



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1153347
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 |
|-----------------------------------|-----------------|---|

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: _____



1153347

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 |
|--|---|

| CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used | | | | | | | |
|---|-------------------|---------------------------|-------------------|---------------|----------------|--------------|----------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc. | | | | | | | |
| Purpose of String | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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

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

| | |
|-----------|------------------------|
| Form | ACO1 - Well Completion |
| Operator | Farmer, John O., Inc. |
| Well Name | McNinch Unit 1 |
| Doc ID | 1153347 |

Tops

| Name | Top | Datum |
|----------------|-------|---------|
| Heebner | 3798' | (-1333) |
| Lansing | 3838' | (-1373) |
| Base/KC | 4129' | (-1664) |
| Pawnee | 4260' | (-1795) |
| Fort Scott | 4337' | (-1872) |
| Cherokee Shale | 4362' | (-1897) |
| Mississippi | 4434' | (-1969) |
| L.T.D. | 4501' | (-2036) |

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

July 29, 2013

Marge Schulte
Farmer, John O., Inc.
370 W WICHITA AVE
PO BOX 352
RUSSELL, KS 67665-2635

Re: ACO1
API 15-135-25610-00-00
McNinch Unit 1
SW/4 Sec.02-17S-25W
Ness 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,
Marge Schulte



Discovery Drilling

P.O. Box 763 • Hays, KS 67601 • OFFICE (785) 623-2920 • CELLULAR (785) 635-1511

DRILLER'S LOG

Operator: John O. Farmer, Inc. Lic# 5135 Contractor: Discovery Drilling Co., Inc. LIC#31548
370 West Wichita Avenue - P.O. Box 352 PO Box 763
Russell, KS 67601 Hays, KS 67601

Lease: McNinch Unit # 1 Location: 1130 FSL / 2580 FWL
NE/NE/SE/SW
Section 2/ 17S/ 25W
Ness County, KS

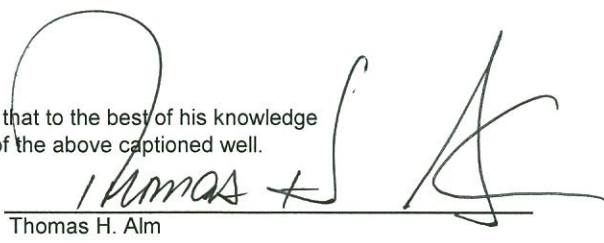
Loggers Total Depth: 4501' API#15- 135-25,619-00-00
Rotary Total Depth: 4500' Elevation: 2457 GL / 2465 KB
Commenced: 6/6/2013 Completed: 6/13/2013
Casing: 8 5/8" @ 220.60'W/150sks Status: D & A

DEPTHS & FORMATIONS (All from KB)

| | | | |
|-----------------------|--------------|--------------|--------------|
| Surface, Sand & Shale | <u>0'</u> | Shale | <u>1845'</u> |
| Dakota Sand | <u>1144'</u> | Shale & Lime | <u>2362'</u> |
| Shale | <u>1200'</u> | Shale | <u>2653'</u> |
| Cedar Hill Sand | <u>1325'</u> | Shale & Lime | <u>2997'</u> |
| Red Bed Shale | <u>1540'</u> | Lime & Shale | <u>3822'</u> |
| Anhydrite | <u>1814'</u> | RTD | <u>4500'</u> |
| Base Anhydrite | <u>1845'</u> | | |

STATE OF KANSAS)
) ss
COUNTY OF ELLIS)

Thomas H. Alm of Discovery Drilling states that to the best of his knowledge the above and foregoing is a true and correct log of the above captioned well.

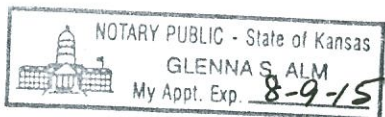

Thomas H. Alm

Subscribed and sworn to before me on 6-25-13

My Commission expires: 8-9-15

(Place stamp or seal below)


Notary Public



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. 7905

| | | | | | | | | | | | | | | | |
|-----------------------------------|--------------|------|--------|-------------------|----------|--|--|------------------------------|----------------------------------|-------|----|-------------|--|--------|---------|
| Date | 6-6-13 | Sec. | 2 | Twp. | 17 | Range | 25 | County | Ness | State | Ks | On Location | | Finish | 6:45 PM |
| Lease | Maninch | | | unit ⁴ | Well No. | 1 | | Location | Ainold, Ks - 1W to J Rd, 2 1/2 S | | | | | | |
| Contractor | Discovery | | | 3 | | | Owner | to tanks, E/Into on lease Rd | | | | | | | |
| 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. | 221' | | Charge To | J.O. Farmer | | | | | | | |
| Csg. | 8 3/8" | | | Depth | 221' | | 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 | 15' | | Cement Amount Ordered | 150 common 3% CC 2% Gc | | | | | | | |
| Meas Line | | | | Displace | 13 BLS | | | | | | | | | | |
| EQUIPMENT | | | | | | | Common 150 | | | | | | | | |
| Pumptrk | 15 | No. | Cement | Helper | | Nick | | Poz. Mix | | | | | | | |
| Bulktrk | 14 | No. | Driver | Driver | | Billu | | Gel. 3 | | | | | | | |
| Bulktrk | P.U. | No. | Driver | Driver | | Rick | | Calcium 5 | | | | | | | |
| JOB SERVICES & REMARKS | | | | | | | Hulls | | | | | | | | |
| Remarks | Cement did | | | Circulate. | | | | Salt | | | | | | | |
| Rat Hole | | | | | | | | Flowseal | | | | | | | |
| Mouse Hole | | | | | | | | Kol-Seal | | | | | | | |
| Centralizers | | | | | | | | Mud CLR 48 | | | | | | | |
| Baskets | | | | | | | | CFL-117 or CD110 CAF 38 | | | | | | | |
| D/V or Port Collar | | | | | | | | Sand | | | | | | | |
| | | | | | | | | Handling 150 | | | | | | | |
| | | | | | | | | Mileage | | | | | | | |
| FLOAT EQUIPMENT | | | | | | | | | | | | | | | |
| | | | | | | | | Guide Shoe | | | | | | | |
| | | | | | | | | Centralizer | | | | | | | |
| | | | | | | | | Baskets | | | | | | | |
| | | | | | | | | AFU Inserts | | | | | | | |
| | | | | | | | | Float Shoe | | | | | | | |
| | | | | | | | | Latch Down | | | | | | | |
| | | | | | | | | Pumptrk Charge Surface | | | | | | | |
| | | | | | | | | Mileage 24 | | | | | | | |
| | | | | | | | | Tax | | | | | | | |
| | | | | | | | | Discount | | | | | | | |
| | | | | | | | | Total Charge | | | | | | | |
| X Signature | Peter Deller | | | | | | | | | | | | | | |

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. 6926

| | | | | | | | | | | | | | | | |
|------|---------|------|---|------|----|-------|----|--------|------|-------|----|-------------|---------|--------|---------|
| Date | 6-13-13 | Sec. | 2 | Twp. | 17 | Range | 25 | County | NeSS | State | KS | On Location | 1:30 AM | Finish | 7:30 AM |
|------|---------|------|---|------|----|-------|----|--------|------|-------|----|-------------|---------|--------|---------|

Location Arnold 1W 2 1/2 S Finto

Lease McMinch unit Well No. 4 Owner

Contractor Discrany 3 To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish
Type Job plug 30¢ cementer and helper to assist owner or contractor to do work as listed.

Hole Size 11 1/2 pipe T.D. 4500 Charge To Joe Farmer Inc

Csg. Depth 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. Shoe Joint Cement Amount Ordered 300 SH 60/40

Meas Line Displace 49% gel 1/4 flow seal

EQUIPMENT

| | | |
|-----------------------|------------------------|---------------------|
| Pumptrk <u>5</u> No. | Cementer <u>mt</u> | Common <u>180</u> |
| Bulktrk <u>13</u> No. | Helper <u>Brett</u> | Poz. Mix <u>120</u> |
| Bulktrk <u>04</u> No. | Driver <u>Lorraine</u> | Gel. <u>11</u> |
| | Driver | Calcium |

JOB SERVICES & REMARKS

Remarks: Halls
Salt
Rat Hole 30 SH Flowseal 75
Mouse Hole 2054 Kol-Seal
Centralizers Mud CLR 48
Baskets CFL-117 or CD110 CAF 38

D/V or Port Collar Sand
1st 1890ft 50 SHS Handling 311
2nd 1150ft 80 SHS Mileage

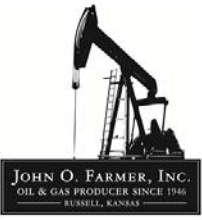
FLOAT EQUIPMENT

3rd 550ft 50 SHS
4th 250ft 50 SHS
5th 60ft 20 SHS
Guide Shoe
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down

McMinch unit #1

Pumptrk Charge plug
Mileage 24

Signature Ab Duller Tax
Discount
Total Charge



AUSTIN B. KLAUS



Cell 785.650.3629
Work 785.483.3145
Ext 225

PO BOX 352
Russell, KS 67665
austin.klaus@johnofarmer.com

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: McNinch Unit #1
Location: Ness County
License Number: API # 15-135-25610-00-00
Spud Date: 6/6/13
Surface Coordinates: Section 2 - Township 17 South - Range 25 West
1,130' FSL & 2,580' FWL
Bottom Hole Coordinates: Vertical well with minimal deviation, same as above
Ground Elevation (ft): 2,457' **K.B. Elevation (ft):** 2,465'
Logged Interval (ft): 3,700' **To:** RTD **Total Depth (ft):** 4,500'
Formation: Mississippian Osage
Type of Drilling Fluid: Chemical (Andy's)

Region: Kansas
Drilling Completed: 6/12/13

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR


Company: John O. Farmer, Inc.
Address: P.O. Box 352
Russell, KS 67665-0352

Comments

The McNinch Unit #1 well was drilled by Discovery Drilling Rig #3 (Tool Pusher: Galen Gaschler).

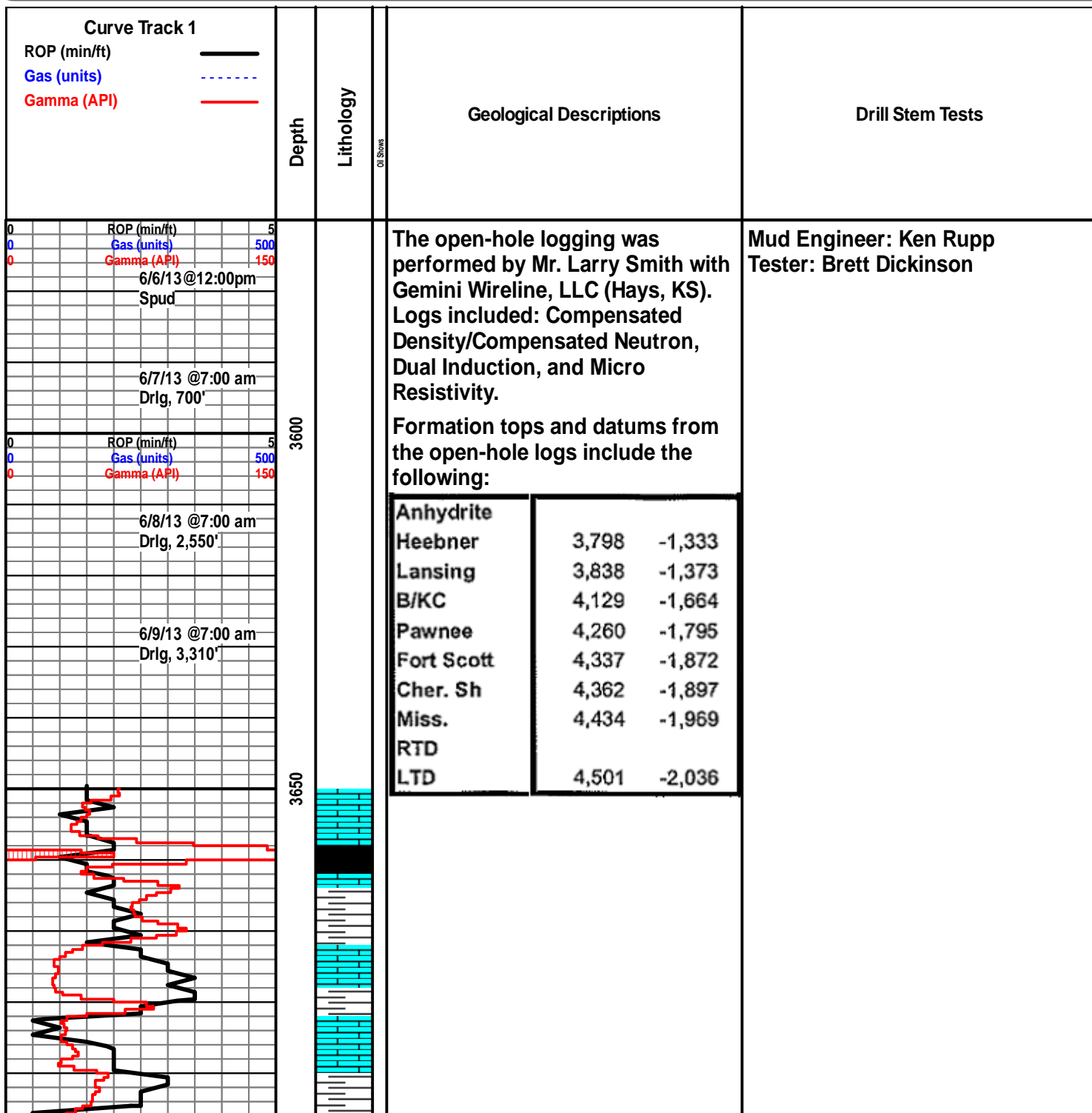
The location for the McNinch Unit #1 well was found via 3-D seismic survey. Geologic samples were collected and examined from 3,650-4,500'. A bottom-hole test was run over the Fort Scott Formation, which yielded negative results. After log data was acquired and analyzed a straddle test was conducted on the Mississippian Formation. After all sample, log, and drill stem test data was gathered and evaluated, the decision was made to plug and abandon the McNinch Unit #1 well on 6/13/13.

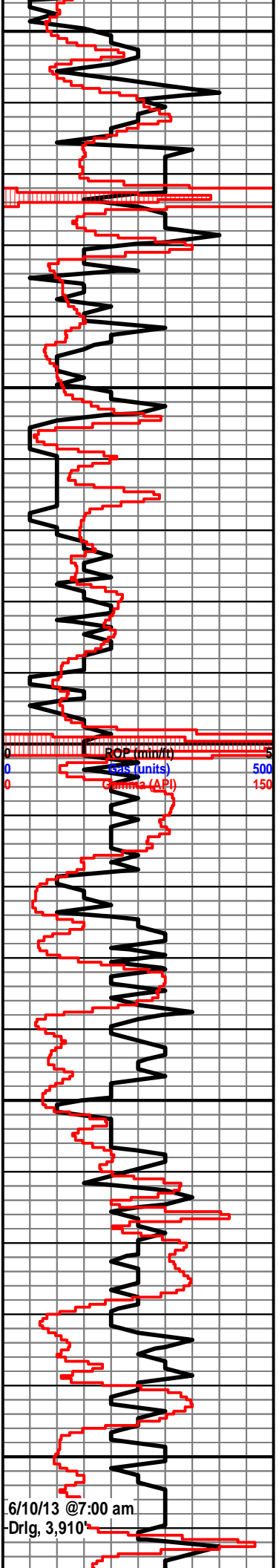
ROCK TYPES

| | | | | |
|---|---|--|--|--|
|  Anhy |  Clyst |  Gyp |  Mrlst |  Shgy |
|  Bent |  Coal |  Igne |  Salt |  Slstst |
|  Brec |  Congl |  Lmst |  Shale |  Ss |
|  Cht |  Dol |  Meta |  Shcol |  Till |

OTHER SYMBOLS

| | | | | |
|-----------------------------------|-----------------------------------|----------------------------------|----------------------------------|-----------------------------------|
| POROSITY | <input type="checkbox"/> Vuggy | ROUNDING | <input type="checkbox"/> Spotted | EVENT |
| <input type="checkbox"/> Earthy | SORTING | <input type="checkbox"/> Rounded | <input type="checkbox"/> Ques | <input type="checkbox"/> Rft |
| <input type="checkbox"/> Fenest | <input type="checkbox"/> Well | <input type="checkbox"/> Subrnd | <input type="checkbox"/> Dead | <input type="checkbox"/> Sidewall |
| <input type="checkbox"/> Fracture | <input type="checkbox"/> Moderate | <input type="checkbox"/> Subang | INTERVAL | |
| <input type="checkbox"/> Inter | <input type="checkbox"/> Poor | <input type="checkbox"/> Angular | <input type="checkbox"/> Core | |
| <input type="checkbox"/> Moldic | | OIL SHOW | <input type="checkbox"/> Dst | |
| <input type="checkbox"/> Organic | | <input type="checkbox"/> Even | | |
| <input type="checkbox"/> Pinpoint | | | | |





3700
3750
3800
3850
3900

Ls: off wh-tan, fn-sub xln, mostly DNS, sl fossil

Sh: drk gry

Ls: ala

Ls: off wh-tan, fn xln, ool, poor-fair oom porosity, sl fossil, barren

Ls: off wh-tan, fn xln, fossil, sl chert-off wh

Sh: lt-drk gry

Sh, Slst: drk gry-brn

Heebner 3798' (-1333)

Sh: drk gry-blk, carb

Ls: off wh-tan, fn xln, sl fossil, chert-off wh, sl chalky

Sh, Slst: drk gry

Ls: off wh-tan, fn xln, sl chalky, fossil, sl chert-off wh

Lansing 3838' (-1373)

Ls: off wh-tan, fn xln, mostly DNS, sl chert-off wh, sl chalky

Sh, Slst: drk gry-brn

Ls: tan-lt gry, fn-sub xln, mostly DNS, barren, sl fossil, chert-off wh, sl chalky

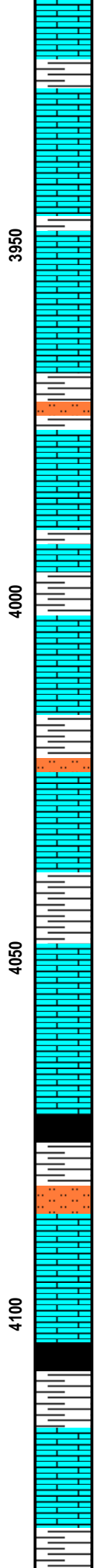
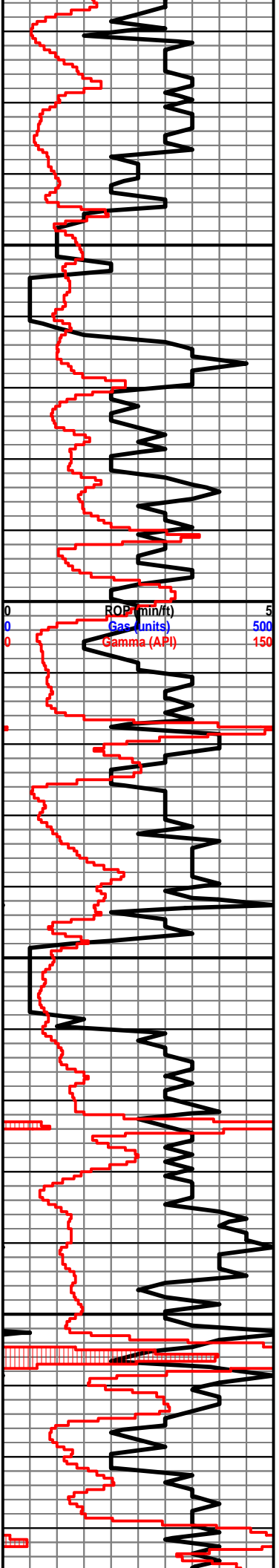
Sh: lt-drk gry

Ls: tan-lt gry-brn, fn xln, sl chert-off wh, sl chalky

Sh: drk gry-blk

Ls: off wh-tan-gry, fn xln, few pcs ool, poor-fair oom & int xln porosity, mostly barren, pyrite

6/10/13 @7:00 am
Drlg, 3,910'



Sh: drk gry

Ls: off wh-tan, fn xln, ool, poor oom porosity, barren, sl chert-off wh

Ls: ala

Sh, Slstst: gry-brn-grn

Ls: off wh-tan, fn xln, ool, fair-good oom porosity, barren, sl chert-off wh, sl chalky

Ls: ala

Sh, Slstst: drk gry-grn-brn

Ls: off wh-lt gry, fn-sub xln, moslty DNS, sl chert-off wh

Ls: ala

Ls: tan-gry, fn-sub xln, moslty DNS, sl chalky

Sh, Slstst: gry-brn

Ls: off wh-tan, vry fn xln, moslty DNS, sl chert-off wh, sl chalky, barren

Sh: lt-drk gry

Ls: off wh, fn xln, ool, good oom porosity, barren, sl chert-off wh, sl chalky

Ls: off wh-tan, fn-sub xln, moslty DNS, sl fossil

Sh: blk, carb, fissile

Sh, Slstst: gry-brn-grn

Ls: tan-lt gry, fn-sub xln, moslty DNS

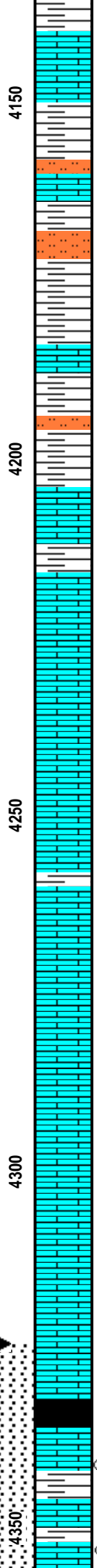
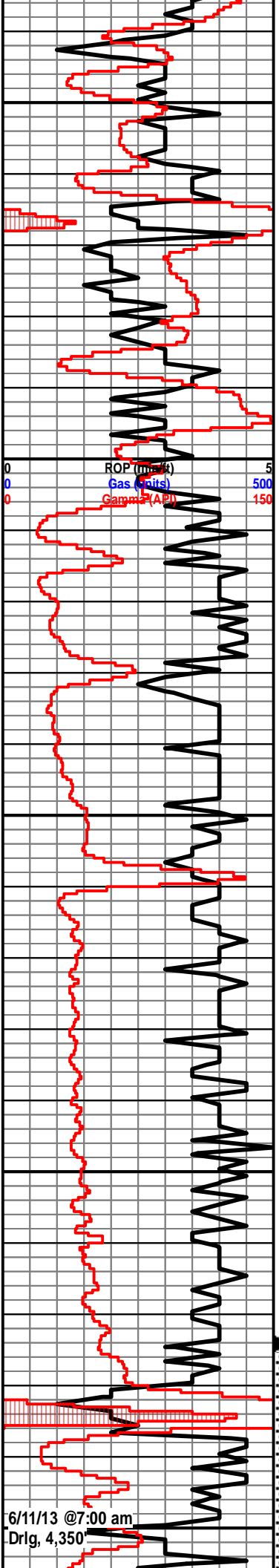
Ls: ala

Sh: drk gry-blk, carb, fissile

Ls: off wh-tan-lt gry, fn-sub xln, moslty DNS, sl chalky, sl chert-off wh

BKC 4128' (-1663)

Sh, Slstst: gry-brn-grn



Ls: tan-brn, fn-sub xln, mostly DNS

Ls: ala

Sh, Slst: gry-brn-grn

Sh, Slst: ala

Ls: off wh-tan, fn xln, mostly DNS

Sh,Slst: gry-brn-grn

Ls: off wh-tan-brn, fn xln, mostly DNS, sl chert-off wh

Ls: ala

Ls: off wh-tan-brn, fn-sub xln, mostly DNS, sl chalky, sl chert-off wh

Ls: ala

Sh: drk gry-blk

Pawnee 4256' (-1791)

Ls: tan-lt gry, fn-sub xln, mostly DNS, sl chert-off wh, sl chalky

Ls: ala

Ls: tan-lt gry, fn xln, mostly DNS, sl chert-off wh

Ls: ala

Ls: tan-lt gry-brn, fn-sub xln, vry DNS, sl chert-off wh

Ls: ala

Sh: drk gry-blk

Fort Scott 4333 (-1868)

Ls: tan-brn, fn xln, poor int xln porosity, dead oil st, NSFO, vry lt odor

Sh: drk gry

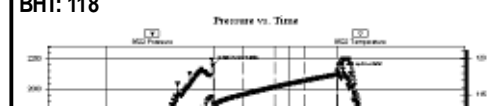
Ls: tan-brn, fn xln, ool, poor int xln porosity, sl oil st, VSSFO, mostly tite, sl odor, sl fossil

ROP (min/k) 5
 Gas (cc/st) 500
 Gamma (API) 150

6/11/13 @7:00 am
 Drlg, 4,350'

Vis: 53
 Wt: 9.3

DST #1 4,324-4,364' (Fort Scott)
 30"-30"-60"-60"
 IF: weak surface blow, died in 25 minutes
 FF: no blow
 Rec: 3' M w/ oil spots
 FP: 25-25, 25-25#
 SIP: 83-42#
 HP: 2,199-2,142#
 BHT: 118



Sh, 100% S, mostly dk, sl chert, or rock

Cherokee Sh 4360' (-1895)

Sh: drk gry-blk

Sh: drk gry-brn-grn

Ls: tan-brn-lt gry, fn-sub xln, mostly DNS, NSFO, sl fossil, sl chert-off wh

Sh: drk gry-brn-blk

Sh, Slst: lt gry-brn

Ls: lt gry-tan-brn, fn xln, mostly DNS, barren, sl chalky, sl fossil

Sh, Slst: gry-brn-grn, fw pcs soft

Sh: drk gry, fw pcs grn, waxy

Mississippian 4425' (-1960)

Dolo: tan-brn, fn xln, poor int xln & vuggy porosity, mostly DNS, lt dead oil st, NSFO, no odor

Sh: drk gry-grn

Dolo: tan-brn-lt gry, fn-md xln, fair int xln and vuggy porosity, fair oil st, SFO, good odor, fair yel fluor

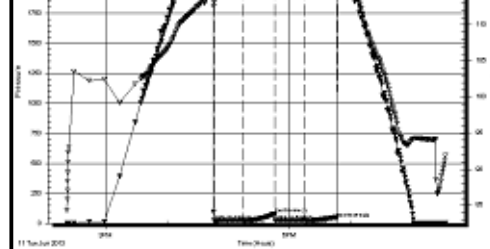
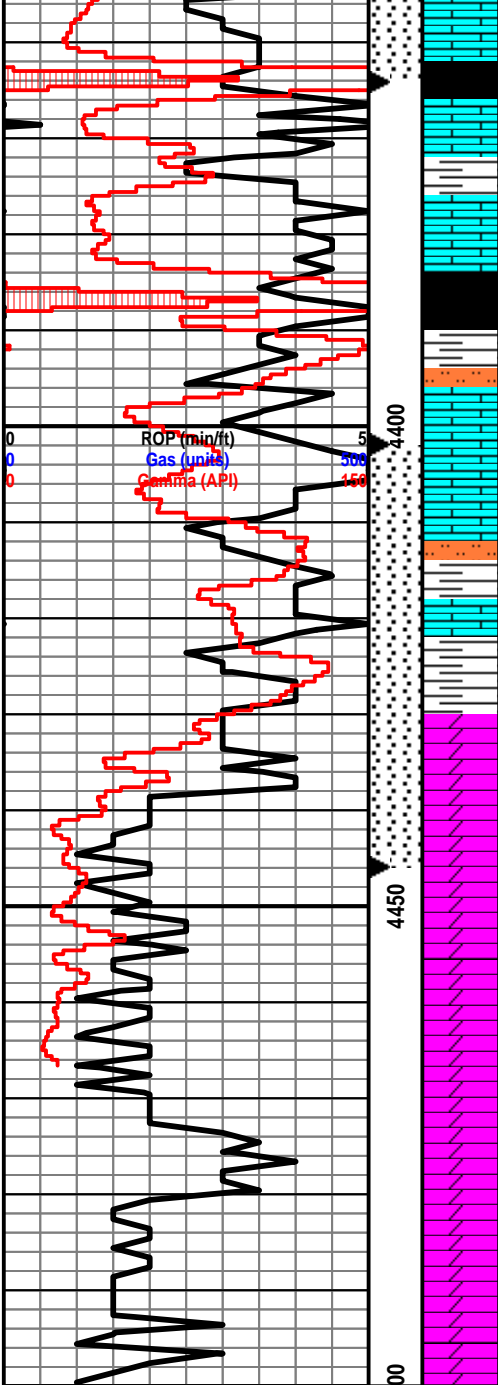
Dolo: tan-lt gry, fn-md xln, fair-good int xln and vuggy porosity, lt oil st in porosity, VSSFO, sl odor

Dolo: ala

Dolo: off wh-tan-lt gry, fn-md xln, fair-good int xln & vuggy porosity, lt oil st, fair odor, sl chalky, sl chert-off wh

Dolo: ala

Dolo: off wh-lt gry, md xln, fair int xln and vuggy porosity, barren, sl odor, sl chert-off wh, chalky



DST #2 4,402-4,446' (Upper Miss) 30"-30"-60"-60"

IF: surface built to 3 1/2", no blow back

FF: surface built to 1", no blow back

Rec: 20' CO 37 API

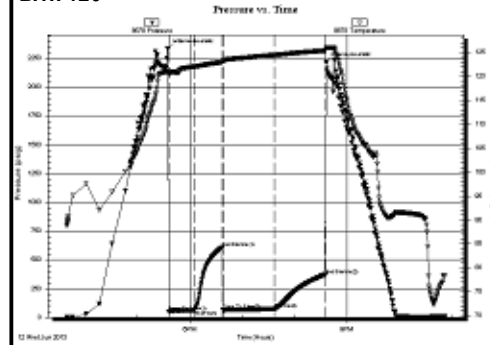
60' OCM (5% O, 95% M)

FP: 50-63, 67-74#

SIP: 609-372#

HP: 2,333-2,214#

BHT: 126





DRILL STEM TEST REPORT

Prepared For: **John O. Farmer, Inc**

PO Box 352
Russell, KS 67665

ATTN: Austin Klaus

McNinch Unit #1

2-17s-25w Ness,KS

Start Date: 2013.06.11 @ 14:22:00

End Date: 2013.06.11 @ 20:33:00

Job Ticket #: 53244 DST #: 1

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

Printed: 2013.06.13 @ 16:08:02



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O. Farmer, Inc

2-17s-25w Ness,KS

PO Box 352
Russell, KS 67665

McNinch Unit #1

Job Ticket: 53244

DST#: 1

ATTN: Austin Klaus

Test Start: 2013.06.11 @ 14:22:00

GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:46:00

Time Test Ended: 20:33:00

Test Type: (Initial)

Tester: Bradley Walter

Unit No: 53

Interval: 4324.00 ft (KB) To 4364.00 ft (KB) (TVD)

Reference Elevations: 2465.00 ft (KB)

Total Depth: 4364.00 ft (KB) (TVD)

2458.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8522 Outside

Press @ RunDepth: 25.49 psig @ 4325.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.11

End Date:

2013.06.11

Last Calib.:

2013.06.11

Start Time: 14:22:05

End Time:

20:32:59

Time On Btm:

2013.06.11 @ 16:45:30

Time Off Btm:

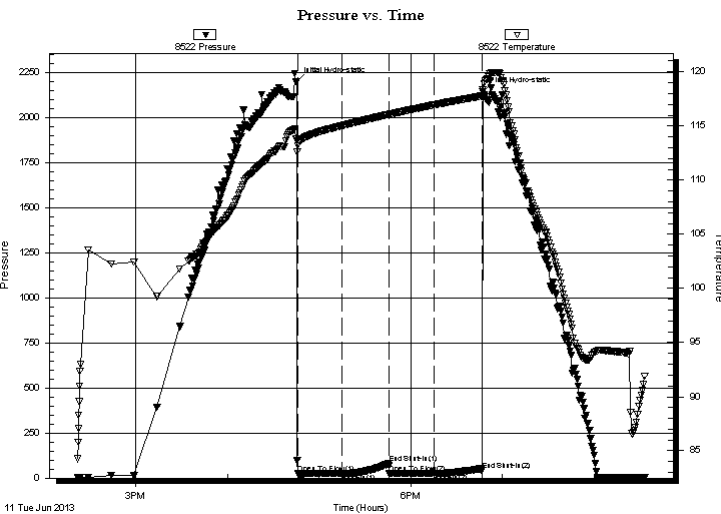
2013.06.11 @ 18:47:00

TEST COMMENT: IF: Surface blow, died @ 25 min.

IS: No return.

FF: No blow.

FS: No return.



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2198.75 | 113.77 | Initial Hydro-static |
| 1 | 25.15 | 113.15 | Open To Flow (1) |
| 30 | 25.36 | 115.02 | Shut-In(1) |
| 60 | 82.99 | 116.07 | End Shut-In(1) |
| 61 | 24.99 | 116.07 | Open To Flow (2) |
| 90 | 25.49 | 116.95 | Shut-In(2) |
| 121 | 42.25 | 117.76 | End Shut-In(2) |
| 122 | 2142.42 | 118.37 | Final Hydro-static |

Recovery

Gas Rates

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------------|--------------|
| 3.00 | Mud 100m (oil spots) | 0.01 |
| | | |
| | | |
| | | |
| | | |

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O. Farmer, Inc

2-17s-25w Ness, KS

PO Box 352
Russell, KS 67665

McNinch Unit #1

Job Ticket: 53244

DST#: 1

ATTN: Austin Klaus

Test Start: 2013.06.11 @ 14:22:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4287.00 ft | Diameter: 3.80 inches | Volume: 60.14 bbl | Tool Weight: 2500.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 30.00 ft | Diameter: 2.25 inches | Volume: 0.15 bbl | Weight to Pull Loose: 80000.00 lb |
| | | | <u>Total Volume: 60.29 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 15.00 ft | | | String Weight: Initial 66000.00 lb |
| Depth to Top Packer: | 4324.00 ft | | | Final 66000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 40.00 ft | | | |
| Tool Length: | 62.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Change Over Sub | 1.00 | | | 4303.00 | |
| Shut In Tool | 5.00 | | | 4308.00 | |
| Hydraulic tool | 5.00 | | | 4313.00 | |
| Safety Joint | 2.00 | | | 4315.00 | |
| Packer | 5.00 | | | 4320.00 | 22.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 4324.00 | |
| Stubb | 1.00 | | | 4325.00 | |
| Recorder | 0.00 | 8677 | Inside | 4325.00 | |
| Recorder | 0.00 | 8522 | Outside | 4325.00 | |
| Perforations | 2.00 | | | 4327.00 | |
| Change Over Sub | 1.00 | | | 4328.00 | |
| Drill Pipe | 32.00 | | | 4360.00 | |
| Change Over Sub | 1.00 | | | 4361.00 | |
| Bullnose | 3.00 | | | 4364.00 | 40.00 Bottom Packers & Anchor |

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O. Farmer, Inc

2-17s-25w Ness,KS

PO Box 352
Russell, KS 67665

McNinch Unit #1

Job Ticket: 53244

DST#: 1

ATTN: Austin Klaus

Test Start: 2013.06.11 @ 14:22:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|----------------------|---------------|
| 3.00 | Mud 100m (oil spots) | 0.015 |

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

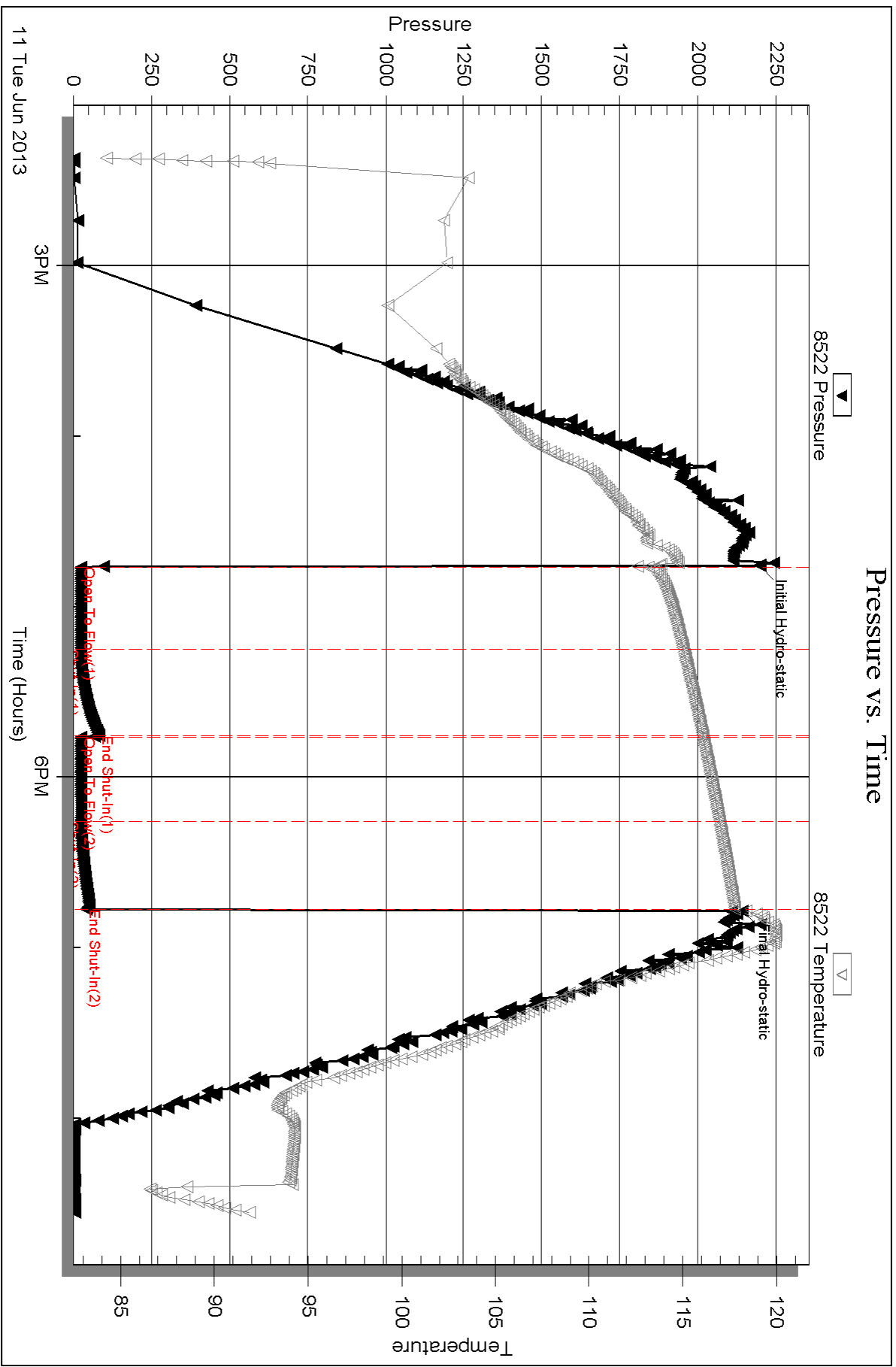
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



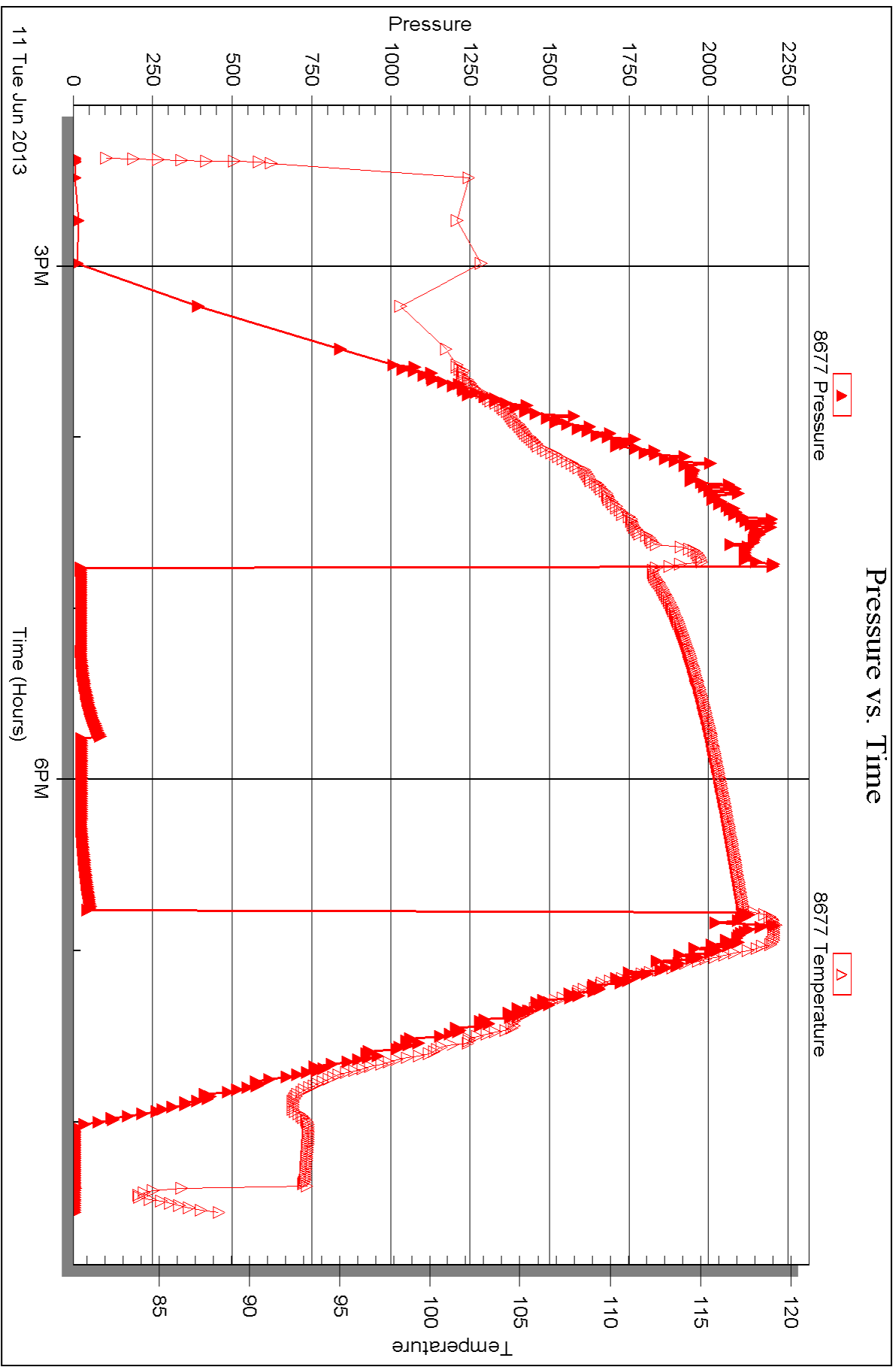
Serial #: 8677

Inside

John O. Farmer, Inc

McIninch Unit #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **John O. Farmer, Inc**

PO Box 352
Russell, KS 67665

ATTN: Austin Klaus

McNinch Unit #1

2-17s-25w Ness,KS

Start Date: 2013.06.12 @ 15:39:00

End Date: 2013.06.12 @ 22:51:30

Job Ticket #: 53245 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.06.13 @ 16:07:04



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O. Farmer, Inc

2-17s-25w Ness, KS

PO Box 352
Russell, KS 67665

McNinch Unit #1

ATTN: Austin Klaus

Job Ticket: 53245

DST#: 2

Test Start: 2013.06.12 @ 15:39:00

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:35:30

Time Test Ended: 22:51:30

Test Type: (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4402.00 ft (KB) To 4446.00 ft (KB) (TVD)

Reference Elevations: 2465.00 ft (KB)

Total Depth: 4500.00 ft (KB) (TVD)

2458.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8678 Outside

Press @ Run Depth: 73.72 psig @ 4403.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.12

End Date: 2013.06.12

Last Calib.: 2013.06.12

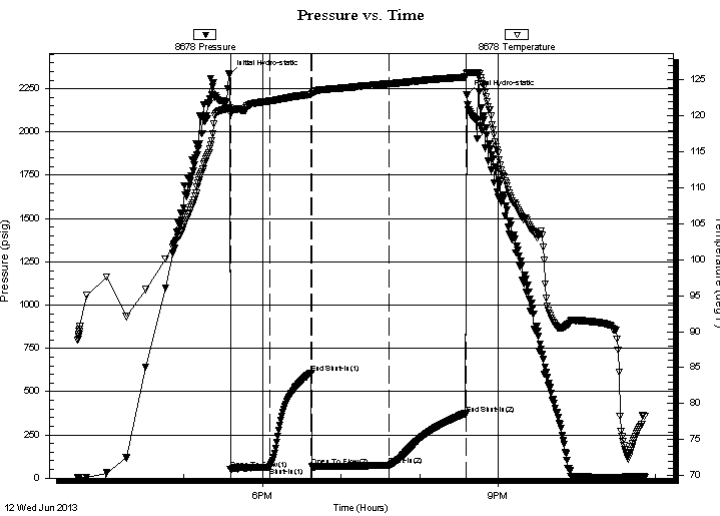
Start Time: 15:39:05

End Time: 22:51:29

Time On Btm: 2013.06.12 @ 17:35:00

Time Off Btm: 2013.06.12 @ 20:35:45

TEST COMMENT: IF: 3 1/2" blow .
IS: No return.
FF: 1" blow .
FS: No return.



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2333.30 | 121.12 | Initial Hydro-static |
| 1 | 49.53 | 120.37 | Open To Flow (1) |
| 31 | 62.82 | 122.05 | Shut-In(1) |
| 63 | 608.70 | 123.00 | End Shut-In(1) |
| 63 | 66.79 | 123.08 | Open To Flow (2) |
| 122 | 73.72 | 124.47 | Shut-In(2) |
| 180 | 372.09 | 125.40 | End Shut-In(2) |
| 181 | 2213.76 | 125.88 | Final Hydro-static |

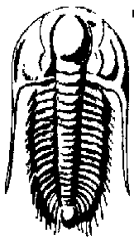
Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 60.00 | socm 5o 95m | 0.57 |
| 20.00 | oil 100o | 0.28 |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O. Farmer, Inc

2-17s-25w Ness, KS

PO Box 352
Russell, KS 67665

McNinch Unit #1

Job Ticket: 53245 DST#: 2

ATTN: Austin Klaus

Test Start: 2013.06.12 @ 15:39:00

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:35:30

Time Test Ended: 22:51:30

Test Type: (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: **4402.00 ft (KB) To 4446.00 ft (KB) (TVD)**

Total Depth: 4500.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2465.00 ft (KB)

2458.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8677 Inside

Press @RunDepth: psig @ 4403.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.06.12

End Date: 2013.06.12

Last Calib.: 2013.06.12

Start Time: 15:39:05

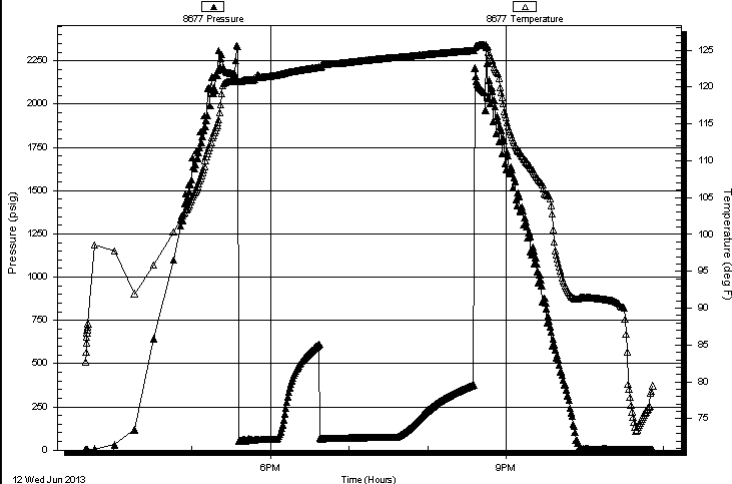
End Time: 22:51:29

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 3 1/2" blow .
IS: No return.
FF: 1" blow .
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|------------|
| | | | |
| | | | |
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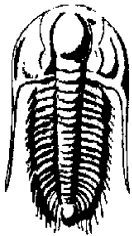
Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 60.00 | socm 5o 95m | 0.57 |
| 20.00 | oil 100o | 0.28 |
| | | |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O. Farmer, Inc

2-17s-25w Ness, KS

PO Box 352
Russell, KS 67665

McNinch Unit #1

Job Ticket: 53245 **DST#: 2**

ATTN: Austin Klaus

Test Start: 2013.06.12 @ 15:39:00

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:35:30

Time Test Ended: 22:51:30

Test Type: (Reset)

Tester: Bradley Walter

Unit No: 53

Interval: 4402.00 ft (KB) To 4446.00 ft (KB) (TVD)

Total Depth: 4500.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2465.00 ft (KB)

2458.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8522 Below (Straddle)

Press @ Run Depth: psig @ 4464.00 ft (KB)

Start Date: 2013.06.12

End Date:

2013.06.12

Capacity: 8000.00 psig

Last Calib.:

2013.06.12

Start Time: 15:39:05

End Time:

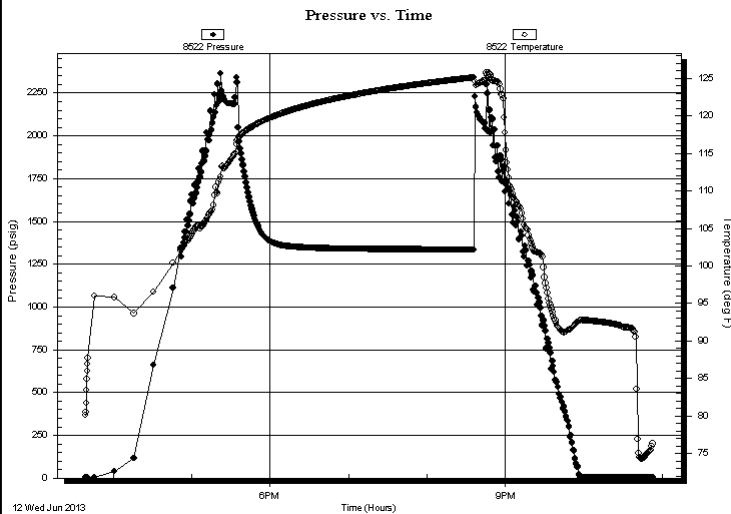
22:52:29

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 3 1/2" blow.
IS: No return.
FF: 1" blow.
FS: No return.

PRESSURE SUMMARY



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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 60.00 | socm 5o 95m | 0.57 |
| 20.00 | oil 100o | 0.28 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O. Farmer, Inc

2-17s-25w Ness,KS

PO Box 352
Russell, KS 67665

McNinch Unit #1

Job Ticket: 53245

DST#: 2

ATTN: Austin Klaus

Test Start: 2013.06.12 @ 15:39:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4372.00 ft | Diameter: 3.80 inches | Volume: 61.33 bbl | Tool Weight: 2500.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 30.00 ft | Diameter: 2.25 inches | Volume: 0.15 bbl | Weight to Pull Loose: 80000.00 lb |
| | | | <u>Total Volume: 61.48 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 27.00 ft | | | String Weight: Initial 68000.00 lb |
| Depth to Top Packer: | 4402.00 ft | | | Final 68000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 98.00 ft | | | |
| Tool Length: | 125.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|---------------------------|---------------|------------|----------|------------|------------------------------------|
| Change Over Sub | 1.00 | | | 4376.00 | |
| Shut In Tool | 5.00 | | | 4381.00 | |
| Hydraulic tool | 5.00 | | | 4386.00 | |
| Jars | 5.00 | | | 4391.00 | |
| Safety Joint | 2.00 | | | 4393.00 | |
| Packer | 5.00 | | | 4398.00 | 27.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 4402.00 | |
| Stubb | 1.00 | | | 4403.00 | |
| Recorder | 0.00 | 8677 | Inside | 4403.00 | |
| Recorder | 0.00 | 8678 | Outside | 4403.00 | |
| Perforations | 1.00 | | | 4404.00 | |
| Change Over Sub | 1.00 | | | 4405.00 | |
| Drill Pipe | 31.00 | | | 4436.00 | |
| Change Over Sub | 1.00 | | | 4437.00 | |
| Perforations | 5.00 | | | 4442.00 | |
| Blank Off Sub | 1.00 | | | 4443.00 | 98.00 Tool Interval |
| Packer | 3.00 | | | 4446.00 | |
| Blank Spacing | 1.00 | | | 4447.00 | |
| Perforations | 16.00 | | | 4463.00 | |
| Change Over Sub | 1.00 | | | 4464.00 | |
| Recorder | 0.00 | 8522 | Below | 4464.00 | |
| Drill Pipe | 32.00 | | | 4496.00 | |
| Change Over Sub | 1.00 | | | 4497.00 | |
| Bullnose | 3.00 | | | 4500.00 | 1000124.00 Bottom Packers & Anchor |
| Total Tool Length: | 125.00 | | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O. Farmer, Inc

2-17s-25w Ness,KS

PO Box 352
Russell, KS 67665

McNinch Unit #1

Job Ticket: 53245

DST#: 2

ATTN: Austin Klaus

Test Start: 2013.06.12 @ 15:39:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 60.00 | socm 5o 95m | 0.568 |
| 20.00 | oil 100o | 0.281 |

Total Length: 80.00 ft Total Volume: 0.849 bbl

Num Fluid Samples: 0

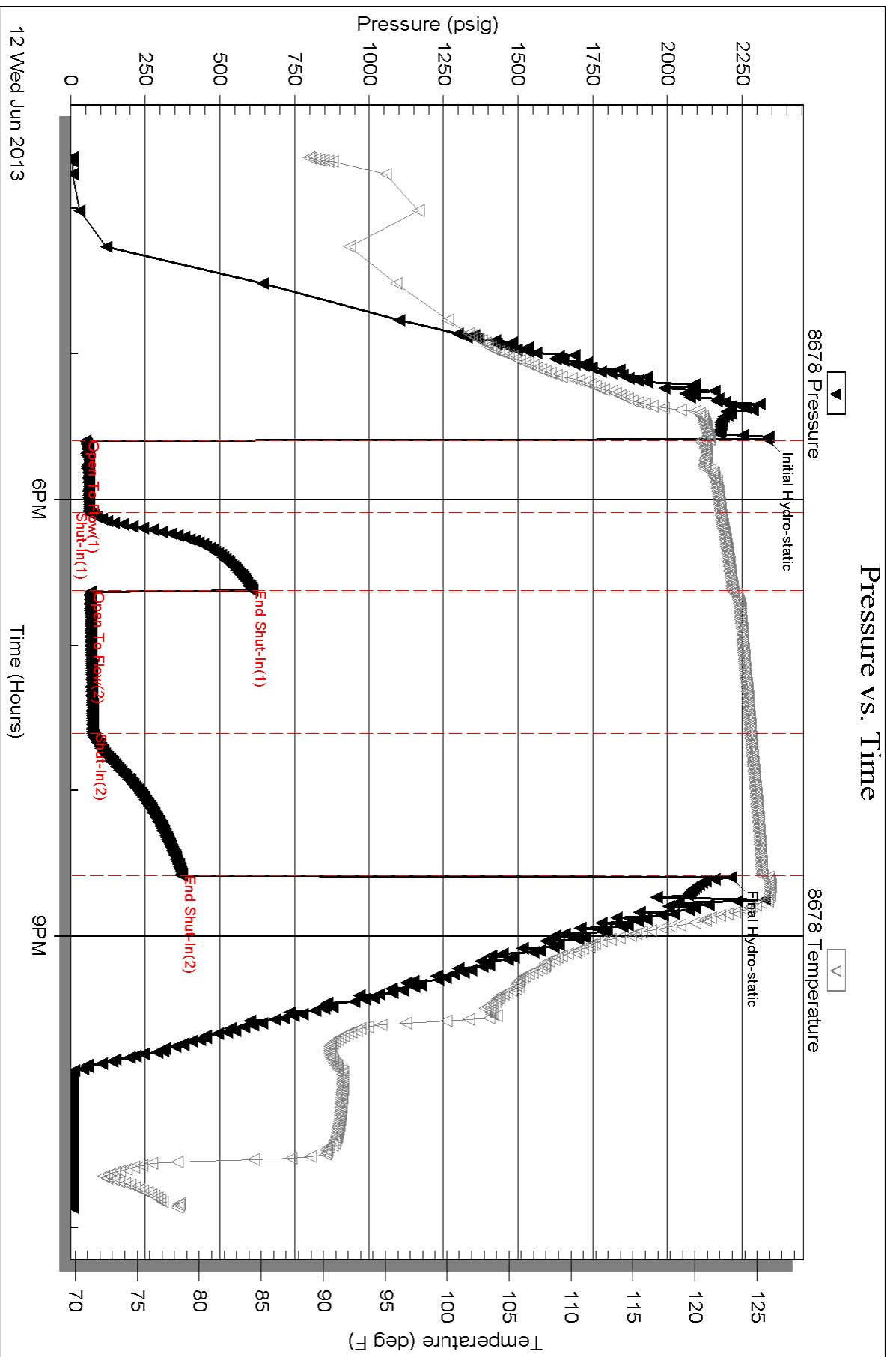
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



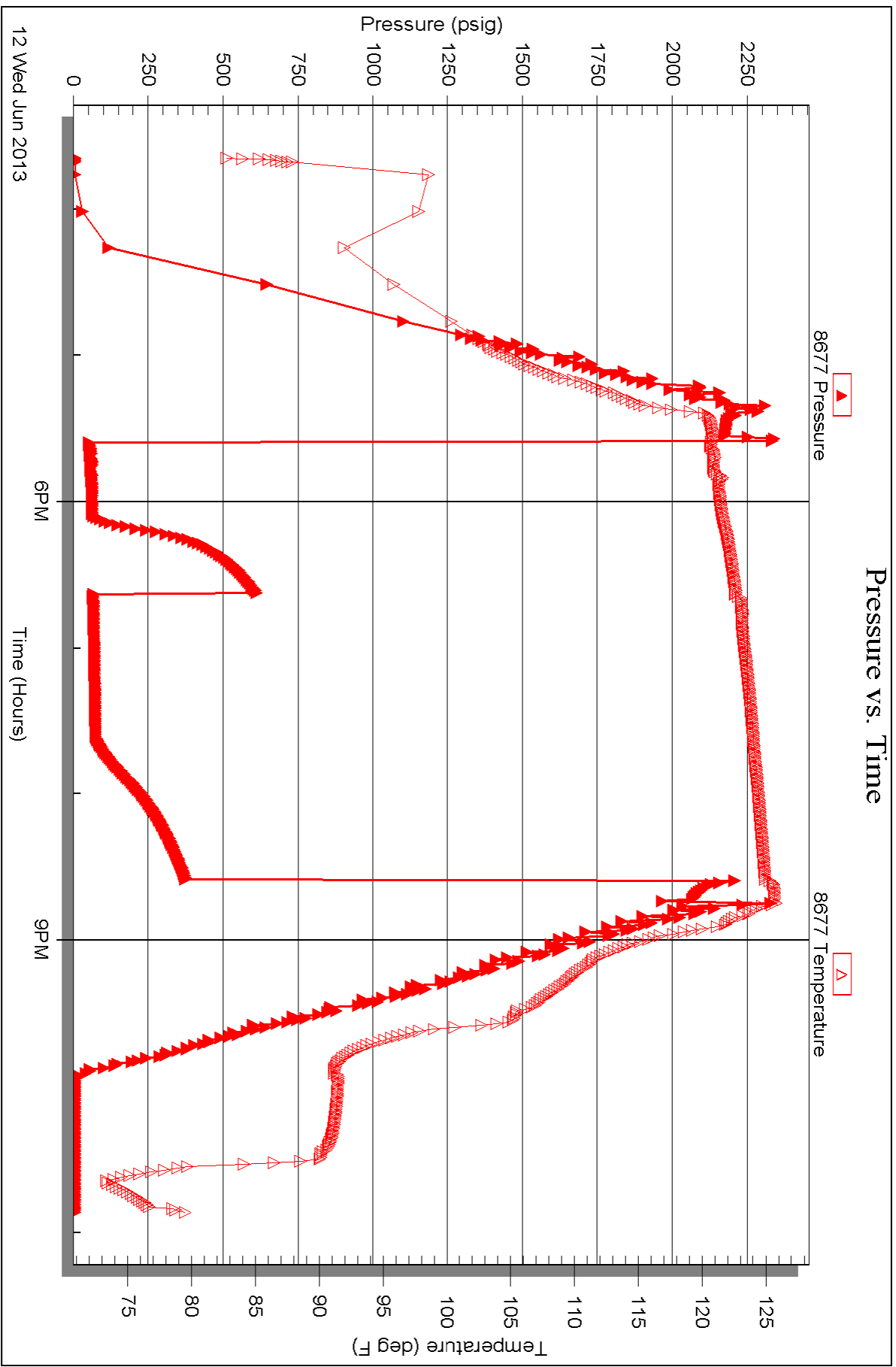
Serial #: 8677

Inside

John O. Farmer, Inc

McIninch Unit #1

DST Test Number: 2

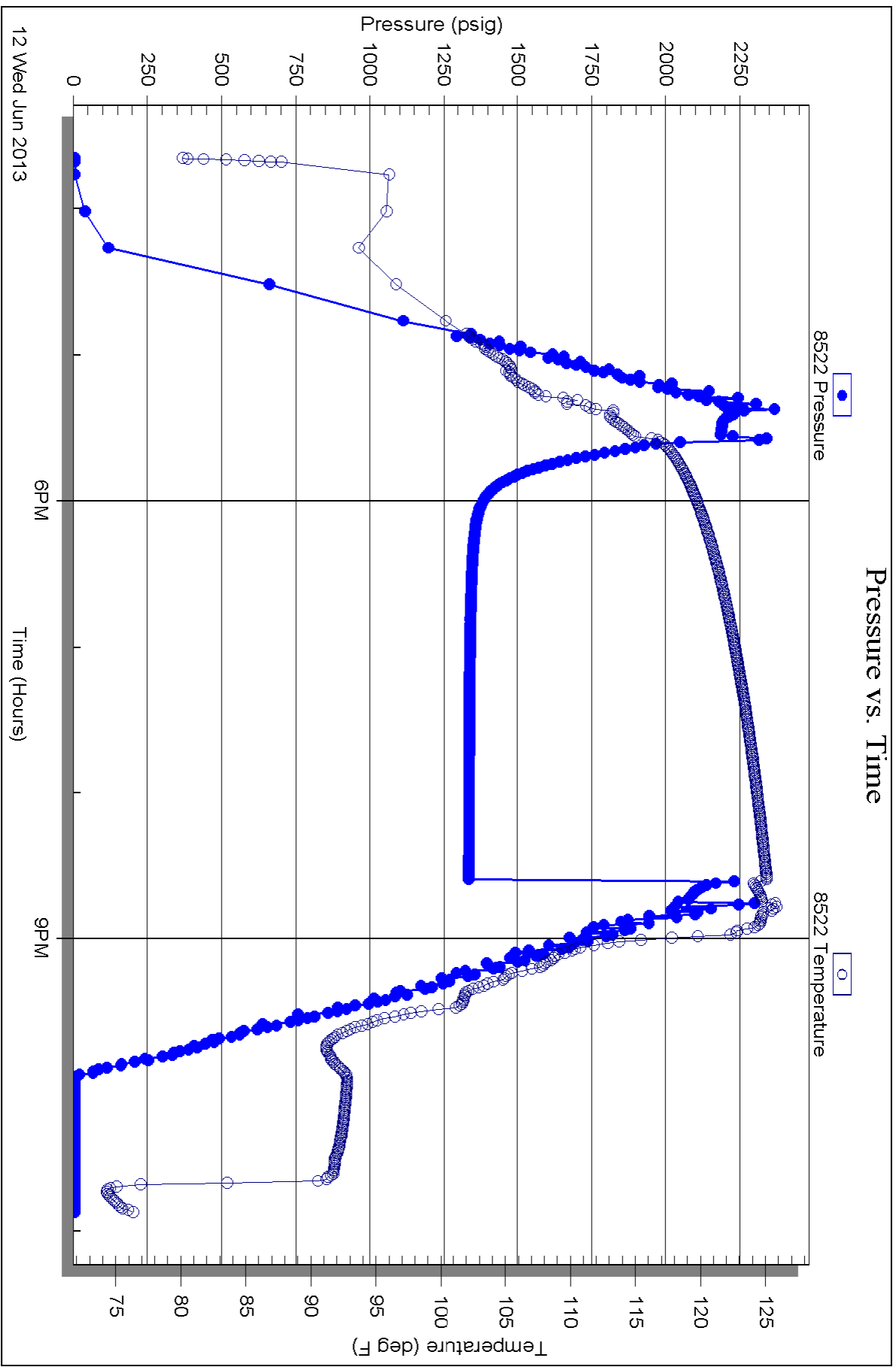


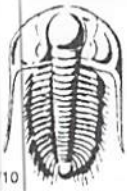
Serial #: 8522

Below (Straddled) Farmer, Inc

McIninch Unit #1

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53244

Well Name & No. Mc Minch Unit #1 Test No. 1 Date 6/11/13
 Company John O. Farmer, Inc Elevation 2465 KB 2458 GL
 Address PO Box 352 Russell, Ks 67665
 Co. Rep / Geo. Austin Kraus Rig Discovery #3
 Location: Sec. 2 Twp. 17S Rge. 25W Co. Ness State Ks

Interval Tested 4324 4364 Zone Tested Ft. Scott
 Anchor Length 40' Drill Pipe Run 4287 Mud Wt. 9.5
 Top Packer Depth 4319 Drill Collars Run 30 Vis 54
 Bottom Packer Depth 4324 Wt. Pipe Run 0 WL 8.0
 Total Depth 4364 Chlorides 4500 ppm System LCM 1#

Blow Description IF: Surface blow, died @ 25 min.
ISI: No return.
FF: No blow
FBI: No return.

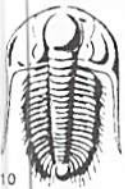
| Rec | Feet of | %gas | %oil | %water | %mud |
|----------|------------------------|------|------|------------|------|
| <u>3</u> | <u>MUD (OIL SPOTS)</u> | | | <u>100</u> | |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |

Rec Total 3 BHT 118 Gravity - API RW - @ - °F Chlorides - ppm

| | | |
|-------------------------------------|---|--|
| (A) Initial Hydrostatic <u>2199</u> | <input checked="" type="checkbox"/> Test 1250 | T-On Location <u>1330</u> |
| (B) First Initial Flow <u>25</u> | <input checked="" type="checkbox"/> Jars 250 | T-Started <u>1422</u> |
| (C) First Final Flow <u>25</u> | <input checked="" type="checkbox"/> Safety Joint 75 | T-Open <u>1645</u> |
| (D) Initial Shut-In <u>83</u> | <input checked="" type="checkbox"/> Circ Sub <u>N/C</u> | T-Pulled <u>1845</u> |
| (E) Second Initial Flow <u>25</u> | <input type="checkbox"/> Hourly Standby | T-Out <u>2033</u> |
| (F) Second Final Flow <u>25</u> | <input type="checkbox"/> Mileage <u>111 RT</u> 172.05 | Comments |
| (G) Final Shut-In <u>42</u> | <input type="checkbox"/> Sampler | |
| (H) Final Hydrostatic <u>2142</u> | <input type="checkbox"/> Straddle | <input type="checkbox"/> Ruined Shale Packer |
| | <input type="checkbox"/> Shale Packer | <input type="checkbox"/> Ruined Packer |
| Initial Open <u>30</u> | <input type="checkbox"/> Extra Packer | <input type="checkbox"/> Extra Copies |
| Initial Shut-In <u>30</u> | <input type="checkbox"/> Extra Recorder | Sub Total <u>0</u> |
| Final Flow <u>30</u> | <input type="checkbox"/> Day Standby | Total <u>1747.05</u> |
| Final Shut-In <u>30</u> | <input type="checkbox"/> Accessibility | MP/DST Disc't |
| | Sub Total <u>1747.05</u> | |

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53245

Well Name & No. McNinch Unit #1 Test No. 2 Date 6/12/13
 Company John O. Farmer, Inc Elevation 2465 KB 2458 GL
 Address P.O. Box 352 Russell, ks 67665
 Co. Rep / Geo. Austin Klaus Rig Discovery #3
 Location: Sec. 2 Twp. 17s Rge. 25w Co. Ness State Ks

Interval Tested 4402 - 4446 Zone Tested Mississippian
 Anchor Length 44 Drill Pipe Run 4372 Mud Wt. 9.4
 Top Packer Depth 4397 Drill Collars Run 30 Vis 56
 Bottom Packer Depth 4402 - 4446 stop Wt. Pipe Run 0 WL 9.9
 Total Depth 4500 Chlorides 5,000 ppm System LCM 1/2

Blow Description IFI: 3 1/2" blow.
ISI: No return.
FF: 1" blow
FSI: No return.

| Rec | Feet of | %gas | %oil | %water | %mud |
|-----------|-------------|------------|------|-----------|------|
| <u>20</u> | <u>oil</u> | <u>100</u> | | | |
| <u>60</u> | <u>SOCM</u> | <u>5</u> | | <u>95</u> | |
| | | | | | |
| | | | | | |
| | | | | | |

Rec Total 80 BHT 125 Gravity 37 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2331 Test 1250 T-On Location 1510
 (B) First Initial Flow 50 Jars 250 T-Started 1539
 (C) First Final Flow 63 Safety Joint 75 T-Open 1736
 (D) Initial Shut-In 609 Circ Sub N/C T-Pulled 2036
 (E) Second Initial Flow 67 Hourly Standby T-Out 2253
 (F) Second Final Flow 74 Mileage 111 AT 172.05
 (G) Final Shut-In 372 Sampler
 (H) Final Hydrostatic 2214 Straddle 600

Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Initial Open 30
 Initial Shut-In 30
 Final Flow 60
 Final Shut-In 60
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility
 Sub Total 2347.05
 Sub Total 0
 Total 2347.05
 MP/DST Disc't

Approved By _____

Our Representative [Signature]

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