



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1074596
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: _____

1074596

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

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

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> _____	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
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

February 20, 2012

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

Re: ACO1
API 15-051-26205-00-00
Dorzweiler 1-3
SE/4 Sec.03-14S-19W
Ellis 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

MDCI Dorzweiler #1-3 1520' FSL 500' FEL Sec. 3-T14S-R19W Ellis County, KS 2191' KB	MDCI Stadelman #1-3 950 FSL 2145 FEL Sec. 3-T14S-R19W Ellis County, KS 2177' KB
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Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	1479	+712	-4	1478	+713	-3	1461	+716
B/Anhydrite	1520	+671	-4	1518	+673	-2	1502	+675
Topeka	3198	-1007	+4	3198	-1007	+4	3188	-1011
Heebner	3444	-1253	Flat	3443	-1252	+1	3430	-1253
Toronto	3467	-1276	+1	3466	-1275	+2	3454	-1277
Lansing	3493	-1302	-1	3496	-1305	-4	3478	-1301
BKC	3746	-1555	-10	3736	-1545	Flat	3722	-1545
Arbuckle	3833	-1642	-19	3842	-1651	-28	3800	-1623
RTD	3905	-1714					3935	
LTD				3906			1461	



GEOLOGIST'S REPORT

OPERATOR **MURFIN DRILLING COMPANY, INC.**

LEASE **DORZWEILER # 1-3**

LOCATION **1520 FSL & 500 FEL**

SEC. **3** TWSP **14S** RGE **19W**

COUNTY **ELLIS** STATE **KANSAS**

FIELD **STADELMAN**

CONTRACTOR Murfin Drilling Company RIG NO. 8

COMMENCED 14 Nov. 2011 COMPLETED 22 Nov. 2011

MUD DISPLACED 3012 MUD TYPE Chemical

DRILLING TIME KEPT FROM 3100 TO 3905

SAMPLES SAVED FROM 3100 TO 3905

SAMPLES EXAMINED FROM 3100 TO 3905

GEOLOGICAL SUPERVISION FROM 3059 TO 3905

GEOLOGIST ON WELL Paul Gunzelman

ELEVATIONS

KB **2191 Ft.**

GL **2186 Ft.**

ALL MEASUREMENTS

FROM K.B.

CASING RECORD

Conductor None

Surface 8 5/8" @ 220'

Production 5 1/2" @ 3897'

ELECTRICAL SURVEYS:

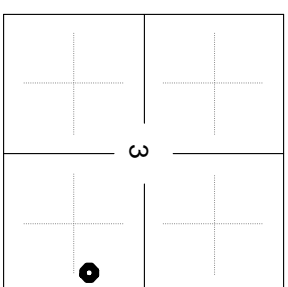
Log-Tech, Inc.

Comp. Neutron Density

Dual Induction

Micro-resistivity

Comp. Sonic



FORMATION NAME	LOG		SAMPLE	
	TOP	DATUM	TOP	DATUM
Stone Corral	1478	+713	1479	+712
Base/Anhydrite	1519	+672	1520	+671
Topoka	3199	-1008	3198	-1007
Heebner Shale	3444	-1253	3444	-1253
Toronto	3466	-1275	3467	-1276
Lansing	3495	-1304	3493	-1302
Base/Kansas City	3737	-1546	3735	-1544
Arbuckle	3847	-1656	3833	-1642
Total Depth	3906	-1715	3905	-1714

REMARKS

API 15-051-26205-00-00

Drilling Fluids: Morgan Mud, Inc. (David Lines, engineer)

Drill Stem Testing: Trilobite Testing, Inc. (Brett Dickinson, tester)

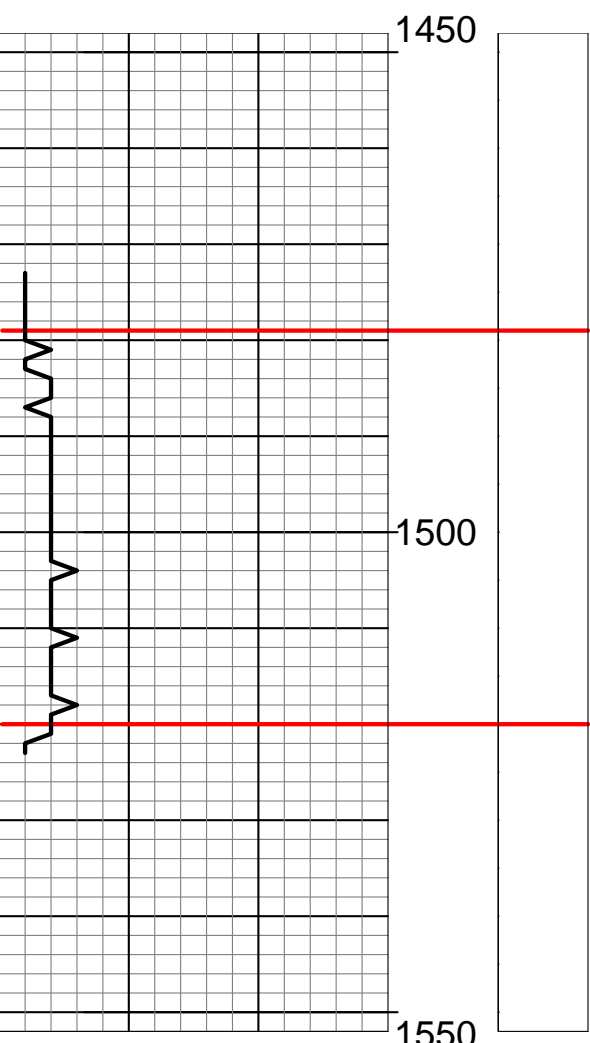
Gas Trailer: No Gas Trailer

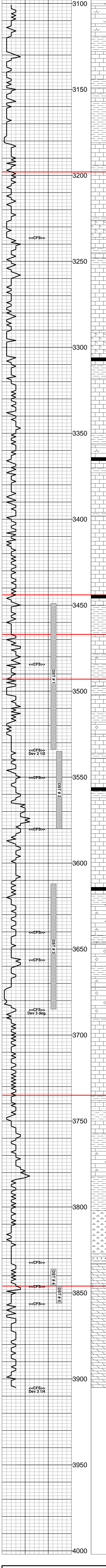
Reserve Pit Chlorides: 32,800 ppm

REMARKS	SAMPLE DESCRIPTIONS	SHOWS	LITHOLOGY	DEPTH	DRILL TIME (MIN/FT)
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STONE CORRAL
1479 (+712)

BASE/ANHYDRITE
1520 (+671)





Ls: Crm-tn, fxl, sli chky, foss (Fus) some intbd gy sh, n/s.

Ls: Gy-brn, fn-vfxln, arg, some dk gy sh inc, tr armor calc.

Sh: Gy & dk gy, fis, occ silty, tr gum.

Ls: Crm, mott w/dk gy sh fxl, sbchky, n.v.p.

Ls: Crm-lt gy, fxl, sli arg, bcm tn mott w/dk gy sh, fxl, foss, intbd gy & dk gy fis silty sh, some lt gy sil calc, slst.

Ls: Crm-tn, fxl, occ sbchky, sli foss, some arg, intbd dk gy fis sli pyr sh, n.v.p.

Sh: Gy & dk gy, fis, sli pyr, tr carb mat, some silty.

Sh: Gy dk gy & gy-brn, fis, occ carb, sli pyr, tr silty, some gy arg slst.

Slst: Dk gy, sli pyr, tr carb mat.

Ls: Crm-tn, fxl, some dk gy sh inc, sli foss, n.v.p.

Ls: Crm-tn, fxl, tr org rem, some arg, n/s.

Sh: Lt gn & gy-gn, fis, silty, gum in pt.

Ls: Crm, fxl, chky-sbchky, tr org rem some spr calc, n.v.p.

Ls: Crm-tn, fxl, sli foss (Brach) some dk gy sh inc, occ spr calc, n.v.p.

Ls: Tn-brn & dk gy-brn, fn-vfxln, smwt arg, r.org rem, n.v.p.

Sh: V.lt gn, blk, silty, calc, some gum.

Ls: Crm, tr crm-lt gy, gran sli dol, chky, some spr calc, fr-gd intrgran por, n/s.

Ls: Crm-lt gy, fxl, chky, sli foss, smwt arg, n.v.p.

Sh: Lt gy & gy-gn, blk, silty, some gum.

Ls: Gy-brn & tn, mott w/dk gy sh, intbd gy fis sh, n.v.p.

Ls: Crm, tr crm-lt gy, fxl, chky, sli pyr, tr org rem, n.v.p.

Ls: Crm-gy, fn-vfxln, sbchky, tr pyr & gy op-trnsi cht, some intbd lt gn-gy sh, n.v.p.

Ls: Tn, finly gran, rextzd, dol, gd v.fn oom por, fr intrgran por, n/s.

Ls: Crm-tn, some gy-brn, fxl, smwt arg, tr gy & brn op vit cht, n/s.

Ls: Crm, some crm-tn, gran, dol, chky, gd intrgran & pp por, n/s.

Ls: Tn, gran, chky, sli foss (Fus) wh crm & gy op vit cht, gd intrgran por, n/s.

Sh: Blk, thn fis, carb, bcm gy & gy-brn fis silty, sli mica, tr gy-brn mott arg Ls, n/s.

Ls: Crm-tn, fxl-gran, sli chky, smwt dol, tr pyr, wh crm & gy op vit cht, fr-gd intrgran por, n/s.

Ls: Wh-crm, vfxln, some sbchky, tr frac, dns, n/s.

Ls: Wh-crm, vfxln, tr sbchky, crm op vit cht, n.v.p.

Sh: Gy & gn-gy, fis, some silty.

Ls: Crm, fxl, foss (Fus) sbchky in pt, tr crm op vit cht & armor calc, n/s.

Sh: Blk, thn fis, carb.

Sh: Dk gy & gy-brn, fis, pyr, some lmy.

Ls: V.lt gy, fxl-gran, rextzd, pyr, fr intrgran & pp por, no odor, v.sli shw FO, tr lt spty stn, some barren por.

Ls: Crm, fxl, ool, sli withd, cons dk gy ool & sh inc, crm-brn mott foss cht, tr org rem, n/s.

Ls: Tn gy-brn, fn-vfxln, arg, tr org rem, some silic, intbd gy-gn lt gn & olv gn fis, sh, n/s.

Ls: Crm, fn-vfxln, sli chky, mott w/dk gy ool, tr org rem, pr pp por, tr gd intrgran por, sli odor (crush), no FO, tr lt spty stn.

Ls: Crm-lt gy, fxl, tr gran, sbchky, occ arg, fr intrgran por, n/s.

Ls: Crm, fxl, chky-sbchky, tr wh op vit cht, some spr calc, pr intxn por, sli odor, v.sli shw FO, tr lt stn.

Ls: Crm, fxl, sbchky, occ arg, tr lt gy-crm trnsi cht, n.v.p.

Ls: Crm, mott w/dk gy & brn inc, sli foss (Brach) tr armor calc, n.v.p.

Sh: Blk, thn fis, carb.

Sh: Gy-gn lt gy & lt gn, fis-blky, occ silty, some calc-lmy.

Sh: Lt gn & gy-gn, fis, occ gy-gn & lt gy v.sily sh, tr pyr.

Ls: Wh, fxl, ool, tr lt gn sh some spr calc, pr pp & intrfrag por, v.sli odor, v.sli shw FO, lt brn spty stn-sbsat.

Ls: Wh-crm, fn-vfxln, some sbchky, occ dk gy sh & frac, tr wh-crm op cht, n.v.p, n/s.

Sh: Gy-gn & lt gn, fis, sli pyr, occ silty, tr gum.

Ls: Crm-tn, fxl, sli pyr, occ arg, some sbchky, n.v.p.

Sh: Gn, fis, sli pyr, some lt rd-brn ea gum sh.

Ls: Wh-crm, fxl, occ sbchky, tr org rem, cons spr calc, pr intxn por, no odor, v.sli shw FO, tr lt spty stn.

Sh: Rd-brn, ea, occ gum intbd rd-brn & mar fxl v.arg Ls.

Ls: Wh, fxl, ool, cons sec calc, pr intool & pp por, sli odor, sli shw FO, lt stn-sbsat.

Ls: Crm, tr crm-lt gy, fn-vfxln, tr microxln, sli chky, some arg, n.v.p.

Sh: Gy-gn & med gy, fis, some calc, occ silty, tr pyr, r.org rem.

Ls: Crm-v.lt gy, fxl, occ withd-sbchky, tr org rem & spr calc, r.pyr, pr pp por, no odor, no FO, tr spty stn.

Ls: Lt gy, fxl, tr ool, occ lt gn-gy & arg, pr intxn por, fr pp por, fr odor, v.sli shw lt FO, lt spty stn, tr sbsat stn.

Sh: Blk, fis, carb, bcm gy & gy-gn.

Ls: V.lt gy, fxl, tr vfxln, some gy & tn trnsi cht, occ arg, pr intxn por, sli odor, v.sli shw lt film O, spty lt stn.

Ls: Crm, lt gy, fxl-frag, tr arg & pyr, some spr calc, fr pp & intrfrag por, pr intxn por, gd odor, sli shw v.lt bleed O, sli shw G, lt brn spty stn, tr sbsat stn.

Ls: Crm, fxl, tr medxln, ool, sbchky, tr org rem, pr oom por, no odor, no FO, spty lt stn.

Ls: Crm, tr v.lt gy, fxl-gran, rextzd, sli ool, gd oom por, fr intrgran por, n/s.

Ls: Crm, fxl, sbchky, cons crm-tn vfxln-microxln dns frac Ls, n/s.

Ls: Crm-tn, fn-vfxln, sbchky, some crm-gy microxln dns frac Ls, n/s.

Sh: Dk gy & blk, thn fis-v.thn fis, some carb, bcm rd-brn & brn ea occ silty sh.

Ls: Crm, fn-vfxln, sbchky, tr spr calc, lt gy & tn trnsi vit cht, r.pp por, sli odor (crush), no FO, tr lt stn.

Ls: Crm, occ crm-tn, fxl sbchky, tr armor calc, some lt gy trnsi cht, occ lt gn-gy & arg-shly, n.v.p.

Sh: Lt gn & lt gn-gy, fis, sli pyr, occ calc-lmy.

Ls: Crm, frag, ool, tr org rem, some dru calc, fr intool por, v.sli odor, sli shw FO, v.sli shw G, spty dk stn, tr sat stn.

Ls: Crm, fn-vfxln, sbchky, sli foss (Brach), n.v.p.

Sh: Lt gn, fis, calc, bcm rd-brn ea occ gum.

Ls: Crm-tn, fxl, some vfxln, sbchky, lt gy & tn trnsi cht, pr intxn por, fr shw dk brn bleed O/G, no odor, some dd blk O res.

Ls: Crm, fxl, tr gran, ool, tr org rem, occ spr calc, r.pyr, gd oom por, fr odor, fr shw FO, some bleed O, sli shw G, lt brn sbsat stn, cons barren por.

Ls: Crm-tn, fxl, sli ool, rextzd, v.chky, sli pyr, cons spr calc, fr oom por, n/s.

Sh: Dk gy, fis, tr pyr, some carb mat.

Ls: Crm-tn, fxl, sli ool, sbchky, occ sec calc, n.v.p.

Ls: Crm, tr wh-crm, fxl, tr vfxln, ool in pt, v.chky & sbchky, n.v.p, n/s.

Ls: Crm, fxl, sbchky, sli ool, tr spr calc, some lt gy vfxln sli arg Ls, n/s.

Ls: Crm, tr crm-tn, fxl, sbchky, occ spr calc, tr org rem, some dk gn fis sh, n.v.p.

Ls: Crm, some crm-tn, vfxln-microxln, tr org rem, occ sbchky, n/s.

Ls: Crm, fn-vfxln, sbchky, occ crm-v.lt gy arg sli sdy Ls, some armor calc, n/s.

Sh: Lt gn, fis, occ calc, tr silty, & rd-brn ea occ silty sh, some rd-brn v.arg Ls.

Ls: Crm-tn, microxln, dns, frac.

Sh: Gy-gn lt gn & olv gn, fis, sli pyr, some silty, tr calc, intbd rd-brn blk ea occ gum sh.

Ls: Crm-lt gy, fn-vfxln, some silic, occ withd-sbchky, pt arg, n.v.p.

Sh: Rd-brn brn tr yel w/gn & gy-gn sli pyr sh, cons rd-or gy-brn in & lt gy op-trnsi frac cht, n/s.

Sh: Gy-gn lt gn brn rd-brn purp & mar, intbd rd-or & crm op-trnsi cht, some gy-tn fxl arg Ls, tr blk dd O res.

Sh: Lt gn gy-gn rd-brn & purp, tr yel, fis-blky, some gum, cons rd-or & amb trnsi vit cht, some dk mar v.arg slst.

Cht: Rd-or crm & tn op-trnsi vit & devit, abd lt gn & rd-brn gum sh, some v.lt gn-crm chky sli glauc Ls, n/s.

Cht: Rd-or tn mar amb lt gy & wh, vit op-trnsi, some ool abd rd-brn sh, tr lt gy vfn-fn ang wl-cmt qtz sd, tr Grl.

Sd: Lt gy vfn-med sbcmd fros, calc, sbfri, pr intrgran por, no odor, fr shw FO, v.dk stn, some dd O res.

Dol: Lt gy, vfxln dns, bcm gy fn-medxln, tr pyr & lt gn sh, lt gy ool op-trnsi cht, pr intxn por, v.sli odor (crush) sli shw v.dk FO, spty dk stn, some blk dd O res.

Dol: Lt gy & crm, fn-medxln, tr coxln, some chk & lt gn sh inc, tr pyr, fr-gd intrgran por, sli odor, gd shw FO, dk sat-sbsat stn, some barren por, tr blk dd O res.

Dol: V.lt gy, tr pnk, fn-medxln, sli pyr, tr wh op cht, fr-gd intrgran por, occ gd vug por, n/s.

Dol: Crm-v.lt gy, fxl, tr vfxln, some tn trnsi res cht, tr pyr, fr intxn por, cons blk asph res.

Dol: Crm, some lt gy & pnk, fn-medxln, tr arg, gd intrgran & vug por, n/s.

Dol: V.lt gy, tr crm, medxln, some coxln, tr lt gn sh & pyr, sli chky, gd intrgran & vug por, n/s.

Dol: Crm-pnk, med-coxln, some fn ang-sbrnd qtz sd, gd intrgran & vug por, n/s.

2:00 pm, 17 November 2011

TOPEKA
3198 (-1007)

DST # 1 3449 - 3534
30"-60"-45"-90"
IF: Weak blow, incr to 3 1/2 inches
FF: Weak blow, incr to 2 1/4 inches
RECOVERY:
30 Ft. Water Cut Mud
(35%Wtr, 65%Mud)
120 Ft. Water
(Chlor: 90,000 ppm.)
IHP: 1643 psi. FHP: 1614 psi.
IFP: 18-53 psi. ISIP: 1073 psi.
FFP: 61-99 psi. FSIP: 1048 psi.
BHT: 105 deg. F.

HEEBNER SHALE
3444 (-1253)

TORONTO
3467 (-1276)

LANSING
3493 (-1302)

Morgan Mud check @ 3525'
Vis: 67, Wt: 8.9, WL: 6.0
Chlor: 4,200 ppm, LCM: 2#

DST # 2 3535 - 3580
30"-60"-30"-60"
IF: Weak 3/4 inch blow
FF: No blow
RECOVERY:
5 Ft. Oil Spotted Mud
IHP: 1694 psi. FHP: 1666 psi.
IFP: 18-20 psi. ISIP: 598 psi.
FFP: 21-23 psi. FSIP: 515 psi.
BHT: 104 deg. F.

Morgan Mud check @ 3580'
Vis: 69, Wt: 8.9, WL: 5.6
Chlor: 7,900 ppm, LCM: 1.5#

Morgan Mud check @ 3685'
Vis: 60, Wt: 9.1, WL: 5.6
Chlor: 7,800 ppm, LCM: 1#

DST # 3 3612 - 3685
30"-60"-60"-90"
IF: Strong blow, BOB in 3 min.
ISI: 1 inch return blow
FF: Strong blow, BOB in 5 1/2 min.
FSI: 3 inch return blow
RECOVERY:
1030 Ft. Gas In Pipe
60 Ft. Gas and Mud Cut Oil
(20%Gas, 30%Mud, 50%Oil)
340 Ft. Heavy Gas and Mud Cut Oil
(60%Gas, 10%Mud, 30%Oil)
IHP: 1739 psi. FHP: 1720 psi.
IFP: 60-124 psi. ISIP: 677 psi.
FFP: 131-167 psi. FSIP: 679 psi.
BHT: 111 deg. F.

BASE/KANSAS CITY
3735 (-1544)

DST # 4 3836 - 3846
30"-60"-30"-60"
IF: Weak 1 inch blow
FF: Surface blow, died in 18 min.
RECOVERY:
1 Ft. Mud
2 Ft. Clean Oil
(27 grav. API)
IHP: 1923 psi. FHP: 1873 psi.
IFP: 14-15 psi. ISIP: 1189 psi.
FFP: 15-20 psi. FSIP: 1182 psi.
BHT: 115 deg. F.

ARBUCKLE
3846 (-1655)

Corrected to log

Morgan Mud check @ 3846'
Vis: 69, Wt: 9.2, WL: 5.6
Chlor: 7,200 ppm, LCM: 2#

TOTAL DEPTH
3905 (-1714)

3:15 AM, 22 November 2011

DST # 5 3846 - 3856
30"-60"-60"-90"
IF: Strong blow, BOB in 11 min.
FF: Strong blow, BOB in 11 min.
RECOVERY:
640 Ft. Water
(Chlor: 70,000 ppm)
IHP: 1921 psi. FHP: 1832 psi.
IFP: 21-160 psi. ISIP: 1217 psi.
FFP: 167-344 psi. FSIP: 1220 psi.
BHT: 123 deg. F.

Operator: MURFIN DRILLING COMPANY, INC.

Lease: DORZWEILER # 1-3

Location: 1520 FSL & 500 FEL SEC. 3 TWSP 14S RGE 19W

County: ELLIS State: KANSAS



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling CO. Inc.

3-14-19, Ellis, KS

250 N Water STE 300
Wichita Ks 67202

Dorzweiler #1-3

Job Ticket: 44846

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2011.11.18 @ 12:45:48

GENERAL INFORMATION:

Formation: **Toronto LKC "A,B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:55:48

Time Test Ended: 21:22:18

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 47

Interval: 3449.00 ft (KB) To 3534.00 ft (KB) (TVD)

Reference Elevations: 2191.00 ft (KB)

Total Depth: 3534.00 ft (KB) (TVD)

2186.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press @ Run Depth: 98.80 psig @ 3450.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.11.18

End Date: 2011.11.18

Last Calib.: 2011.11.18

Start Time: 12:45:53

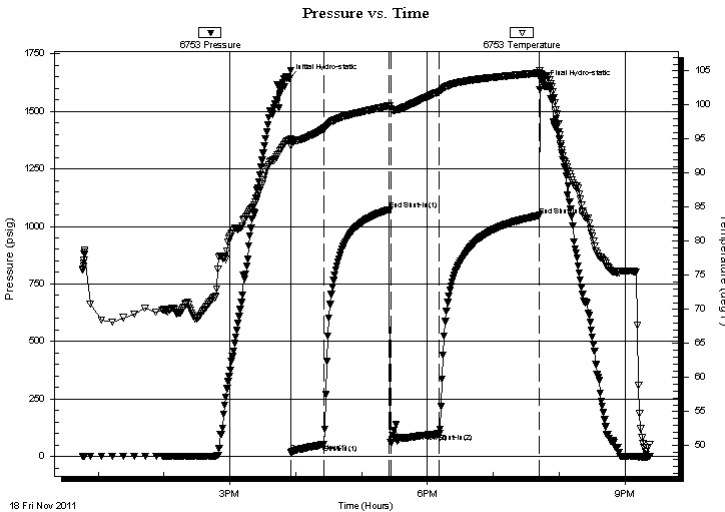
End Time: 21:22:18

Time On Btm: 2011.11.18 @ 15:53:18

Time Off Btm: 2011.11.18 @ 19:45:18

TEST COMMENT: IF-3.5in blow
ISI-No blow
FF-2.25in blow
FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1642.56	94.81	Initial Hydro-static
3	18.48	94.03	Open To Flow (1)
32	52.75	96.49	Shut-In(1)
92	1073.05	99.92	End Shut-In(1)
93	60.98	99.43	Open To Flow (2)
138	98.80	101.97	Shut-In(2)
229	1047.69	104.72	End Shut-In(2)
232	1614.48	104.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	WCM 35%W 65% m	0.15
120.00	Water	0.59

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling CO. Inc.

3-14-19, Ellis, KS

250 N Water STE 300
Wichita Ks 67202

Dorzweiler #1-3

Job Ticket: 44846

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2011.11.18 @ 12:45:48

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:

90000 ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	WCM 35%W 65%m	0.148
120.00	Water	0.590

Total Length: 150.00 ft Total Volume: 0.738 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

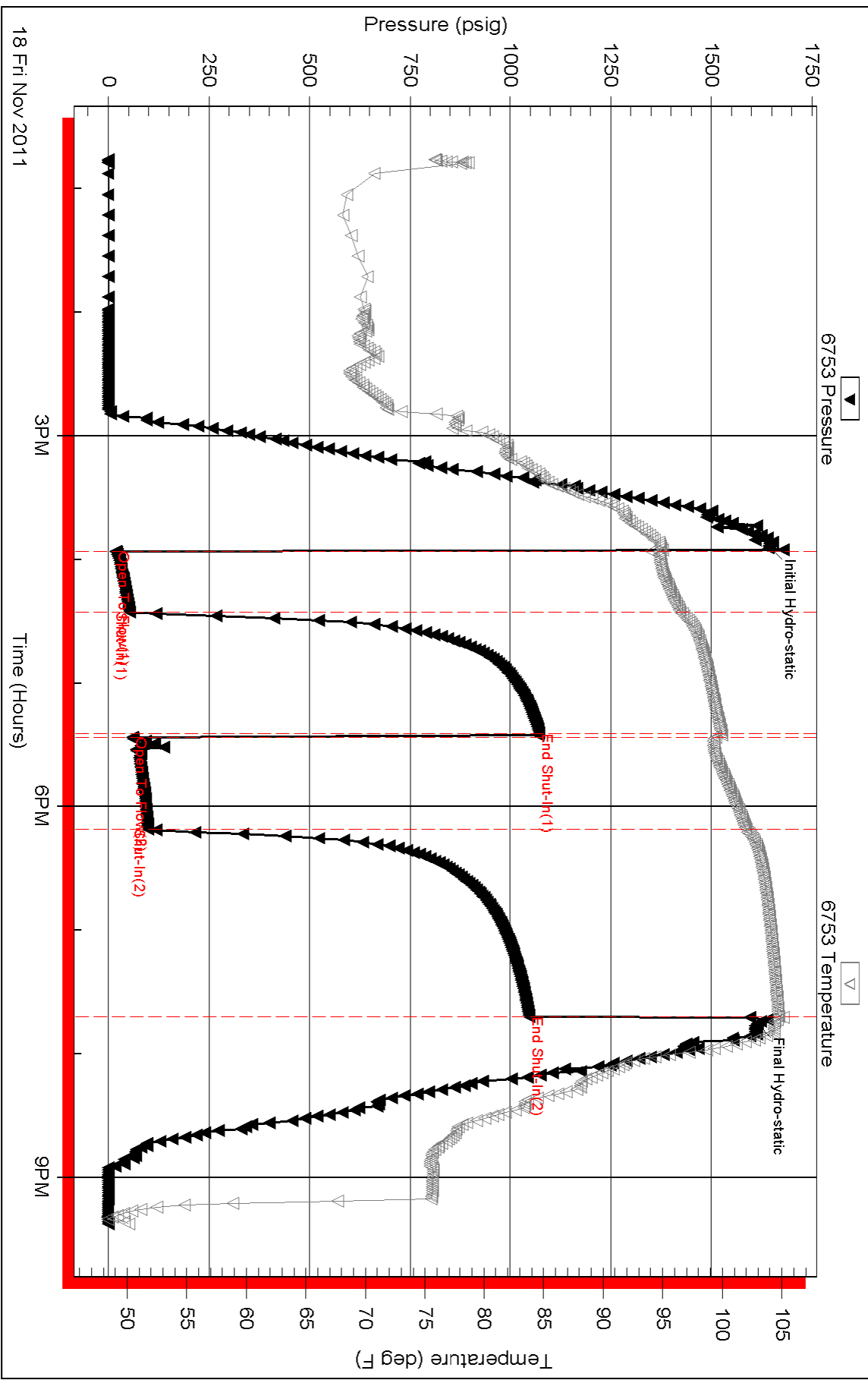
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .14 @ 45

Pressure vs. Time

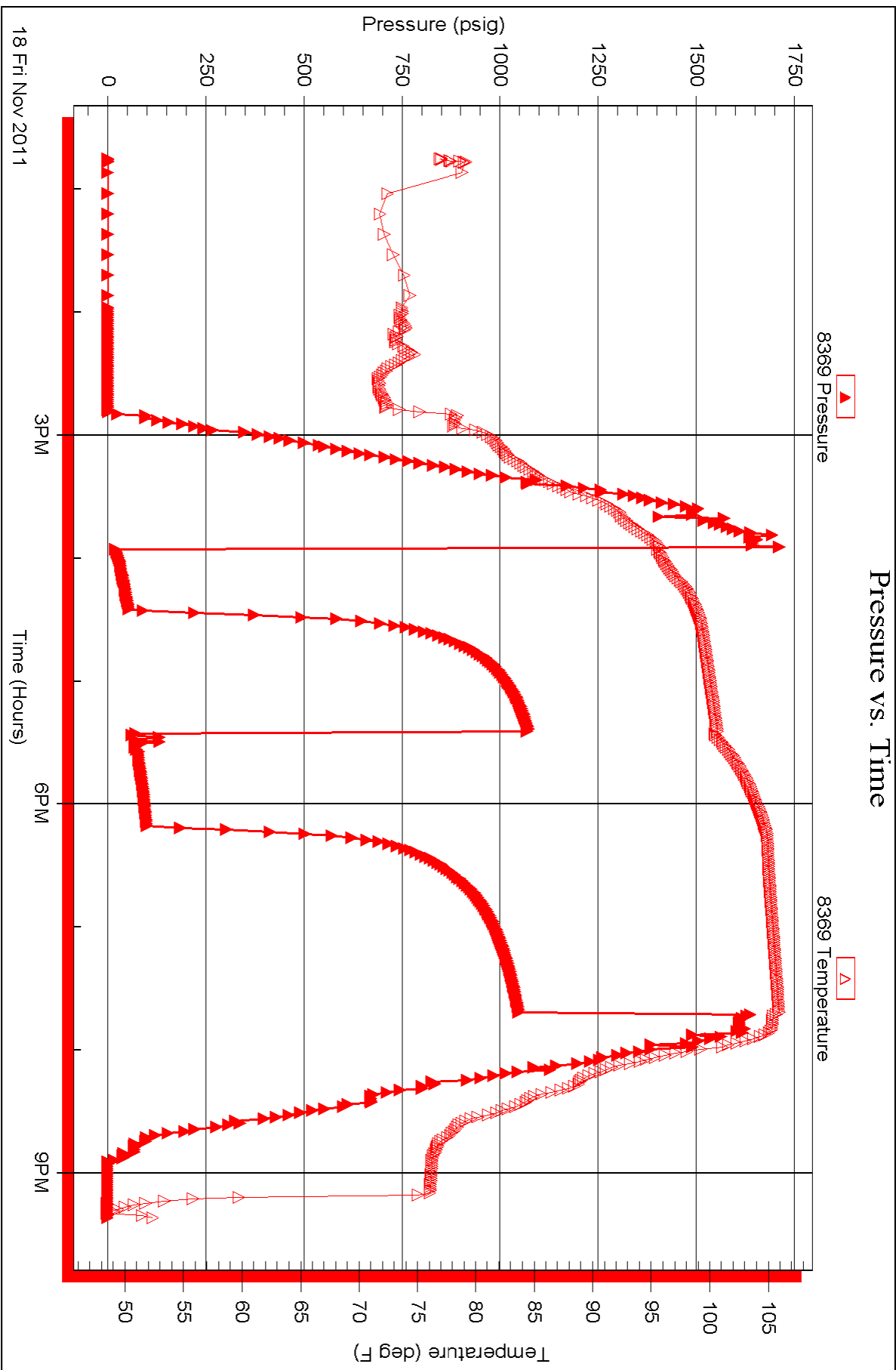


Serial #: 8369

Outside Murfin Drilling CO. Inc.

Dorzweller #1-3

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling CO. Inc.

3-14-19, Ellis, KS

250 N Water STE 300
Wichita Ks 67202

Dorzweiler #1-3

Job Ticket: 44847

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2011.11.19 @ 06:05:25

GENERAL INFORMATION:

Formation: **KC"D-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:26:55

Time Test Ended: 12:56:25

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 47

Interval: 3535.00 ft (KB) To 3580.00 ft (KB) (TVD)

Reference Elevations: 2191.00 ft (KB)

Total Depth: 3580.00 ft (KB) (TVD)

2186.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press @ Run Depth: 23.30 psig @ 3536.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.11.19

End Date:

2011.11.19

Last Calib.:

2011.11.19

Start Time: 06:05:30

End Time:

12:56:24

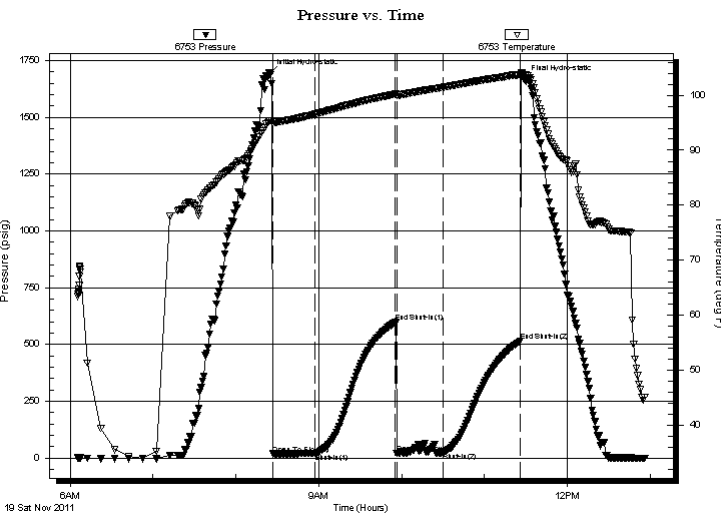
Time On Btm:

2011.11.19 @ 08:24:25

Time Off Btm:

2011.11.19 @ 11:28:55

TEST COMMENT: IF-3/4in blow
ISI-No blow
FF-No blow
FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1693.87	95.38	Initial Hydro-static
3	18.06	94.85	Open To Flow (1)
33	20.07	96.55	Shut-In(1)
91	597.53	100.18	End Shut-In(1)
92	20.60	100.00	Open To Flow (2)
126	23.30	101.43	Shut-In(2)
182	515.11	103.73	End Shut-In(2)
185	1666.46	103.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Oilspotted Mud	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling CO. Inc.

3-14-19, Ellis, KS

250 N Water STE 300
Wichita Ks 67202

Dorzweiler #1-3

Job Ticket: 44847

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2011.11.19 @ 06:05:25

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: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Oilspotted Mud	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 #: 6753

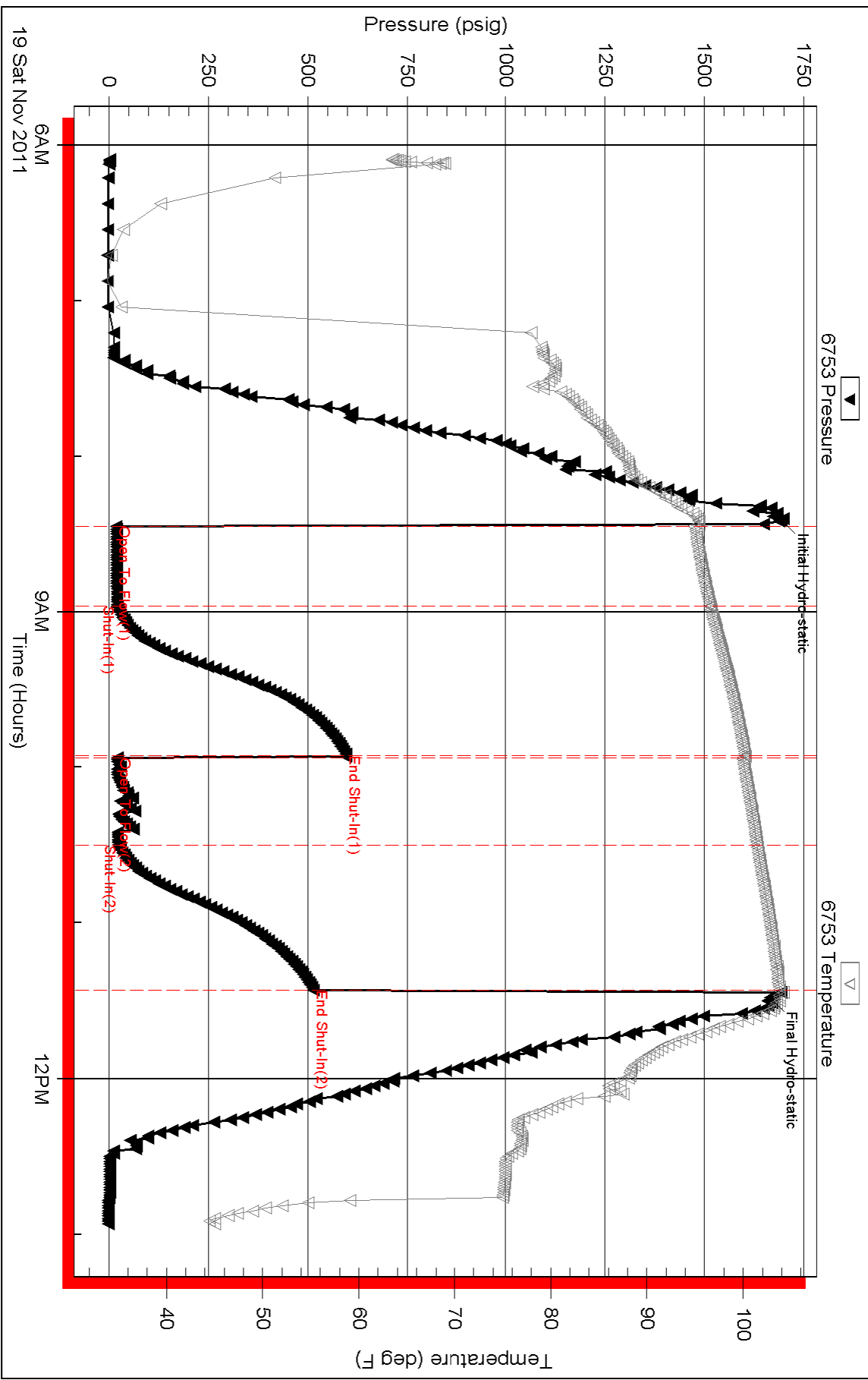
Inside

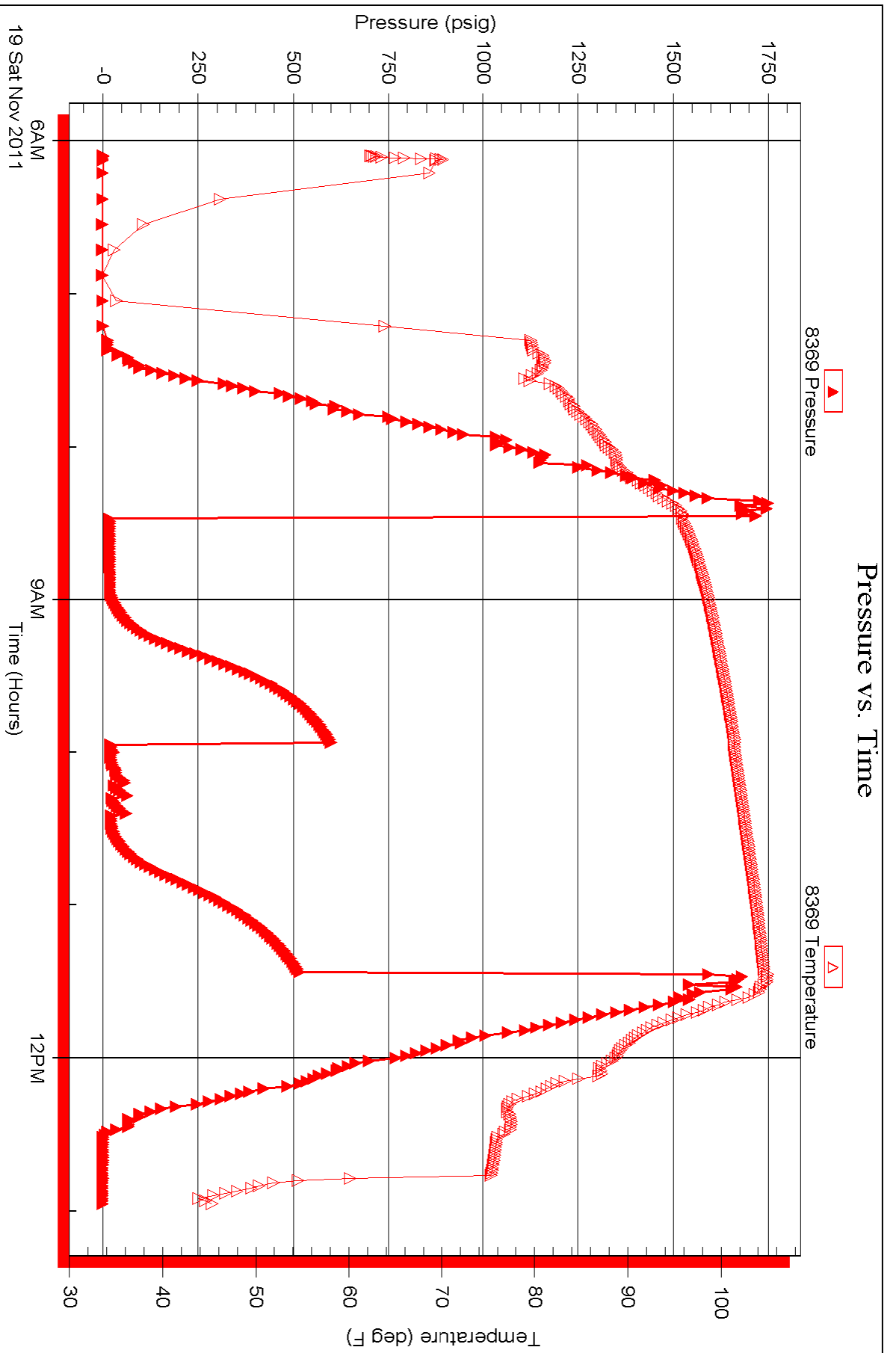
Murfin Drilling CO. Inc.

Dorzweller #1-3

DST Test Number: 2

Pressure vs. Time







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling CO. Inc.

3-14-19, Ellis, KS

250 N Water STE 300
Wichita Ks 67202

Dorzweiler #1-3

Job Ticket: 44848

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2011.11.20 @ 00:25:20

GENERAL INFORMATION:

Formation: **KC "H-J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:26:20
 Time Test Ended: 09:41:20
 Interval: **3612.00 ft (KB) To 3685.00 ft (KB) (TVD)**
 Total Depth: 3685.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brett Dickinson
 Unit No: 47
 Reference Elevations: 2191.00 ft (KB)
 2186.00 ft (CF)
 KB to GR/CF: 5.00 ft

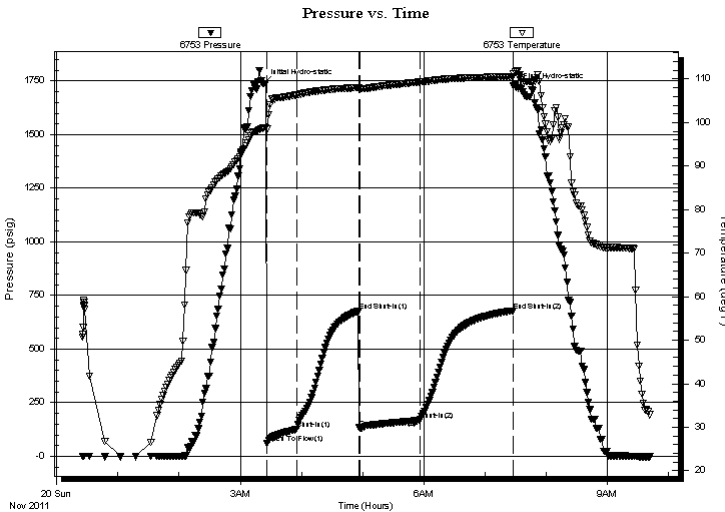
Serial #: 6753

Inside

Press @ Run Depth: 166.66 psig @ 3613.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.11.20 End Date: 2011.11.20 Last Calib.: 2011.11.20
 Start Time: 00:25:25 End Time: 09:41:20 Time On Btm: 2011.11.20 @ 03:23:20
 Time Off Btm: 2011.11.20 @ 07:30:50

TEST COMMENT: IF-BOB in 3min
 ISI-1in blow died back to 1/4in
 FF-BOB in 5 1/2min
 FS-3in blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1738.50	98.79	Initial Hydro-static
3	59.95	98.51	Open To Flow (1)
32	123.97	106.36	Shut-In(1)
93	676.74	108.04	End Shut-In(1)
94	131.32	107.81	Open To Flow (2)
153	166.66	109.30	Shut-In(2)
244	678.93	110.60	End Shut-In(2)
248	1719.71	111.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	VGSMCO 60%G 35%O 5%M	0.59
60.00	GMCO 20%G 50%O 30%M	0.30
220.00	VGMCO 60%G 30%O 10%M	3.09
0.00	1030ft GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling CO. Inc.

3-14-19, Ellis, KS

250 N Water STE 300
Wichita Ks 67202

Dorzweiler #1-3

Job Ticket: 44848

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2011.11.20 @ 00:25:20

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: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	VGSMCO 60%G 35%O 5%M	0.590
60.00	GMCO 20%G 50%O 30%M	0.295
220.00	VGMCO 60%G 30%O 10%M	3.086
0.00	1030ft GIP	0.000

Total Length: 400.00 ft

Total Volume: 3.971 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

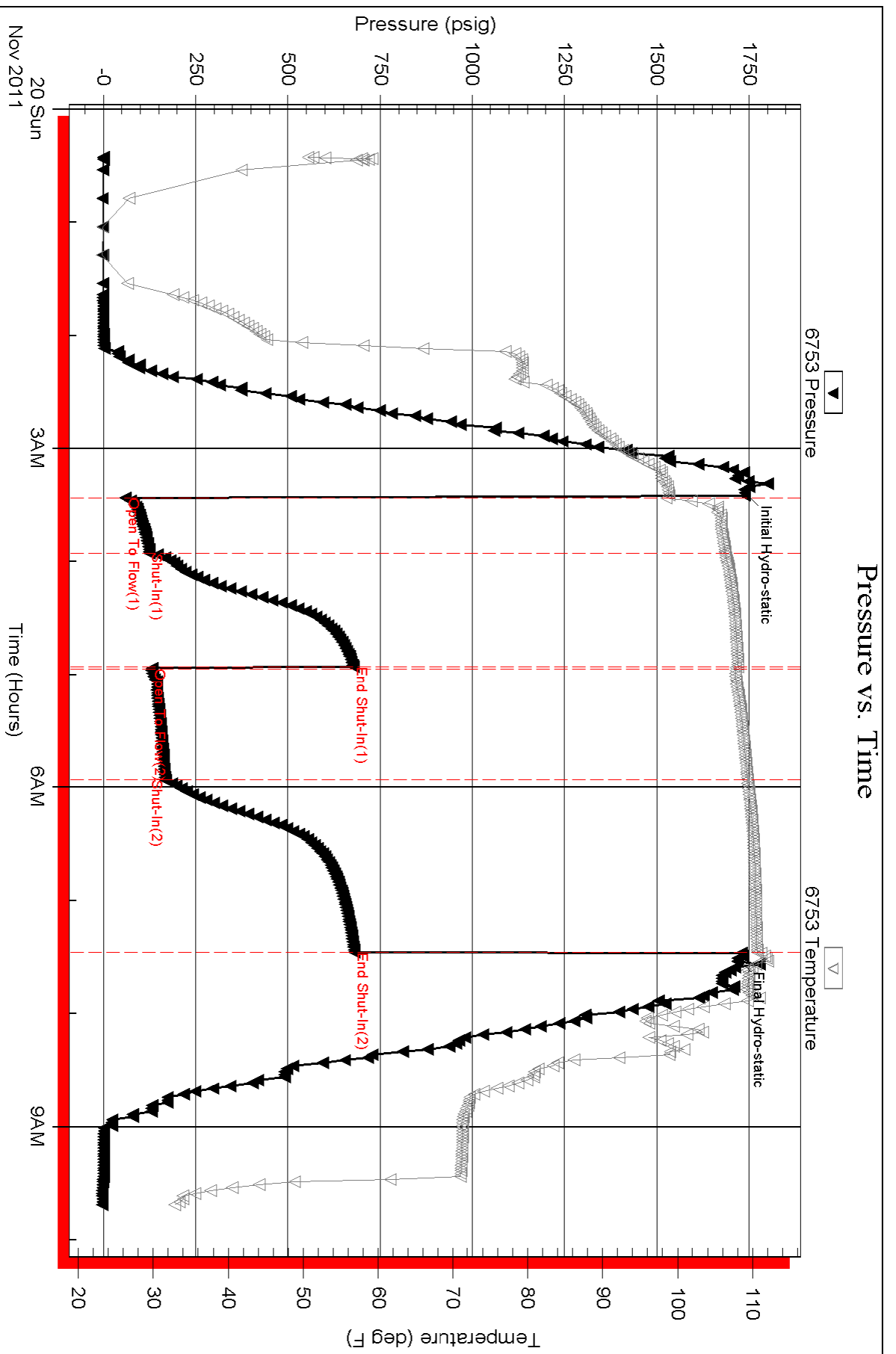
Serial #: 6753

Inside

Murfin Drilling CO. Inc.

Dorzweller #1-3

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 44848

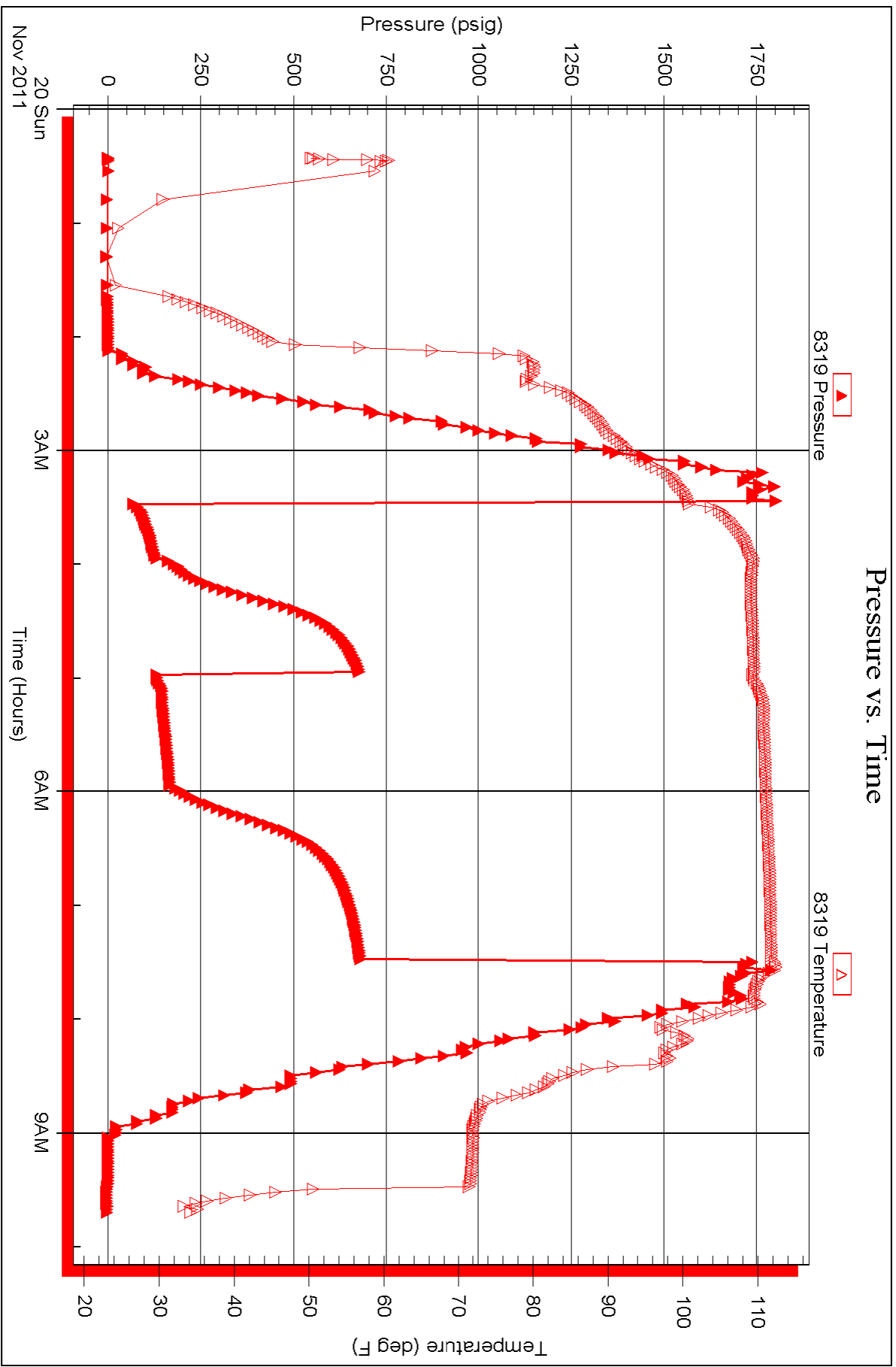
Printed: 2011.11.20 @ 12:21:49

Serial #: 8319

Outside Murfin Drilling CO, Inc.

Dorzweller #1-3

DST Test Number: 3





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling CO. Inc.

3-14-19, Ellis, KS

250 N Water STE 300
Wichita Ks 67202

Dorzweiler #1-3

Job Ticket: 44849

DST#: 4

ATTN: Paul Gunzelman

Test Start: 2011.11.21 @ 00:55:43

GENERAL INFORMATION:

Formation: **Arb.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:29:43

Time Test Ended: 08:26:43

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 47

Interval: 3836.00 ft (KB) To 3846.00 ft (KB) (TVD)

Reference Elevations: 2191.00 ft (KB)

Total Depth: 3846.00 ft (KB) (TVD)

2186.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press @ Run Depth: 20.11 psig @ 3837.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.11.21

End Date:

2011.11.21

Last Calib.:

2011.11.21

Start Time: 00:55:48

End Time:

08:26:42

Time On Btm:

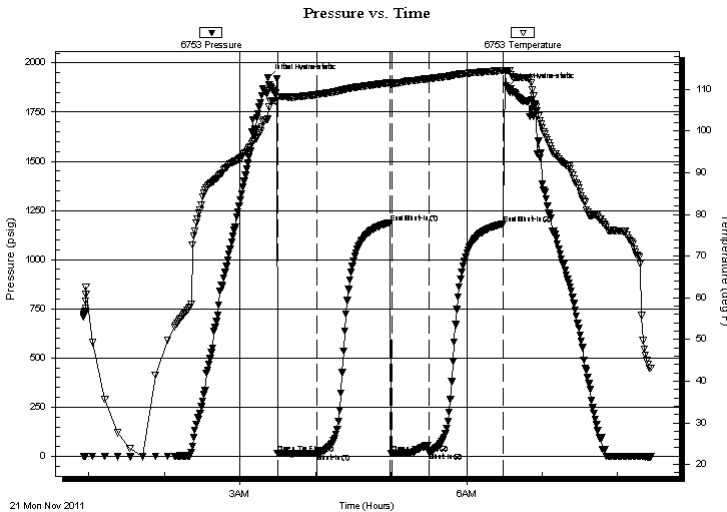
2011.11.21 @ 03:22:13

Time Off Btm:

2011.11.21 @ 06:32:13

TEST COMMENT: IF-1in blow
IS- No blow
FF- weak surface blow died in 18min
FS- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1922.52	102.89	Initial Hydro-static
8	14.43	107.92	Open To Flow (1)
39	14.99	108.74	Shut-In(1)
97	1188.62	111.60	End Shut-In(1)
99	15.19	111.42	Open To Flow (2)
128	20.11	112.59	Shut-In(2)
187	1182.02	114.55	End Shut-In(2)
190	1872.60	114.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	OIL	0.01
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

FLUID SUMMARY

Murfin Drilling CO. Inc.

3-14-19, Ellis, KS

250 N Water STE 300
Wichita Ks 67202

Dorzweiler #1-3

Job Ticket: 44849

DST#: 4

ATTN: Paul Gunzelman

Test Start: 2011.11.21 @ 00:55:43

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
2.00	OIL	0.010
1.00	Mud	0.005

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6753

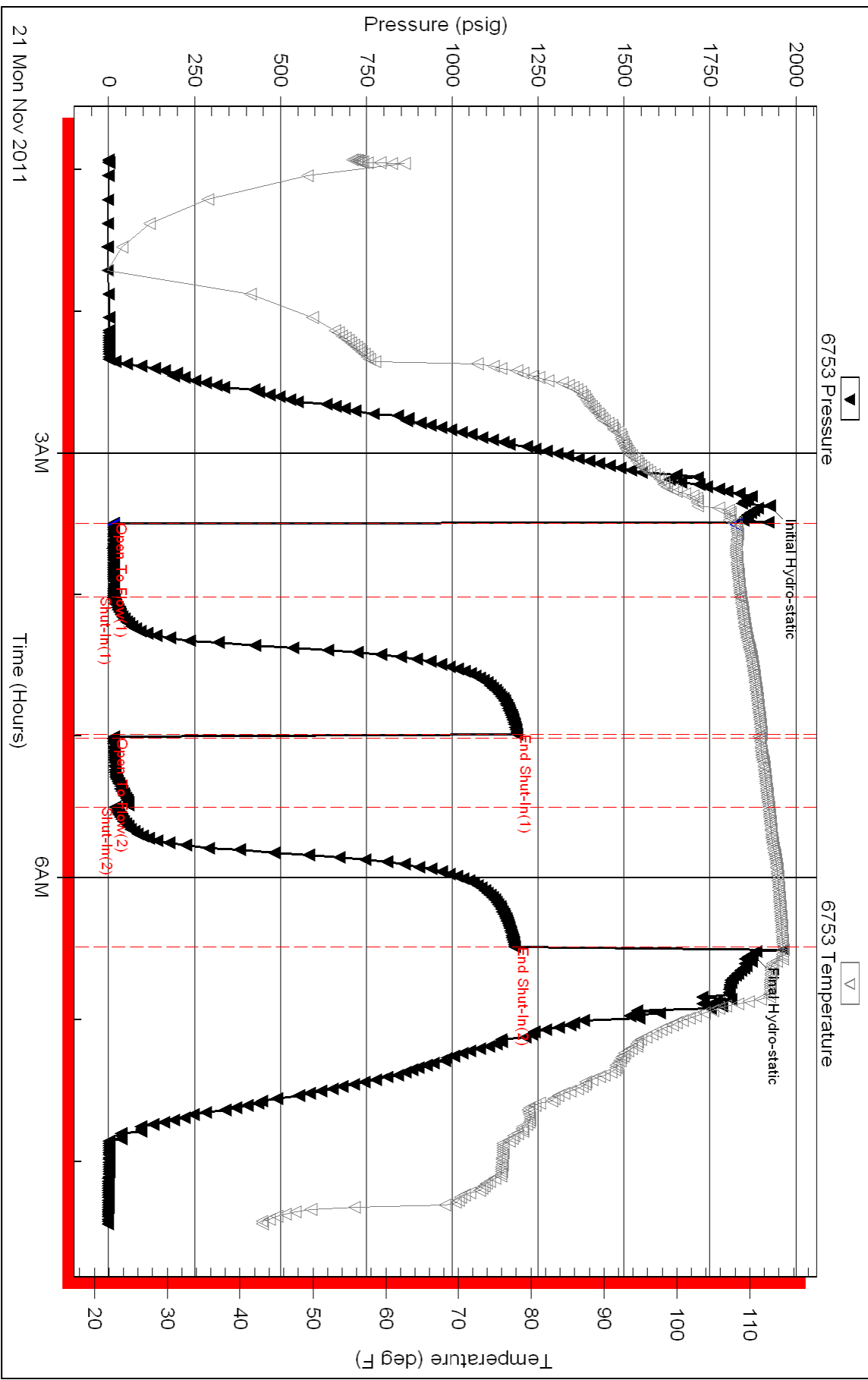
Inside

Murfin Drilling CO. Inc.

Dorzweller #1-3

DST Test Number: 4

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 44849

Printed: 2011.11.21 @ 10:19:50



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling CO. Inc.

3-14-19, Ellis, KS

250 N Water STE 300
Wichita Ks 67202

Dorzweiler #1-3

Job Ticket: 44850

DST#: 5

ATTN: Paul Gunzelman

Test Start: 2011.11.21 @ 13:30:41

GENERAL INFORMATION:

Formation: **Arb.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:44:11

Time Test Ended: 22:17:11

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 47

Interval: 3846.00 ft (KB) To 3856.00 ft (KB) (TVD)

Reference Elevations: 2191.00 ft (KB)

Total Depth: 3856.00 ft (KB) (TVD)

2186.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press @ Run Depth: 344.27 psig @ 3847.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.11.21

End Date: 2011.11.21

Last Calib.: 2011.11.21

Start Time: 13:30:46

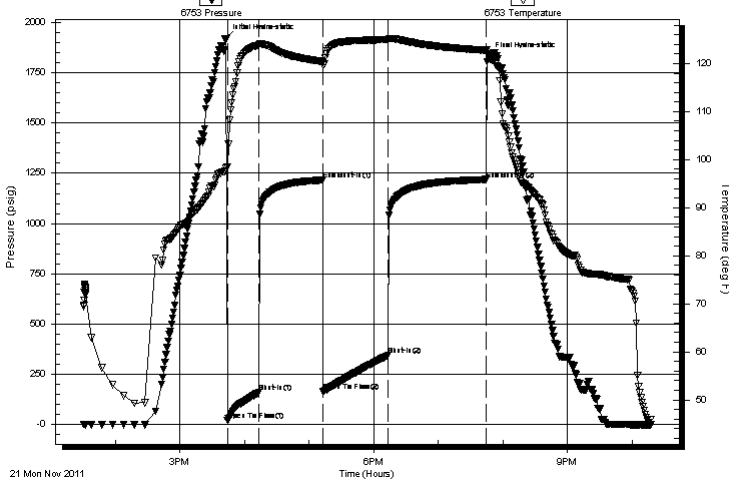
End Time: 22:17:11

Time On Btm: 2011.11.21 @ 15:42:11

Time Off Btm: 2011.11.21 @ 19:46:41

TEST COMMENT: IF-BOB in 11min
ISI-1/4in blow
FF-BOB in 11min
FSI-No blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1920.85	97.60	Initial Hydro-static
2	21.31	98.58	Open To Flow (1)
31	159.61	123.82	Shut-In(1)
91	1216.82	120.44	End Shut-In(1)
91	166.64	119.69	Open To Flow (2)
151	344.27	124.96	Shut-In(2)
242	1219.54	122.76	End Shut-In(2)
245	1832.12	121.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
640.00	water	7.34
40.00	Oilspotted VSMCW 10%M 90%W	0.56

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling CO. Inc.

3-14-19, Ellis, KS

250 N Water STE 300
Wichita Ks 67202

Dorzweiler #1-3

Job Ticket: 44850

DST#: 5

ATTN: Paul Gunzelman

Test Start: 2011.11.21 @ 13:30:41

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:

70000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
640.00	water	7.338
40.00	Oilspotted VSMCW 10%M 90%W	0.561

Total Length: 680.00 ft Total Volume: 7.899 bbl

Num Fluid Samples: 0

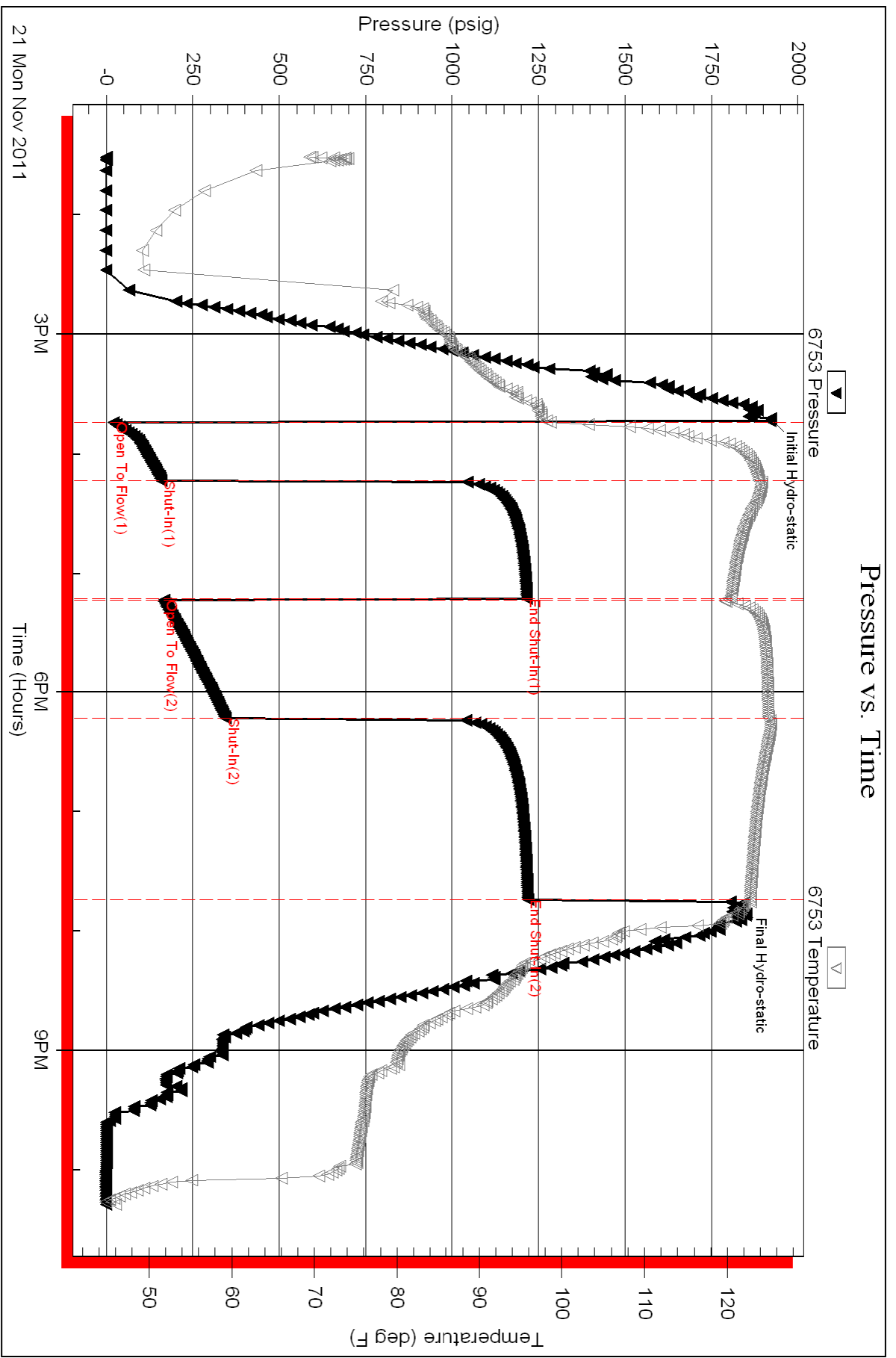
Num Gas Bombs: 0

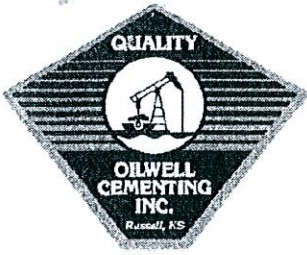
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .26 @ 30





QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Date: 11/18/2011
 Invoice # 64

P.O.#:

Due Date: 12/18/2011

Division: Russell

PROD COPY

Invoice

ID 203

USED FOR ~~IC 103~~
 APPROVED ~~FOR~~
 USED FOR

Contact:
 Murfin Drilling Company
Address/Job Location:
 Murfin Drilling Company
 P.O. Box 288
 Russell Ks 67665

Reference:
 DORZWEILER 1-3

Description of Work:
 SURFACE JOB

Account	Unit Qty	W/ L	No.	Amount	Description
ID203				3320.38	Cement S. (Csg) # 1-3
	3.	1810.	0001		

Services / Items Included:

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,020.55	No				
Common-Class A	150	\$ 2,045.29	Yes				
Bulk Truck Matl-Material Service Charge	155	\$ 346.47	No				
Calcium Chloride	5	\$ 210.45	Yes				
Pump Truck Mileage-Job to Nearest Camp	8	\$ 89.23	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	8	\$ 52.22	No				

Invoice Terms:

Net 30

SubTotal: \$ 3,764.21
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (564.63)

SubTotal for Taxable Items: \$ 1,917.39
 SubTotal for Non-Taxable Items: \$ 1,282.20
 Total: \$ 3,199.58
 Tax: \$ 120.80

6.30% Ellis County Sales Tax

Thank You For Your Business!

Amount Due: \$ 3,320.38
 Applied Payments:
 Balance Due: \$ 3,320.38

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.

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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 064

Date	11-14-11	Sec.	3	Twp.	14	Range	19	County	Ellis	State	KS	On Location		Finish	9:30p.m.	
Lease	Dr. Zweigler		Well No.		1-3		Location									Hays + Golf Course Rd 4 1/2 1/2 N W into
Contractor	Martin #8							Owner								
Type Job	Surface							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.								
Hole Size	12 1/4		T.D.		220		Charge To									Martin Drilling
Csg.	8 5/8		Depth		220		Street									
Tbg. Size			Depth				City									State
Tool			Depth				The above was done to satisfaction and supervision of owner agent or contractor.									
Cement Left in Csg.	15'		Shoe Joint				Cement Amount Ordered									150 com 30' well
Meas Line			Displace		1336											

EQUIPMENT

Pumptrk	00	No.	Cementer	Spang	Common	130
			Helper			
Bulktrk	1	No.	Driver	Cisco	Poz. Mix	
			Driver			
Bulktrk	14	No.	Driver	Brett	Gel.	
			Driver			

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
8 5/8 on bottom. Est. Circulation.	Sand
Mix 150SC & Displace.	Handling 155
	Mileage

Cement Circulation

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	Surface
Mileage	8

Tax	
Discount	
Total Charge	

X Signature



QUALITY OILWELL CEMENTING, INC.
PO Box 32 - 740 West Wichita Ave, Russell KS 67665
Phone: 785-324-1041 fax: 785-483-1087
Email: cementing@ruraltel.net

Date: 12/10/2011
Invoice # 192
P.O.#:
Due Date: 1/9/2012
Division: *Russell*

Invoice

Contact:
Murfin Drilling Company
Address/Job Location:
Murfin Drilling Company
P.O. Box 288
Russell Ks 67665

USED FOR IC 103
APPROVED [Signature]

Reference:
DORZWEILER 1-3

Description of Work:
PORT COLLAR JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 963.85	No				
non, MetsoBeads, Plater, Gel, FloSeal, Calcium)	200	\$ 4,036.44	Yes				
Bulk Truck Matl-Material Service Charge	250	\$ 527.78	No				
Flo Seal	50	\$ 105.56	Yes				
Pump Truck Mileage-Job to Nearest Camp	8	\$ 84.28	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	8	\$ 49.32	No				

Invoice Terms:

Net 30

	SubTotal:	\$	5,767.22
	Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice:	\$	(865.08)
<hr/>			
	SubTotal for Taxable Items:	\$	3,520.70
	SubTotal for Non-Taxable Items:	\$	1,381.44
<hr/>			
	Total:	\$	4,902.14
	Tax:	\$	221.80
<hr/>			
	6.30% Ellis County Sales Tax		

Thank You For Your Business!

Amount Due: \$ 5,123.94
Applied Payments:
Balance Due: \$ 5,123.94

Past Due Invoices are subject to a service charge (annual rate of 24%)
This does not include any applicable taxes unless it is listed.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 192

Date	12-8-11	Sec.	3	Twp.	14	Range	19	County	Ellis	State	Ks	On Location		Finish	12:00 PM	
Lease	Dorzeweiler			Well No.	1-3			Location	Yocemento Rd + Golf Course Rd,							
Contractor	Murfin Drilling							Owner	IE 1/4 N, W1S							
Type Job	Port Collar							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.								
Hole Size	5 1/2"			T.D.												
Csg.	5 1/2"			Depth	3897'											
Tbg. Size	2"			Depth	1514'											
Tool	Port Collar			Depth	1514'											
Cement Left in Csg.				Shoe Joint												
Meas Line				Displace	H2O 5 BBL											
EQUIPMENT								Seal								
Pumptrk	1	No.	Cementer	Cisco												
			Helper													
Bulktrk	10	No.	Driver	Mike												
			Driver													
Bulktrk	pru	No.	Driver	Rick												
			Driver													
JOB SERVICES & REMARKS								Common 200								
Remarks:	Cement did Circulate															
Rat Hole																
Mouse Hole																
Centralizers																
Baskets																
D/V or Port Collar	1514'															
Tool closed @ 1000#, open tool establish blow mix 250 ex QMDC 1/4H F/10 - seal + displaced with 5 BBL of H2O, closed tool 1000#, run 5 Jts + wash clean, Rigged down.								Hulls								
								Salt								
								Flowseal 50#								
								Kol-Seal								
								Mud CLR 48								
								CFL-117 or CD110 CAF 38								
								Sand								
								Handling 250								
								Mileage								
								FLOAT EQUIPMENT								
								Guide Shoe								
								Centralizer								
								Baskets								
								AFU Inserts								
								Float Shoe								
								Latch Down								
								Pumptrk Charge port Collar								
								Mileage 8								
								Tax								
								Discount								
								Total Charge								
X Signature <i>Mark Pohlen</i>																



Acctg -

cc: w r
cc: p l
Scan link

PAGE 1 of 1	CUST NO 1002852	INVOICE DATE 11/28/2011
INVOICE NUMBER 1718 - 90761729		

Pratt (620) 672-1201
 B MURFIN DRILLING
 I PO Box: 288
 L RUSSELL
 L KS US 67665
 T
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Dorzweiler 1-3
 O LOCATION
 B COUNTY Ellis
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40400099	27463		Net - 30 days	12/28/2011

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Dates: 11/22/2011 to 11/22/2011				
0040400099				
171805274A Cement-New Well Casing/Pi 11/22/2011 5 1/2" Longstring w/ P.C.				
AA2 Cement	165.00	EA	11.90	1,963.50 T
60/40 POZ	30.00	EA	8.40	252.00 T
Salt (Fine)	926.00	EA	0.35	324.10 T
Cement Friction Reducer	47.00	EA	4.20	197.40 T
Cement Gel	312.00	EA	0.18	54.60 T
Mud Flush	500.00	EA	0.60	301.00 T
5 1/2" Port Collar	1.00	EA	2,450.00	2,450.00
Latch Down Plug & Baffle 5 1/2" (Blue)	1.00	EA	280.00	280.00
Auto Fill Float Shoe 5 1/2" (Blue)	1.00	EA	252.00	252.00
Turbolizer 5 1/2" (Blue)	10.00	EA	77.00	770.00
5 1/2" Basket (Blue)	1.00	EA	203.00	203.00
Cement Scratchers Cable Type 5 1/2"	12.00	EA	52.50	630.00
Unit Mileage Charge-Pickups, Vans & Cars	100.00	HR	2.98	297.50
Heavy Equipment Mileage	200.00	MI	4.90	980.00
Proppant and Bulk Delivery Charges	910.00	MI	1.12	1,019.20
Depth Charge; 3001-4000'	1.00	HR	1,512.00	1,512.00
Blending & Mixing Service Charge	195.00	MI	0.98	191.10
Plug Container Utilization Charge	1.00	EA	175.00	175.00
Supervisor	1.00	HR	122.50	122.50

USED FOR IC 103
 APPROVED [Signature]

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	11,974.90
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	194.83
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	12,169.73
DALLAS, TX 75284-1903	MIDLAND, TX 79702		



BASICSM
ENERGY SERVICES

PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET

1718 05274 A

DATE _____ TICKET NO. _____

DATE OF JOB 11-22-11	DISTRICT KANSAS	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:		
CUSTOMER Murfin Drilling Co. LLC		LEASE Danzweiler #1-3		WELL NO.					
ADDRESS		COUNTY Ellis Kans.		STATE KANSAS					
CITY		STATE		SERVICE CREW Allen, Brad, Steve					
AUTHORIZED BY		JOB TYPE: 5 1/2" Long String w/P.C. CNU							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM/PM	TIME
28443 P11	2 1/2						11-22-11		9:00
27463 P1	2 1/2					ARRIVED AT JOB	11-22-11	AM/PM	3:30
19826-19860	2 1/2					START OPERATION	11-22-11	AM/PM	4:00
						FINISH OPERATION	11-22-11	AM/PM	9:30
						RELEASED	11-22-11	AM/PM	10:00
						MILES FROM STATION TO WELL	100-mile		

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	AAA cement	SK	165		\$ 2806.00
CP103	60/40 Pom	SK	30		\$ 360.00
CC111	SALT Fine	lb	926		\$ 463.00
CC112	Cement Friction Reducer	lb	47		\$ 282.00
CC200	Cement Gel	lb	312		\$ 78.00
CF481	5 1/2" Port Collar	EA	1		\$ 3,500.00
CF607	Latch Down Plug + Baffle 5 1/2" Blue	EA	1		\$ 400.00
CF1251	Auto Fill Float shoe 5 1/2" Blue	EA	1		\$ 360.00
CF1651	Turbolizer 5 1/2" Blue	EA	10		\$ 1100.00
CF1901	5 1/2" Basket Blue	EA	1		\$ 290.00
CF2001	Cement Scratchers Cable Type 5/8"	EA	12		\$ 900.00
CF151	MUO Flush	gal	500		\$ 430.00
F100	Unit mileage Charge Pickup	mi	100		\$ 425.00
F101	Heavy equip mileage	mi	200		\$ 1400.00
E204	Depth Charge 3001-4000	4-h	1		\$ 2160.00
F113	Bulk Delivery Charge	TWA	910		\$ 14.56.00
CE240	Blending & mixing Service chg	SK	195		\$ 273.00
CE504	Plus container utilization chg	Job	1		\$ 250.00
S003	Service Supervisor first 8hrs on job	EA	1		\$ 175.00
SUB TOTAL					\$ 11,974.90

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		11,974.90

SERVICE REPRESENTATIVE Allen F. Wood	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY Mark Robinson (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
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FIELD SERVICE ORDER NO.

Customer Murfin Drilling Co. Inc	Lease No.	Date 11-22-11
Lease Dortweiler	Well # 1-3	
Field Order # H05274A	Station Pratt KS	Casing " 5 1/2"
Type Job 5 1/2" Long String w/P.C.	Depth 3897	County Ellis
	Formation Cm 703905	State KANS.
		Legal Description S-14-19

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size " 5 1/2"	Tubing Size	Shots/Ft		Acid 12-BBI mud Flush	RATE	PRESS	ISIP	
Depth 3897	Depth	From	To	Pre Pad 165 SKs AA	Max	15 1/2 gpm	5 Min.	
Volume 92 BB	Volume	From	To	Pad 30 SKs 60/40 Por. RH	Min		10 Min.	
Max Press # 1500	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection P.C.	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 3846	Packer Depth	From	To	Flush Disp H2O	Gas Volume		Total Load	

Customer Representative Mark Robbin	Station Manager Scotty	Treater Allen
--	---------------------------	------------------

Service Units	28443	27463	19826	19860					
Driver Names	Allen	Brad	Steve	Young					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
330 pm					on loc. Discuss Safety Setup. Plan Job. Laying down D.P. + Rig up to Run 5 1/2" csg. w/ 5.5" Shoe Joint 21.43' w/ Float Shoe + L.D. Baffle in collar Start 5 1/2" casing - w/ recip. 12" ea. scratcher cent- 1-3-5-7-9-11-13-15-17-56 Basket 57" in end. PC. 57" collar Port collar @ 1514'
715					Tag Bottom 3905' Pickup 3897' circ Rig
820	200#		5	5	Pump 5-BBI H2O (Recip. csg.)
			12	5	Pump 12-BBI mud Flush
			5	5	Pump 5-BBI H2O
			5	5	mix + pump 165 SKs AA 2 cmt @ 15'
			42 1/2		Finish mix washout Pump + Line
837				5	Drop L.D. Plug, Start Disp.
	300#		62		caught Lift.
900	1500#		92		Plug down
					Release PSI - OK.
915			7		Plug Rat hole w/ 30 SKs 60/40 Por washup + Rackup Equip.
1000					Job complete.
					THANKS Allen, Brad Steve