



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1087995  
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<br>Recompletion Date | Date Reached TD | Completion Date or<br>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: \_\_\_\_\_

1087995

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](mailto: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<br><i>(Attach Additional Sheets)</i><br><br>Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>List All E. Logs Run: _____ | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample<br><br>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<br><input type="checkbox"/> Protect Casing<br><input type="checkbox"/> Plug Back TD<br><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<br>Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record<br><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:<br><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 |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
|                                   |           |         |             |               |         |

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



**CONSOLIDATED**  
Oil Well Services, L.L.C.

**ENTERED**

TICKET NUMBER 36400 ✓  
LOCATION Eureka  
FOREMAN Rick Ledford

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

API # 15-035-24471

| DATE  | CUSTOMER # | WELL NAME & NUMBER | SECTION  | TOWNSHIP | RANGE | COUNTY |         |        |         |        |     |      |  |  |     |          |  |  |
|---|------------|--------------------|--|----------|-------|--------|---------|--------|---------|--------|-----|------|--|--|-----|----------|--|--|
| 4/8/12  | 21800      | Massey #5-1        | 5  | 33S      | 8E    | Cowley |         |        |         |        |     |      |  |  |     |          |  |  |
| CUSTOMER<br><u>Comanche Resources Company</u>         |            |                    | <table border="1"> <thead> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td>520</td> <td>John</td> <td></td> <td></td> </tr> <tr> <td>667</td> <td>Chris B.</td> <td></td> <td></td> </tr> </tbody> </table> |          |       |        | TRUCK # | DRIVER | TRUCK # | DRIVER | 520 | John |  |  | 667 | Chris B. |  |  |
| TRUCK #   | DRIVER     | TRUCK #            |  |          |       |        | DRIVER  |        |         |        |     |      |  |  |     |          |  |  |
| 520   | John       |                    |  |          |       |        |         |        |         |        |     |      |  |  |     |          |  |  |
| 667   | Chris B.   |                    |  |          |       |        |         |        |         |        |     |      |  |  |     |          |  |  |
| MAILING ADDRESS<br><u>6520 N. Western Ave ste 300</u> |            |                    |  |          |       |        |         |        |         |        |     |      |  |  |     |          |  |  |
| CITY<br><u>Oklahoma City</u>                          |            | STATE<br><u>OK</u> | ZIP CODE<br><u>73116</u>   |          |       |        |         |        |         |        |     |      |  |  |     |          |  |  |

JOB TYPE surface HOLE SIZE 12 1/4" HOLE DEPTH 489' CASING SIZE & WEIGHT 8 5/8" ncu  
 CASING DEPTH 428.72 GL DRILL PIPE TUBING OTHER  
 SLURRY WEIGHT 15" SLURRY VOL 60 Bbl WATER gal/ok 6.5 CEMENT LEFT in CASING 43.24 ST  
 DISPLACEMENT 28.4 Bbl DISPLACEMENT PSI 400 ~~PSI~~ 400" shut in RATE 5 BPM

REMARKS: Safety meeting - Rig up to 8 5/8" casing. Break circulation w/ 10 Bbl fresh water. Mixed 250 sacks class A cement w/ 370 cacl2, 220 gal + 44" floccle/sk @ 15"/gal. Displace w/ 28.4 Bbl fresh water. Shut casing in w/ good cement returns to surface @ 12 Bbl slurry to pit. Job complete. Rig down.

"Thank You"

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE      | TOTAL   |
|--------------|-------------------|------------------------------------|-----------------|---------|
| 54015        | 1                 | PUMP CHARGE                        | 825.00          | 825.00  |
| 5406         | 70                | MILEAGE                            | 4.00            | 280.00  |
| 11043        | 250 sacks         | class A cement                     | 14.95           | 3737.50 |
| 1102         | 705"              | 370 cacl2                          | .74             | 521.70  |
| 11188        | 470"              | 220 gal                            | .21             | 98.70   |
| 1107         | 62"               | 44" floccle/sk                     | 2.35            | 145.70  |
| 5407A        | 11.75             | tan mileage bulk trk               | 1.34            | 1102.15 |
| 4205         | 1                 | 8 5/8" Texas Pattern Guide Shoe    | 236.00          | 236.00  |
| 4229         | 1                 | 8 5/8" AFU insert flopper valve    | 248.00          | 248.00  |
| 4432         | 1                 | 8 5/8" wooden plug                 | 80.00           | 80.00   |
|              |                   |                                    | Subtotal        | 7274.75 |
|              |                   |                                    | 6.8% SALES TAX  | 344.60  |
|              |                   |                                    | ESTIMATED TOTAL | 7619.35 |

Form 9737

AUTHORIZATION Michael Jones TITLE 248884 DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



**CONSOLIDATED**  
Oil Well Services, LLC



**ENTERED**

TICKET NUMBER 34572  
LOCATION EUREKA  
FOREMAN Kevin McCoy

PO Box 884, Chanute, KS 66720  
820-431-9210 or 800-467-8678

**FIELD TICKET & TREATMENT REPORT**

**CEMENT API # 15-0.35-24471**

**KS**

| DATE  | CUSTOMER # | WELL NAME & NUMBER | SECTION               | TOWNSHIP        | RANGE   | COUNTY |
|---|------------|--------------------|-----------------------|-----------------|---------|--------|
| 4-17-12   | 2125       | Massey # 5-1       | 5                     | 335             | 8E      | Cowley |
| CUSTOMER<br><i>Comanche Resources Company</i>         |            |                    | C&E<br>DR19.<br>Rig 2 |                 |         |        |
| MAILING ADDRESS<br><i>6520 N. Western Ave Ste 300</i> |            |                    | TRUCK #               | DRIVER          | TRUCK # | DRIVER |
| CITY<br><i>OKLAHOMA City</i>                          |            |                    | <i>520</i>            | <i>John S.</i>  |         |        |
| STATE<br><i>OK</i>                                    |            |                    | <i>515</i>            | <i>Calin H.</i> |         |        |
| ZIP CODE<br><i>73116</i>                              |            |                    | <i>637</i>            | <i>Chris B.</i> |         |        |

JOB TYPE Longstring HOLE SIZE 7 7/8" HOLE DEPTH 3270' KB CASING SIZE & WEIGHT 5 1/2 15.50 # New  
 CASING DEPTH 2884.56 G.L. DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 13.7 # SLURRY VOL 33 BBL WATER gal/sk 9.0 CEMENT LEFT IN CASING 3' Packer shoe  
 DISPLACEMENT 68.8 BBL DISPLACEMENT PSI 700 PSI/200 Bump Plug Rate 5 BPM

REMARKS: Safety Meeting: Rig up to 5 1/2 casing. Drop trip ball. wait 10 mins. Set Packer shoe @ 900 psi. Pump 12 BBL Silt Suspender Pro Flush, 5 BBL water spacer, 10 BBL Caustic Soda Flush, 5 BBL water spacer. Mixed 105 sks THICK Set Cement w/ 5" Kol-Seal/sk @ 13.7 #/gal, yield 1.75 = 33 BBL slurry. Shut down. wash out Pump & Lines. Release Plug. Displace Plug to Seat w/ 68.8 BBL Fresh water. FINAL Pumping Pressure 700 psi. Bump Plug to 1200 psi. wait 2 mins. Release Pressure. Float Held. Good Circulation @ ALL times while Cementing. Job Complete. Rig down.

Centralizers on #1, 3, 5, 7, 12, 14  
Basket on top of #3

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE      | TOTAL   |
|--------------|-------------------|------------------------------------|-----------------|---------|
| 5401         | 1                 | PUMP CHARGE                        | 1030.00         | 1030.00 |
| 5406         | 70                | MILEAGE                            | 4.00            | 280.00  |
| 5402         | 1384'             | Footage charge                     | .22'            | 304.48  |
| 1126 A       | 105 sks           | THICK Set Cement                   | 19.20           | 2016.00 |
| 1110 A       | 525 #             | Kol-Seal 5"/sk                     | .46 #           | 241.50  |
| 1103         | 100 # (10 BBL)    | CAUSTIC SODA                       | 1.61 #          | 161.00  |
| 1143         | 2 gals (12 BBL)   | Silt Suspender Pro Flush           | 40.40           | 80.80   |
| 5407 A       | 5.77 Tons         | 70 miles Bulk Delv.                | 1.34            | 541.23  |
| 5502 c       | 6 HRS             | 80 BBL VAC TRUCK                   | 90.00           | 540.00  |
| 1123         | 3000 gals         | City water                         | 16.50/1000      | 49.50   |
| 4406         | 1                 | 5 1/2 Top Rubber Plug              | 70.00           | 70.00   |
| 4253         | 1                 | 5 1/2 Type "A" Packer shoe         | 1584.00         | 1584.00 |
| 4130         | 6                 | 5 1/2 x 7 7/8 Centralizers         | 48.00           | 288.00  |
| 4104         | 1                 | 5 1/2 Cement Basket                | 229.00          | 229.00  |
| 4306         | 1                 | Thread Lock Kit                    | 30.00           | 30.00   |
|              |                   |                                    | Sub Total       | 7445.51 |
|              |                   | THANK YOU                          | SALES TAX 6.8%  | 322.98  |
|              |                   |                                    | ESTIMATED TOTAL | 7768.49 |

Form 3737

AUTHORIZATION Michay Jones

TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
249148

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

# Sean Deenihan & Saman Sharifaie

## Petroleum Geologist

API #15-035-24471

### GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY Comanche Resources Co., LLC

LEASE Massey #5-1

FIELD Wildcat

LOCATION 510' FSL & 1460' FWL

SEC 5 TWSP 33S RGE 8E

COUNTY Cowley STATE Kansas

CONTRACTOR C&G Rig #2

SPUD 4/7/12 COMP 4/17/12

RTD 3270 LTD 3050' (see remarks)

MUD UP 1400 TYPE MUD Chemical

SAMPLES SAVED FROM 1600' TO RTD

DRILLING TIME KEPT FROM 1600' TO RTD

SAMPLES EXAMINED FROM 1600' TO RTD

GEOLOGICAL SUPERVISION FROM 1700'

REFERENCE WELL Marmik-Jaax #1

#### ELEVATIONS

KB 1058'

DF           

GL 1049'

Measurements Are All  
From Kelly Bushing

#### CASING

CONDUCTOR           

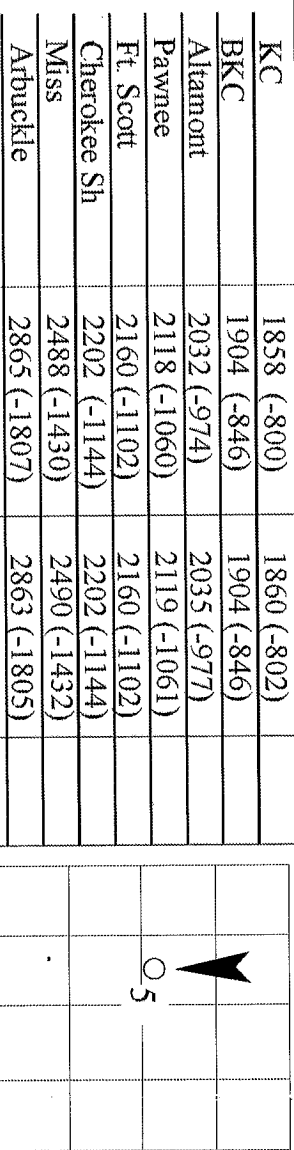
SURFACE 8-5/8" a 490'

PRODUCTION 5.5" 15.5#

#### ELECTRICAL SURVEYS

CND. AIL. MIC  
Sonic, IMAGE  
WEATHERFORD

| Formation   | Sample Tops  | E-log Tops   | Struct Pos. |
|-------------|--------------|--------------|-------------|
| KC          | 1858 (-800)  | 1860 (-802)  |             |
| BKC         | 1904 (-846)  | 1904 (-846)  |             |
| Altamont    | 2032 (-974)  | 2035 (-977)  |             |
| Pawnee      | 2118 (-1060) | 2119 (-1061) |             |
| Ft. Scott   | 2160 (-1102) | 2160 (-1102) |             |
| Cherokee Sh | 2202 (-1144) | 2202 (-1144) |             |
| Miss        | 2488 (-1430) | 2490 (-1432) |             |
| Arbuckle    | 2865 (-1807) | 2863 (-1805) |             |





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Comanche Resources Company

**5/33s/8e Cowley KS**

6520 Western AVE STE 300  
Oklahoma City OK 73116

**Massy #5-1**

Job Ticket: 47473

**DST#: 1**

ATTN: Sean Deenihan

Test Start: 2012.04.10 @ 10:24:14

## GENERAL INFORMATION:

Formation: **Pawnee / Ft Scott**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 13:53:44  
 Time Test Ended: 19:55:14  
 Interval: **2122.00 ft (KB) To 2176.00 ft (KB) (TVD)**  
 Total Depth: 2176.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Kevin Taylor  
 Unit No: 43  
 Reference Elevations: 1055.00 ft (KB)  
 1046.00 ft (CF)  
 KB to GR/CF: 9.00 ft

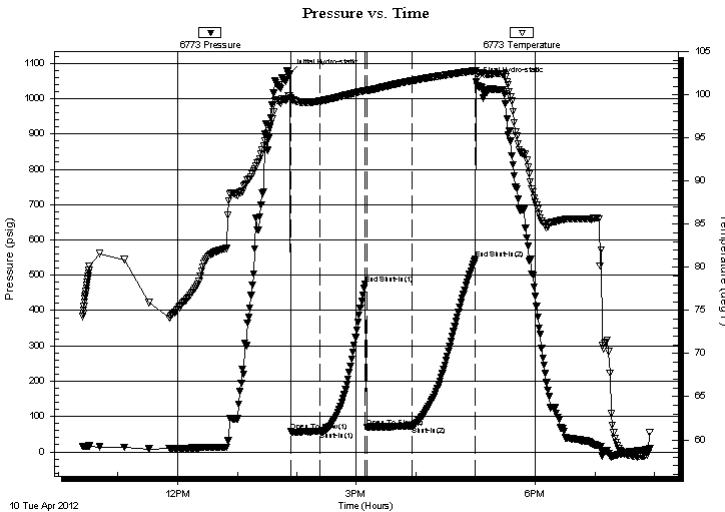
## Serial #: 6773

**Outside**

Press @ Run Depth: 73.65 psig @ 2127.00 ft (KB)  
 Start Date: 2012.04.10 End Date: 2012.04.10  
 Start Time: 10:24:19 End Time: 19:55:14  
 Capacity: 8000.00 psig  
 Last Calib.: 2012.04.10  
 Time On Btm: 2012.04.10 @ 13:53:14  
 Time Off Btm: 2012.04.10 @ 17:00:14

TEST COMMENT: I.F. Weak Blow Built To 4" In 30 Min  
 I.S.I. No Blow  
 F.F. Weak Blow Building To 6 1/4" In 45 Min  
 F.S.I. No Blow

## PRESSURE SUMMARY



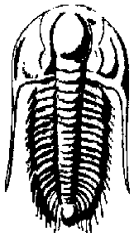
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1070.56         | 99.85        | Initial Hydro-static |
| 1           | 58.54           | 99.63        | Open To Flow (1)     |
| 30          | 58.81           | 99.26        | Shut-In(1)           |
| 76          | 475.79          | 100.48       | End Shut-In(1)       |
| 78          | 68.84           | 100.48       | Open To Flow (2)     |
| 123         | 73.65           | 101.62       | Shut-In(2)           |
| 187         | 545.83          | 102.78       | End Shut-In(2)       |
| 187         | 1047.20         | 102.82       | Final Hydro-static   |

## Recovery

| Length (ft) | Description     | Volume (bbl) |
|-------------|-----------------|--------------|
| 37.00       | Oil Spotted Mud | 0.18         |
| 0.00        | 203 GIP         | 0.00         |
|             |                 |              |
|             |                 |              |
|             |                 |              |

## Gas Rates

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



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Comanche Resources Company

**5/33s/8e Cowley KS**

6520 Western AVE STE 300  
Oklahoma City OK 73116

**Massy #5-1**

Job Ticket: 47473

**DST#: 1**

ATTN: Sean Deenihan

Test Start: 2012.04.10 @ 10:24:14

### GENERAL INFORMATION:

Formation: **Pawnee / Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:53:44

Time Test Ended: 19:55:14

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Taylor

Unit No: 43

**Interval: 2122.00 ft (KB) To 2176.00 ft (KB) (TVD)**

Reference Elevations: 1055.00 ft (KB)

Total Depth: 2176.00 ft (KB) (TVD)

1046.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

### Serial #: 6755

Press@RunDepth: psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.10

End Date:

2012.04.10

Last Calib.:

2012.04.10

Start Time: 10:30:33

End Time:

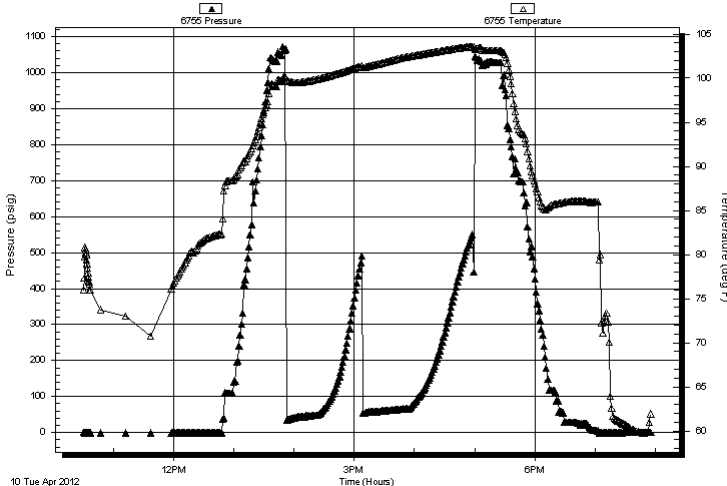
19:55:13

Time On Btm:

Time Off Btm:

TEST COMMENT: I.F. Weak Blow Built To 4" In 30 Min  
I.S.I. No Blow  
F.F. Weak Blow Building To 6 1/4" In 45 Min  
F.S.I. No Blow

Pressure vs. Time



### PRESSURE SUMMARY

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

### Recovery

| Length (ft) | Description     | Volume (bbl) |
|-------------|-----------------|--------------|
| 37.00       | Oil Spotted Mud | 0.18         |
| 0.00        | 203 GIP         | 0.00         |
|             |                 |              |
|             |                 |              |
|             |                 |              |
|             |                 |              |

### Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
|                |                 |                  |
|                |                 |                  |
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**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Comanche Resources Company

**5/33s/8e Cowley KS**

6520 Western AVE STE 300  
Oklahoma City OK 73116

**Massy #5-1**

Job Ticket: 47473

**DST#: 1**

ATTN: Sean Deenihan

Test Start: 2012.04.10 @ 10:24:14

## Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 1898.00 ft | Diameter: 3.80 inches | Volume: 26.62 bbl              | Tool Weight: 2400.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer: 26000.00 lb  |
| Drill Collar:             | Length: 211.00 ft  | Diameter: 2.25 inches | Volume: 1.04 bbl               | Weight to Pull Loose: 45000.00 lb  |
|                           |                    |                       | <u>Total Volume: 27.66 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 16.00 ft           |                       |                                | String Weight: Initial 38000.00 lb |
| Depth to Top Packer:      | 2122.00 ft         |                       |                                | Final 40000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 54.00 ft           |                       |                                |                                    |
| Tool Length:              | 83.00 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         |            |          | 2094.00    |                               |
| Shut In Tool              | 5.00         |            |          | 2099.00    |                               |
| Hydraulic tool            | 5.00         |            |          | 2104.00    |                               |
| Jars                      | 5.00         |            |          | 2109.00    |                               |
| Safety Joint              | 3.00         |            |          | 2112.00    |                               |
| Packer                    | 5.00         |            |          | 2117.00    | 29.00 Bottom Of Top Packer    |
| Packer                    | 5.00         |            |          | 2122.00    |                               |
| Stubb                     | 1.00         |            |          | 2123.00    |                               |
| Perforations              | 3.00         |            |          | 2126.00    |                               |
| Change Over Sub           | 1.00         |            |          | 2127.00    |                               |
| Recorder                  | 0.00         | 6773       | Outside  | 2127.00    |                               |
| Recorder                  | 0.00         | 6766       | Outside  | 2127.00    |                               |
| Drill Pipe                | 31.00        |            |          | 2158.00    |                               |
| Change Over Sub           | 1.00         |            |          | 2159.00    |                               |
| Perforations              | 14.00        |            |          | 2173.00    |                               |
| Bullnose                  | 3.00         |            |          | 2176.00    | 54.00 Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>83.00</b> |            |          |            |                               |





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Comanche Resources Company

**5/33s/8e Cowley KS**

6520 Western AVE STE 300  
Oklahoma City OK 73116

**Massy #5-1**

Job Ticket: 47473

**DST#: 1**

ATTN: Sean Deenihan

Test Start: 2012.04.10 @ 10:24:14

## 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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.00 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

| Length<br>ft | Description    | Volume<br>bbl |
|--------------|----------------|---------------|
| 37.00        | Oil Spoted Mud | 0.182         |
| 0.00         | 203 GIP        | 0.000         |

Total Length: 37.00 ft      Total Volume: 0.182 bbl

Num Fluid Samples: 0

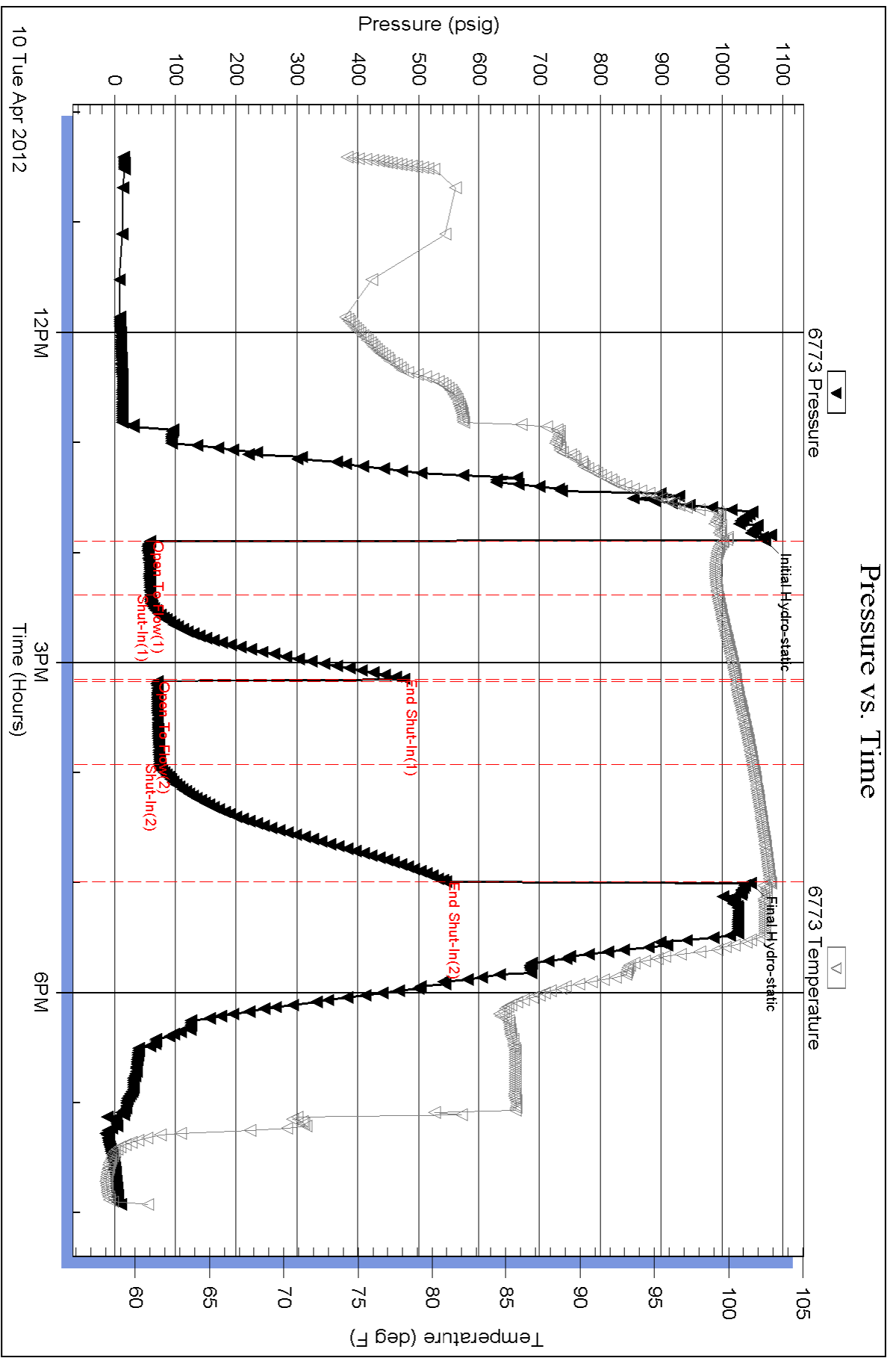
Num Gas Bombs: 0

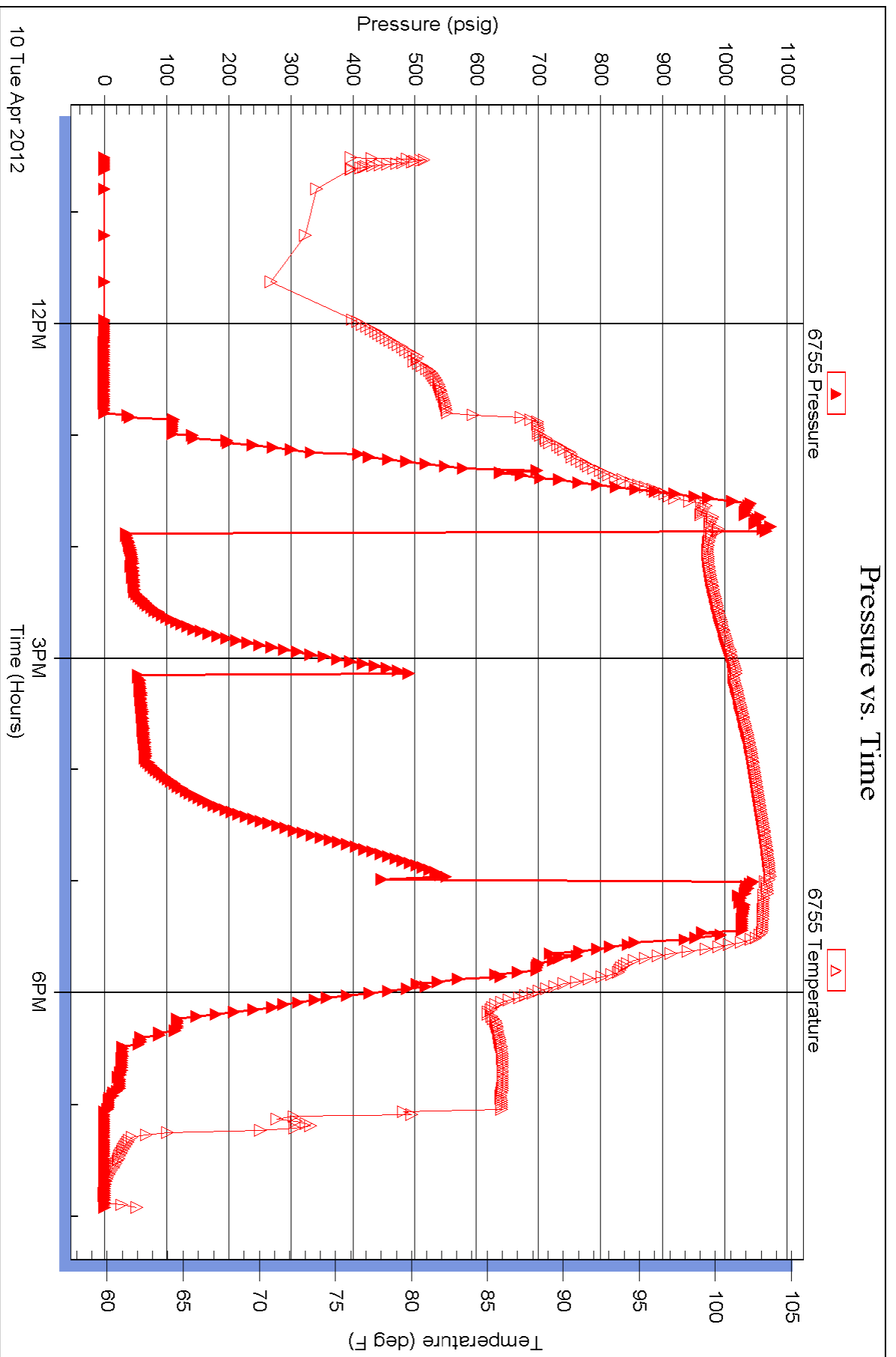
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Comanche Resources Company

**5/33s/8e Cowley KS**

6520 Western AVE STE 300  
Oklahoma City OK 73116

**Massy #5-1**

Job Ticket: 47474

**DST#: 2**

ATTN: Sean Deenihan

Test Start: 2012.04.11 @ 21:26:41

## GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:00:56

Time Test Ended: 08:56:26

Test Type: Conventional Bottom Hole (Reset)

Tester: Kevin Taylor

Unit No: 43

**Interval: 2488.00 ft (KB) To 2510.00 ft (KB) (TVD)**

Reference Elevations: 1055.00 ft (KB)

Total Depth: 2510.00 ft (KB) (TVD)

1046.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 6773 Outside**

Press @ Run Depth: 33.19 psig @ 2489.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.11

End Date:

2012.04.12

Last Calib.:

2012.04.12

Start Time: 21:26:46

End Time:

08:56:26

Time On Btm:

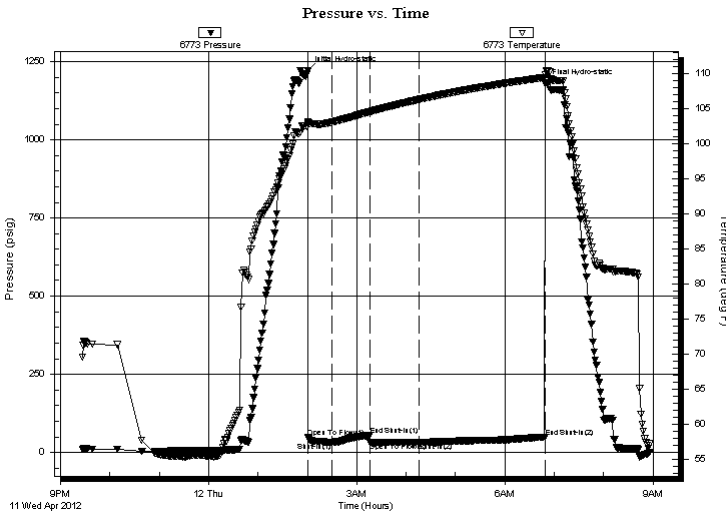
2012.04.12 @ 02:00:41

Time Off Btm:

2012.04.12 @ 06:48:56

**TEST COMMENT:** I.F. Weak Blow Building To 7" In 30 Min  
I.S.I. No Blow  
F.F. Weak BLow Built To 3 1/2" In 60 Min  
F.S.I. No Blow

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1220.45         | 103.12       | Initial Hydro-static |
| 1           | 48.55           | 102.79       | Open To Flow (1)     |
| 30          | 33.11           | 103.08       | Shut-In(1)           |
| 75          | 54.57           | 104.56       | End Shut-In(1)       |
| 76          | 33.67           | 104.57       | Open To Flow (2)     |
| 135         | 33.19           | 106.32       | Shut-In(2)           |
| 288         | 49.63           | 109.48       | End Shut-In(2)       |
| 289         | 1178.42         | 109.88       | Final Hydro-static   |

## Recovery

| Length (ft) | Description               | Volume (bbl) |
|-------------|---------------------------|--------------|
| 5.00        | Oil Cut Mud TR%G 7%O 93%M | 0.02         |
| 0.00        | 242 GIP                   | 0.00         |
|             |                           |              |
|             |                           |              |
|             |                           |              |

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Comanche Resources Company

**5/33s/8e Cowley KS**

6520 Western AVE STE 300  
Oklahoma City OK 73116

**Massy #5-1**

Job Ticket: 47474

**DST#: 2**

ATTN: Sean Deenihan

Test Start: 2012.04.11 @ 21:26:41

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

| Length<br>ft | Description               | Volume<br>bbl |
|--------------|---------------------------|---------------|
| 5.00         | Oil Cut Mud TR%G 7%O 93%M | 0.025         |
| 0.00         | 242 GIP                   | 0.000         |

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

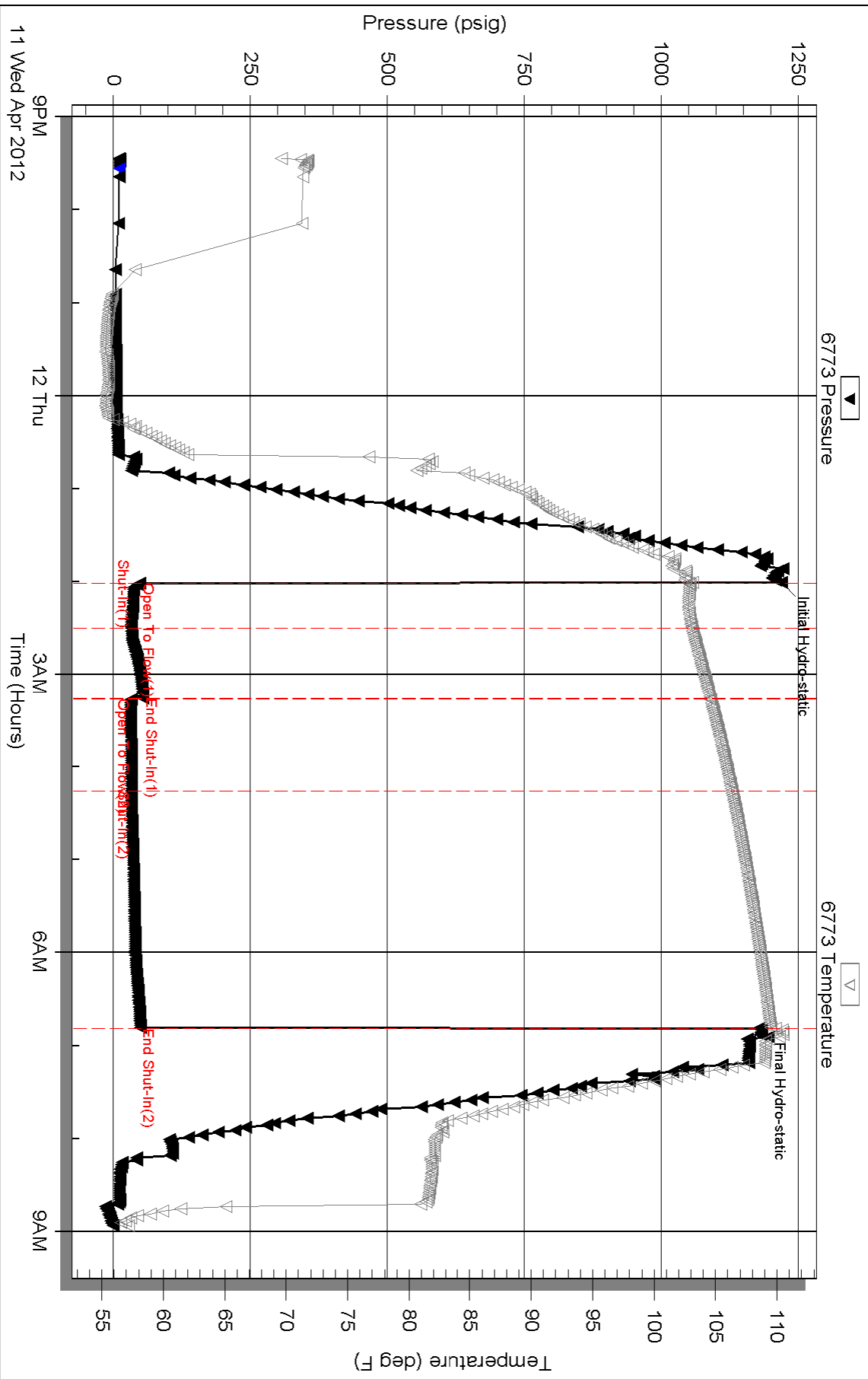
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Comanche Resources Company

**5/33s/8e Cowley KS**

6520 Western AVE STE 300  
Oklahoma City OK 73116

**Massy #5-1**

Job Ticket: 47475

**DST#: 3**

ATTN: Sean Deenihan

Test Start: 2012.04.12 @ 17:59:46

## GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:20:41

Time Test Ended: 02:06:25

Test Type: Conventional Bottom Hole (Reset)

Tester: Kevin Taylor

Unit No: 43

**Interval: 2508.00 ft (KB) To 2560.00 ft (KB) (TVD)**

Reference Elevations: 1055.00 ft (KB)

Total Depth: 2560.00 ft (KB) (TVD)

1046.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 6773 Outside**

Press @ Run Depth: 39.34 psig @ 2515.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.12

End Date:

2012.04.13

Last Calib.:

2012.04.13

Start Time: 17:59:46

End Time:

02:06:25

Time On Btm:

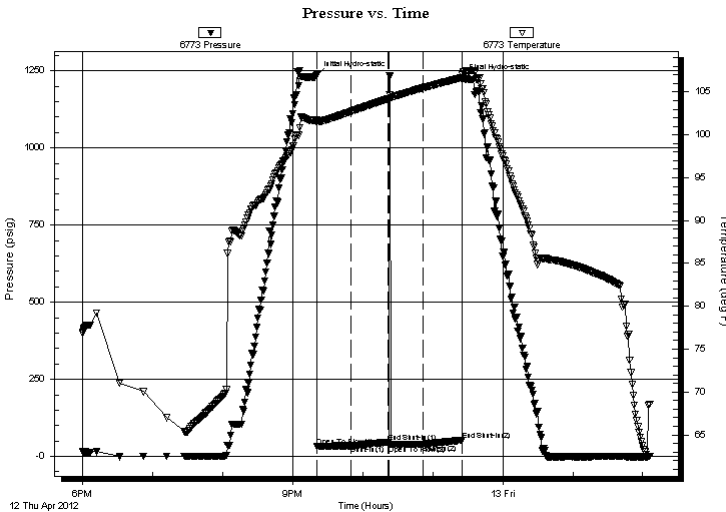
2012.04.12 @ 21:20:26

Time Off Btm:

2012.04.12 @ 23:25:11

**TEST COMMENT:** I.F. Weak Surface Blow Died In 6 Min  
I.S.I. No Blow  
F.F. No Blow Flushed Tool Weak Surface Blow Died In 3 Min  
F.S.I. No Blow

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1236.17         | 101.72       | Initial Hydro-static |
| 1           | 32.60           | 101.44       | Open To Flow (1)     |
| 30          | 34.52           | 102.72       | Shut-In(1)           |
| 62          | 45.97           | 104.22       | End Shut-In(1)       |
| 62          | 35.68           | 104.23       | Open To Flow (2)     |
| 91          | 39.34           | 105.45       | Shut-In(2)           |
| 125         | 52.64           | 106.67       | End Shut-In(2)       |
| 125         | 1225.24         | 107.03       | Final Hydro-static   |

## Recovery

| Length (ft) | Description           | Volume (bbl) |
|-------------|-----------------------|--------------|
| 4.00        | Oil Spotted Mud 100%M | 0.02         |
|             |                       |              |
|             |                       |              |
|             |                       |              |
|             |                       |              |

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Comanche Resources Company

**5/33s/8e Cowley KS**

6520 Western AVE STE 300  
Oklahoma City OK 73116

**Massy #5-1**

Job Ticket: 47475

**DST#: 3**

ATTN: Sean Deenihan

Test Start: 2012.04.12 @ 17:59:46

## 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: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

| Length<br>ft | Description           | Volume<br>bbbl |
|--------------|-----------------------|----------------|
| 4.00         | Oil Spotted Mud 100%M | 0.020          |

Total Length: 4.00 ft      Total Volume: 0.020 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



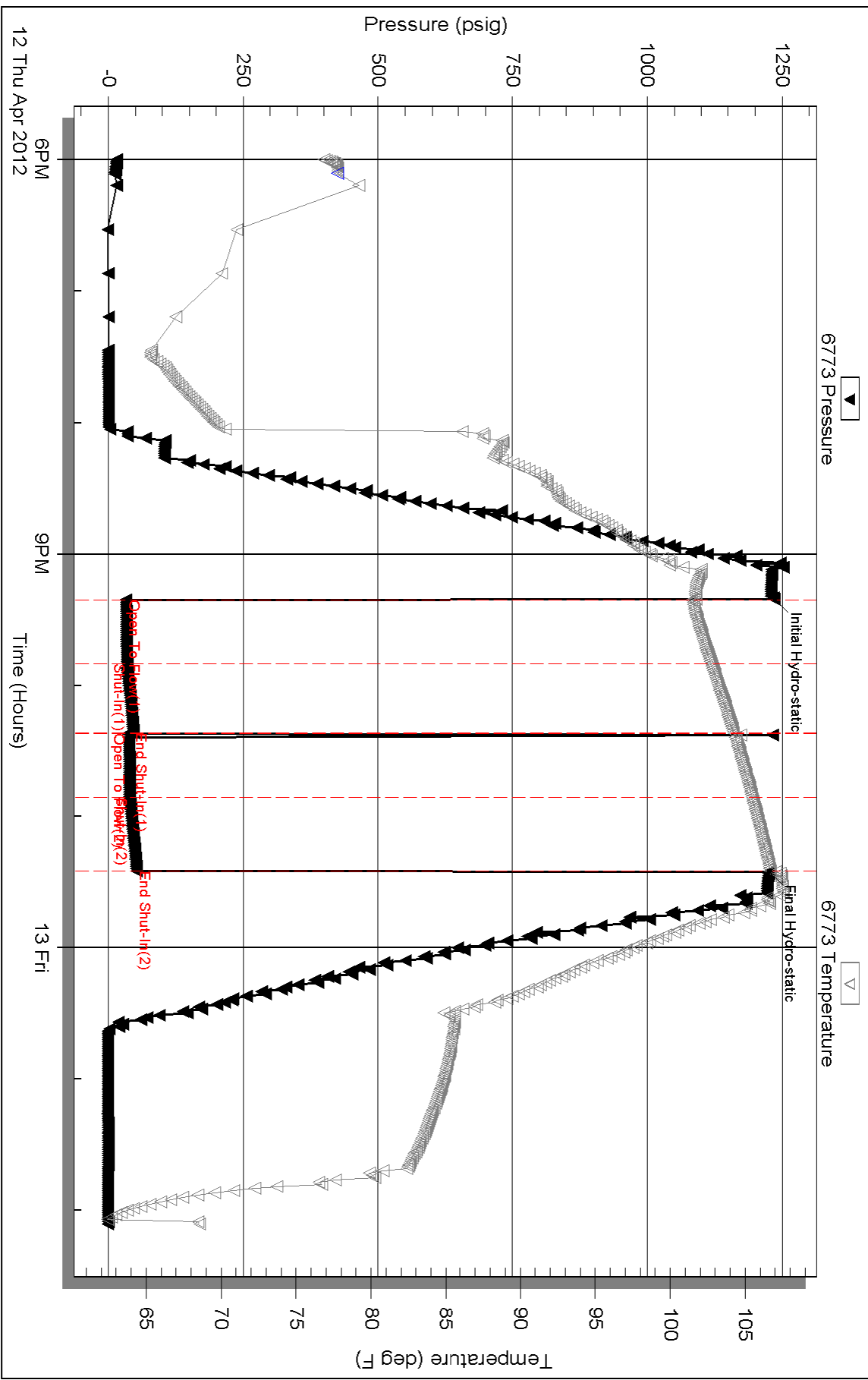
Serial #: 6773

Outside Comanche Resources Company

Massy #5-1

DST Test Number: 3

### Pressure vs. Time





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Comanche Resources Company  
 6520 Western AVE STE 300  
 Oklahoma City OK 73116  
 ATTN: Sean Deenihan

**5/33s/8e Cowley KS**

**Massy #5-1**

Job Ticket: 47726

**DST#: 4**

Test Start: 2012.04.14 @ 11:40:36

## GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:06:06

Time Test Ended: 19:05:36

Test Type: Conventional Bottom Hole (Reset)

Tester: Kevin Taylor

Unit No: 43

**Interval: 2762.00 ft (KB) To 2801.00 ft (KB) (TVD)**

Reference Elevations: 1055.00 ft (KB)

Total Depth: 2801.00 ft (KB) (TVD)

1046.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

**Serial #: 6773 Outside**

Press @ Run Depth: 94.99 psig @ 2768.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.14

End Date:

2012.04.14

Last Calib.: 2012.04.14

Start Time: 11:40:41

End Time:

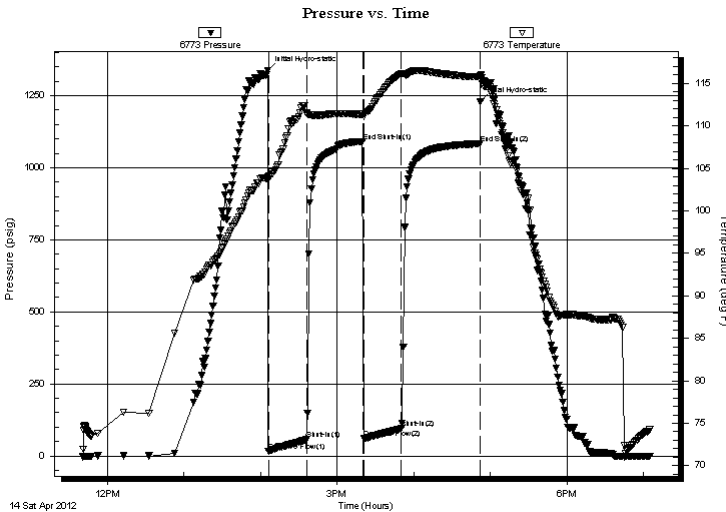
19:05:35

Time On Btm: 2012.04.14 @ 14:05:51

Time Off Btm: 2012.04.14 @ 16:52:21

**TEST COMMENT:** I.F. Weak Blow Building To 4 1/2" In 30 Min  
 I.S.I. No Blow  
 F.F. Weak Blow Building To 3 1/4" In 30 Min  
 F.S.I. No Blow

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1337.65         | 104.00       | Initial Hydro-static |
| 1           | 16.06           | 103.63       | Open To Flow (1)     |
| 31          | 56.40           | 111.46       | Shut-In(1)           |
| 75          | 1091.58         | 111.39       | End Shut-In(1)       |
| 75          | 60.04           | 111.16       | Open To Flow (2)     |
| 105         | 94.99           | 116.12       | Shut-In(2)           |
| 167         | 1084.11         | 115.79       | End Shut-In(2)       |
| 167         | 1228.88         | 115.88       | Final Hydro-static   |

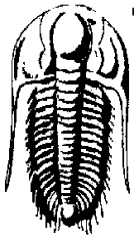
## Recovery

| Length (ft) | Description                  | Volume (bbl) |
|-------------|------------------------------|--------------|
| 35.00       | Muddy WTR Oil Scum 35%W 55%M | 0.17         |
| 60.00       | WTRY Mud 80%W 20%M           | 0.30         |
| 61.00       | WTRY Mud 85%W 15%M           | 0.30         |
|             |                              |              |
|             |                              |              |

\* Recovery from multiple tests

## Gas Rates

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



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Comanche Resources Company

**5/33s/8e Cowley KS**

6520 Western AVE STE 300  
Oklahoma City OK 73116

**Massy #5-1**

Job Ticket: 47726

**DST#: 4**

ATTN: Sean Deenihan

Test Start: 2012.04.14 @ 11:40:36

### GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:06:06

Time Test Ended: 19:05:36

Test Type: Conventional Bottom Hole (Reset)

Tester: Kevin Taylor

Unit No: 43

**Interval: 2762.00 ft (KB) To 2801.00 ft (KB) (TVD)**

Reference Elevations: 1055.00 ft (KB)

Total Depth: 2801.00 ft (KB) (TVD)

1046.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

### Serial #: 6755

Press @ Run Depth: psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.14

End Date:

2012.04.14

Last Calib.:

2012.04.14

Start Time: 11:46:43

End Time:

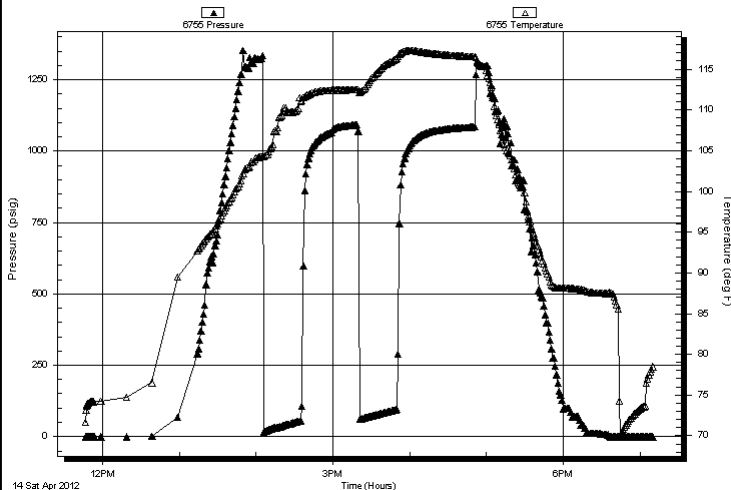
19:10:37

Time On Btm:

Time Off Btm:

TEST COMMENT: I.F. Weak Blow Building To 4 1/2" In 30 Min  
I.S.I. No Blow  
F.F. Weak Blow Building To 3 1/4" In 30 Min  
F.S.I. No Blow

Pressure vs. Time



### PRESSURE SUMMARY

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

### Recovery

| Length (ft) | Description                 | Volume (bbl) |
|-------------|-----------------------------|--------------|
| 35.00       | Mudy WTR Oil Scum 35%W 55%M | 0.17         |
| 60.00       | WTRY Mud 80%W 20%M          | 0.30         |
| 61.00       | WTRY Mud 85%W 15%M          | 0.30         |
|             |                             |              |
|             |                             |              |
|             |                             |              |

### Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Comanche Resources Company

**5/33s/8e Cowley KS**

6520 Western AVE STE 300  
Oklahoma City OK 73116

**Massy #5-1**

Job Ticket: 47726

**DST#: 4**

ATTN: Sean Deenihan

Test Start: 2012.04.14 @ 11:40:36

## 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: 36.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

| Length<br>ft | Description                 | Volume<br>bbbl |
|--------------|-----------------------------|----------------|
| 35.00        | Mudy WTR Oil Scum 35%W 55%M | 0.172          |
| 60.00        | WTRY Mud 80%W 20%M          | 0.295          |
| 61.00        | WTRY Mud 85%W 15%M          | 0.300          |

Total Length: 156.00 ft      Total Volume: 0.767 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

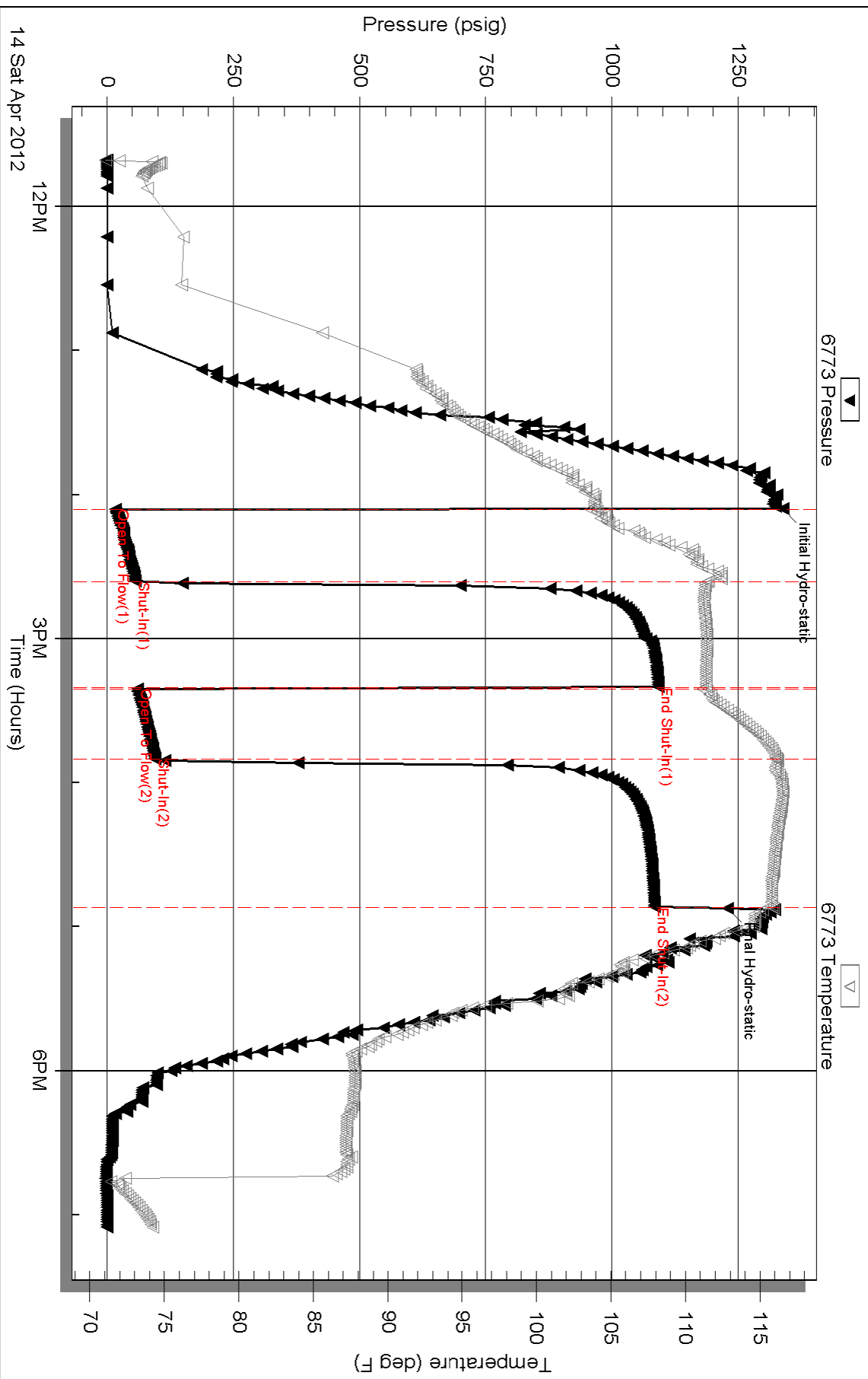
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

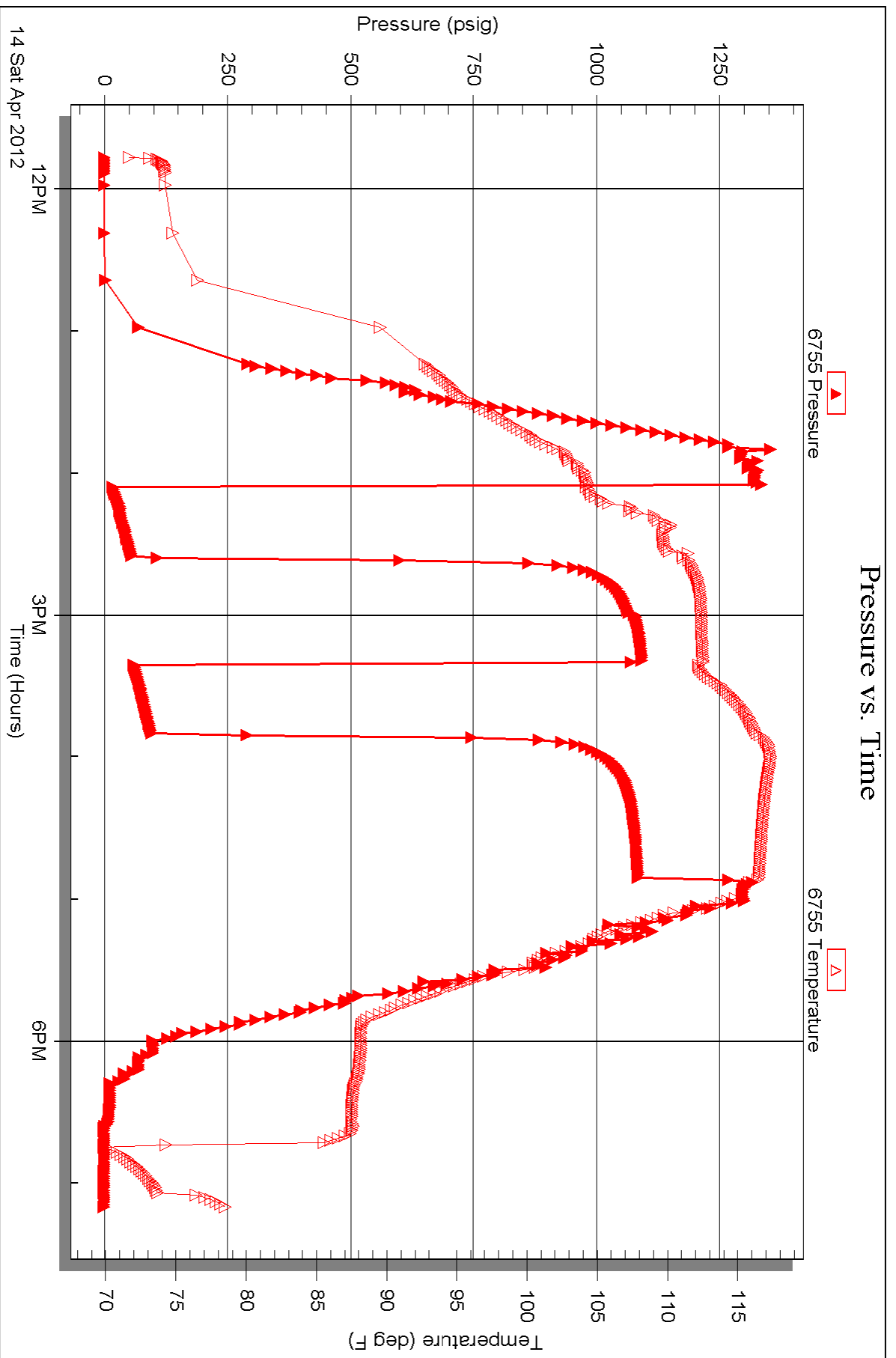


Serial #: 6755

Comanche Resources Company

Massy #5-1

DST Test Number: 4



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



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

Mark Sievers, Chairman  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

July 23, 2012

CARRIE RENNER  
Comanche Resources Company  
6520 N WESTERN AVE STE 300  
OKLAHOMA CITY, OK 73116-7334

Re: ACO1  
API 15-035-24471-00-00  
MASSEY 5-1  
NW/4 Sec.05-33S-08E  
Cowley 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,  
CARRIE RENNER