1150 T-On Location 11:45
 (B) First Initial Flow 21 Jars 250 T-Started 12:50
 (C) First Final Flow 111 Safety Joint 75 T-Open 15:10
 (D) Initial Shut-In 1289 Circ Sub NYC T-Pulled 19:10
 (E) Second Initial Flow 116 Hourly Standby _____ T-Out 21:11
 (F) Second Final Flow 146 Mileage ~~200~~ 50 RT 77.50 Comments _____
 (G) Final Shut-In 1283 Sampler _____
 (H) Final Hydrostatic 1874 Straddle _____ Ruined Shale Packer _____
 Shale Packer 250 Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 60 Day Standby _____ Total 1802.50
 Final Flow 60 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 90 Sub Total 1802.50

Approved By _____ Our Representative

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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48086

Well Name & No. Phillips A # 1-22 Test No. 2 Date 10-14-12
 Company Murkin Drilling Co., Inc. Elevation ~~2738~~ 2738 GL
 Address 250 N Water STE # 300 Wichita, KS 67202
 Co. Rep / Geo. Rocky Milford Rig Murkin #3
 Location: Sec. 22 Twp. 4S Rge. 30 W Co. Decatur State KS

Interval Tested 3842-3866 Zone Tested LKC "B"
 Anchor Length 24' Drill Pipe Run 3333 Mud Wt. 9.1
 Top Packer Depth 3838 Drill Collars Run 485' Vis 57
 Bottom Packer Depth 3842 Wt. Pipe Run Ø WL 5.2
 Total Depth 3866 Chlorides 9000 ppm System LCM 1#

Blow Description IF- 1/4" Blow built to 1"
IS- NO Return
FF- NO Blow
FS- NO Return

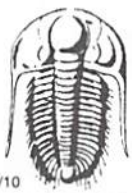
Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Free Oil</u>	<u>1000</u>			
<u>19</u>	<u>OCM</u>	<u>5</u>		<u>95</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT 110 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	<u>1939</u>	<input checked="" type="checkbox"/> Test	<u>1150</u>	T-On Location	<u>2:45 AM</u>
(B) First Initial Flow	<u>19</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>2:58 AM</u>
(C) First Final Flow	<u>26</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>4:38 AM</u>
(D) Initial Shut-In	<u>964</u>	<input checked="" type="checkbox"/> Circ Sub	<u>N/C</u>	T-Pulled	<u>7:38 AM</u>
(E) Second Initial Flow	<u>31</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>9:49 AM</u>
(F) Second Final Flow	<u>34</u>	<input checked="" type="checkbox"/> Mileage	<u>50 RT</u> 77.50	Comments	
(G) Final Shut-In	<u>745</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>1867</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	
Initial Open	<u>30</u>	<input checked="" type="checkbox"/> Shale Packer	<u>250</u>	<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>1802.50</u>
		<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>1802.50</u>		

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48087

Well Name & No. Phillips A #22 Test No. 3 Date 10-14-12
 Company Murfin Drilling Co., Inc Elevation 2743 KB 2738 GL
 Address 250 N Water STE #3000 Wichita, KS 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin #3
 Location: Sec. 22 Twp. 4S Rge. 30W Co. Decatur State KS

Interval Tested 3879-3903 Zone Tested LKC "F"
 Anchor Length 24' Drill Pipe Run 3390 Mud Wt. 9.3
 Top Packer Depth 3875 Drill Collars Run 485 Vis 57
 Bottom Packer Depth 3879 Wt. Pipe Run 0 WL 5.6
 Total Depth 3903 Chlorides 4,5000 ppm System LCM 1.5#

Blow Description IF - Surface Blow built to 9 3/4"
IS - NO Return
FF - Surface Blow Started at 3 min. Built to BoB in 45 min.
FS - NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>220</u>	<u>Muddy water</u>		<u>70</u>	<u>30</u>	
<u>300</u>	<u>Muddy water</u>		<u>95</u>	<u>5</u>	
<u>5</u>	<u>Mud (heavy)</u>			<u>100</u>	

Rec Total 525 BHT 120 Gravity - API RW .78 @ 75 ° F Chlorides 8,000 ppm

(A) Initial Hydrostatic <u>1956</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>5:30 PM</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>5:50 PM</u>
(C) First Final Flow <u>121</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>7:32 PM</u>
(D) Initial Shut-In <u>1304</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>11:32 PM</u>
(E) Second Initial Flow <u>127</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2:07 AM</u>
(F) Second Final Flow <u>267</u>	<input checked="" type="checkbox"/> Mileage <u>50RT</u> <u>77.50</u>	Comments
(G) Final Shut-In <u>1280</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1918</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>1552.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1552.50</u>	

Approved By _____ Our Representative

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48088

Well Name & No. Phillips A#1-22 Test No. 84 Date 10-15-12
 Company Murfin Drilling Co., Inc. Elevation 2743 KB 2738 GL
 Address 250 N Water STE #3000 Wichita, KS 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin #3
 Location: Sec. 22 Twp. 4S Rge. 30W Co. Decatur State KS

Interval Tested 3919-3952 Zone Tested LKC "H"
 Anchor Length 33' Drill Pipe Run 3430 Mud Wt. 9.3
 Top Packer Depth 3915 Drill Collars Run 485 Vis 51
 Bottom Packer Depth 3919 Wt. Pipe Run Ø WL 5.6
 Total Depth 3952 Chlorides 1,500 ppm System LCM 1.5*

Blow Description IF- Surface Blow did not build or die
IS- No Return
FF- NO Blow
FS- NO Return


Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>OSM</u>	<u>Spots</u>		<u>1000</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 5 BHT 113 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	<u>1969</u>	<input checked="" type="checkbox"/> Test	<u>1150</u>	T-On Location	<u>11:30 AM</u>
(B) First Initial Flow	<u>20</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>12:00 PM</u>
(C) First Final Flow	<u>22</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>2:00 PM</u>
(D) Initial Shut-In	<u>506</u>	<input checked="" type="checkbox"/> Circ Sub	<u>NIC</u>	T-Pulled	<u>5:00 PM</u>
(E) Second Initial Flow	<u>23</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>6:45 PM</u>
(F) Second Final Flow	<u>23</u>	<input checked="" type="checkbox"/> Mileage	<u>50 RT</u> 77.50	Comments	
(G) Final Shut-In	<u>339</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2006</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>1552.50</u>
		<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>1552.50</u>		

Approved By _____

Our Representative 

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48089

Well Name & No. Phillips A #1-22 Test No. 5 Date 10-16-12
 Company Murray Drilling Co., Inc. Elevation 2743 KB 2738 GL
 Address 250 N Water STE #3000 Wichita, KS 67202
 Co. Rep / Geo. Rocky Miford Rig Murray #3
 Location: Sec. 22 Twp. 4S Rge. 30W Co. Decatur State KS

Interval Tested 3947-4016 Zone Tested LKC "J-K"
 Anchor Length 69' Drill Pipe Run 3453 Mud Wt. 9.2
 Top Packer Depth 3943 Drill Collars Run 485 Vis SB
 Bottom Packer Depth 3947 Wt. Pipe Run 0 WL 56
 Total Depth 4016 Chlorides 1500 ppm System LCM 2#

Blow Description IF- 1/2" Blow built to 2 1/2"
IS- NO Return
FF- 1" Blow built to 1 1/4". Then died back to Surface Blow.
FS- NO Return

Sec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Free Oil</u>	<u>100</u>			
<u>89</u>	<u>OCM</u>	<u>50</u>		<u>50</u>	

Rec Total 908 BHT 112 Gravity - API RW - @ - °F Chlorides - ppm
 A) Initial Hydrostatic 1941 Test 1250 T-On Location 5:50 AM
 B) First Initial Flow 22 Jars 250 T-Started 6:00 AM
 C) First Final Flow 37 Safety Joint 75 T-Open 8:02 AM
 D) Initial Shut-In 1205 Circ Sub N/C T-Pulled 12:02 PM
 E) Second Initial Flow 34 Hourly Standby _____ T-Out 2:12 PM
 F) Second Final Flow 53 Mileage 50 RT 77.50 Comments _____
 G) Final Shut-In 1178 Sampler _____
 H) Final Hydrostatic 1924 Straddle _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1652.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1652.50

Approved By _____ Our Representative [Signature]
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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48090

Well Name & No. Phillips A #1-22 Test No. 6 Date 10-17-12
 Company Murfin Drilling Co., Inc Elevation 2743 KB 2738 GL
 Address 250 N Water STE # 300 Wichita, KS 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin #3
 Location: Sec. 22 Twp. 4S Rge. 30 W Co. Decatur State KS

Interval Tested 4225-4252 Zone Tested Cherokee Sand
 Anchor Length 27' Drill Pipe Run 3736 Mud Wt. 9.1
 Top Packer Depth 4221 Drill Collars Run 485 Vis 56
 Bottom Packer Depth 4225 Wt. Pipe Run Ø WL 4.8
 Total Depth 4252 Chlorides 1200 ppm System LCM 2#

Blow Description IF - Surface Blow built to 1 3/4"
IS - No Return
FF - No Blow
FS - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>100</u>	<u>Free oil</u>	<u>100</u>			
<u>50</u>	<u>OCM</u>	<u>40</u>		<u>60</u>	

Rec Total 60' BHT 118 Gravity 20 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2092</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>4:45 PM</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>5:20 PM</u>
(C) First Final Flow <u>31</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>7:04 PM</u>
(D) Initial Shut-In <u>1173</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>10:04 PM</u>
(E) Second Initial Flow <u>39</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>12:33 AM</u>
(F) Second Final Flow <u>43</u>	<input checked="" type="checkbox"/> Mileage <u>50 RT X2</u> 150	Comments
(G) Final Shut-In <u>1135</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2114</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open 30 Shale Packer
 Initial Shut-In 60 Extra Packer
 Final Flow 30 Extra Recorder
 Final Shut-In 60 Day Standby X2 hrs 2.5hrs
 Accessibility
 Sub Total 1725

Sub Total 83.33
 Total 1808.33
 MP/DST Disc't

Approved By _____ Our Representative [Signature]

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PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

*acct.
Prod-LizH*

INVOICE

Invoice Number: 133047

Invoice Date: Oct 8, 2012

Page: 1

Bill To:

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

PROD COPY



Customer ID	Well Name# or Customer P.O.	Payment Terms	
Murfin	Phillips A #1-22	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Oct 8, 2012	11/7/12

Quantity	Item	Description	Unit Price	Amount
160.00	MAT	Class A Common	17.90	2,864.00
6.00	MAT	Chloride	64.00	384.00
168.00	SER	Cubic Feet Charge	2.48	416.64
387.30	SER	Ton Mileage Charge	2.60	1,006.98
1.00	SER	Surface	1,512.25	1,512.25
50.00	SER	Pump Truck Mileage	7.70	385.00
1.00	SER	Manifold & Head Rental	275.00	275.00
50.00	SER	Light Vehicle Mileage	4.40	220.00
1.00	EQP	8.5/8 Wooden Plug	107.64	107.64
1.00	CEMENTER	Alan Ryan		
1.00	EQUIP OPER	Wayne McGhghy		
		<i>ID 203</i>	<i>4691.30</i>	<i>Coment S. Coy.</i>
		<i>3. 6225.0001</i>		<i># 1-22</i>
		<i>01911)</i>		

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

\$2725.17

ONLY IF PAID ON OR BEFORE
Nov 2, 2012

Subtotal	7,171.51
Sales Tax	244.96
Total Invoice Amount	7,416.47
Payment/Credit Applied	
TOTAL	7,416.47

(2725.17)

4691.30

ALLIED OIL & GAS SERVICES, LLC 058783

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Dakota H

DATE <u>10/8/12</u>	SEC. <u>22</u>	TWP. <u>4</u>	RANGE <u>30</u>	CALLED OUT	ON LOCATION	JOB START <u>9:00</u>	JOB FINISH <u>2:30</u>
LEASE <u>Phillips A</u>	WELL# <u>1-22</u>	LOCATION <u>Roxford 18N 2E 1/2S</u>			COUNTY <u>Reed</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>			<u>FINTO</u>		<u>1-01</u>	<u>1.3</u>	

CONTRACTOR <u>Martín #3</u>	OWNER <u>Same</u>
TYPE OF JOB <u>SPR PAIS</u>	
HOLE SIZE <u>12 1/4</u>	T.D. <u>221</u>
CASING SIZE <u>8 5/8</u>	DEPTH <u>221</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15'</u>	
PERFS.	
DISPLACEMENT	

CEMENT AMOUNT ORDERED 160 Corn 370 CC

COMMON <u>160</u>	@ <u>1.720</u>	<u>2864.00</u>
POZMIX	@	
GEL	@	
CHLORIDE <u>6</u>	@ <u>69.00</u>	<u>384.00</u>
ASC	@	

EQUIPMENT

PUMP TRUCK # <u>431</u>	CEMENTER <u>Alan Ryan</u>
BULK TRUCK # <u>484</u>	HELPER <u>Wayne McElroy</u>
BULK TRUCK #	DRIVER <u>Thomas (TWS)</u>
BULK TRUCK #	DRIVER

HANDLING 168 CF @ 2.48 416.64

MILEAGE 2.22 38.130 77.46 1006.28

TOTAL 467.25

REMARKS:
Amalg, Circulate, Mix cement
Displace cement w/ H₂O
Cement did Circulate
Thm W, Thm
Thm W, Thm, Thomas

SERVICE

DEPTH OF JOB <u>1512</u>	<u>35</u>
PUMP TRUCK CHARGE	
EXTRA FOOTAGE	
MILEAGE <u>50 miles</u>	@ <u>7.70</u> <u>385.00</u>
MANIFOLD <u>Head</u>	@ <u>2.25</u> <u>225.00</u>
<u>Vehicle 50 miles</u>	@ <u>4.40</u> <u>220.00</u>

CHARGE TO: Martin Billing

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL 2382.25

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.

PLUG & FLOAT EQUIPMENT

<u>Wooden Plug</u>	@ <u>107</u>	<u>64.7</u>
	@	
	@	
	@	
	@	

TOTAL 107.64

SALES TAX (If Any) 244.96

TOTAL CHARGES 7,171.51

DISCOUNT 3125.17 IR PAID IN 30 DAYS

PRINTED NAME _____

SIGNATURE Keith Van Belt

3820

Accty - cc: WF, cc: LIL cc: LK-1



CONSOLIDATED
Oil Well Services, LLC

REMIT TO
Consolidated Oil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

MAIN OFFICE
P.O. Box 884
Chanute, KS 66720
620/431-9210 • 1-800/467-8676
Fax 620/431-0012

INVOICE

Invoice # 253858

Invoice Date: 10/22/2012 Terms: 10/10/30,n/30

Page 1

MURFIN DRILLING
P.O. BOX 288
RUSSELL KS 67665
() -

PHILLIPS A 1-22
37259
22-4-30
10-19-2012
KS

USED FOR IC 103
APPROVED [Signature]

Part Number	Description	Qty	Unit Price	Total
1126	OIL WELL CEMENT	225.00	22.5500	5073.75
1110A	KOL SEAL (50# BAG)	1125.00	.5600	630.00
1102	CALCIUM CHLORIDE (50#)	240.00	.8900	213.60
1111A	SODIUM METASILICATE	200.00	2.4000	480.00
4159	FLOAT SHOE AFU 5 1/2"	1.00	413.0000	413.00
4454	5 1/2" LATCH DOWN PLUG	1.00	303.0000	303.00
4136	TURBOLIZER 5 1/2"	15.00	72.0000	1080.00
4104	CEMENT BASKET 5 1/2"	2.00	276.0000	552.00
4285	5 1/2" PORT COLLAR	1.00	2075.0000	2075.00
4315	ROTATING SCRATCHERS	12.00	90.0000	1080.00
1142A	KCL SUB MB6875 CC3107 (1	2.00	39.1000	78.20

Sublet Performed	Description	Total
9996-130	CEMENT MATERIAL DISCOUNT	-1197.86
9995-130	CEMENT EQUIPMENT DISCOUNT	-415.35

Description	Hours	Unit Price	Total
399 SINGLE PUMP	1.00	3020.00	3020.00
399 EQUIPMENT MILEAGE (ONE WAY)	50.00	5.00	250.00
460 TON MILEAGE DELIVERY	1.00	883.50	883.50

Amount Due 17006.49 if paid after 11/21/2012

Parts:	11978.55	Freight:	.00	Tax:	787.00	AR	15305.84
Labor:	.00	Misc:	.00	Total:	15305.84		
Sublt:	-1613.21	Supplies:	.00	Change:	.00		

Signed _____ Date _____



CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 37259

LOCATION Oakley, KS

FOREMAN Kelly Baker

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
10-19-12	5406	Phillips A #1-22	22	45	30W	Decatur	
CUSTOMER <u>Martin</u>		Oberlin		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS		South to Rd 15		<u>309</u>	<u>Jerry P</u>		
CITY		8 W		<u>416</u>	<u>Mark</u>	<u>Griffith</u>	
STATE		13/4 N					
ZIP CODE		E:nto					

JOB TYPE Prod HOLE SIZE 7 7/8 HOLE DEPTH 4450 CASING SIZE & WEIGHT 5 1/2 ~~15 1/2~~
 CASING DEPTH 4438 DRILL PIPE _____ TUBING Pc top #45 OTHER Pc @ 2562
 SLURRY WEIGHT 14² SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT IN CASING _____
 DISPLACEMENT 105 bbl DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: safety meeting, ran float equip and JT #3 cent 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 44, baskets #4 & 45, Pc top 45, ran 1/2 of pipe, circulated for 30 min, ran pipe to bottom & circulated for 1 hr, pumped 5 bbl water flush 5 bbl mixed @ 175 SKS OWC 5# Ko-seal down center, 30 RH 20 MH, washed out pump & lines, released plug & displaced with 102 bbl water with 750 lift & plug landed @ 1500# released pressure, float held, washed out pump & lines rigged down.

Thank you Kelly & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54010C	1	PUMP CHARGE	3030 ⁰⁰	3030 ⁰⁰
5400	50 mi	MILEAGE	5 ⁰⁰	250 ⁰⁰
1126	225 SKS	OWC	2255	5073 ⁷⁵
1110A	1125#	Ko-seal	156	630 ⁰⁰
1102	240#	calcium chloride	189	213 ⁶⁰
1111A	200#	sodium metasilicate	240	480 ⁰⁰
5407A	10.58	Ton Mileage delivery	167	883 ⁵⁰
4159	1	5 1/2 AFU Flat shoe (w)	413 ⁰⁰	413 ⁰⁰
4454	1	5 1/2 Latchdown / Plug (I)	303 ⁰⁰	303 ⁰⁰
4136	15	Turbo Centralizer (w) 5 1/2	72 ⁰⁰	1080 ⁰⁰
41104	2	5 1/2 basket (w)	276 ⁰⁰	552 ⁰⁰
4285	1	5 1/2 part collar	2075 ⁰⁰	2075 ⁰⁰
4315	12	Rotation scratchers	90 ⁰⁰	1080 ⁰⁰
1142A	2 gal	KCL	39 ¹⁰	78 ³⁰
				16,132 ⁰⁵
				1613 ²⁴
				14,518 ⁸⁴
			SALES TAX	787 ⁰⁰
			ESTIMATED	
			TOTAL	15305 ⁸⁴

Revin 3737

7:30 PM AUTHORIZATION Buck Selus TITLE _____

DATE 10-19-12

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

253858