



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1088622
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: _____

1088622

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> _____ <i>(Submit ACO-4)</i> | PRODUCTION INTERVAL: _____ _____ |
|--|---|---|

| | |
|-----------|------------------------|
| Form | ACO1 - Well Completion |
| Operator | RJM Company |
| Well Name | Doll 2 |
| Doc ID | 1088622 |

Perforations

| Shots Per Foot | Perforation Record | Material Record | Depth |
|----------------|--------------------|-----------------|-------|
| 6 | 3070-3080 | 650 15% acid | |
| 6 | 3091-3095 | 500 15% acid | |
| 6 | 3125-3127 | 750 15% acid | |
| 6 | 3108-3116 | 650 15% acid | |
| 6 | 3125-3127 | 500 15% acid | |
| 6 | 3136-3142 | 750 15% acid | |
| 6 | 3145-3147 | 200 15% acid | |

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. 985

| | | | | | | | | | | | | | | | |
|---------------------|--------------------|------------|------------|------|--|-------|------------------------------------|--------|--------|-------|--------|-------------|--|--------|---------|
| Date | 7-2-12 | Sec. | 27 | Twp. | 18 | Range | 11 | County | Barber | State | Kansas | On Location | | Finish | 10:00am |
| Lease | Dell | Well No. | 2 | | Location | | Clarks 45 SE | | | | | | | | |
| Contractor | Royal Drilling Rig | | | | Owner | | To Quality Oilwell Cementing, Inc. | | | | | | | | |
| Type Job | Surface | | | | 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. | 278 | | Charge To | | KSM | | | | | | | | |
| Csg. | 88 | Depth | 278 | | 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. | 10-15 | Shoe Joint | | | Cement Amount Ordered | | 180 Common Cell 25/100 | | | | | | | | |
| Meas Line | | Displace | 16 3/8 (B) | | | | | | | | | | | | |

EQUIPMENT

| | | | | | |
|---------|---|-----|----------|-------|----------|
| Pumptrk | 5 | No. | Cementor | Stacy | Common |
| | | | Helper | | |
| Bulktrk | 8 | No. | Driver | Bob | Poz. Mix |
| | | | Driver | | |
| Bulktrk | | No. | Driver | Leidy | Gel. |
| | | | Driver | | |

JOB SERVICES & REMARKS

| | |
|--------------------|-------------------------|
| Remarks: | Hulls |
| Rat Hole | Salt |
| Mouse Hole | Flowseal |
| Centralizers | Kol-Seal |
| Baskets | Mud CLR 48 |
| D/V or Port Collar | CFL-117 or CD110 CAF 38 |
| | Sand |
| | Handling |
| | Mileage |

FLOAT EQUIPMENT

| | |
|--|----------------|
| | Guide Shoe |
| | Centralizer |
| | Baskets |
| | AFU Inserts |
| | Float Shoe |
| | Latch Down |
| | Surge |
| | Pumptrk Charge |
| | Mileage |

| | |
|--|--------------|
| <input checked="" type="checkbox"/> Signature <i>Doug Buss</i> | Tax |
| | Discount |
| | Total Charge |

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 905

Cell 785-324-1041

| | | | | | | | | | | | | | | | |
|---------------------|---------------|------|------------|----------|----|--|----|--------|--------|-------|----|-------------|--|--------|---------|
| Date | 7-9-12 | Sec. | 27 | Twp. | 18 | Range | 11 | County | Barton | State | Ks | On Location | | Finish | 11:00PM |
| Lease | Doll | | Well No. | 2 | | Location Clifton, Ks - 5 to 60 Rd, 1/8 E | | | | | | | | | |
| Contractor | Royal #1 | | | | | Owner N/Info | | | | | | | | | |
| Type Job | Production | | | | | 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 | 7 7/8" | | T.D. | 3430' | | Charge To RSM Company | | | | | | | | | |
| Csg. | 5 1/2" 15.50' | | Depth | 3420.43' | | Street | | | | | | | | | |
| Tbg. Size | | | Depth | | | City | | | | | | | | | |
| Tool | | | Depth | | | State | | | | | | | | | |
| Cement Left in Csg. | 21.36 | | Shoe Joint | 2136' | | The above was done to satisfaction and supervision of owner agent or contractor. | | | | | | | | | |
| Meas Line | | | Displace | 81 BLS | | Cement Amount Ordered 180 sx Common 10% Salt 5% | | | | | | | | | |

EQUIPMENT

| | | | | | |
|---------|------|-----|----------|--------|----------------------------------|
| Pumptrk | 9 | No. | Cementer | Travis | Gilsonite - 500 gal mud clear 48 |
| | | | Helper | | Common |
| Bulktrk | 8 | No. | Driver | Cody | Poz. Mix |
| | | | Driver | | |
| Bulktrk | pin. | No. | Driver | Rick | Gel. |
| | | | Driver | | |

JOB SERVICES & REMARKS

| | |
|--------------------|-------------------------------|
| Remarks: | Hulls |
| Rat Hole | Salt |
| Mouse Hole | Flowseal |
| Centralizers | 1-9 |
| Baskets | 2, 6 |
| D/V or Port Collar | pipe on bottom, break |
| | Circulation pump 500 gal |
| | mud clear 48, plug Kathole w/ |
| | 30 sx plug, misc hole w/ 155 |
| | hook to 5' casing + mix |
| | 135 sx cement, shut down |
| | wash pump + lines, Release |
| | plug + displaced with 818 |
| | of water. Released + float |
| | held. |

FLOAT EQUIPMENT

| | |
|-------------|------------------|
| Guide Shoe | 1 |
| Centralizer | 9 turbos |
| Baskets | 2 |
| AFU Inserts | 1 |
| Float Shoe | |
| Latch Down | |
| | 1- Rotating head |
| | 1- Rubber plug |

| | | | |
|---------------|--------|----------------|--|
| Lift pressure | 700 # | Pumptrk Charge | |
| Land plug to | 1000 # | Mileage | |
| | | Tax | |
| | | Discount | |
| | | Total Charge | |

X Signature *Doug Budy*

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

Sam Brownback, Governor

September 07, 2012

Chris Hoffman
RJM Company
PO BOX 256
CLAFLIN, KS 67525-0256

Re: ACO1
API 15-009-25700-00-00
Doll 2
SW/4 Sec.27-18S-11W
Barton 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,
Chris Hoffman



DRILL STEM TEST REPORT

Prepared For: **RJM COMPANY**

PO BOX 256
CLAFIN KS 67525

ATTN: JIM

DOLL #2

27-18S-11W

Start Date:

End Date: 1899.12.30 @ 05:36:30

Job Ticket #: 17778 DST #: 1

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2012.07.11 @ 10:06:12

RJM COMPANY
27-18S-11W
DOLL #2
DST # 1
LANS KS



DRILL STEM TEST REPORT

RJM COMPANY

27-18S-11W

PO BOX 256
CLAFIN KS 67525

DOLL #2

Job Ticket: 17778

DST#: 1

ATTN: JIM

Test Start:

GENERAL INFORMATION:

Formation: **LANS KS**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:04:30

Time Test Ended: 05:36:30

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 3335 46 MRT

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

Reference Elevations: 1796.00 ft (KB)

Total Depth: 3154.00 ft (KB) (TVD)

1791.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8524

Inside

Press @ Run Depth: 866.61 psia @ 3150.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.07.11

End Date:

2012.07.11

Last Calib.:

2012.07.11

Start Time:

08:13:13

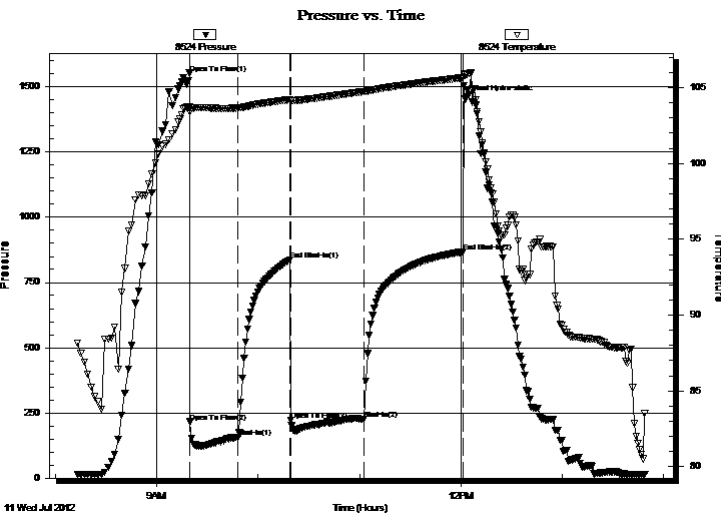
End Time:

13:48:43

Time On Btm:

Time Off Btm: 2012.07.11 @ 12:02:43

TEST COMMENT: 30-INITIAL OPENING STRONG BLOW BOTTOM BUCKET IN 20 SEC GAS TO SURFACE IN 5 MINS
30-INITIAL SHUT IN WEAK BLOW BACK
45-FINAL OPENING STRONG BLOW BOTTOM BUCKET IN 10 SEC
60-FINAL SHUT IN WEAK BLOW BACK



PRESSURE SUMMARY

| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|--------------------|
| 0 | 1552.17 | 103.73 | Open To Flow (1) |
| 1 | 215.86 | 103.41 | Open To Flow (2) |
| 29 | 157.73 | 103.67 | Shut-In(1) |
| 60 | 836.23 | 104.22 | End Shut-In(1) |
| 60 | 221.01 | 104.12 | Open To Flow (3) |
| 104 | 226.23 | 104.75 | Shut-In(2) |
| 162 | 866.61 | 105.66 | End Shut-In(2) |
| 164 | 1452.66 | 105.84 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--|--------------|
| 90.00 | HEAVY MUD SLIGHT SHOW OF OIL 95% 1.32% OIL | |
| 420.00 | GASSY OIL 30% GAS 70% OIL | 6.14 |
| | | |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psia) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.50 | 3.00 | 20.24 |
| Last Gas Rate | 0.25 | 10.00 | 15.86 |
| Max. Gas Rate | 0.25 | 11.00 | 17.45 |



DRILL STEM TEST REPORT

RJM COMPANY

27-18S-11W

PO BOX 256
CLAFIN KS 67525

DOLL #2

Job Ticket: 17778

DST#: 1

ATTN: JIM

Test Start:

GENERAL INFORMATION:

Formation: **LANS KS**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:04:30

Time Test Ended: 05:36:30

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 3335 46 MRT

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

Reference Elevations: 1796.00 ft (KB)

Total Depth: 3154.00 ft (KB) (TVD)

1791.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 91716 Outside

Press @ RunDepth: 854.69 psia @ 3151.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.07.11

End Date:

2012.07.11

Last Calib.:

2012.07.11

Start Time:

08:18:13

End Time:

14:06:43

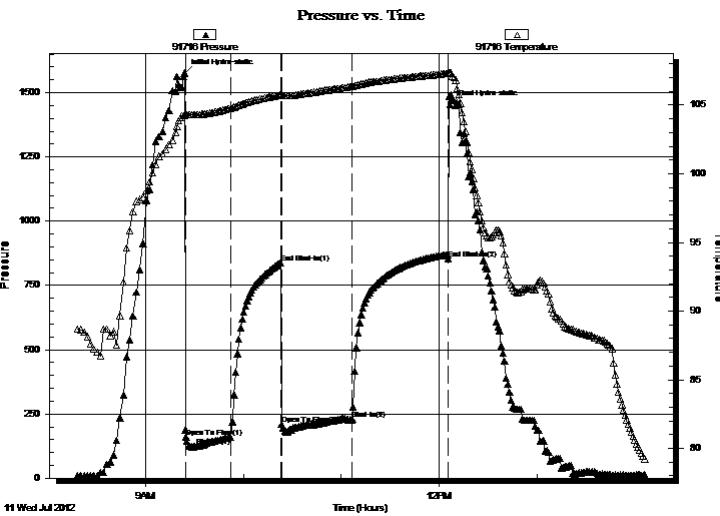
Time On Btm:

2012.07.11 @ 09:23:43

Time Off Btm:

2012.07.11 @ 12:06:43

TEST COMMENT: 30-INITIAL OPENING STRONG BLOW BOTTOM BUCKET IN 20 SEC GAS TO SURFACE IN 5 MINS
30-INITIAL SHUT IN WEAK BLOW BACK
45-FINAL OPENING STRONG BLOW BOTTOM BUCKET IN 10 SEC
60-FINAL SHUT IN WEAK BLOW BACK



PRESSURE SUMMARY

| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1575.87 | 104.27 | Initial Hydro-static |
| 1 | 160.03 | 104.31 | Open To Flow (1) |
| 29 | 158.55 | 104.78 | Shut-In(1) |
| 59 | 838.39 | 105.75 | End Shut-In(1) |
| 60 | 209.92 | 105.75 | Open To Flow (2) |
| 103 | 228.53 | 106.37 | Shut-In(2) |
| 162 | 854.69 | 107.30 | End Shut-In(2) |
| 163 | 1454.65 | 107.38 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--|--------------|
| 90.00 | HEAVY MUD SLIGHT SHOW OF OIL 95% 1.32% OIL | |
| 420.00 | GASSY OIL 30% GAS 70% OIL | 6.14 |
| | | |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psia) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.50 | 3.00 | 20.24 |
| Last Gas Rate | 0.25 | 10.00 | 15.86 |
| Max. Gas Rate | 0.25 | 11.00 | 17.45 |



DRILL STEM TEST REPORT

TOOL DIAGRAM

RJM COMPANY

27-18S-11W

PO BOX 256
CLAFIN KS 67525

DOLL #2

Job Ticket: 17778

DST#: 1

ATTN: JIM

Test Start:

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3036.00 ft | Diameter: 3.88 inches | Volume: 44.40 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 20000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight to Pull Loose: 45000.00 lb |
| | | | <u>Total Volume: 44.40 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 1.00 ft | | | String Weight: Initial 37000.00 lb |
| Depth to Top Packer: | 3055.00 ft | | | Final 38000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 99.00 ft | | | |
| Tool Length: | 119.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Shut-In Tool | 5.00 | | | 3040.00 | |
| Hydraulic Tool | 5.00 | | | 3045.00 | |
| Packer | 5.00 | | | 3050.00 | 20.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3055.00 | |
| Perforations | 4.00 | | | 3059.00 | |
| Change Over Sub | 0.75 | | | 3059.75 | |
| Drill Pipe | 62.50 | | | 3122.25 | |
| Change Over Sub | 0.75 | | | 3123.00 | |
| Perforations | 26.00 | | | 3149.00 | |
| Recorder | 1.00 | 8524 | Inside | 3150.00 | |
| Recorder | 1.00 | 91716 | Outside | 3151.00 | |
| Bull Plug | 3.00 | | | 3154.00 | 99.00 Bottom Packers & Anchor |

Total Tool Length: 119.00



DRILL STEM TEST REPORT

FLUID SUMMARY

RJM COMPANY

27-18S-11W

PO BOX 256
CLAFIN KS 67525

DOLL #2

Job Ticket: 17778

DST#: 1

ATTN: JIM

Test Start:

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: 55.00 sec/qt

Cushion Volume: bbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psia

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------------------------------|---------------|
| 90.00 | HEAVY MUD SLIGHT SHOW OF OIL 95%M 5% | 1.316 |
| 420.00 | GASSY OIL 30%GAS 70%OIL | 6.142 |

Total Length: 510.00 ft Total Volume: 7.458 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

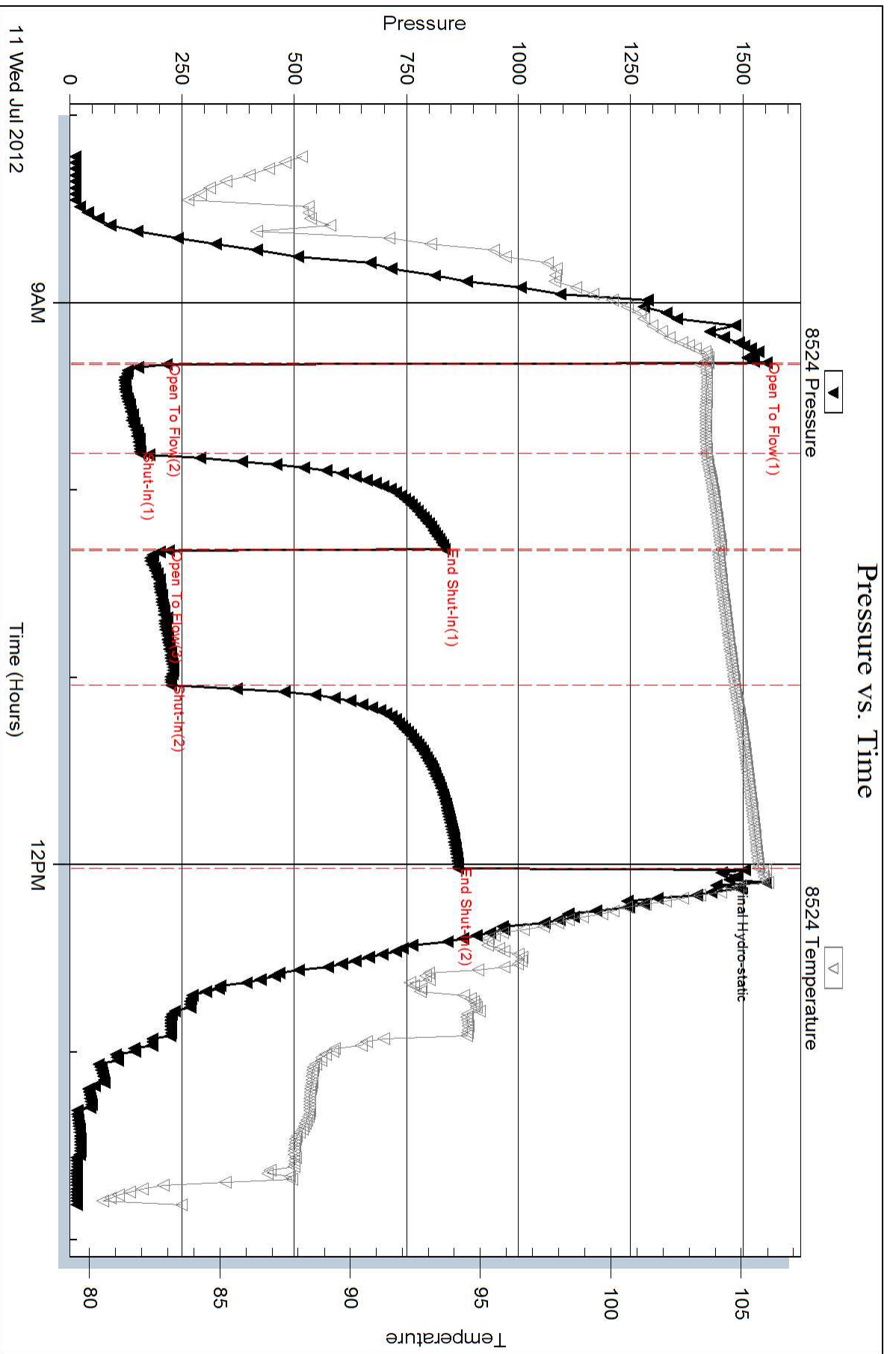
Serial #: 8524

Inside

RJM COMPANY

DOLL #2

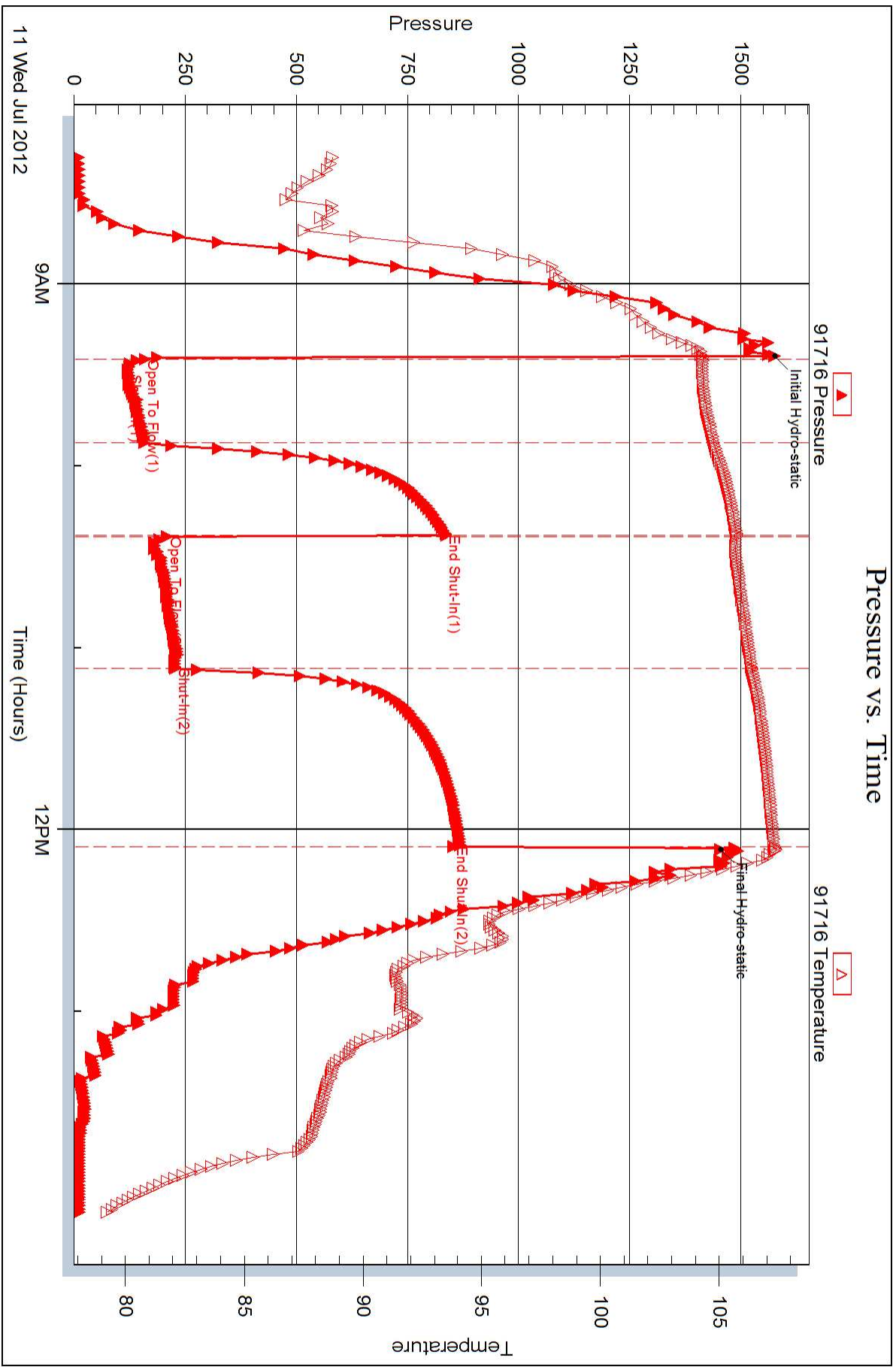
DST Test Number: 1



Superior Testers Enterprises LLC

Ref. No: 17778

Printed: 2012.07.11 @ 10:06:13





DRILL STEM TEST REPORT

Prepared For: **RJM COMPANY**

PO BOX 256
CLAFIN KS 67525

ATTN: JIM

DOLL #2

27-18S-11W

Start Date: 2012.07.11 @ 08:12:11

End Date: 2012.07.11 @ 03:30:19

Job Ticket #: 17780 DST #: 2

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2012.07.11 @ 10:04:31

RJM COMPANY
27-18S-11W
DOLL #2
DST # 2
LAN KC
2012.07.11



DRILL STEM TEST REPORT

RJM COMPANY

27-18S-11W

PO BOX 256
CLAFIN KS 67525

DOLL #2

Job Ticket: 17780

DST#: 2

ATTN: JIM

Test Start: 2012.07.11 @ 08:12:11

GENERAL INFORMATION:

Formation: **LAN KC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:19:49

Time Test Ended: 03:30:19

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 3335

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

Total Depth: 3300.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1796.00 ft (KB)

1791.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8524 Inside

Press @ RunDepth: 87.96 psia @ 3296.00 ft (KB)

Start Date: 2012.07.08

End Date: 2012.07.09

Start Time: 23:07:49

End Time: 03:30:19

Capacity: 5000.00 psia

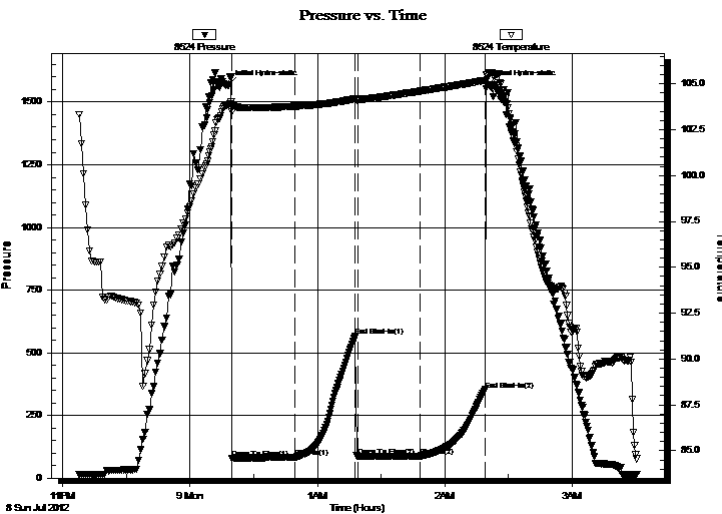
Last Calib.: 2012.07.08

Time On Btm: 2012.07.09 @ 00:18:19

Time Off Btm: 2012.07.09 @ 02:20:19

TEST COMMENT: 30-INITIAL OPENING VERY WEAK BLOW
30-INITIAL SHUT IN NO BLOW BACK
30-FINAL OPENING VERY WEAK BLOW
30-FINAL SHUT-IN NO BLOW BACK

PRESSURE SUMMARY



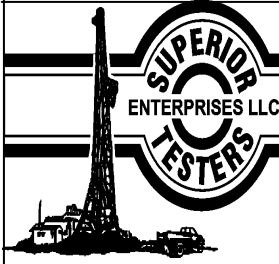
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1568.01 | 103.87 | Initial Hydro-static |
| 2 | 79.40 | 103.47 | Open To Flow (1) |
| 32 | 82.61 | 103.77 | Shut-In(1) |
| 60 | 567.13 | 104.18 | End Shut-In(1) |
| 61 | 86.76 | 104.15 | Open To Flow (2) |
| 91 | 87.96 | 104.60 | Shut-In(2) |
| 121 | 352.70 | 105.19 | End Shut-In(2) |
| 122 | 1571.19 | 105.56 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 30.00 | MUD 100%MUD | 0.44 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



DRILL STEM TEST REPORT

RJM COMPANY
 PO BOX 256
 CLAFIN KS 67525
 ATTN: JIM

27-18S-11W
DOLL #2
 Job Ticket: 17780 **DST#: 2**
 Test Start: 2012.07.11 @ 08:12:11

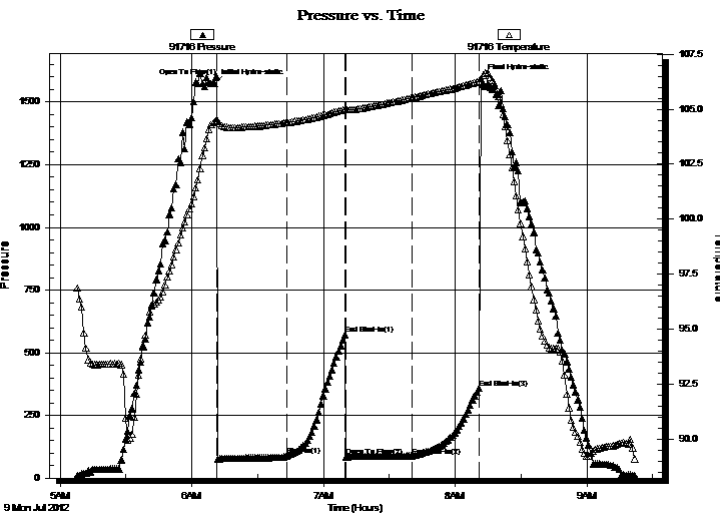
GENERAL INFORMATION:

Formation: **LAN KC**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:19:49
 Time Test Ended: 03:30:19
 Interval: **ft (KB) To ft (KB) (TVD)**
 Total Depth: 3300.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: DAVID NICHOLS
 Unit No: 3335
 Reference Elevations: 1796.00 ft (KB)
 1791.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 91716 Outside

Press @ Run Depth: 358.35 psia @ 3297.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.07.09 End Date: 2012.07.09 Last Calib.: 2012.07.11
 Start Time: 05:07:49 End Time: 09:21:49 Time On Btm: 2012.07.09 @ 06:10:19
 Time Off Btm: 2012.07.09 @ 08:11:49

TEST COMMENT: 30-INITIAL OPENING VERY WEAK BLOW
 30-INITIAL SHUT IN NO BLOW BACK
 30-FINAL OPENING VERY WEAK BLOW
 30-FINAL SHUT-IN NO BLOW BACK



PRESSURE SUMMARY

| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1573.13 | 104.42 | Initial Hydro-static |
| 1 | 1602.33 | 104.46 | Open To Flow (1) |
| 33 | 89.45 | 104.39 | Shut-In(1) |
| 60 | 572.93 | 104.98 | End Shut-In(1) |
| 60 | 85.56 | 105.01 | Open To Flow (2) |
| 90 | 88.81 | 105.51 | End Shut-In(2) |
| 121 | 358.35 | 106.26 | End Shut-In(3) |
| 122 | 1594.51 | 106.40 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 30.00 | MUD 100%MUD | 0.44 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RJM COMPANY

27-18S-11W

PO BOX 256
CLAFIN KS 67525

DOLL #2

Job Ticket: 17780

DST#: 2

ATTN: JIM

Test Start: 2012.07.11 @ 08:12:11

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3171.00 ft | Diameter: 3.88 inches | Volume: 46.37 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 20000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight to Pull Loose: 45000.00 lb |
| | | | <u>Total Volume: 46.37 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 1.00 ft | | | String Weight: Initial 37000.00 lb |
| Depth to Top Packer: | 3190.00 ft | | | Final 37000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 110.00 ft | | | |
| Tool Length: | 130.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |
| Tool Comments: | | | | |

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

| | | | | | |
|-----------------|-------|-------|---------|---------|--------------------------------|
| Shut-In Tool | 5.00 | | | 3175.00 | |
| Hydraulic Tool | 5.00 | | | 3180.00 | |
| Packer | 5.00 | | | 3185.00 | 20.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3190.00 | |
| Perforations | 4.00 | | | 3194.00 | |
| Change Over Sub | 0.75 | | | 3194.75 | |
| Drill Pipe | 62.50 | | | 3257.25 | |
| Change Over Sub | 0.75 | | | 3258.00 | |
| Perforations | 37.00 | | | 3295.00 | |
| Recorder | 1.00 | 8524 | Inside | 3296.00 | |
| Recorder | 1.00 | 91716 | Outside | 3297.00 | |
| Bull Plug | 3.00 | | | 3300.00 | 110.00 Bottom Packers & Anchor |

Total Tool Length: 130.00



DRILL STEM TEST REPORT

FLUID SUMMARY

RJM COMPANY

27-18S-11W

PO BOX 256
CLAFIN KS 67525

DOLL #2

Job Ticket: 17780

DST#: 2

ATTN: JIM

Test Start: 2012.07.11 @ 08:12:11

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: 64.00 sec/qt

Cushion Volume: bbl

Water Loss: 11.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psia

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 30.00 | MUD 100%MUD | 0.439 |

Total Length: 30.00 ft Total Volume: 0.439 bbl

Num Fluid Samples: 0

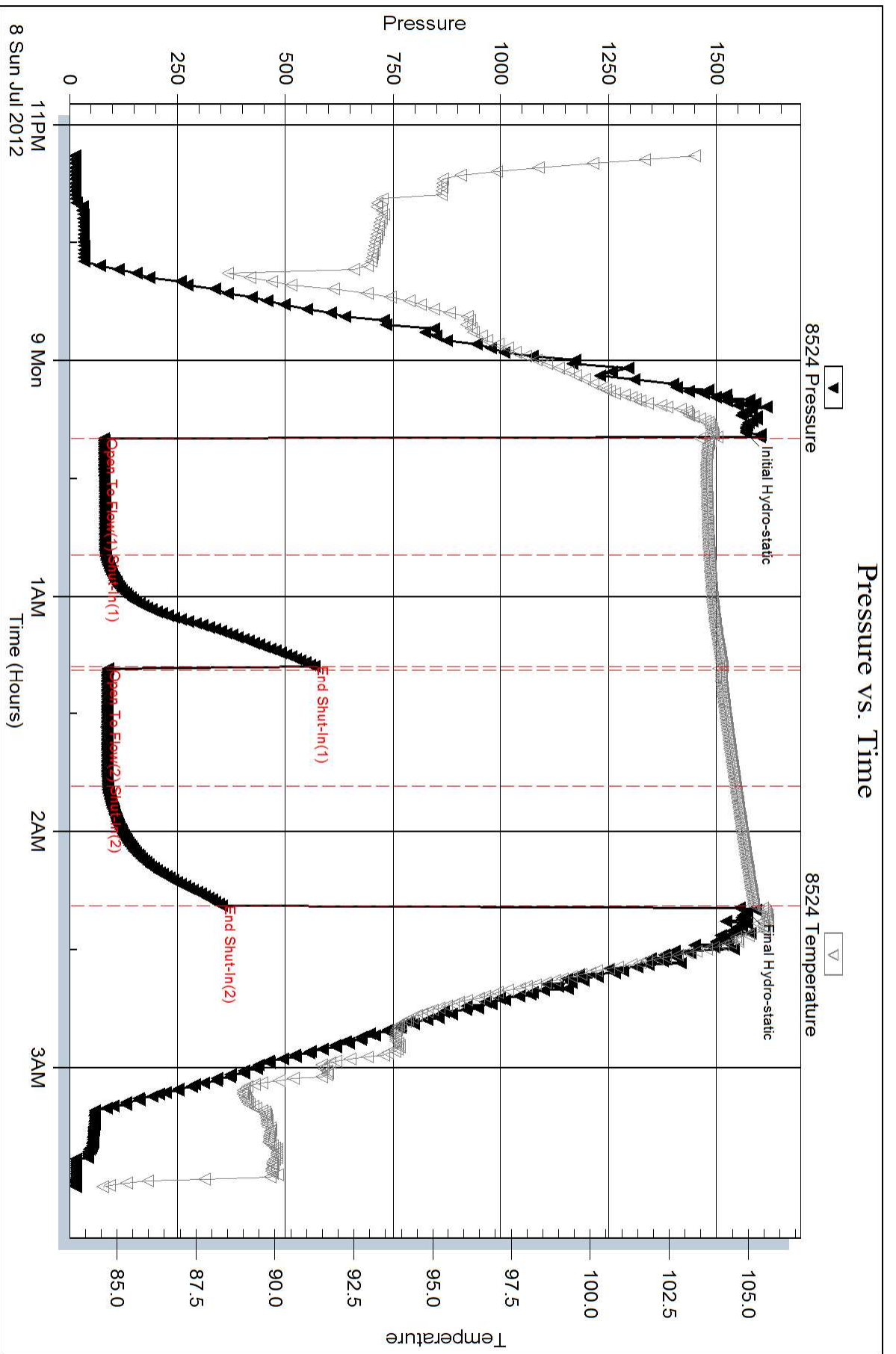
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Pressure vs. Time

