



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

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 |
|---|---|

| 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: <input type="checkbox"/> Yes <input type="checkbox"/> No |
|----------------|-------|---------|------------|---|

| | |
|---|--|
| 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> _____ |
|---|--|

| | | | | | |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|-----------------------------------|-----------|---------|-------------|---------------|---------|

| | | |
|--|---|---|
| DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i> | PRODUCTION INTERVAL: _____ _____ |
|--|---|---|

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/>

Thomas E. Wright, Chairman
Ward Loyd, Commissioner

Corporation Commission

Sam Brownback, Governor

May 16, 2011

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

Re: ACO1
API 15-051-26080-00-00
Freida 1-13
SW/4 Sec.13-12S-20W
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

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

MURFIN DRILLING CO., INC.
 WELL: FREIDA #1-13
 LOC.: 2050' FSL & 2310' FWL
 SEC. 13-12-20W
 ELLIS COUNTY, KANSAS
 API: 15-051-26080-00-00

DRILLING CONTR.: MURFIN RIG #8
 SPUD: 01-18-11 COMP: 01-29-11
 MUD UP: 2771' TYPE MUD: CHEM.
 FIVE FT. DRILL TIME: BSP-3200'
 ONE FT. DRILL TIME: 3200-RTD
 RTD: 4025' LTD: 4028'
 SAMPLES SAVED: 3150'-RTD
 GEOLOGIST: ROBERT J. PETERSEN

ELEVATION
 KB: 2265'
 GL: 2260'
 LOG MEASURED
 FROM: KB

SURFACE CASING
 8 5/8" CASING SET
 @214' W/190SX

PRODUCTION CASING
 Plugged & Abandoned

WELL LOG SURVEYS
 CDL/DIL/SONIC/MICRO

| Formation | Depth | Datum | Pos. A | Pos. B |
|-----------|-------|-------|--------|--------|
| Anh | 1635 | +630 | +1 | +3 |
| BA | 1684 | +581 | -2 | -6 |
| Topeka | 3307 | -1042 | +2 | +2 |
| Heebner | 3536 | -1271 | +1 | +2 |
| Toronto | 3560 | -1295 | +1 | +2 |
| LKC | 3580 | -1315 | +2 | FLAT |
| BKC | 3818 | -1553 | +10 | +10 |
| Marm | 3831 | -1566 | +12 | +12 |
| Arbuckle | 3955 | -1690 | N/A | -54 |

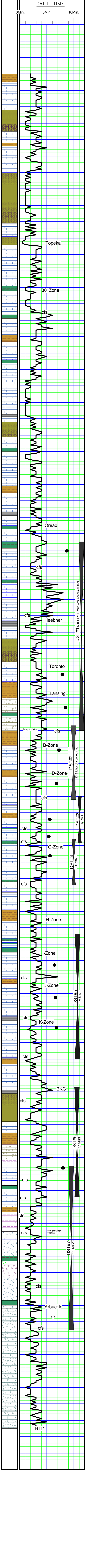
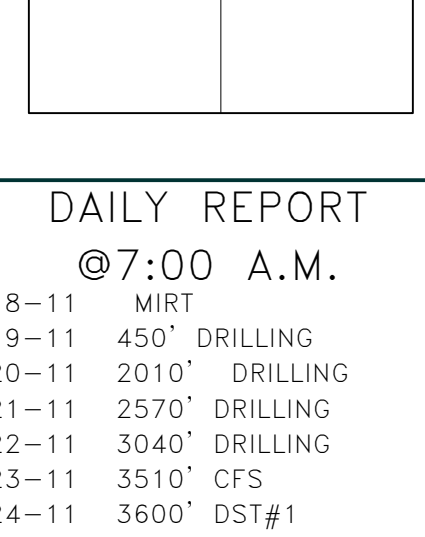
REFERENCE WELL:
 Murfin Drilling Co. Homburg #1-18
 1150' FSL/700' FWL
 SW NE SW 13-12-20W 18-12-19W
 2217 KB 2231 KB

REMARKS AND RECOMMENDATIONS
 Due to the negative drill stem results this well was plugged and abandoned by the operator.

Respectfully Submitted,
Robert Petersen
 Robert Petersen 1-31-11

DAILY REPORT
 @7:00 A.M.

1-18-11 MIRT
 1-19-11 450' DRILLING
 1-20-11 2010' DRILLING
 1-21-11 2570' DRILLING
 1-22-11 3040' DRILLING
 1-23-11 3510' CFS
 1-24-11 3600' DST#1
 1-25-11 3668' DST#3
 1-26-11 3694' TH
 1-27-11 3800' Drilling
 1-28-11 3919' Drilling
 1-29-11 4025' TOH for Log



SAMPLE DESCRIPTION

LS: Tan/cream, fine crystalline to dense + LS; Gray, dense, arg. + SH; Dark gray (3200)

LS: Gray/tan, dense, foss, subgranular in part, chalky + SH; Gray (10)

LS: Tan/gray, dense, foss + SH; Gray/green, silty-sandy (20)

LS: Cream/gray/tan, dense, foss, chalky + SH; Gray, trace LS; Brown/tan, chalky, mealy w/trace dead stain (30)

Decrease SH (40)

SH: Gray, silty (50)

LS: Tan/cream, fine crystalline to dense, sl foss, chalky (50)

LS: Cream/gray, dense, foss, mottled, chalky (60)

SH: Gray, silty, sandy (60)

LS: Lt gray, dense, foss, chalky, blocky (70-80)

SH: Dark gray, silty-sandy (80)

SH: Gray, silty-sandy + SS; Gray, fine grained, angular, friable, micaceous (90)

SH: Gray/dark gray, silty (3300)

SH: Brown/gray, silty, sandy, gummy (3310)

LS: Cream/gray, dense, foss, chalky (3310)

SH: Black + SH; Red/gray, silty (20)

LS: Gray w/cream fossil mottle, very foss, dense (20)

LS: Cream/tan/gray, fine crystalline to dense, sl foss, chalky, trace stain (30-40)

SH: Dark gray + SH; Gray, silty (45/20')

LS: Cream, fine crystalline, foss, chalky, trace poor fossil-cast por + LS; Tan/gray, dense (45/20')

LS: Tan, fine crystalline, foss, chalky, slightly dolomitic, trace poor fossil-cast por (45/40')

LS: Tan/gray, dense, foss (45/60')

SH: Black (60)

LS: Gray/cream, fine crystalline, foss, chalky, sl dolo + SH; Gray, silty (60)

LS: Tan, fine crystalline, foss, dolo, poor vug por, trace min stain (70)

LS: Cream/gray, fine crystalline to dense, foss w/poor vug por, sl dolo, chalky, mealy, cherty, tr dead stain + SH; Gray, sandy (80-90)

LS: Cream, fine crystalline, very chalky, mealy + SH; Dark gray (3400)

LS: Tan, fine crystalline to dense, foss, chaly (10)

LS: Gray/cream, fine crystalline, chalky, trace dead stain + SH; Dark gray (20-30)

LS: Tan/cream, fine crystalline to dense, foss, chalky, dolo + SH; Black/SH; Gray, sandy (40)

LS: Gray/cream/tan, fine crystalline to dense, foss, chalky (50)

SH: Gray (60)

LS: Cream/gray, fine crystalline, foss, chalky, sl cherty (60)

LS: Tan/cream, fine crystalline, chalky, sl cherty (70)

SH: Black (80)

SH: Gray, silty (80)

LS: Cream/tan, fine crystalline to dense, chalky, cherty (80)

LS: Cream/tan, fine crystalline to dense, chalky, soft (90)

LS: Gray, fine crystalline, foss w/tr poor intercrystalline por, patchy, stain, sso (heavy-larry) (3500-10)

LS: Cream/gray, fine crystalline, foss, chalky, sl dolo, cherty + SH; Gray (10)

+ SH; Red/gray (10/20')

LS: Cream/white, fine crystalline to dense, sl foss, cherty(foss-chert), chalky (10/40-60')

LS: Tan/cream, fine crystalline, foss, chalky w/patchy stain(dead), trace dead oil flakes (20-30)

LS: Tan/cream, fine crystalline to dense, foss (40)

SH: Black, carb (50)

LS: Gray/tab, dense, foss (50)

SH: Red/gray, + SS; Gray, fine grained, friable, micaceous(60)

SH: Gray + SS; Gray/tan, very fine to fine grained, friable to well-cem (70)

LS: Cream/white, fine crystalline to dense, chalky, sl cherty (70)

LS: Tan, fine crystalline, foss w/trace poor ppt por, trace stain, vssfo (70/15')

LS: Tan, fine crystalline, very foss, poor ppt por, trace stain, trace dead oil flakes (70/30') vssfo (70/45')

SH: Black/green + SH; Red/gray, silty (40/45')

SH: Gray, silty-sandy (80)

SH: Green/gray, silty-sandy + SH; Black, sandy (90)

LS: Cream/white, fine crystalline, foss, cherty w/chert inclusions, w/fair fossil-cast por, patchy stain, sfo (90)

LS: Cream, fine to medium crystalline, sl dolo, cherty, foss w/fair intercrystalline por, trace dark stain, sfo (3600)

LS: Cream/tan/gray, fine crystalline to dense, sl dol, cherty, no vis por (00/30')

SH: Gray, silty-sandy (10)

SH: Green, gray, silty (20)

LS: Cream/tan, dense, cherty + LS; Tan, fine crystalline, sl foss (20)

LS: Cream/gray, fine crystalline to dense, foss, w/trace poor vug por, sfo (25)

LS: Cream, fine crystalline, foss, granular w/por to fair intergranular por, sfo, good odor, med brown to dark stain on dry + LS; Tan, dense, slightly dolomitic w/por vug por, sfo (25/30')

SH: Gray, dense, foss, blocky (30)

SH: Dark gray silty-sandy +SH; Black (30)

LS: Tan, fine crystalline to dense, dolomitic, cherty + chert inclusions w/fair vug por, sfo, odor + LS; Cream, fine crystalline, foss - subgranular, chalky (40)

LS: Cream/white, fine crystalline, foss-granular in part, w/fair intercrystalline + vug por, sfo, increase odor, full medium brown stain on dry (42/30') increase dolo (42/45')

LS: Gray, fine crystalline to dense, foss, blocky (42/60')

LS: Cream, fine crystalline, sl foss, dolo w/poor interfoss por, patchy stain + SH; Red/gray (50)

SH: Black + LS: Cream, fine crystalline, dolo, chalky-gummy (60)

LS: Cream/gray, fine crystalline, foss, chalky, gummy, tr ppt por, vssfo (60/20')

LS: Cream/tan/gray, fine crystalline, chalky, cherty, dolo w/por intercrystalline por, vssfo, odor, It even stain on dry (60 40-60')

SH: Black (68)

LS: Cream/lt gray, fine crystalline, foss, chalky w/chert inclusions, fair ppt por, gsf, odor, med brown stain on dry (68/20') sl dolo, foss, subgran w/por to fair intercrystalline por, sfo, good odor, patchy to full sat on dry + SH; Black (68/40-60')

SH: Black (68/60' flood 3680)

LS: Cream, fine crystalline to dense, foss, chalky (80)

LS: Cream, fine crystalline to dense, foss-granular in part, dolomitic w/fair intercrystalline por, sfo, odor, light to medium brown stain on dry (90)

LS: Lt gray/cream, dense w/trace frac por, sso, odor + LS; Lt gray, fine crystalline, foss, chalky + SH; Black/green (94/20')

LS: Cream/dense, chalky-cherty + SH; Black (94/40') flood black shale (94/60')

LS: White, fine crystalline, sl ool, chalky, cherty + SH; Red/gray (3710)

SH: Red/gray + LS: Cream, fine crystalline, ool (20)

LS: Cream/white, fine crystalline, foss, chalky, cherty, trace fracture por, trace stain (30)

LS: Cream/gray, fine crystalline, foss, cherty + SH; Black(40)

SH: Red/green (50)

LS: Cream/white, fine crystalline, foss, chalky, trace stain (50)

LS: Cream/tan, fine crystalline to dense, foss, w/trace ppt/frac por, patchy stain, vssfo (50/20')

LS: Cream/tan, predominately dense (60)

SH: Gray (70)

LS: Cream, fine crystalline to dense, foss, cherty, dolomitic w/trace ppt por, sso, lt stain (70)

LS: Cream/tan, fine crystalline to dense, sl ool, decrease in stain/sfo (74/20')

LS: Cream/lt gray, dense, w/trace poor vug por, sso, trace stain (73/40"-3780)

SH: Black, carb(80)

LS: Cream/lt gray, fine crystalline to dense, sl foss, cherty, trace poor vug por, sso, patchy medium brown stain on dry (3790)

LS: Cream/tan, fine crystalline to dense, ool, chalky w/trace poor moldic/inter-crystalline por, scattered stain, vssfo (3800)

LS: Cream, fine crystalline, ool, chalky, sl dolo (3800/20')

LS: Tan, fine crystalline, dolo + cherty (00/40')

SH: Black/green (00/40" + SS; Gray, fine to med, subrounded, glauconitic (00/60"

SH; Gray, sandy, pyritic

LS: Cream, fine crystalline, ool, chalky, trace ppt por, trace stain + LS; Gray/dark gray, fine crystalline, fossil-mottled (20)

LS: Cream/tan, fine crystalline, foss/ool-in part, chalky (25/15')

SH: Black (25/15')

SH: Red, silty-sandy +SH; Gray (40)

SH: Maroon/gray, sandy (50)

LS: Cream, fine crystalline to dense, sl dol, chalky (50)

SH: Red/gray, silty (60)

LS: Cream/white, fine crystalline, ool, chalky (60)

LS: Cream/white, fine crystalline, ool, chalky, cherty (orange/white, foss., blocky to ang), fair intercrystalline por, bleeding gas, sfo, odor, amber to med brown stain on dry (70)

LS: Cream, fine crystalline to dense, ool/chaly/cherty + LS; Gray, dense, arg, blocky (74/20')

LS: Lt gray, fine crystalline to dense, sl dolo w/chert inclusion (80)

LS: gray/lt brown, fine crystalline to dense, arg, foss + Chert; Orange/brown/yellow, foss. + SH; Red, silty, sandy + SH; Gray (84/20") +Dolo; Gray, dense (84/40')

Chert, Orange/cream, foss, blocky chert + LS; Cream/white, fine to med crystalline w/por intercrystalline por, lt stain, vssfo (84/60')

LS: Cream/white, fine crystalline to dense, cherty, sl dol, chalky + Green/black, blocky (95/40-60')

LS: Cream/white, fine crystalline to dense, cherty, chert, ool, chalky + Green/black, blocky, brittle, trace SH; Brown, sandy (05/20')

FLOOD SH; Green/black, trace sand, trace Sand; Clear, coarse./Chert; Orange (06/40-60')

LS: Cream/lt gray, fine crystalline to dense, + Chert; White, blocky +SH; Black/red/gray (3918) + tr reworked LS; (pebbly) gray, dense, trace stain + LS; Tan, dense, sandy (18/20')

Chert; White/cream, blocky + SH; gray, sandy + SS; Graym fine grained, silty, glauc (18/40')

LS: Cream/white, fine crystalline to dense, chalky + SH; Red/green/black, abundant Chert; White/yellow/translucent, SS; Amber, finegrained, well-cem (18/60-30')

SH: Black/green/red + Chert; White, yellow, angular + SH, gray, sandy + Sand; Clear, med-cse (38-38/20')

increase SH; Black/green (38/40')

SH: Red, silty + Sand; Clear, coarse, loose + SS; Clear/gray, fg, well-cem, fe stain + Chert; Tan/cream/orange, sharp to blocky (50-60)

LS: White, chalky, cherty, trace stain, trace Dolo; Tan/gray, coarse crystalline w/por intercrystalline por, vssfo (60)

Dolo; Gray, coarse crystalline, sucrosic + Chert; Gray, blocky, ool (first ool chert) (65/40')

Dolo; Cream/gray, med-coarse crystalline, por vug por, vssfo (65/60')

Dolo; Cream, coarse crystalline, suc/Chert; Gray, ool + SH; Black/green/maroon (75/20')

Dolo; Cream/gray, fine to coarse crystalline, su + SH; Green/gray + Chert; Red/white + SH; Gray, hem nodes, SH; Green, sandy (75/40')

Dolo; Cream/tan, fine to coarse crystalline, sl pyritic, chalky + SH; Gray/black (75/60')

Dolo; Lt gray/tan, coarse crystalline, sandy, + Chert; White + Dolo; White, dense, chalky (90)

Dolo; Tan, coarse crystalline, pyrite (4000)

Dolo; Pinky/yellow/gray, coarse crystalline + Chert; White, blocky/translucent-ool + SH; Gray, blocky, hematite nodes (10)

Dolo; Tan/gray, coarse crystalline, ool w/good oomoldic por (barren), ool chert (20)

Dolo; Lt gray, fine crystalline to dense, chalky (25/30')

DST #1
 3485-3600'
 30-60-30-60"
 IF: Weak blow 1 inch
 FF: Weak blow 1 inch
 Recovered:
 560' GIP
 60' Mud w/oi specks in tool
 SIP: 1165-1115#
 FP: 25-35/38-46#
 HP: 1746-1724#
 BHT: 103 F

DST #2
 3597-3642'
 30-60-60-90"
 IF: Weak 1/2 inch blow
 FF: Weak 1/2 inch blow
 Recovered: 80' SSSM
 SIP: 939-895#
 FP: 20-24/24-28#
 HP: 1789-1768#
 BHT: 102 F

DST #3
 3640-3668'
 30-60-60-90"
 Recovered: 10' Mud
 SIP: 801-763#
 FP: 16-18/19-21#
 HP: 1806-1770#
 BHT: 103F

DST #4
 3666-3694'
 30-60-30-60"
 IF: Weak 1/2 inch blow
 FF: Weak 1/2 inch blow
 Recovered: 5' Mud
 SIP: 987-966#
 FP: 16-21/22-26#
 HP: 1830-1798#
 BHT: 103F

DST #5
 3724-3800'
 30-60-30-60"
 IF: 2 inch blow
 FF: 1 1/2 inch blow
 Recovered: 10' Mud
 SIP: 1161-1110#
 FP: 20-30/33-41#
 HP: 1865-1833#
 BHT: 104F

DST #6
 3817-3884'
 30-60-30-60"
 IF: Weak 1 inch
 FF: None
 Recovered: 3' Mud
 SIP: 71-46#
 FP: 21-23/27-46#
 HP: 1926-1895#
 BHT: 105F

DST #7
 3865-3965'
 30-60-30-60"
 IF: 2 inch blow
 FF: 1/2 inch blow
 Recovered: 35' Mud
 SIP: 1192-1183#
 FP: 23-40/42-60#
 HP: 1976-1967#
 BHT: 104F

DST #8
 3917-3984'
 30-60-30-60"
 IF: Weak 1 inch
 FF: None
 Recovered: 3' Mud
 SIP: 71-46#
 FP: 21-23/27-46#
 HP: 1926-1895#
 BHT: 105F

DST #9
 3965-4025'
 30-60-30-60"
 IF: 2 inch blow
 FF: 1/2 inch blow
 Recovered: 35' Mud
 SIP: 1192-1183#
 FP: 23-40/42-60#
 HP: 1976-1967#
 BHT: 104F

DST #10
 4025-4028'
 30-60-30-60"
 IF: 2 inch blow
 FF: 1/2 inch blow
 Recovered: 35' Mud
 SIP: 1192-1183#
 FP: 23-40/42-60#
 HP: 1976-1967#
 BHT: 104F

DST #11
 4025-4028'
 30-60-30-60"
 IF: 2 inch blow
 FF: 1/2 inch blow
 Recovered: 35' Mud
 SIP: 1192-1183#
 FP: 23-40/42-60#
 HP: 1976-1967#
 BHT: 104F

DST #12
 4025-4028'
 30-60-30-60"
 IF: 2 inch blow
 FF: 1/2 inch blow
 Recovered: 35' Mud
 SIP: 1192-1183#
 FP: 23-40/42-60#
 HP: 1976-1967#
 BHT: 104F

DST #13
 4025-4028'
 30-60-30-60"
 IF: 2 inch blow
 FF: 1/2 inch blow
 Recovered: 35' Mud
 SIP: 1192-1183#
 FP: 23-40/42-60#
 HP: 1976-1967#
 BHT: 104F

DST #14
 4025-4028'
 30-60-30-60"
 IF: 2 inch blow
 FF: 1/2 inch blow
 Recovered: 35' Mud
 SIP: 1192-1183#
 FP: 23-40/42-60#
 HP: 1976-1967#
 BHT: 104F

DST #15
 4025-4028'
 30-60-30-60"
 IF: 2 inch blow
 FF: 1/2 inch blow
 Recovered: 35' Mud
 SIP: 1192-1183#
 FP: 23-40/42-60#
 HP: 1976-1967#
 BHT: 104F

DST #16
 4025-4028'
 30-60-30-60"
 IF: 2 inch blow
 FF: 1/2 inch blow
 Recovered: 35' Mud
 SIP: 1192-1183#
 FP: 23-40/42-60#
 HP: 1976-1967#
 BHT: 104F

DST #17
 4025-4028'
 30-60-30-60"
 IF: 2 inch blow
 FF: 1/2 inch blow
 Recovered: 35' Mud
 SIP: 1192-1183#
 FP: 23-40/42-60#
 HP: 1976-1967#
 BHT: 104F

DST #18
 4025-4028'
 30-60-30-60"
 IF: 2 inch blow
 FF: 1/2 inch blow
 Recovered: 35' Mud
 SIP: 1192-1183#
 FP: 23-40/42-60#
 HP: 1976-1967#
 BHT: 104F

DST #19
 4025-4028'
 30-60-30-60"
 IF: 2 inch blow
 FF: 1/2 inch blow
 Recovered: 35' Mud
 SIP: 1192-1183#
 FP: 23-40/42-60#
 HP: 1976-1967#
 BHT: 104F

DST #20
 4025-4028'
 30-60-30-60"
 IF: 2 inch blow
 FF: 1/2 inch blow
 Recovered: 35' Mud
 SIP: 1192-1183#
 FP: 23-40/42-60#
 HP: 1976-1967#
 BHT: 104F

DST #21
 4025-4028'
 30-60-30-60"
 IF: 2 inch blow
 FF: 1/2 inch blow
 Recovered: 35' Mud
 SIP: 1192-1183#
 FP: 23-40/42-60#
 HP: 1976-1967#
 BHT: 104F

DST #22
 4025-4028'
 30-60-30-60"
 IF: 2 inch blow
 FF: 1/2 inch blow
 Recovered: 35' Mud
 SIP: 1192-1183#
 FP: 23-40/42-60#
 HP: 1976-1967#
 BHT: 104F

DST #23
 4025-4028'
 30-60-30-60"
 IF: 2 inch blow
 FF: 1/2 inch blow
 Recovered: 35' Mud
 SIP: 1192-1183#
 FP: 23-40/42-60#
 HP: 1976-1967#
 BHT: 104F

DST #24
 4025-4028'
 30-60-30-60"
 IF: 2 inch blow
 FF: 1/2 inch blow
 Recovered: 35' Mud
 SIP: 1192-1183#
 FP: 23-40/42-60#
 HP: 1976-1967#
 BHT: 104F

DST #25
 4025-4028'
 30-60-30-60"
 IF: 2 inch blow
 FF: 1/2 inch blow
 Recovered: 35' Mud
 SIP: 1192-1183#
 FP: 23-40/42-60#
 HP: 1976-1967#
 BHT: 104F

DST #26
 4025-4028'
 30-60-30-60"
 IF: 2 inch blow
 FF: 1/2 inch blow
 Recovered: 35' Mud
 SIP: 1192-1183#
 FP: 23-40/42-60#
 HP: 1976-1967#
 BHT: 104F

DST #27
 4025-4028'
 30-60-30-60"
 IF: 2 inch blow
 FF: 1/2 inch blow
 Recovered: 35' Mud
 SIP: 1192-1183#
 FP: 23-40/42-60#
 HP: 1976-1967#
 BHT: 104F

DST #28
 4025-4028'
 30-60-30-60"
 IF: 2 inch blow
 FF: 1/2 inch blow
 Recovered: 35' Mud
 SIP: 1192-1183#
 FP: 23-40/42-60#
 HP: 1976-1967#
 BHT: 104F

DST #29
 4025-4028'
 30-60-30-60"
 IF: 2 inch blow
 FF: 1/2 inch blow
 Recovered: 35' Mud
 SIP: 1192-1183#
 FP: 23-40/42-60#
 HP: 1976-1967#
 BHT: 104F

DST #30
 4025-4028'
 30-60-30-60"
 IF: 2 inch blow
 FF: 1/2 inch blow
 Recovered: 35' Mud
 SIP: 1192-1183#
 FP: 23-40/42-60#
 HP: 1976-1967#
 BHT: 104F

DST #31
 4025-4028'
 30-60-30-60"
 IF: 2 inch blow
 FF: 1/2 inch blow
 Recovered: 35' Mud
 SIP: 1192-1183#
 FP: 23-40/42-60#
 HP: 1976-1967#
 BHT: 104F

DST #32
 4025-4028'
 30-60-30-60"
 IF: 2 inch blow
 FF: 1/2 inch blow
 Recovered: 35' Mud
 SIP: 1192-1183#
 FP: 23-40/42-60#
 HP: 1976-1967#
 BHT: 104F

DST #33
 4025-4028'
 30-60-30-60"
 IF: 2 inch blow
 FF: 1/2 inch blow
 Recovered: 35' Mud
 SIP: 1192-1183#
 FP: 23-40/42-60#
 HP: 1976-1967#
 BHT: 104F

DST #34
 4025-4028'
 30-60-30-60"
 IF: 2 inch blow
 FF: 1/2 inch blow
 Recovered: 35' Mud
 SIP: 1192-1183#
 FP: 23-40/42-60#
 HP: 1976-1967#
 BHT: 104F

DST #35
 4025-4028'
 30-60-30-60"
 IF: 2 inch blow
 FF: 1/2 inch blow
 Recovered: 35' Mud
 SIP: 1192-1183#
 FP: 23-40/42-60#
 HP: 1976-1967#
 BHT: 104F

DST #36
 4025-4028'
 30-60-30-60"
 IF: 2 inch blow
 FF: 1/2 inch blow
 Recovered: 35' Mud
 SIP: 1192-1183#
 FP: 23-40/42-60#
 HP: 1976-1967#
 BHT: 104F



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drlg. Co
250 N. Water
STE. 300
Wichita Ks. 67202+1216
ATTN: Robert Peterson

Freida #1-13
13-12s-20w Ellis co.
Job Ticket: 041536 **DST#: 1**
Test Start: 2011.01.24 @ 00:03:00

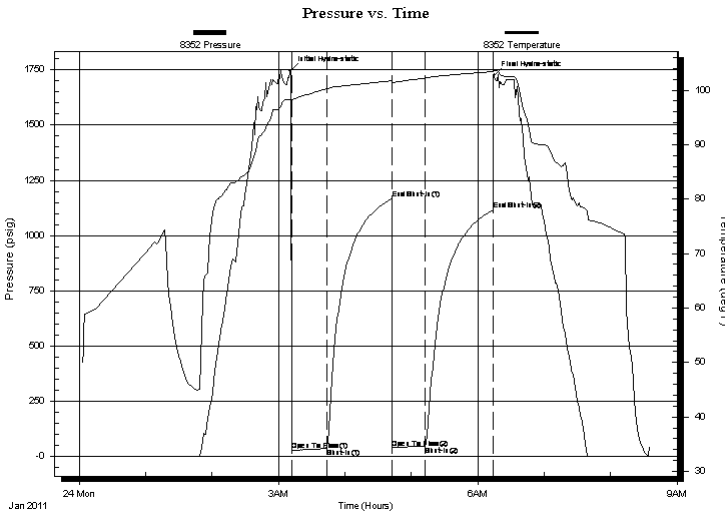
GENERAL INFORMATION:

Formation: **ORead/Tor/LKC"A"**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole
Time Tool Opened: 03:12:00 Tester: Andy Carreira
Time Test Ended: 08:35:19 Unit No: 31
Interval: 3485.00 ft (KB) To 3600.00 ft (KB) (TVD) Reference Elevations: 2265.00 ft (KB)
Total Depth: 3600.00 ft (KB) (TVD) 2260.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8352 Outside
Press @ Run Depth: 46.69 psig @ 3492.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.01.24 End Date: 2011.01.24 Last Calib.: 2011.01.24
Start Time: 00:03:05 End Time: 08:35:20 Time On Btm: 2011.01.24 @ 03:11:00
Time Off Btm: 2011.01.24 @ 06:15:00

TEST COMMENT: IF: Weak blow, 1"
IS: No Return
FF: Weak blow, 1"
FS: No Return

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1746.53 | 98.45 | Initial Hydro-static |
| 1 | 25.68 | 97.72 | Open To Flow (1) |
| 33 | 35.30 | 100.23 | Shut-In(1) |
| 91 | 1165.19 | 101.71 | End Shut-In(1) |
| 92 | 38.49 | 101.15 | Open To Flow (2) |
| 122 | 46.69 | 102.18 | Shut-In(2) |
| 183 | 1115.56 | 103.42 | End Shut-In(2) |
| 184 | 1724.68 | 103.62 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------------------|--------------|
| 60.00 | Mud w / oil specks in tool | 0.30 |
| 0.00 | GIP=560ft | 0.00 |
| | | |
| | | |
| | | |

Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (MMcf/d) |
|----------------|-----------------|-------------------|
| | | |



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg. Co
250 N. Water
STE. 300
Wichita Ks. 67202+1216
ATTN: Robert Peterson

Freida #1-13
13-12s-20w Ellis co.
Job Ticket: 041536 **DST#: 1**
Test Start: 2011.01.24 @ 00:03:00

Mud and Cushion Information

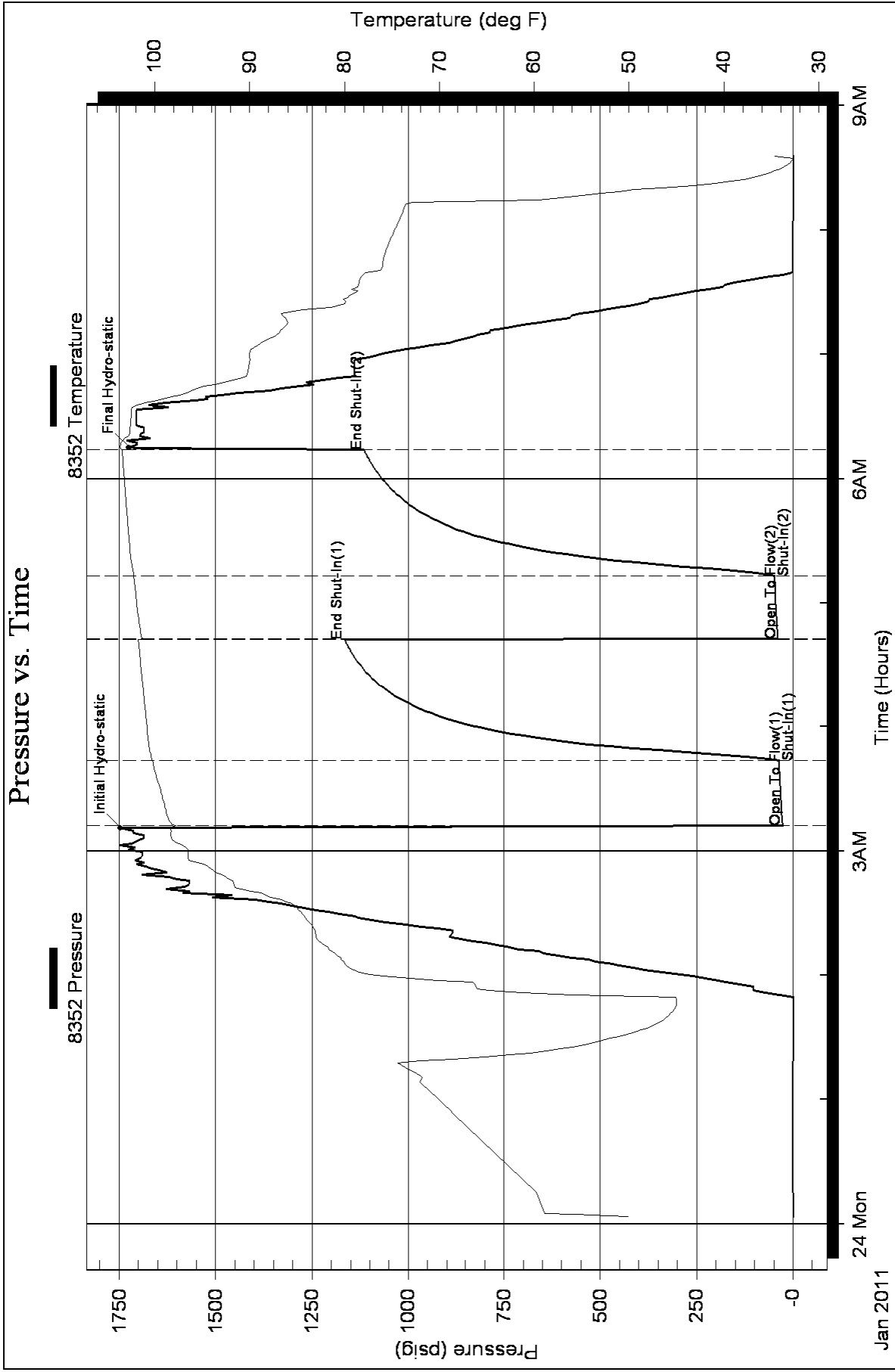
| | | | |
|----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | ppm |
| Viscosity: 56.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 6.80 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 2000.00 ppm | | | |
| Filter Cake: inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|----------------------------|---------------|
| 60.00 | Mud w / oil specks in tool | 0.295 |
| 0.00 | GIP=560ft | 0.000 |

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:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drlg. Co
250 N. Water
STE. 300
Wichita Ks. 67202+1216
ATTN: Robert Peterson

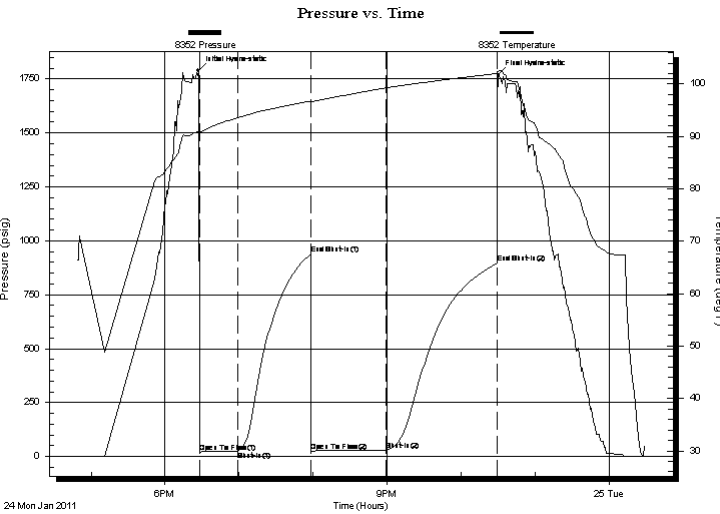
Freida #1-13
13-12s-20w Ellis co.
Job Ticket: 041537 **DST#: 2**
Test Start: 2011.01.24 @ 16:49:05

GENERAL INFORMATION:

Formation: **LKC"B-D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:27:40
Time Test Ended: 00:28:50
Interval: 3597.00 ft (KB) To 3642.00 ft (KB) (TVD)
Total Depth: 3642.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Andy Carreira
Unit No: 31
Reference Elevations: 2265.00 ft (KB)
2260.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8352 Outside
Press @ Run Depth: 28.90 psig @ 3604.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.01.24 End Date: 2011.01.25 Last Calib.: 2011.01.25
Start Time: 16:49:05 End Time: 00:28:50 Time On Btm: 2011.01.24 @ 18:26:50
Time Off Btm: 2011.01.24 @ 22:30:09

TEST COMMENT: IF: Weak, Half inch blow
IS: No Return
FF: Weak, Half inch blow
FS: No Return



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1789.00 | 90.99 | Initial Hydro-static |
| 1 | 20.73 | 90.05 | Open To Flow (1) |
| 32 | 24.85 | 93.58 | Shut-In(1) |
| 92 | 939.51 | 96.77 | End Shut-In(1) |
| 92 | 24.83 | 96.26 | Open To Flow (2) |
| 153 | 28.90 | 99.28 | Shut-In(2) |
| 243 | 895.77 | 102.02 | End Shut-In(2) |
| 244 | 1768.97 | 102.39 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------------|--------------|
| 30.00 | Slightly Oil spotted Mud | 0.15 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (MMcf/d) |
|----------------|-----------------|-------------------|
| | | |



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg. Co
250 N. Water
STE. 300
Wichita Ks. 67202+1216
ATTN: Robert Peterson

Freida #1-13
13-12s-20w Ellis co.
Job Ticket: 041537 **DST#: 2**
Test Start: 2011.01.24 @ 16:49:05

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: bbl | | |
| Water Loss: 6.80 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 2000.00 ppm | | | |
| Filter Cake: inches | | | |

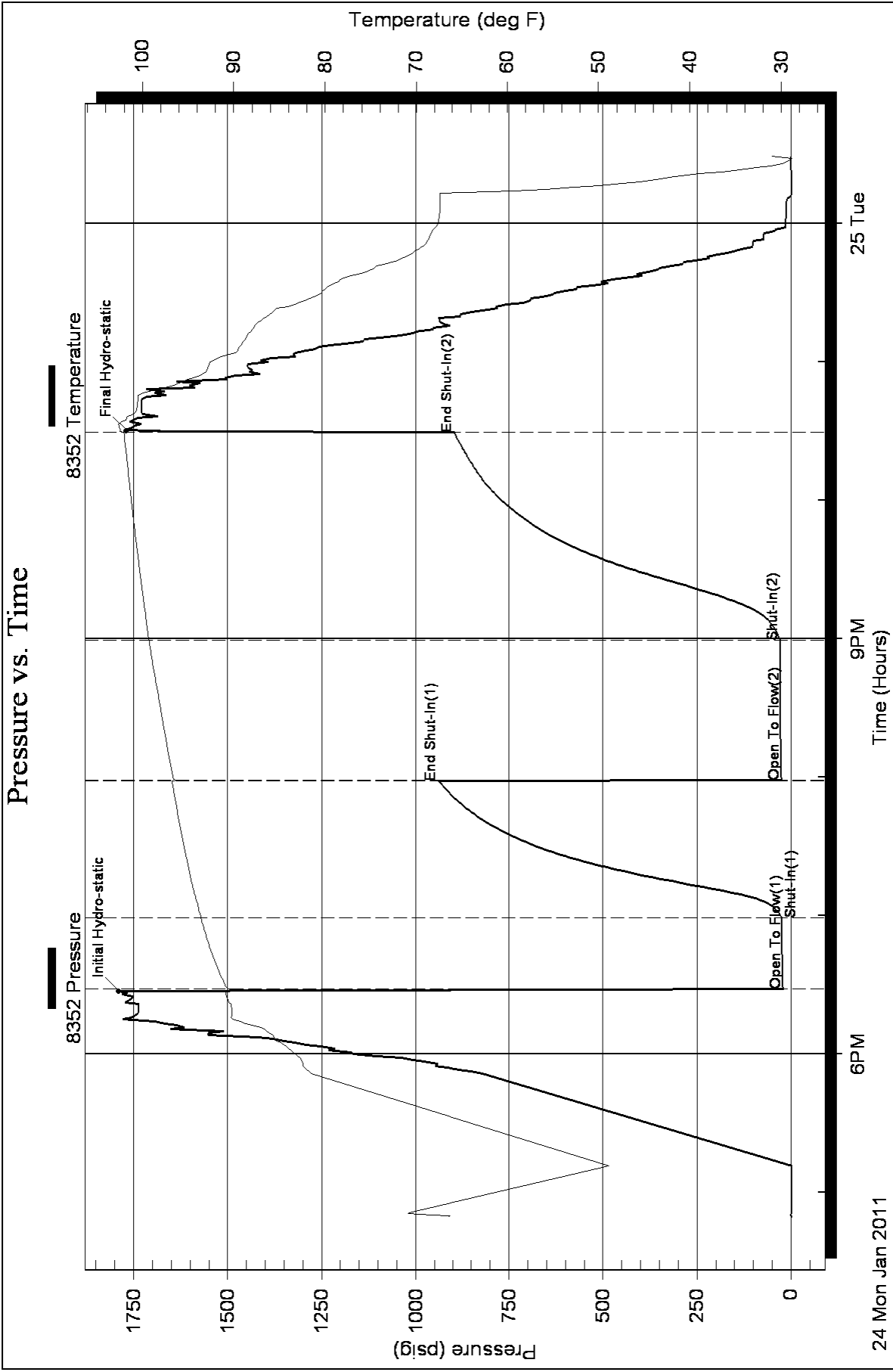
Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------------------|---------------|
| 30.00 | Slightly Oil spotted Mud | 0.148 |

Total Length: 30.00 ft Total Volume: 0.148 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drlg. Co
250 N. Water
STE. 300
Wichita KS 67202+1216
ATTN: Robert Peterson

Freida #1-13
13-12s-20w Ellis KS
Job Ticket: 041538 **DST#: 3**
Test Start: 2011.01.25 @ 07:55:05

GENERAL INFORMATION:

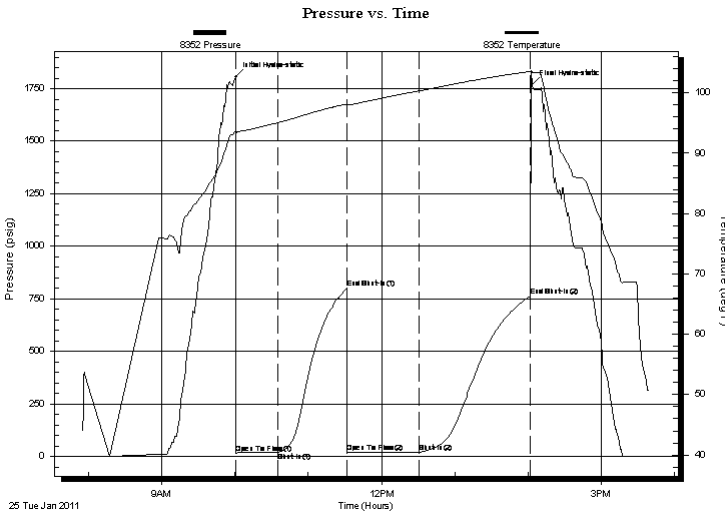
Formation: **LKC "E&F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:00:50
Time Test Ended: 15:40:20
Interval: **3640.00 ft (KB) To 3668.00 ft (KB) (TVD)**
Total Depth: 3668.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Andy Carreira
Unit No: 31
Reference Elevations: 2265.00 ft (KB)
2260.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8352 Outside

Press @ Run Depth: 21.80 psig @ 3665.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.01.25 End Date: 2011.01.25 Last Calib.: 2011.01.25
Start Time: 07:55:05 End Time: 15:40:20 Time On Btm: 2011.01.25 @ 10:00:40
Time Off Btm: 2011.01.25 @ 14:03:09

TEST COMMENT: IF: Weak, One & one half inch blow .
IS: No Return
FF: Weak, One inch blow .
FS: No Return

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1806.87 | 93.71 | Initial Hydro-static |
| 1 | 16.61 | 93.01 | Open To Flow (1) |
| 35 | 18.40 | 95.07 | Shut-In(1) |
| 91 | 801.56 | 98.17 | End Shut-In(1) |
| 92 | 19.55 | 97.78 | Open To Flow (2) |
| 150 | 21.80 | 100.33 | Shut-In(2) |
| 242 | 763.36 | 103.57 | End Shut-In(2) |
| 243 | 1770.41 | 103.53 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 10.00 | Mud | 0.05 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (MMcf/d) |
|----------------|-----------------|-------------------|
| | | |



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg. Co
250 N. Water
STE. 300
Wichita KS 67202+1216
ATTN: Robert Peterson

Freida #1-13
13-12s-20w Ellis KS
Job Ticket: 041538 **DST#: 3**
Test Start: 2011.01.25 @ 07:55:05

Mud and Cushion Information

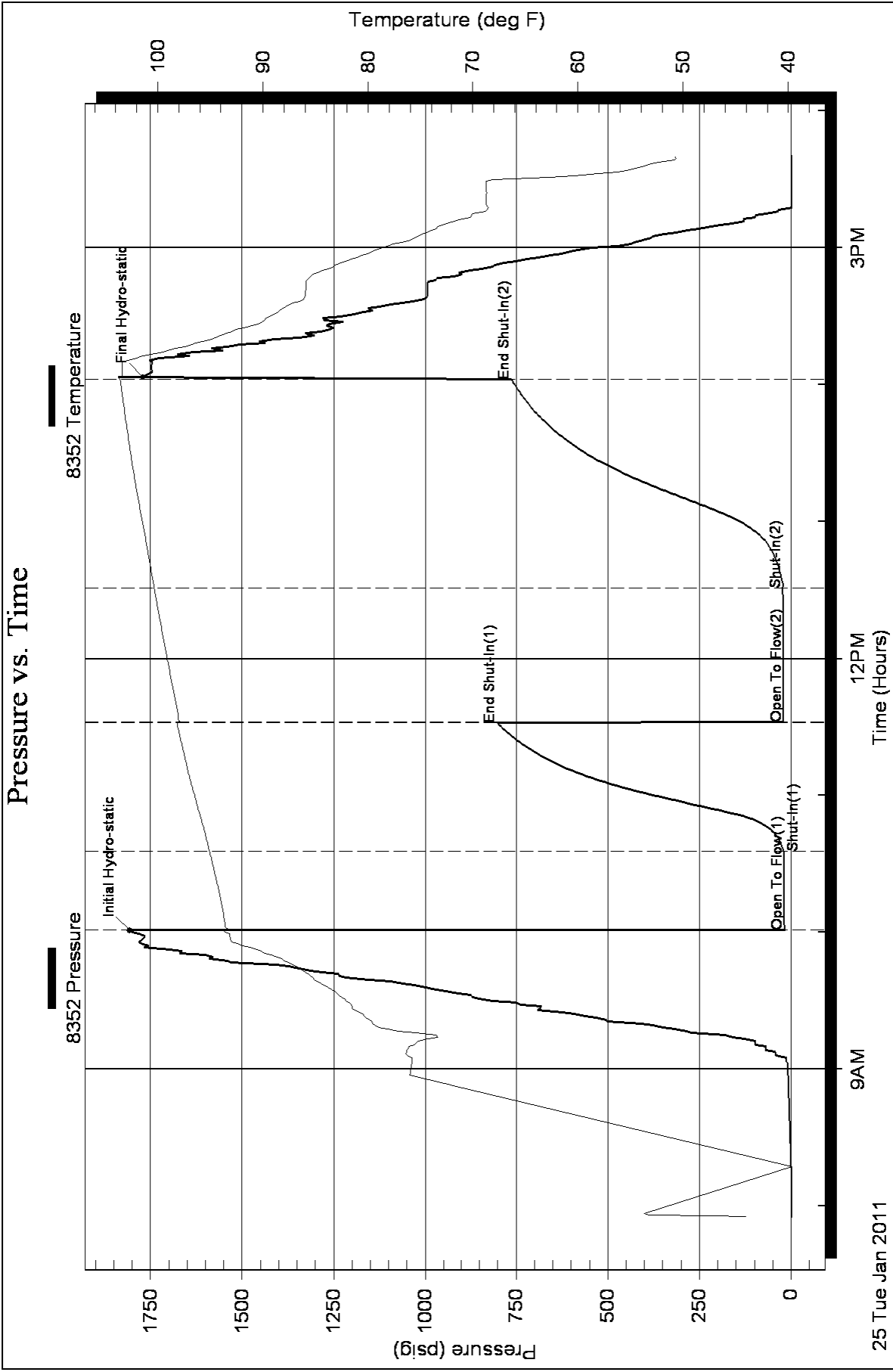
| | | | |
|----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | ppm |
| Viscosity: 56.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 7.20 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 2400.00 ppm | | | |
| Filter Cake: inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 10.00 | Mud | 0.049 |

Total Length: 10.00 ft Total Volume: 0.049 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drlg. Co
250 N. Water
STE. 300
Wichita Ks. 67202+1216
ATTN: Robert Petersen

Freida #1-13
13-12s-20w Ellis KS
Job Ticket: 041539 **DST#: 4**
Test Start: 2011.01.25 @ 23:00:05

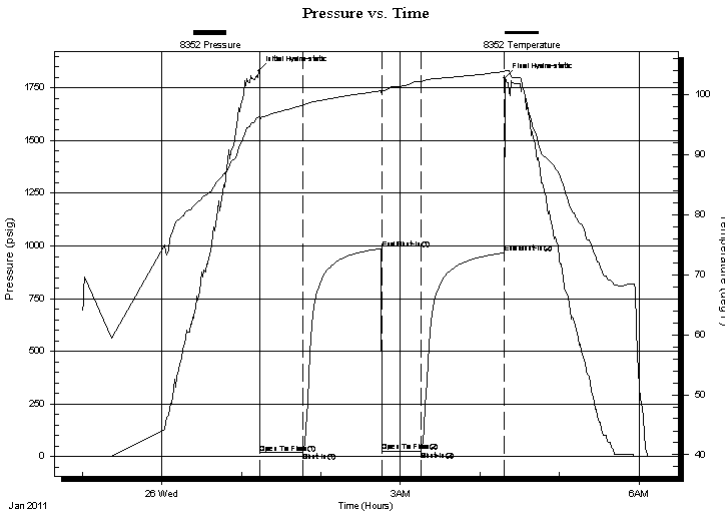
GENERAL INFORMATION:

Formation: **LKC"G"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:14:00
Time Test Ended: 06:08:29
Interval: **3666.00 ft (KB) To 3694.00 ft (KB) (TVD)**
Total Depth: 3694.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Andy Carreira
Unit No: 31
Reference Elevations: 2265.00 ft (KB)
2260.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8352 Outside
Press @ Run Depth: 26.34 psig @ 3667.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.01.25 End Date: 2011.01.26 Last Calib.: 2011.01.26
Start Time: 23:00:05 End Time: 06:08:29 Time On Btm: 2011.01.26 @ 01:13:20
Time Off Btm: 2011.01.26 @ 04:18:39

TEST COMMENT: IF: Weak, half inch.
IS: No Return
FF: Weak, half inch
FS: No Return

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1830.70 | 96.26 | Initial Hydro-static |
| 1 | 16.62 | 95.64 | Open To Flow (1) |
| 33 | 21.26 | 98.23 | Shut-In(1) |
| 93 | 987.08 | 100.62 | End Shut-In(1) |
| 93 | 22.39 | 100.02 | Open To Flow (2) |
| 122 | 26.34 | 102.15 | Shut-In(2) |
| 185 | 966.67 | 103.79 | End Shut-In(2) |
| 186 | 1798.75 | 103.99 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 5.00 | Mud | 0.02 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (MMcf/d) |
|----------------|-----------------|-------------------|
| | | |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg. Co
250 N. Water
STE. 300
Wichita Ks. 67202+1216
ATTN: Robert Petersen

Freida #1-13
13-12s-20w Ellis KS
Job Ticket: 041539 **DST#: 4**
Test Start: 2011.01.25 @ 23:00:05

Mud and Cushion Information

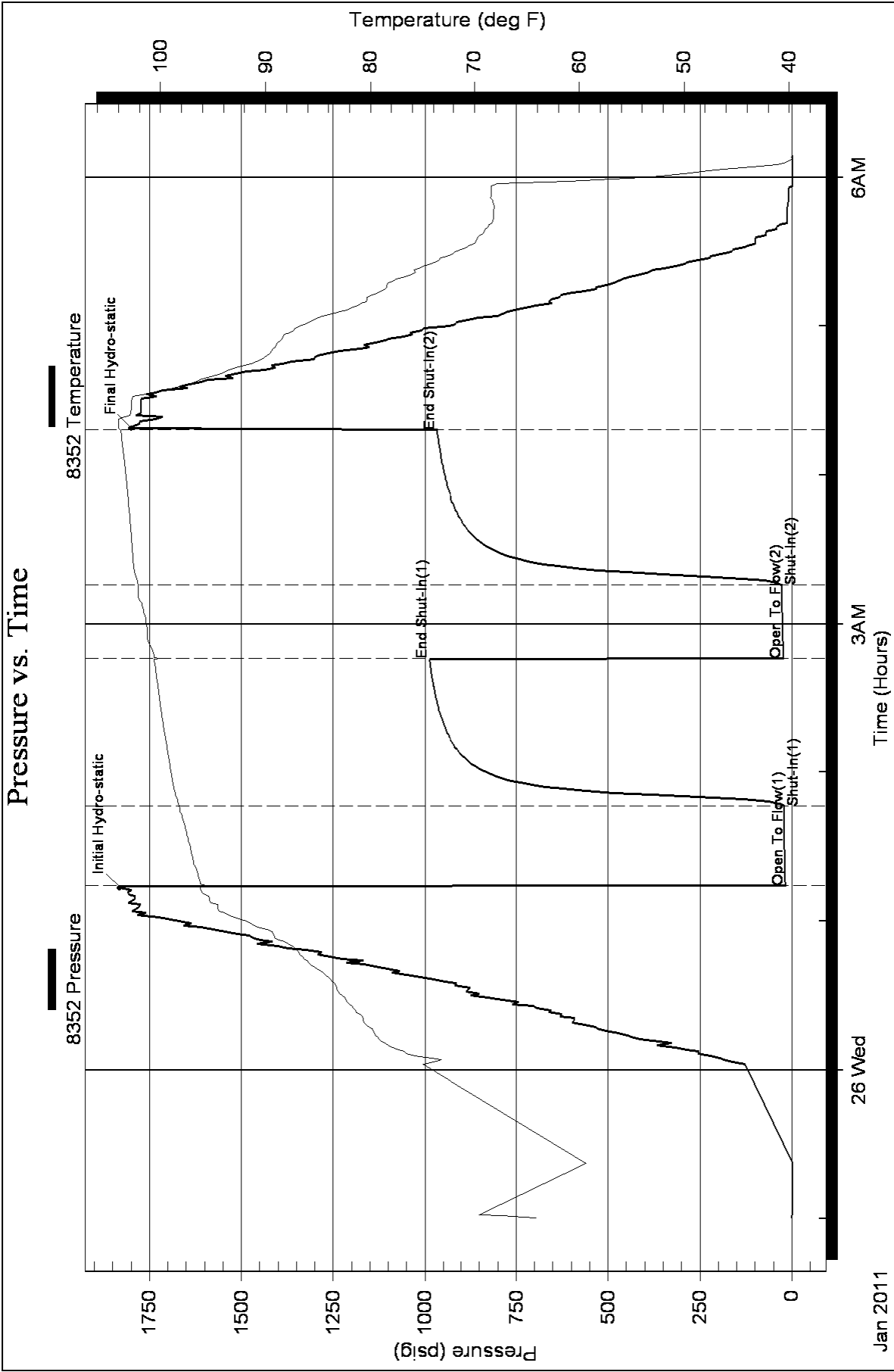
| | | | |
|----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | ppm |
| Viscosity: 56.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 7.20 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 2400.00 ppm | | | |
| Filter Cake: inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 5.00 | 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:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drlg. Co
250 N. Water
STE. 300
Wichita Ks. 67202+1216
ATTN: Robert Petersen

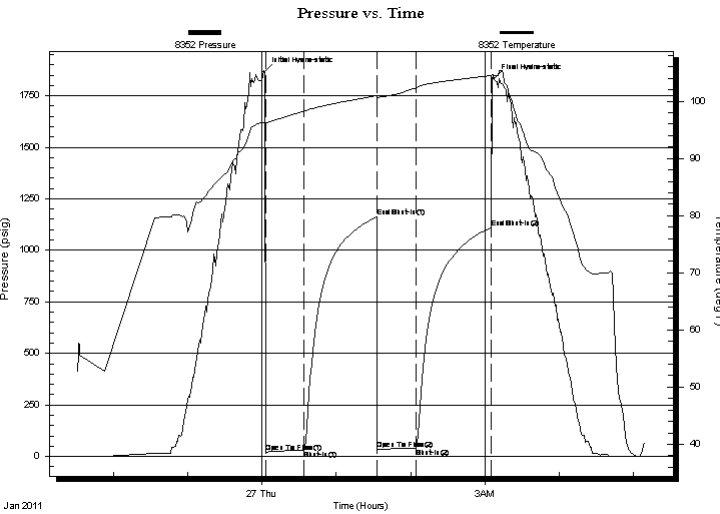
Freida #1-13
13-12s-20w Ellis KS
Job Ticket: 041540 **DST#: 5**
Test Start: 2011.01.26 @ 21:31:05

GENERAL INFORMATION:

Formation: **LKC "I,J,K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:02:40
Time Test Ended: 05:09:20
Test Type: Conventional Bottom Hole
Tester: Andy Carreira
Unit No: 31
Interval: **3724.00 ft (KB) To 3800.00 ft (KB) (TVD)**
Reference Elevations: 2265.00 ft (KB)
Total Depth: 3800.00 ft (KB) (TVD) 2260.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8352 Outside
Press @ Run Depth: 41.19 psig @ 3729.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.01.26 End Date: 2011.01.27 Last Calib.: 2011.01.27
Start Time: 21:31:05 End Time: 05:09:20 Time On Btm: 2011.01.27 @ 00:02:00
Time Off Btm: 2011.01.27 @ 03:07:20

TEST COMMENT: IF: 2 inch blow
IS: No Return
FF: 1&1/2 inch blow
FS: No Return



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1865.38 | 96.49 | Initial Hydro-static |
| 1 | 20.78 | 95.96 | Open To Flow (1) |
| 33 | 30.94 | 98.24 | Shut-In(1) |
| 91 | 1161.31 | 100.98 | End Shut-In(1) |
| 92 | 33.14 | 100.31 | Open To Flow (2) |
| 122 | 41.19 | 102.36 | Shut-In(2) |
| 184 | 1110.31 | 104.51 | End Shut-In(2) |
| 186 | 1833.89 | 104.55 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 10.00 | Mud | 0.05 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (MMcf/d) |
|----------------|-----------------|-------------------|
| | | |



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg. Co
250 N. Water
STE. 300
Wichita Ks. 67202+1216
ATTN: Robert Petersen

Freida #1-13
13-12s-20w Ellis KS
Job Ticket: 041540 **DST#: 5**
Test Start: 2011.01.26 @ 21:31:05

Mud and Cushion Information

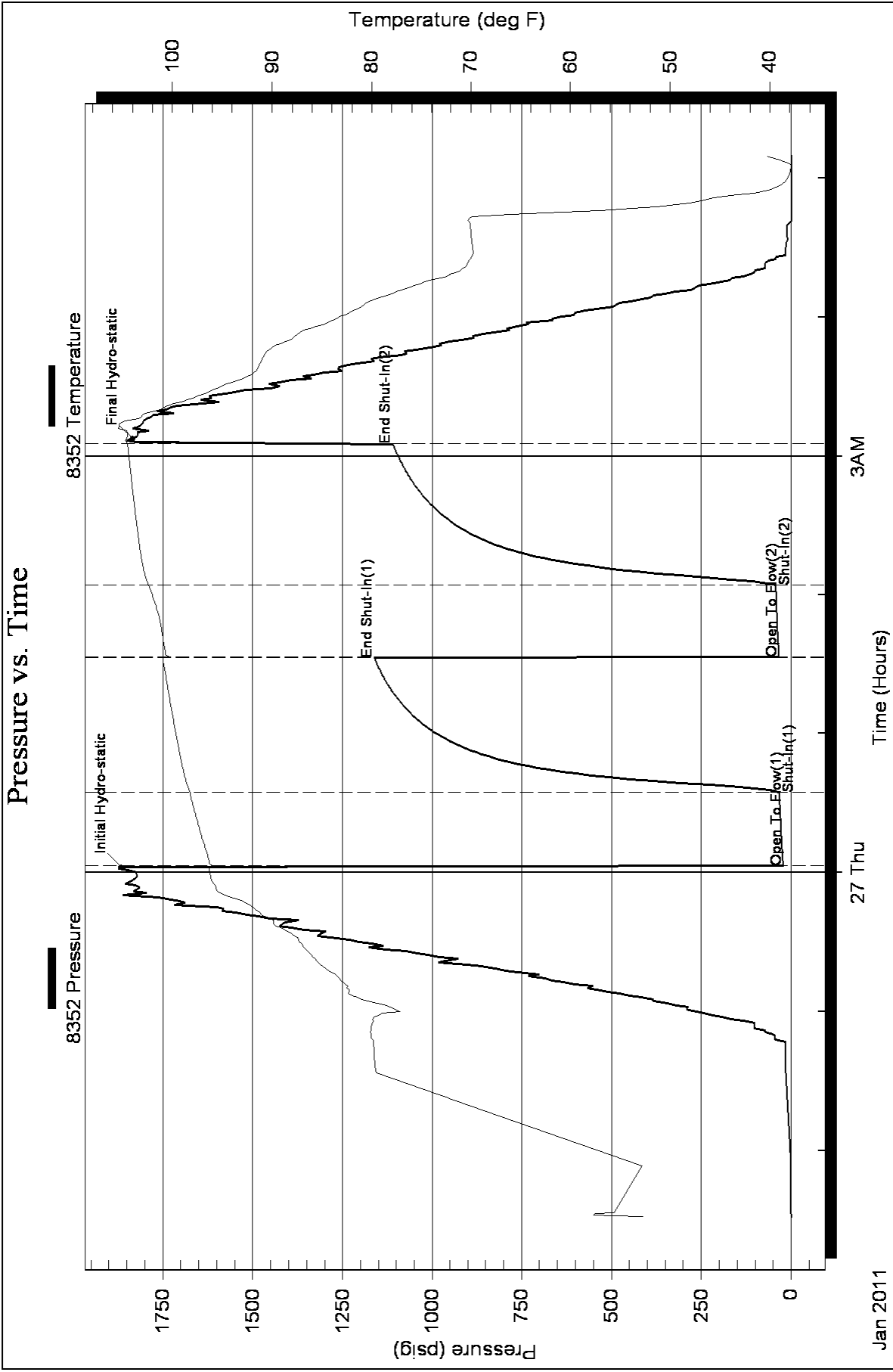
| | | | |
|----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | ppm |
| Viscosity: 59.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 7.20 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 2600.00 ppm | | | |
| Filter Cake: inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 10.00 | Mud | 0.049 |

Total Length: 10.00 ft Total Volume: 0.049 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drlg. Co
250 N. Water
STE. 300
Wichita Ks. 67202+1216
ATTN: Robert Petersen

Freida #1-13
13-12s-20w Ellis co.
Job Ticket: 041541 **DST#: 6**
Test Start: 2011.01.27 @ 16:50:05

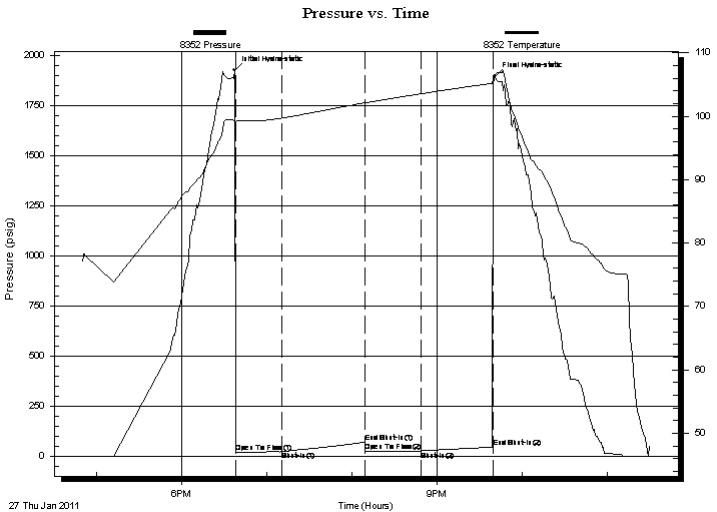
GENERAL INFORMATION:

Formation: **Lower Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:37:50
Time Test Ended: 23:29:59
Test Type: Conventional Bottom Hole
Tester: Andy Carreira
Unit No: 31
Interval: **3817.00 ft (KB) To 3884.00 ft (KB) (TVD)**
Reference Elevations: 2265.00 ft (KB)
Total Depth: 3884.00 ft (KB) (TVD) 2260.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8352 Outside
Press @ RunDepth: 27.92 psig @ 3823.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.01.27 End Date: 2011.01.27 Last Calib.: 2011.01.27
Start Time: 16:50:05 End Time: 23:29:59 Time On Btm: 2011.01.27 @ 18:37:00
Time Off Btm: 2011.01.27 @ 21:40:29

TEST COMMENT: IF: Weak, 1 inch
IS: No Return
FF: No Blow
FS: No Return

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1926.16 | 99.47 | Initial Hydro-static |
| 1 | 21.01 | 98.95 | Open To Flow (1) |
| 34 | 23.83 | 99.73 | Shut-In(1) |
| 92 | 71.00 | 102.14 | End Shut-In(1) |
| 93 | 23.65 | 102.12 | Open To Flow (2) |
| 132 | 27.92 | 103.56 | Shut-In(2) |
| 183 | 46.58 | 105.22 | End Shut-In(2) |
| 184 | 1895.69 | 106.66 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 3.00 | Mud | 0.01 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (MMcf/d) |
|----------------|-----------------|-------------------|
| | | |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg. Co
250 N. Water
STE. 300
Wichita Ks. 67202+1216
ATTN: Robert Petersen

Freida #1-13
13-12s-20w Ellis co.
Job Ticket: 041541 **DST#: 6**
Test Start: 2011.01.27 @ 16:50:05

Mud and Cushion Information

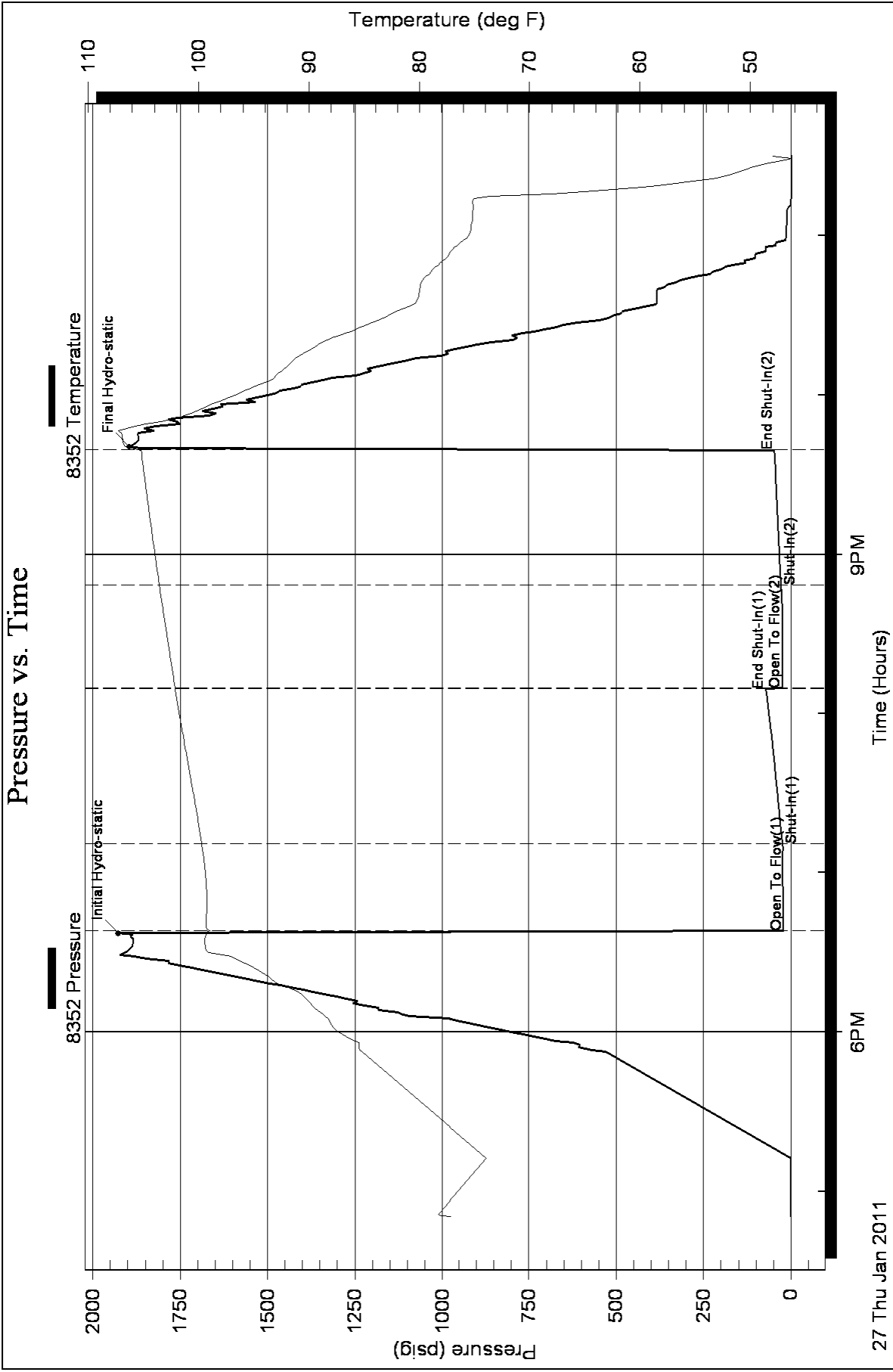
| | | | |
|----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | ppm |
| Viscosity: 53.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 6.40 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 2400.00 ppm | | | |
| Filter Cake: inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 3.00 | Mud | 0.015 |

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:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drlg. Co
250 N. Water
STE. 300
Wichita Ks. 67202+1216
ATTN: Robert Petersen

Freida #1-13
13-12s-20w Ellis co.
Job Ticket: 041542 **DST#: 7**
Test Start: 2011.01.28 @ 12:22:05

GENERAL INFORMATION:

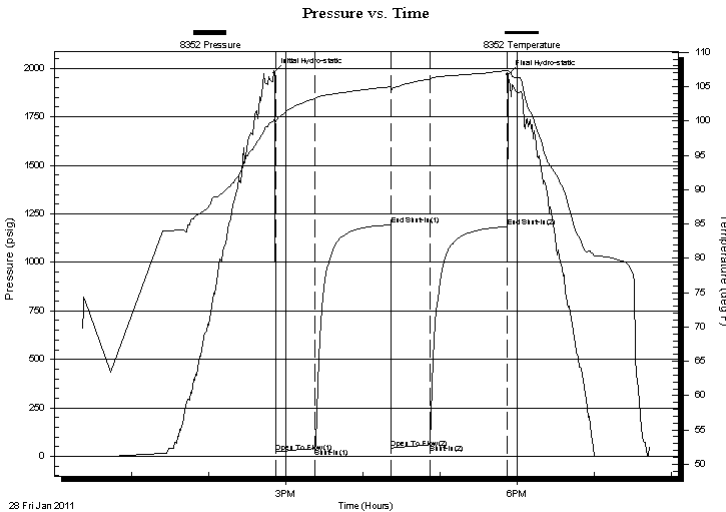
Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:52:30
Time Test Ended: 19:43:20
Interval: **3865.00 ft (KB) To 3965.00 ft (KB) (TVD)**
Total Depth: 3965.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2265.00 ft (KB)
2260.00 ft (CF)
KB to GR/CF: 5.00 ft
Test Type: Conventional Bottom Hole
Tester: Andy Carreira
Unit No: 31

Serial #: 8352 Outside

Press @ Run Depth: 60.88 psig @ 3871.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.01.28 End Date: 2011.01.28 Last Calib.: 2011.01.28
Start Time: 12:22:05 End Time: 19:43:20 Time On Btm: 2011.01.28 @ 14:51:10
Time Off Btm: 2011.01.28 @ 17:53:09

TEST COMMENT: IF: 2 inch blow
IS: No Return
FF: Half inch blow
FS: No Return

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1976.76 | 100.18 | Initial Hydro-static |
| 2 | 23.10 | 99.85 | Open To Flow (1) |
| 32 | 40.40 | 103.27 | Shut-In(1) |
| 91 | 1192.35 | 104.98 | End Shut-In(1) |
| 92 | 42.49 | 104.26 | Open To Flow (2) |
| 122 | 60.88 | 106.12 | Shut-In(2) |
| 182 | 1183.58 | 107.35 | End Shut-In(2) |
| 182 | 1967.43 | 107.37 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 65.00 | Mud | 0.32 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (MMcf/d) |
|----------------|-----------------|-------------------|
| | | |



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg. Co
250 N. Water
STE. 300
Wichita Ks. 67202+1216
ATTN: Robert Petersen

Freida #1-13
13-12s-20w Ellis co.
Job Ticket: 041542 **DST#: 7**
Test Start: 2011.01.28 @ 12:22:05

Mud and Cushion Information

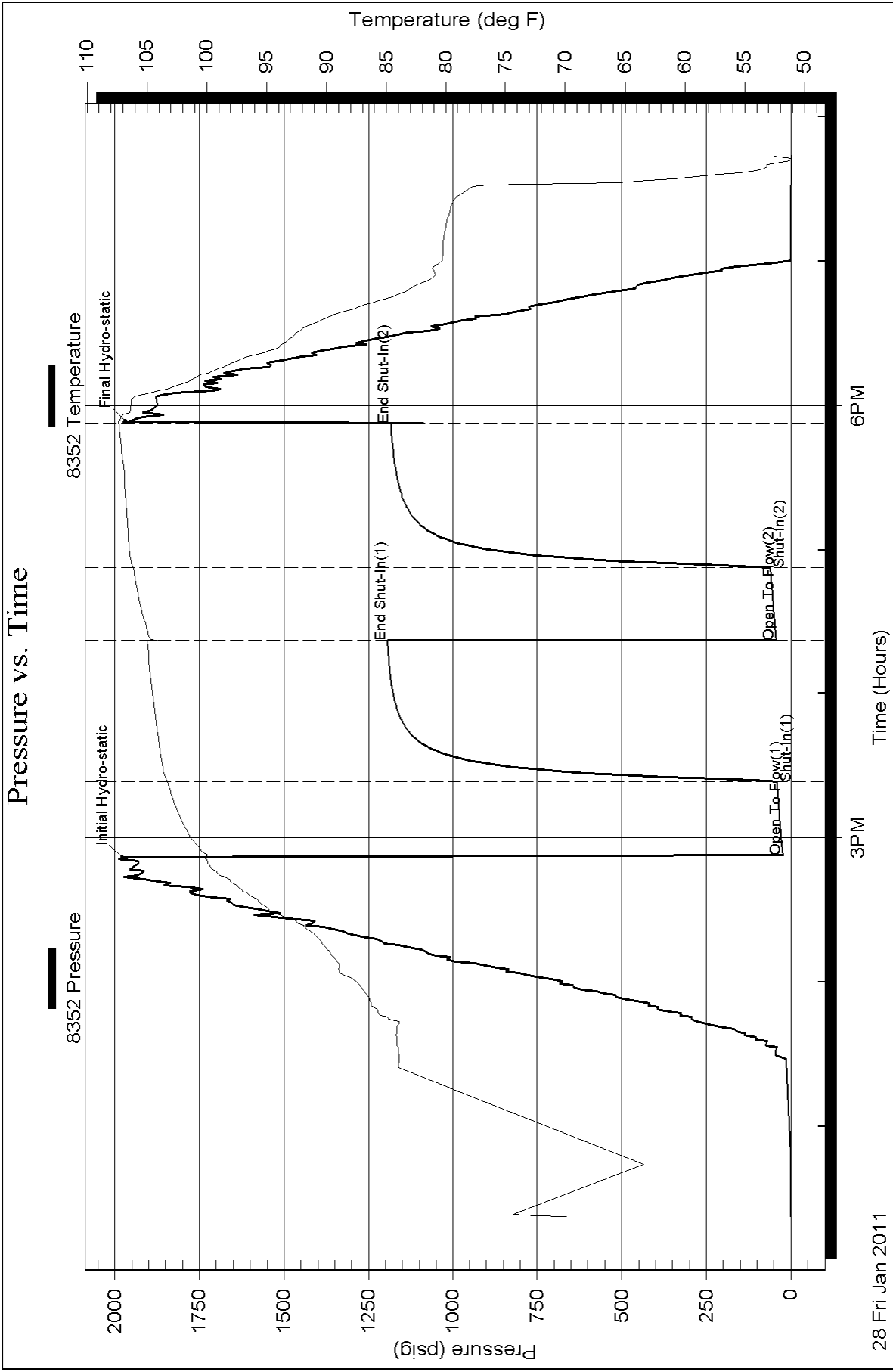
| | | | |
|----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | ppm |
| Viscosity: 54.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 6.80 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 2400.00 ppm | | | |
| Filter Cake: inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 65.00 | Mud | 0.320 |

Total Length: 65.00 ft Total Volume: 0.320 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:



ALLIED CEMENTING CO., LLC. 040979

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Oakley

| | | | | | | | |
|---------------------------|--------------------|-------------------------------------|------------------|------------|---------------------|--------------------------|-----------------------------|
| DATE <u>1-18-11</u> | SEC <u>13</u> | TWP <u>12S</u> | RANGE <u>20W</u> | CALLED OUT | ON LOCATION | JOB START <u>6:00 PM</u> | JOB FINISH <u>6:30 P.M.</u> |
| LEASE <u>Freida</u> | WELL # <u>1-13</u> | LOCATION <u>ELLIS JN K&E 1N</u> | | | COUNTY <u>ELLIS</u> | STATE <u>KS</u> | |
| OLD OR (NEW) (Circle one) | | <u>2 1/2 @ NINTO</u> | | | | | |

CONTRACTOR Murfin Drilling Rg 8 OWNER same

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 214' CEMENT AMOUNT ORDERED 190 sks com

CASING SIZE 8 5/8 DEPTH 214' 390 cc

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM COMMON 190 sks @ 19.50 2565.00

MEAS. LINE SHOE JOINT POZMIX @

CEMENT LEFT IN CSG. 15' GEL @

PERFS. CHLORIDE 7 sks @ 51.50 360.50

DISPLACEMENT 12.67 BBL ASC @

EQUIPMENT

PUMP TRUCK CEMENTER Andrew

423-281 HELPER Larene

BULK TRUCK

396 DRIVER Jerry

BULK TRUCK

DRIVER

HANDLING 197 sks @ 2.25 443.25

MILEAGE 108 sk/mile 394.00

TOTAL 3762.25

REMARKS:

circ 12 bbls

Cement did circulate

Thank you

CHARGE TO: Murfin

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB 214'

PUMP TRUCK CHARGE 991.00

EXTRA FOOTAGE @

MILEAGE 20 miles @ 7.00 140.00

MANIFOLD @

TOTAL 1131.00

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

PRINTED NAME

SIGNATURE

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.



PO BOX 31 Russell, KS 67665

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

INVOICE

Invoice Number: 126058

Invoice Date: Jan 29, 2011

Page: 1

PROD COPY

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

Federal Tax I.D.#: 20-5975804

*operator pay
m.o.c.
/ Bm*

| Customer ID | Well Name# or Customer P.O. | Payment Terms | |
|--------------|-----------------------------|---------------|----------|
| Murfin | Frieda #1-13 | Net 30 Days | |
| Job Location | Camp Location | Service Date | Due Date |
| KS2-03 | Oakley | Jan 29, 2011 | 2/28/11 |

| Quantity | Item | Description | Unit Price | Amount |
|----------|------|------------------------------------|------------|----------|
| 147.00 | MAT | Class A Common | 13.50 | 1,984.50 |
| 98.00 | MAT | Pozmix | 7.55 | 739.90 |
| 8.00 | MAT | Gel | 20.25 | 162.00 |
| 61.00 | MAT | Flo Seal | 2.45 | 149.45 |
| 255.00 | SER | Handling | 2.25 | 573.75 |
| 20.00 | SER | Mileage 255 sx @ .10 per sk per mi | 25.50 | 510.00 |
| 1.00 | SER | Plug to Abandon | 1,159.00 | 1,159.00 |
| 20.00 | SER | Pump Truck Mileage | 7.00 | 140.00 |
| 1.00 | EQP | Dry Hole Plug | 39.00 | 39.00 |

| Account | Amount | Description |
|-------------------|-----------|-------------|
| 03000 008 40 3842 | 5801.43 | PTA |
| | (1910.16) | |

| | |
|------------------------|-----------------|
| Subtotal | 5,457.60 |
| Sales Tax | 343.83 |
| Total Invoice Amount | 5,801.43 |
| Payment/Credit Applied | |
| TOTAL | 5,801.43 |

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

\$ 1910.16

ONLY IF PAID ON OR BEFORE
Feb 23, 2011

-1910.16
3891.27

ALLIED CEMENTING CO., LLC. 040824

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Oakley #5

| | | | | | | | |
|------------------------|----------------|----------------------------------|--------------|-----------------|-------------------------|----------------------|-----------------------|
| DATE 1-29-11 | SEC. 13 | TWP. 12s | RANGE 20w | CALLED OUT | ON LOCATION 10:30 AM | JOB START 8:00 AM | JOB FINISH 8:30 AM |
| LEASE <u>Frieda</u> | WELL # 1-13 | LOCATION Ellis 4W-2 1/2 E N 9 | | COUNTY Ellis | STATE KS | | |

OLD OR NEW (Circle one)

CONTRACTOR Murphy #8 OWNER _____

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D. 4025'

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH 3870'

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

CEMENT

AMOUNT ORDERED 245 60140 4905 ll
114 # Roscal

| | | | |
|---------------|----------------------|----------------|----------------|
| COMMON | <u>147</u> | @ <u>13 50</u> | <u>1984 50</u> |
| POZMIX | <u>98</u> | @ <u>7 55</u> | <u>739 90</u> |
| GEL | <u>8</u> | @ <u>20 25</u> | <u>162 00</u> |
| CHLORIDE | | @ | |
| ASC | | @ | |
| <u>Roscal</u> | <u>61 #</u> | @ <u>2 45</u> | <u>149 45</u> |
| | | @ | |
| | | @ | |
| | | @ | |
| | | @ | |
| | | @ | |
| HANDLING | <u>255</u> | @ <u>2 25</u> | <u>573 75</u> |
| MILEAGE | <u>1045 1/2 mile</u> | | <u>510 00</u> |
| TOTAL | | | <u>4119 60</u> |

EQUIPMENT

PUMP TRUCK CEMENTER Fuzz

431 HELPER Darren

BULK TRUCK

481 DRIVER Mark (R)

BULK TRUCK

_____ DRIVER _____

REMARKS:

25 sks @ 3850', 20' above Ar buckle

25 sks @ 1650'

100 sks @ 915'

40 sks @ 265'

10 sks @ 40'

15 mtl

30 RH

Job complete @ 5:00 PM

Thanks Fuzz & crew

SERVICE

DEPTH OF JOB 3870'

PUMP TRUCK CHARGE 1159 00

EXTRA FOOTAGE @ _____

MILEAGE 20 @ 7 00 140 00

MANIFOLD @ _____

@ _____

@ _____

TOTAL 1299 00

CHARGE TO: Murphy Delg

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

1-Dry hole plug @ 39 00

@ _____

@ _____

@ _____

@ _____

TOTAL 39 00

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 _____

SIGNATURE _____

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

| MDCI Freida #1-13 2050' FSL 2310' FWL Sec. 13-T12S-R20W 2265' KB | | | | | | | MDCI Homburg #1-18 1150' FSL 700' FWL Sec. 18-T12S-R19W 2231' KB | |
|--|------------|-------|-----|----------|-------|------|--|-------|
| Formation | Sample top | Datum | Ref | Log tops | Datum | Ref | Log tops | Datum |
| Anhydrite | 1636 | +629 | -4 | 1635 | +630 | -3 | 1598 | +633 |
| B/Anhydrite | 1679 | +586 | -3 | 1684 | +581 | -8 | 1642 | +589 |
| Topeka | 3304 | -1039 | +5 | 3308 | -1042 | +2 | 3275 | -1044 |
| Deer Creek | 3357 | -1092 | +6 | 3361 | -1096 | +2 | 3329 | -1098 |
| Lecompton | 3421 | -1156 | +5 | 3425 | -1160 | +1 | 3392 | -1161 |
| Heebner | 3533 | -1268 | +5 | 3536 | -1271 | +2 | 3504 | -1273 |
| Lansing | 3577 | -1312 | +3 | 3580 | -1315 | Flat | 3546 | -1315 |
| BKC | 3819 | -1554 | +9 | 3818 | -1553 | +10 | 3794 | -1563 |
| Marmaton | 3837 | -1572 | +6 | 3832 | -1567 | +11 | 3809 | -1578 |
| Pawnee | 3853 | -1588 | +9 | 3854 | -1589 | +8 | 3828 | -1597 |
| Arbuckle | 3950 | -1685 | -48 | 3956 | -1691 | -56 | 3868 | -1637 |
| RTD | 4025 | -1760 | | | | | 3975 | -1744 |
| LTD | | | | 4028 | -1763 | | 3988 | -1757 |