



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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- 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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



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

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

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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				

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
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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
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

June 17, 2011

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

Re: ACO1
API 15-193-20790-00-00
Frahm 'A' 1-18
SW/4 Sec.18-10S-34W
Thomas 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



GEOLOGIST'S REPORT

OPERATOR **MURFIN DRILLING COMPANY, INC.**

LEASE **FRAHM 'A' #1-18**

LOCATION **1240 FSL & 1900 FWL**

SEC. **18** TWSP **10S** RGE **34W**

COUNTY **THOMAS** STATE **KANSAS**

FIELD **WILDCAT**

CONTRACTOR **Murfin Drilling Company** RIG NO. **8**

COMMENCED **24 March 2011** COMPLETED **2 April 2011**

MUD DISPLACED **3334** MUD TYPE **Chemical**

DRILLING TIME KEPT FROM **3800** TO **4890**

SAMPLES SAVED FROM **3800** TO **4890**

SAMPLES EXAMINED FROM **3800** TO **4890**

GEOLOGICAL SUPERVISION FROM **3650** TO **4890**

GEOLOGIST ON WELL **Paul Gunzelman**

ELEVATIONS

KB **3247 Ft.**

GL **3242 Ft.**

ALL MEASUREMENTS
FROM K.B.

CASING RECORD

Conductor **None**

Surface **8 5/8" @ 24'**

Production **None**

ELECTRICAL SURVEYS:

Log-Tech, Inc.

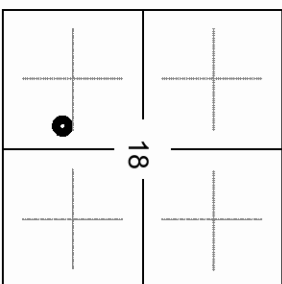
Comp. Neutron Density

Dual Induction

Micro-resistivity

Comp. Sonic

FORMATION NAME	LOG DATUM		SAMPLE DATUM	
	TOP	DATUM	TOP	DATUM
Stone Corral	2756	+491	2754	+493
Base/Anhydrite	2785	+462	2782	+465
Topoka	3910	-663	3908	-661
Heebner Shale	4128	-881	4125	-878
Lansing	4170	-923	4168	-921
Stark Shale	4395	-1148	4396	-1149
Marmaton	4484	-1237	4482	-1235
Cherokee	4680	-1433	4675	-1428
Mississippian	4826	-1579	4824	-1577
Total Depth	4892	-1645	4890	-1643



REMARKS

API 15-193-20790-00-00

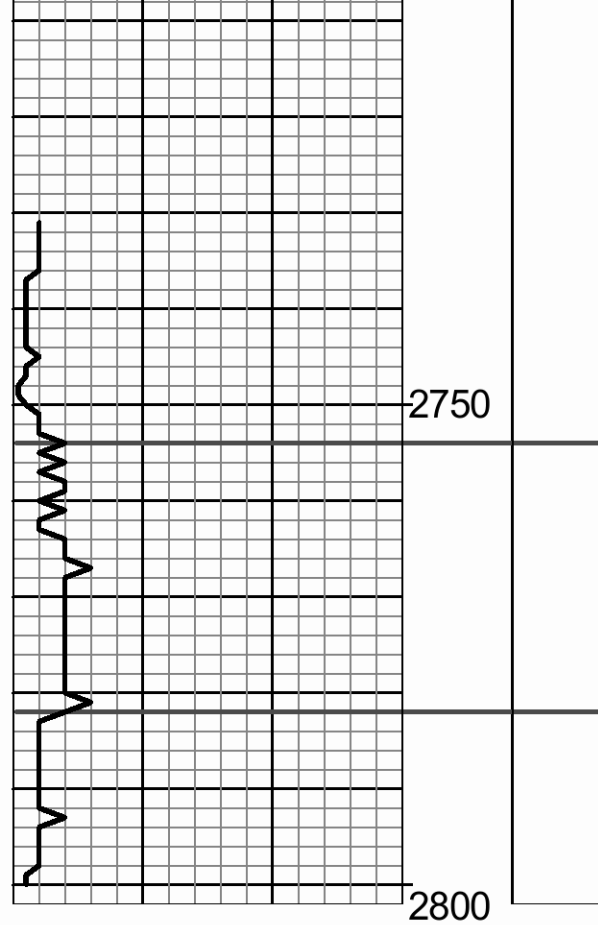
Drilling Fluids: Morgan Mud, Inc. (David Lines, engineer)

Drill Stem Testing: Trilobite Testing, Inc. (Mike Roberts, tester)

Gas Trailer: No Gas Trailer

Reserve Pit Chlorides: 32,000 PPM

DEPTH	LITHOLOGY	SHOWS	SAMPLE DESCRIPTIONS	REMARKS
2700				

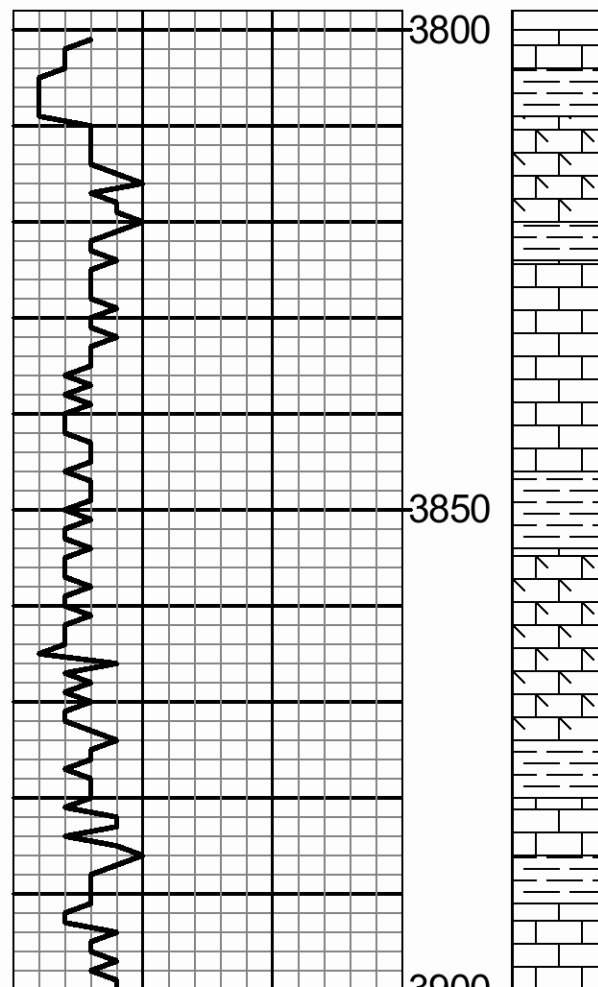


STONE CORRAL

2754 (+493)

BASE/ANHYDRITE

2782 (+465)



Ls: Crm, fnly gran, dol, chky, bcm frag & ool, n/s.

9:59 PM, 03/27/2011

Sh: Blk & v.dk gy, thn fis, slty, some carb.

Ls: Crm-gy, fxln-gran, some dol, tr org rem, occ arg-shly, n/s.

Sh: Lt gn-gy, fis, mica, calc, v.foss.

Ls: Crm-tn, fxln, sli foss, some chk, occ arg, n/s.

Ls: Crm-tn, fxln, tr med xln, sli ool, tr org rem, some chk, occ arg, tr amor calc, n.v.p.

Sh: Gy-gn, fis, occ calc, tr org rem.

Ls: Crm, fxln, sli foss (Fus) some chk, n.v.p.

Ls: Crm-tn, fxln-frag, dol, sli foss (Fus) chky, some arg-shly, cons sec calc, n/s.

Ls: Crm-gy, fxln, chky-sbchky, tr org rem, occ arg, intbd gy & dk gy fis sh, n/s.

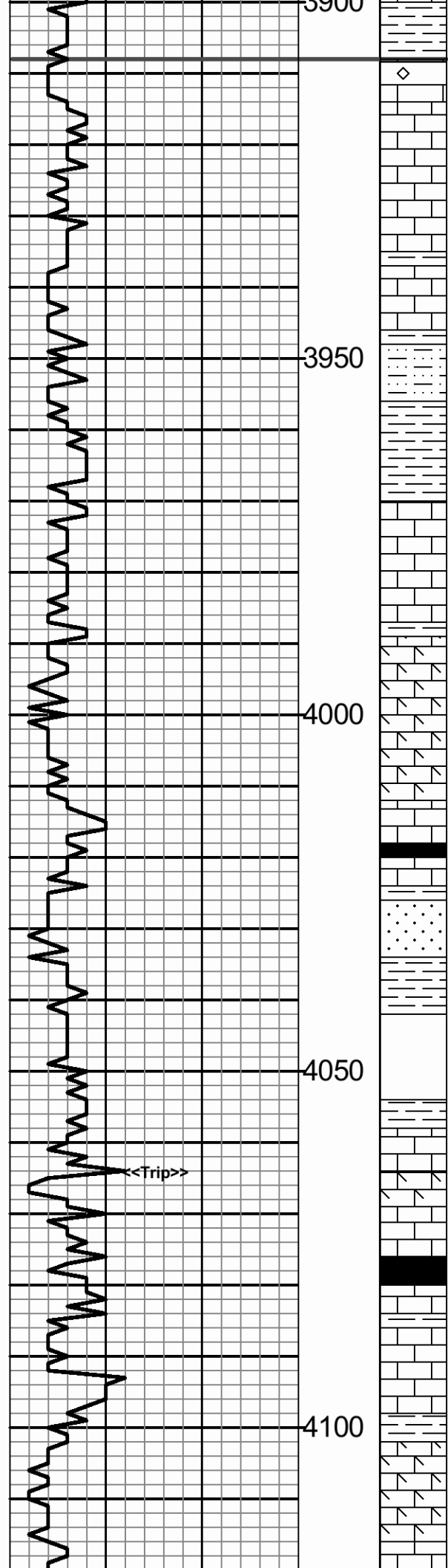
Ls: Crm-tn, fxln, chky, tr org rem, some amor calc, dol in pt, fr intgran por, n/s.

Sh: Gy-gn, fis, some calc.

Ls: Crm, fxln, chky-sbchky, tr amor calc & org rem, n/s.

TOPEKA

3908 (-661)

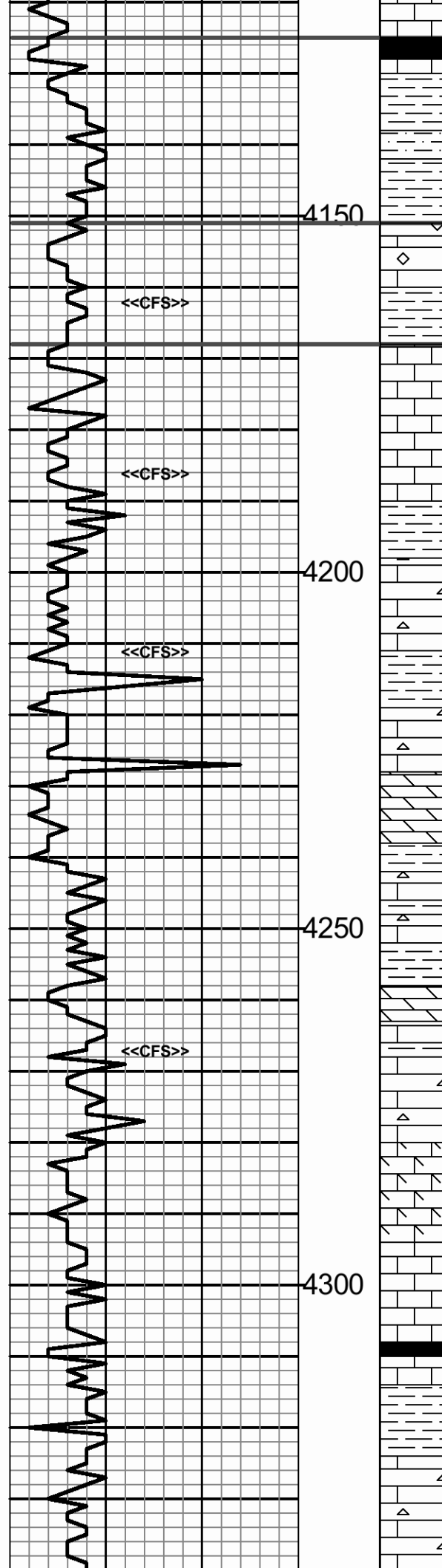


- Ls: Crm, tr yel, fxln, ool, bcm crm fxln-gran sli foss (Brach) sli dol, tr arg, n/s.
- Ls: Crm, fxln, ool, recem, tr chk & org rem, bcm gran, n.v.p, n/s.
- Ls: Crm, fxln, tr medxln, sbchky, tr org rem, occ dol, pr-fr pp por, n/s.
- Ls: Crm-lt gy, fxln, tr gran, sli chky, tr org rem, occ spr calc, n/s.
- Sh: V. dk gy, fis, tr pyr.
- Slst: Lt gy, calc, sli arg, tr pyr, some sdy, gd intgran por, n/s.
- Sh: Rd-brn brn & rd-or, blk, ea, cons rd-brn & brn v.arg sltst, tr gy fis sh.
- Ls: Crm, fxln, tr gran, sbchky, tr org rem, some dol, fr pp por, n/s.
- Ls: Crm, tr lt gy, fxln, occ medxln, some sbchky, tr org rem, occ spr calc, fr pp & intxln por, n/s.
- Sh: Lt gy & gy-gn, tr dk olv gn, fis.
- Ls: Crm, fxln-gran, sbchky, dol in pt, r.org rem, fr intgran por, n/s.
- Ls: Crm tr crm-lt gy, gran, sli dol, sbchky, tr spr calc, gd intgran por, n/s.
- Ls: Crm, fxln, tr vfxln, sbchky, r.org rem, n.v.p.
- Sh: Blk, thn fis, carb.
- Ls: Tn, fxln, mott w/dk gy sh, sli pyr, r.org rem.
- Sd: Lt gy & gy-gn, tr crm-gy, vvf, wl srt, sbfri-fri, sli pyr, gn & rd-brn sh inc, some slty, n/s.
- Sh: Gy dk gy & dk gn, fis, bcm rd-brn v.slty.
- NO SAMPLE
- Sh: Dk gy, fis, tr pyr.
- Ls: Crm, fxln, tr org rem, cons spr calc, tr lt gn sh inc, n.v.p.
- Ls: Wh-crm, gran, dol, sbchky, gd intgran por, n/s.
- Ls: Crm-tn, fxln, foss, occ spr calc, n.v.p.
- Sh: Blk, thn fis, carb.
- Ls: Lt gy-gn & lt gn, fn-vfxln, arg, dns, some intbd gn fis sh, n/s.
- Ls: Wh-crm, fxln-gran, sbchky, sli dol, fr-gd pp & intgran por, n/s.
- Ls: Crm-lt gy, fn-vfxln, some sbchky, bcm lt gy-gn & arg, n/s.
- Ls: Wh-crm, fxln, sbchky, tr amor calc, tr dol, fr pp por, n/s.
- Ls: Crm, fxln, tr gran, sbchky, occ amor calc, some dol, fr-gd pp & intgran por, n/s.

Morgan Mud check @ 3999'
 Vis: 65, Wt: 8.9, WL: 6.8
 Chlor: 5,000 ppm, LCM: 2#

Loss of pump pressure, trip out @ 4064'. Hole in drill collars.

<<Trip>>



Crm-gy, fxln, smwt arg, n.v.p.

- Sh: Blk, thn fis, carb, some tn vfxln dns Ls.
- Sh: Rd-brn, tr brn & rd-or, blk, ea, some slty.
- Sh: Gy-gn, fis, slty, some lmy, intbd gn & lt gy-gn arg calc sltst.
- Sh: Rd-brn & rd-or, some mar & brn, fis-blky.

HEEBNER SHALE
4125 (-878)

4150

- Ls: Wh-v.lt gy, fxln, ool, rexlzd, foss, some sbchky, n.v.p, n/s.
- Sh: Rd-brn, tr brn, ea, some gy-gn fis sh.

TORONTO
4151 (-904)

<<CFS>>

- Ls: Crm, fxln, foss (Fus) sli chky, occ spr calc, pr intxln por, n/s.
- Ls: Crm-tn, fxln, tr frag ool, cons spr calc, some sbchky, n.v.p, n/s.
- Ls: Crm, frag, ool, sbchky, intbd dk gy fis occ slty sh, n/s.
- Sh: Gy & gn-gy, fis, some slty, tr mica.

LANSING
4168 (-921)

4200

- Ls: Wh, fxln, v.chky, tr org rem, some wh op-trnsl vit cht, r.pyr, n.v.p, n/s.
- Ls: Wh, fxln, sbchky, tr org rem, some wh & v.lt or op-trnsl vit cht, n/s.
- Sh: Gy-gn, fis, tr calc, some slty.

<<CFS>>

- Ls: Wh-crm, fxln, some chk, tr org rem, wh-v.lt gy trnsl cht, n.v.p, n/s.
- Dol: Crm, fxln-gran, foss (Fus) sli chky, tr amor calc, n/s.
- Dol: Crm-tn, fxln, chky, tr wh op vit cht, some amor calc, fr pp & vug por, n/s.
- Ls: Crm-tn, fn-vfxln, tr org rem, sbchky, some tn trnsl frs cht, lt gy-gn & olv gn fis sh, n/s.

4250

- Dol: Crm-tn, fxln, sbchky, occ spr calc, wh & lt gy op vit cht, fr-gd intxln & pp por, n/s.
- Ls: Crm-tn, fxln, sbchky, sli dol, lt gy crm & tn op-trnsl cht, n.v.p, n/s.
- Sh: Olv gn & olv brn fis, some calc.
- Ls: Crm, tr v.lt gy, fxln, sli dol, some spr calc, lt gy crm & lt or op vit cht, n/s.
- Ls: Tn, fxln, foss, some cht, dns, n/s.

<<CFS>>

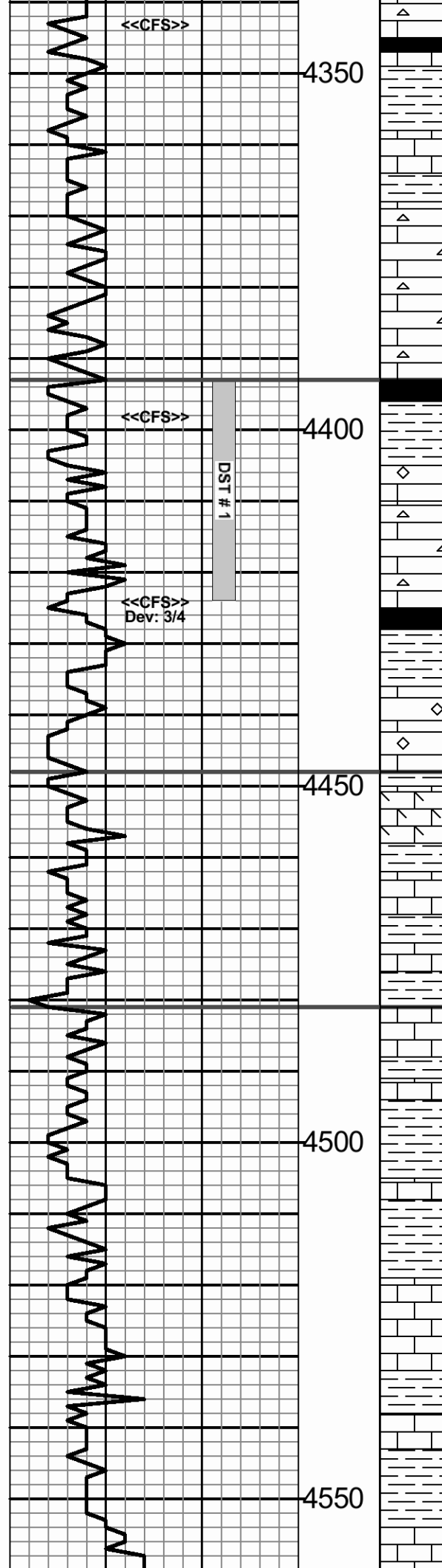
- Ls: Crm, fnly gran, dol, some spr calc, tr tn op vit cht, fr intgran por, n/s.
- Ls: Crm-lt gy, fxln, sli ool, mott, dns, soem chk, n/s.

4300

- Sh: Blk, thn fis, carb, some dk gy slty sli pyr sh & tn-lt brn fxln dns Ls.
- Sh: Lt gy & lt gn-gy, fis, some slty, sli pyr, v.gum.
- Ls: Crm-tn, fxln, occ gran dol, tr org rem, wh & crm trnsl vit cht, pr intgran por, n/s.
- Ls: Crm-lt gy, fxln, tr vfxln, some chk, tr pyr, lt gy & crm op vit cht, n.v.p.

Morgan Mud check @ 4253'
Vis: 64, Wt: 9.2, WL: 6.4
Chlor: 4,800 ppm, LCM: 2#

DST # 1 4394 - 4424
30"-60"-30"-30"
IF: V. Weak blow throughout
EF: No blow



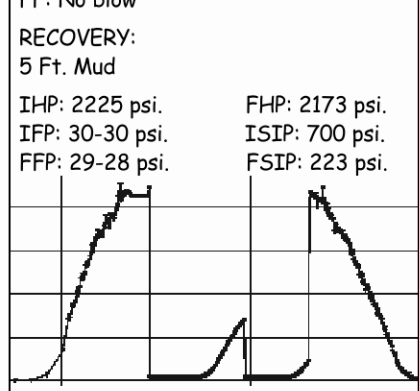
Ls: Crm, occ lt gy, fxln, sbchky, tr org rem, wh-crm op cht, n.v.p.
 Sh: Blk & v.dk gy, fis, some carb, intbd tn-brn vfxln dns Ls.
 Sh: Gy-gn, fis, occ calc, tr slty.
 Ls: Crm & v.lt gy, fxln, tr org rem, sbchky, dns, occ arg, n/s.
 Sh: Rd-brn brn rd-or & purp, blk, tr slty, some gy-gn & lt gy fis sh.
 Ls: Wh-crm, fxln, sbchky, r.org rem, tr wh op cht, n.v.p.
 Ls: Crm, fxln, sbchky, some wh & lt gy trnsl vit cht, r.pyr & org rem, n/s.

Sh: Blk, thn fis, carb, bcm gy-gn & lt gn fis some calc-lmy.
 Ls: Wh lt gy tn & crm, fxln, tr frag ool, sbchky, occ arg & mott, fr pp por, v.sli shw FO sli odor, lt spty stn.
 Ls: Crm, fxln, sbchky, r.org rem, wh & lt gy trnsl vit cht, n.v.p, n/s.
 Sh: Blk, thn fis, carb.
 Sh: Dk gy, gn-gy & olv gn, fis, bcm rd-brn & mar.

Ls: Crm-lt gy, fxln, tr ool, sbchky, some arg, dns, n/s.
 Ls: Tn, fxln, sli ool, tr org rem, dns, some sbchky, n/s.
 Sh: Gy & gy-gn, fis, some calc.
 Ls: Crm-tn, fxln, w/crm fnly gran dol Ls, sbchky, fr por, n/s.
 Sh: Dk gy olv gn & gy-gn, pyr, some tn fn-vfxln dns Ls.
 Ls: Crm, fxln, tr vfxln, some org rem, amor calc, n.v.p, n/s.

Ls: Tn-lt gy, fn-vfxln, sli pyr, sbchky, n/s.
 Sh: V.dk gy, fis.
 Sh: Rd-brn brn mar & gy-gn, blk-splin, ea, some mott
 Ls: Crm-gy, fxln, tr org rem, some arg-shly, intbd gy-gn & gy-brn sh.
 Sh: V.lt gy, fis, some gy-gn & dk gy.
 Ls: Crm-v.lt gy, tr yel, vfxln-crpxln, frac, some mott w/mar & rd-brn sh, dns, n/s.

Sh: Gy, dk gy, fis.
 Ls: Crm-gy, fxln, sbchky, tr ool, r.spr calc, pr pp por, no odor, tr dk brn FO, r.dk stn.
 Sh: Gy, dk gy, & gy-gn fis, some calc-lmy.
 Ls: Crm, tr crm-tn, fn-vfxln, tr microxln, occ spr calc, some sbchky, r.org rem, dns,

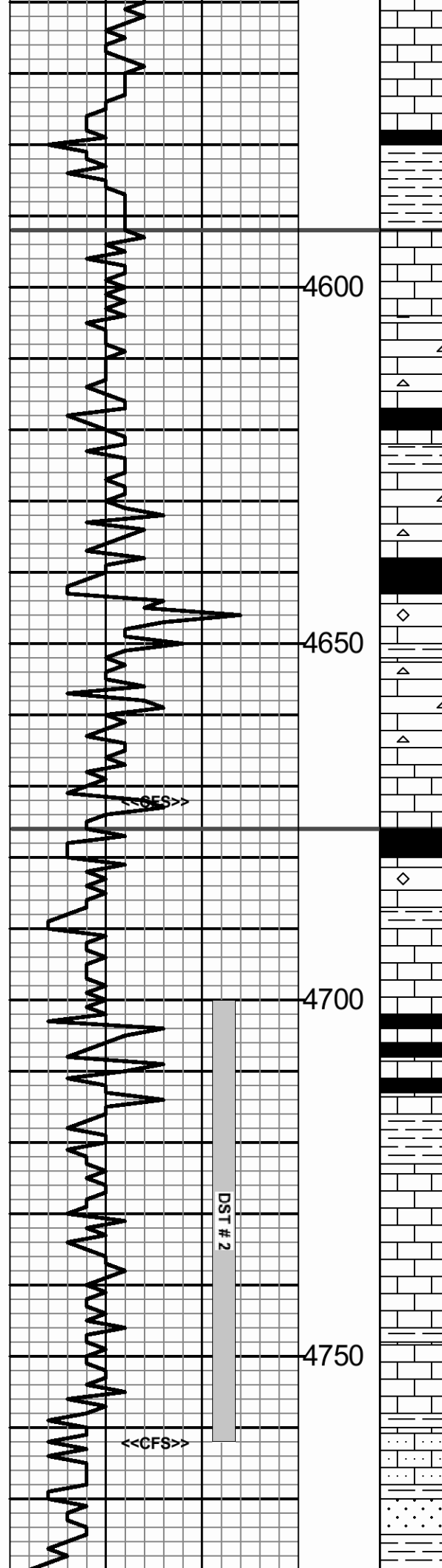


STARK SHALE
4393 (-1146)

Morgan Mud check @ 4424'
 Vis: 53, Wt: 9.3, WL: 7.2
 Chlor: 6,900 ppm, LCM: 2#

BASE/KANSAS CITY
4448 (-1201)

MARMATON
4481 (-1234)



Ls: Tn, some lt brn, fxl, dns, r.org rem, some sbchky, n/s.

Sh: Blk, thn fis, carb, bcm gy-gn & dk gy fis some vgt.

Ls: Crm, fxl, sbchky, dns, frac, tr arg, n/s.

Ls: Wh-crm, fxl, tr vfxln, wthd-sbchky, dns, n/s.

Ls: Crm-tn, fxl, tr vfxln, some wthd, occ blugy lt gy tn & dk brn trns l vit cht, tr pr pp por, no odor, no FO, spty v.dk stn.

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

Ls: Wh-crm, fxl, foss (Fus) some sbchky, tr spr calc, occ lt gy & crm trns l vit cht, n.v.p, n/s,

Ls: Wh-crm, fxl, tr vfxln, sbchky, tr org rem, r.pyr, lt gy & tn trns l cht, n/s.

Sh: Blk, thn fis, carb.

Ls: Crm-tn mott w/dk gy & brn ool, fxl, some wthd-sbchky, cons sec calc, tr pyr, n.v.p, n/s.

Ls: Crm, fxl, some lt gy & tn trns l cht, intbd lt gn fis sh, n/s.

Ls: Crm, occ crm-tn, fxl, some sbchky, sli pyr, tr ool, v.lt gy trns l cht, n.v.p, n/s.

Ls: Tn-lt brn, vfxln, pyr, tr org rem, dns.

Sh: Blk, thn fis, carb.

Ls: Wh-crm, frag, dk gy & crm ool, cons spr calc, n.v.p, n/s.

Sh: V.dk gy, fis, tr pyr, some carb mat.

Ls: Tn, fxl, rexlzd, tr ool, some arg, dns, n/s.

Sh: Blk, thn fis, carb, intbd w/crm-gy fn-vfxln, dns Ls, tr org rem & spr calc, n/s.

Sh: Dk gy & dk gy-brn fis, some carb, tr pyr.

Ls: Tn-lt brn, fn-vfxln, tr spr calc, gen dns, tr pr intxln por, no odor, v.dk spty stn, no FO.

Ls: Tn, vfxln, tr org rem, n.v.p, n/s.

Ls: Crm-tn, vfxln, tr pyr, r.org rem, some v.dk gy-blk intbd sh, n.v.p, n/s.

Ls: Crm, tr crm-tn, fxl, some gran & sbchky, tr org rem, pr-fr intgran por, n/s.

Ls: Crm, gran, sbchky, cons vfn ang-sbrnd qtz sd, fr intgran por, n/s.

Sh: Blu-gn, some yel & mar, blk, sli pyr, occ sbwxy.

Sd: Wh-v.lt gy, vfn-fn, sbrnd, sbfri-wl cmt, fr-gd intgran por, n/s.

PAWNEE

4592 (-1345)

Morgan Mud check @ 4667'
Vis: 69, Wt: 9.4, WL: 8.0
Chlor: 6,000 ppm, LCM: 1.5 #

CHEROKEE

4676 (-1429)

DST # 2 4700 - 4762

30"-60"-60"-90"

IF: Fair blow, incr to 8 inches.

FF: Fair blow, incr to 8 inches.

RECOVERY:

124 Ft. Mud

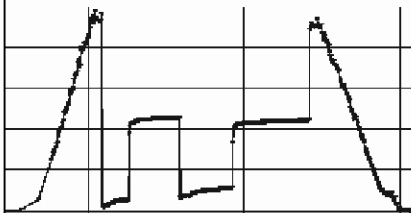
477 Ft. Muddy Water

IHP: 2425 psi. FHP: 2332 psi.

IFP: 52-141 psi. ISIP: 1142 psi.

FFP: 167-286 psi. FSIP: 1111 psi.

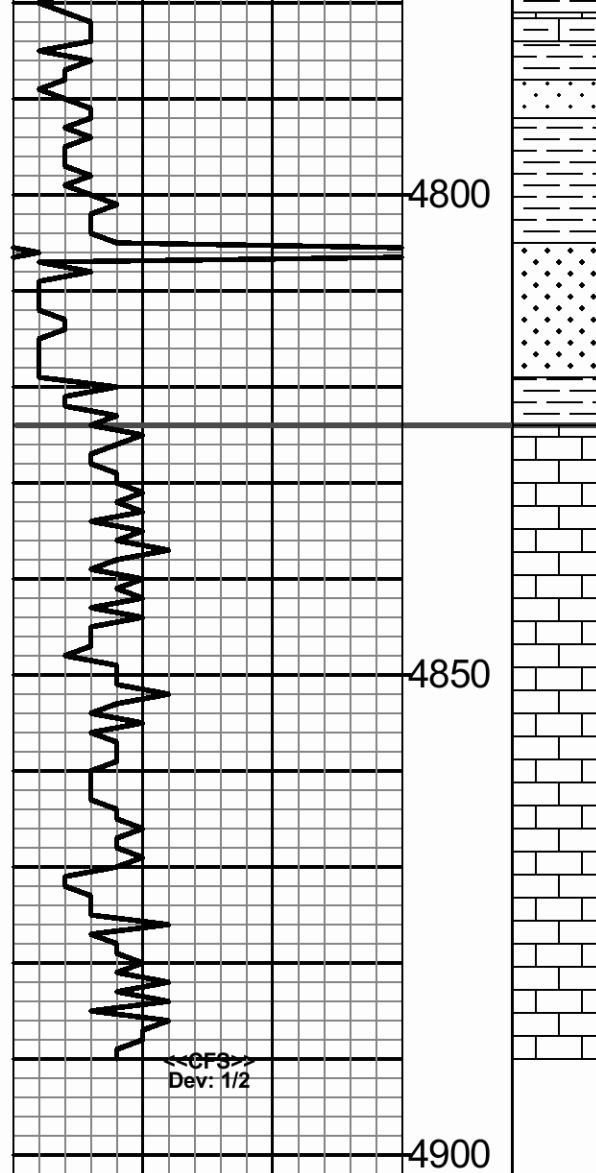
BHT: 132 deg. F.



Morgan Mud check @ 4763'

Vis: 46, Wt: 8.9, WL: 8.4

Chlor: 8,000 ppm, LCM: 4#



Ls: Crm-tn, fxln, sbchky, tr org rem, some spr calc, n.v.p, intbd gy dk gy & gy-gn fis sh.
 Sh: Gy-gn blu-gn yel purp mar & dk gy, some wxy, tr pyr, tr blk carb sh, some lt gy fn sbrnd fri arg sd, n/s.
 Sh: Gy purp gn yel & blu-gn, sbwxy, some sdy, intbd tn crpxln dns Ls, some fn sd clus, n/s.
 Sd: Wh & lt gy, vvf n-med, ang-sbrnd, pr srt, sbfri-wl cmt, occ calc, some glauc & arg, r.pyr, gd intgran por, n/s.

Ls: Crm, tr tn, fxln, ool, tr org rem, occ sbchky, tr aren, intbd gn & yel sh, n.v.p, n/s.
 Ls: Crm, fxln, some vfxln-microxln, occ sbchky, tr sdy, n.v.p.
 Ls: Crm, gran-frag, ool, aren, sbchky, tr vfxln & dns, n/s.
 Ls: Crm, some wh-crm, fxln-frag, ool, sbchky, occ vfxln, n/s.
 Ls: Crm, tr crm-tn, fxln-frag, ool, tr org rem, sbchky in pt, occ sdy, n.v.p, n/s.

MISSISSIPPIAN

4824 (-1577)

TOTAL DEPTH

4890 (-1643)

5:35 PM, 1 April 2011

Operator: MURFIN DRILLING COMPANY, INC.
 Lease: FRAHM 'A' #1-18
 Location: 1240 FSL & 1900 FWL SEC. 18 TWSP 10S RGE 34W
 County: THOMAS State: KANSAS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company
250 N Waterfront
Ste. 300
Wichita Ks 67202
ATTN: Paul Gunzelman

Frahm A 1-18
18/10s/34w TregoKS
Job Ticket: 042166 **DST#: 1**
Test Start: 2011.03.30 @ 05:04:15

GENERAL INFORMATION:

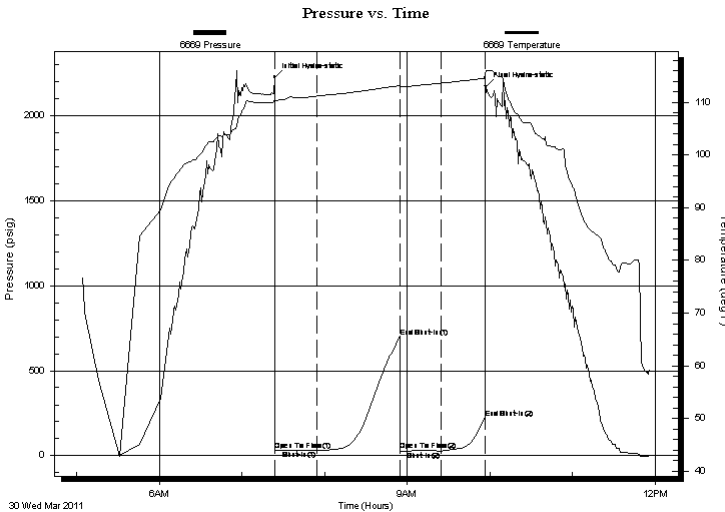
Formation: **LKC "K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:24:00
Time Test Ended: 11:56:00
Interval: **4394.00 ft (KB) To 4424.00 ft (KB) (TVD)**
Total Depth: 4424.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Mike Roberts
Unit No: 48
Reference Elevations: 3248.00 ft (KB)
3243.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6669 Outside

Press @ Run Depth: 28.87 psig @ 4419.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.03.30 End Date: 2011.03.30 Last Calib.: 2011.03.30
Start Time: 05:04:15 End Time: 11:56:00 Time On Btm: 2011.03.30 @ 07:23:45
Time Off Btm: 2011.03.30 @ 09:57:15

TEST COMMENT: IF: Built to 1/8" blow
IS: No return blow
FF: No blow
FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2225.20	110.64	Initial Hydro-static
1	30.95	110.37	Open To Flow (1)
31	30.64	111.18	Shut-In(1)
91	700.59	113.15	End Shut-In(1)
91	29.30	112.96	Open To Flow (2)
121	28.87	113.66	Shut-In(2)
153	223.51	114.60	End Shut-In(2)
154	2173.08	115.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	m 100%	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company
250 N Waterfront
Ste. 300
Wichita Ks 67202
ATTN: Paul Gunzelman

Frahm A 1-18
18/10s/34w TregoKS
Job Ticket: 042166 **DST#: 1**
Test Start: 2011.03.30 @ 05:04:15

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 64.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4800.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

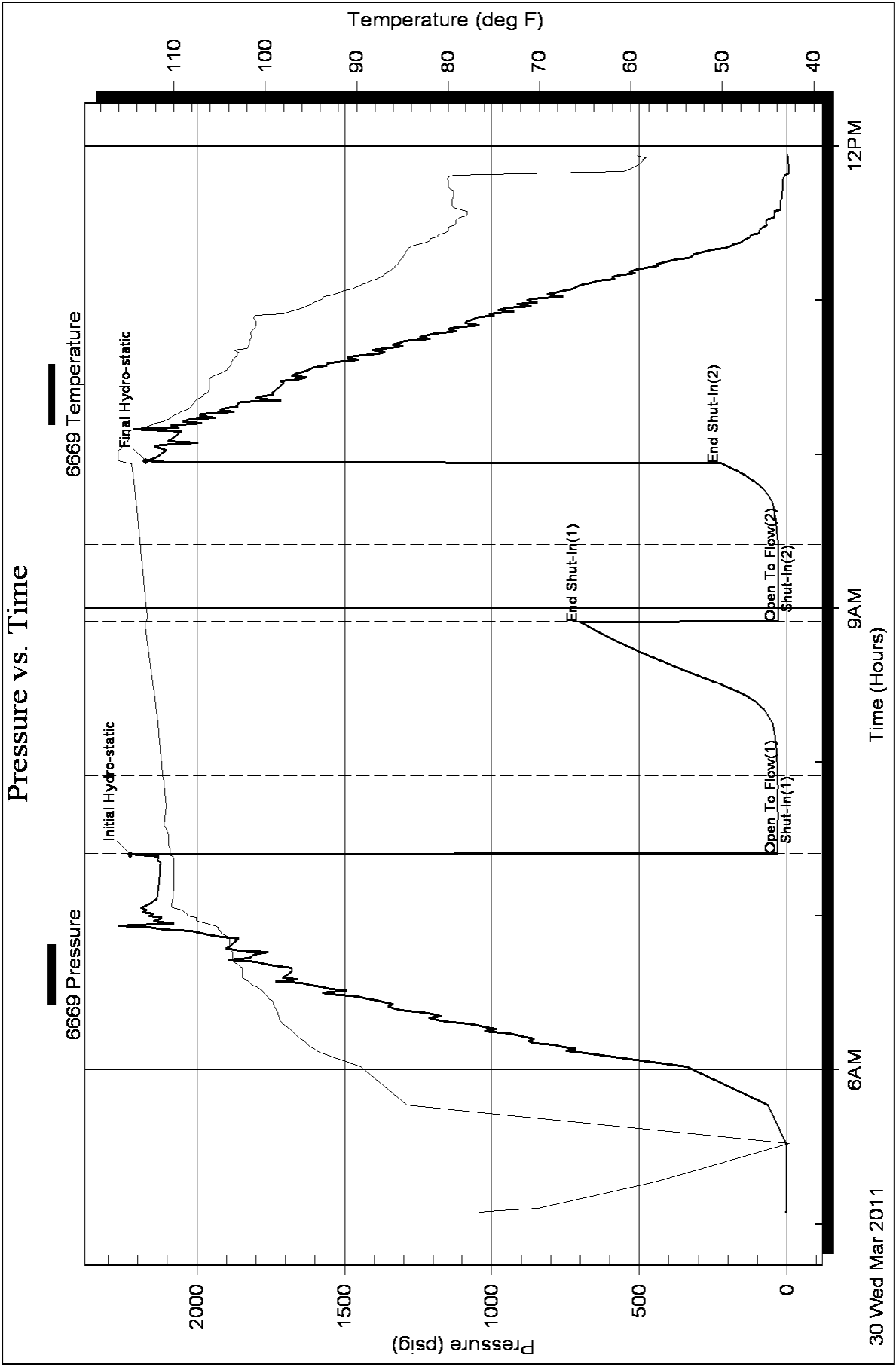
Length ft	Description	Volume bbl
5.00	m 100%	0.025

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:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Company
250 N Waterfront
Ste. 300
Wichita Ks 67202
ATTN: Paul Gunzelman

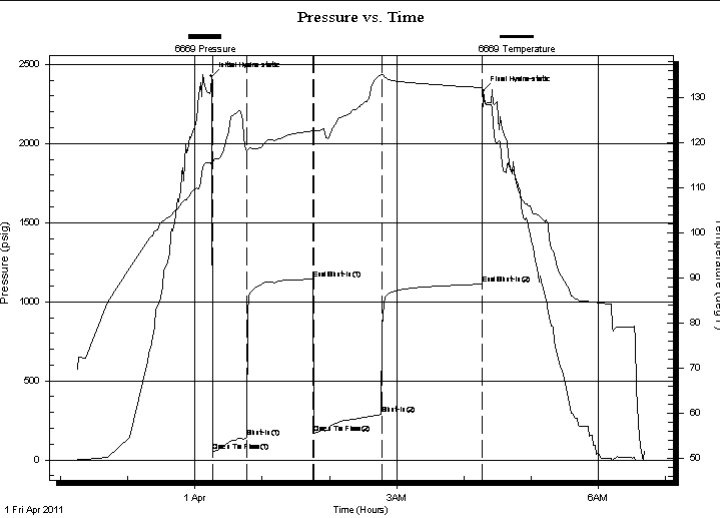
Frahm A 1-18
18/10s/34w TregoKS
Job Ticket: 042167 **DST#: 2**
Test Start: 2011.03.31 @ 22:15:15

GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:16:15
Time Test Ended: 06:41:15
Interval: **4700.00 ft (KB) To 4762.00 ft (KB) (TVD)**
Total Depth: 4762.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 3248.00 ft (KB)
3243.00 ft (CF)
KB to GR/CF: 5.00 ft
Test Type: Conventional Bottom Hole
Tester: Mike Roberts
Unit No: 48

Serial #: 6669 Outside
Press @ Run Depth: 286.15 psig @ 4757.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.03.31 End Date: 2011.04.01 Last Calib.: 2011.04.01
Start Time: 22:15:15 End Time: 06:41:15 Time On Btm: 2011.04.01 @ 00:14:45
Time Off Btm: 2011.04.01 @ 04:17:30

TEST COMMENT: IF: Built to 8" blow
IS: No return blow
FF: Built to 8" blow
FS: No return blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2425.05	115.74	Initial Hydro-static
2	52.53	115.87	Open To Flow (1)
32	141.24	118.16	Shut-In(1)
91	1142.09	122.67	End Shut-In(1)
92	167.11	122.53	Open To Flow (2)
152	286.15	135.14	Shut-In(2)
242	1111.18	132.30	End Shut-In(2)
243	2332.44	129.67	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
477.00	mcw 10% m 90% w	2.35
124.00	m 100% m	1.74

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company
250 N Waterfront
Ste. 300
Wichita Ks 67202
ATTN: Paul Gunzelman

Frahm A 1-18
18/10s/34w TregoKS
Job Ticket: 042167 **DST#: 2**
Test Start: 2011.03.31 @ 22:15:15

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 7500 ppm
Viscosity: 69.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.97 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 6000.00 ppm		
Filter Cake: 2.00 inches		

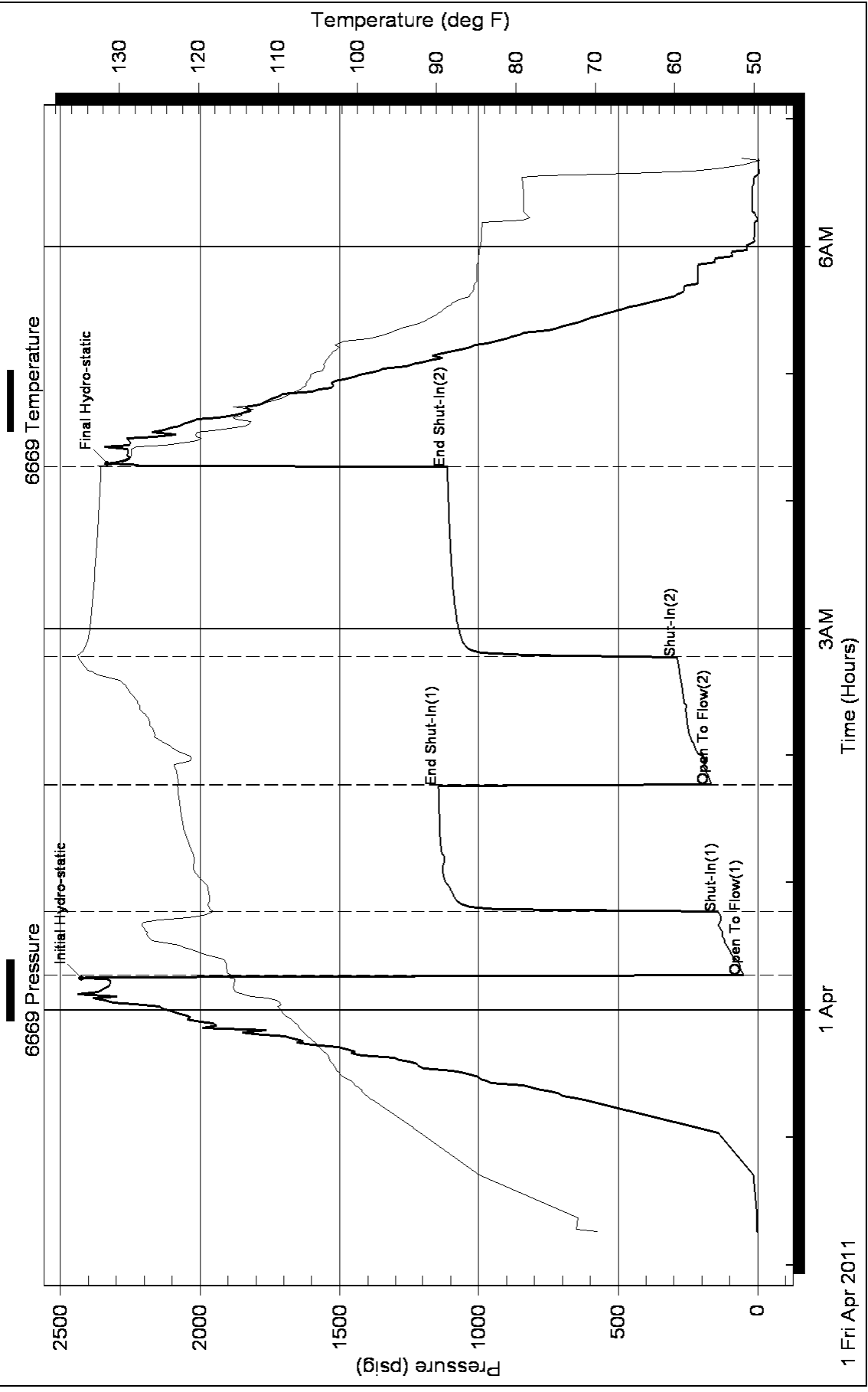
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
477.00	mcw 10%m 90%w	2.346
124.00	m 100%m	1.739

Total Length: 601.00 ft Total Volume: 4.085 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW=.480@49.5*=7500 ppm

Pressure vs. Time





PO BOX 31 Russell, KS 67665

Voice: (785) 483-3887
Fax: (785) 483-5566

Bill To:
Murfin Drig. Co., Inc.
250 N. Water
STE #300
Wichita, KS 67202

Federal Tax I.D.#: 20-5975804

moc/or

top add

INVOICE

Invoice Number: 126643
Invoice Date: Mar 24, 2011
Page: 1

Customer ID	Well Name # or Customer P.O.	Payment Terms
Murfin	Frahm A #1-18	Net 30 Days
Job Location	Camp Location	Service Date
KS1-01	Oakley	Mar 24, 2011
		Due Date
		4/23/11

Quantity	Item	Description	Unit Price	Amount
195.00	MAT	Glass A Common	16.25	3,168.75
7.00	MAT	Chloride	58.20	407.40
202.00	SER	Handling	2.25	454.50
27.00	SER	Mileage 202 sx @ .11 per sk per mi	22.22	599.94
1.00	SER	<u>Surface</u>	1,125.00	1,125.00
54.00	SER	Pump truck Mileage	7.00	378.00
54.00	SER	Light Vehicle Mileage	4.00	216.00
1.00	CEMENTER	Alan Ryan		
1.00	CEMENTER	Terry Heinrich		
1.00	EQUIP OPER	Wayne McGhghy		
1.00	OPER ASSIST	Jerry Yates		

Subtotal	6,349.59
Sales Tax	261.06
Total Invoice Amount	6,610.65
Payment/Credit Applied	
TOTAL	6,610.65

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

\$ 1904.82

ONLY IF PAID ON OR BEFORE
APR 18, 2011

Per Judy
35%

OMD

222236
W 4388.29

ALLIED CEMENTING CO., LLC. 039896

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Chickley, K

DATE <u>3/27/11</u>	SEC. <u>18</u>	TWP. <u>10</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH	
LEASE/FRACTION A WELL # <u>1-18</u>				LOCATION <u>Manhattan W to 25-40th</u>	COUNTY <u>Thomas</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one) <u>NEW</u>				OWNER <u>Edna</u>				

CONTRACTOR Mac Sa

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 242

CASING SIZE 8 1/2 DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 14,4599

EQUIPMENT

PUMP TRUCK CEMENTER Alan Terry

402 HELPER Wayne

BULK TRUCK

404 DRIVER Terry

BULK TRUCK DRIVER

#

REMARKS:

Run 8 1/2" casing, Cement, Mix Cement

Displace Cement, wash bit

celler

Cement Dick

Thompson

Alan, Wayne, Terry

CHARGE TO: Municipal Drilling

STREET

CITY STATE ZIP

To Allied Cementing Co., LLC.

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

PRINTED NAME Bernard Meyer

SIGNATURE Bernard Meyer

CEMENT AMOUNT ORDERED 195 cu 370 cu

COMMON 195 @ 16.25 3168.75

POZMIX @

GEL @

CHLORIDE 7 @ 58.00 407.40

ASC @

@

@

@

@

HANDLING 2.00 @ 2.25 4.50

MILEAGE 114.52/mi @ 5.99 684.97

TOTAL 4630.59

DEPTH OF JOB

PUMP TRUCK CHARGE 11

EXTRA FOOTAGE 1125.00

MILEAGE 27 x 2 @ 7.00 378.00

MANIFOLD @

Vehicle Mileage @ 4.00 216.00

27 x 2

TOTAL 1719.00

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

SALES TAX (if Any)

TOTAL CHARGES

DISCOUNT

IF PAID IN 30 DAYS



PO BOX 31 Russell, KS 67665

Voice: (785) 483-3887
Fax: (785) 483-5566

Bill To:
Murfin Drfg. Co., Inc.
250 N. Water
STE #300
Wichita, KS 67202

Federal Tax I.D.#: 20-5975804

MDC

to credit
INVOICE

Invoice Number: 126763
Invoice Date: Apr 2, 2011
Page: 1

Customer ID	Well Name# or Customer P.O.	Payment Terms
Murfin	Frahm A #1-18	Net 30 Days
Job Location	Camp Location	Service Date
KS1-03	Oakley	Apr 2, 2011
		Due Date
		5/2/11

Quantity	Item	Description	Unit Price	Amount
132.00	MAT	Class A Common	16.25	2,145.00
88.00	MAT	Pozmix	8.50	748.00
7.00	MAT	Gel	21.25	148.75
52.00	MAT	Flo Seal	2.70	140.40
229.00	SER	Handling	2.25	515.25
27.00	SER	Mileage 229 sx @ .11 per sk per mi	25.19	680.13
1.00	SER	Plug to Abandon	1,250.00	1,250.00
54.00	SER	Pump Truck Mileage	7.00	378.00
54.00	SER	Light Vehicle Mileage	4.00	216.00
1.00	EQP	8.5/8 Dry Hole Plug	82.00	82.00
1.00	CEMENTER	Andrew Forslund		
1.00	EQUIP OPER	Larene Wentz		
1.00	OPER ASSIST	Earl Rebarchek		

afid

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

\$ 2206.33

ONLY IF PAID ON OR BEFORE
APR 27, 2011

Subtotal	6,303.53
Sales Tax	460.16
Total Invoice Amount	6,763.69
Payment/Credit Applied	
TOTAL	6,763.69

- 2206.23

ALLIED CEMENTING CO., LLC. 043284

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Oakley

DATE <u>4-2-11</u>	SEC. <u>18</u>	TWP. <u>10</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION	JOB START <u>8:00 Am</u>	JOB FINISH <u>9:00 Am</u>
LEASE <u>Fresh A</u>	WELL # <u>1-18</u>	LOCATION <u>moment 2w 7N</u>		COUNTY <u>Thomas</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one) <u>NEW</u>				OWNER <u>same</u>			

CONTRACTOR Muchin Drilling Rig 8

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D. 4890'

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH 2768'

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

EQUIPMENT

PUMP TRUCK CEMENTER Andrew

423-281 HELPER Larene

BULK TRUCK _____

396 DRIVER Earl

BULK TRUCK _____

_____ DRIVER _____

REMARKS:

25 sks @ 2768'

100 sks @ 1742'

40 sks @ 291'

15 sks mause hole

30 sks Rat hole

10 sks 40'

thank you

CHARGE TO: MURFIN

STREET _____

CITY _____ STATE _____ ZIP _____

To Allied Cementing Co., LLC.

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

PRINTED NAME Rodney Farr

SIGNATURE Rodney Farr

CEMENT

AMOUNT ORDERED 270 sks 6940

4909 el 1/4" flo seal

COMMON 122 sks @ 16,25 2048.00

POZMIX 88 sks @ 8.50 748.00

GEL 7 sks @ 21.25 148.75

CHLORIDE _____ @ _____

ASC _____ @ _____

Flo-seal 53# @ 2,70 140.40

HANDLING 279 sks @ 2,25 618.75

MILEAGE 118 sk/mile 450.13

TOTAL 4897.53

SERVICE

DEPTH OF JOB 2768'

PUMP TRUCK CHARGE _____ 1250.00

EXTRA FOOTAGE _____ @ _____

MILEAGE 27 miles X 2 @ 7.00 378.00

MANIFOLD _____ @ _____

Light vehicle @ 4.00 216.00

TOTAL 1844.00

PLUG & FLOAT EQUIPMENT

8 5/8

1 Dry hole plug @ 82.00

TOTAL 82.00

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

MDCI Frahm 'A' #1-18 1240' FSL 1900' FWL Sec. 18-T10S-R34W 3247' KB							MDCI SS #1-16 1750 FSL 1750 FWL Sec. 16-T10S-R34W 3252' KB	
Formation	Sample Top	Datum	Ref	Log Tops	Datum	Ref	Log Top	Datum
Anhydrite	2754	+493	+6	2756	+491	+4	2765	+487
B/Anhydrite	2782	+465	+5	2785	+462	+2	2792	+460
Topeka	3908	-661	+11	3910	-663	+9	3924	-672
Heebner	4125	-878	+9	4128	-881	+6	4139	-887
Lansing	4168	-921	+9	4170	-923	+7	4182	-930
Stark	4396	-1149	+7	4395	-1148	+8	4408	-1156
Up Pawnee	4586	-1339	+8	4595	-1348	-1	4599	-1347
Cherokee	4673	-1426	+2	4680	-1433	-5	4680	-1428
Johnson Zn	4723	-1476	-3	4724	-1477	-4	4725	-1473
Mississippi	4824	-1577	+25	4826	-1579	+23	4854	-1602
RTD	4890						4900	
LTD				4892			4904	