



KANSAS CORPORATION COMMISSION 1082633  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 6768  
Name: Carrie Exploration & Development, a General Partnership  
Address 1: 210 W 22ND  
Address 2: \_\_\_\_\_  
City: HAYS State: KS Zip: 67601 + \_\_\_\_\_  
Contact Person: RON HEROLD  
Phone: ( 913 ) 961-2760  
CONTRACTOR: License # 33350  
Name: Southwind Drilling, Inc.  
Wellsite Geologist: HERB DEINES  
Purchaser: NATIONAL COOPERATIVE REFINERY ASSOCIATION

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     WSW     SWD     SIOW  
 Gas     D&A     ENHR     SIGW  
 OG     GSW     Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic     Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening     Re-perf.     Conv. to ENHR     Conv. to SWD  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_  
01/25/2012    02/02/2012    03/01/2012  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 15-009-25647-00-00  
Spot Description: \_\_\_\_\_  
S2 SE NE SW Sec. 34 Twp. 19 S. R. 11  East  West  
1381 Feet from  North /  South Line of Section  
2310 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Barton  
Lease Name: THOMAS FARMS Well #: C-2  
Field Name: CHASE SILICA  
Producing Formation: LANSING-KANSAS CITY  
Elevation: Ground: 1771 Kelly Bushing: 1779  
Total Depth: 3420 Plug Back Total Depth: 3390  
Amount of Surface Pipe Set and Cemented at: 258 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: 1651 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: 60000 ppm Fluid volume: 500 bbls  
Dewatering method used: Hauled to Disposal  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: BOB'S OIL SERVICE  
Lease Name: SIEKER License #: 32408  
Quarter NW Sec. 35 Twp. 19 S. R. 11  East  West  
County: BARTON Permit #: D26497

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: Deanna Gerrits Date: 06/11/2012



1082633

Operator Name: Carrie Exploration & Development, a General Partnership Lease Name: THOMAS FARMS Well #: C-2  
 Sec. 34 Twp. 19 S. R. 11  East  West County: Barton

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

| Drill Stem Tests Taken <input checked="" 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 checked="" type="checkbox"/> No<br><br>Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><i>(If no, Submit Copy)</i><br><br>List All E. Logs Run:<br><br><small>DUAL INDUCTION LOG<br/>                 DUAL COMPENSATED POROSITY LOG<br/>                 MICRORESISTIVITY LOG</small> | <input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample<br><br><table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>TOPEKA</td> <td>2635</td> <td>-856</td> </tr> <tr> <td>HEEBNER SHALE</td> <td>2897</td> <td>-1118</td> </tr> <tr> <td>LKC</td> <td>3043</td> <td>-1264</td> </tr> <tr> <td>BKC</td> <td>3293</td> <td>-1514</td> </tr> <tr> <td>ARBUCKLE</td> <td>3312</td> <td>-1533</td> </tr> <tr> <td>RTD</td> <td>3420</td> <td>-1641</td> </tr> </tbody> </table> | Name  | Top | Datum | TOPEKA | 2635 | -856 | HEEBNER SHALE | 2897 | -1118 | LKC | 3043 | -1264 | BKC | 3293 | -1514 | ARBUCKLE | 3312 | -1533 | RTD | 3420 | -1641 |
|--|---|-------|-----|-------|--------|------|------|---------------|------|-------|-----|------|-------|-----|------|-------|----------|------|-------|-----|------|-------|
| Name   | Top   | Datum |     |       |        |      |      |               |      |       |     |      |       |     |      |       |          |      |       |     |      |       |
| TOPEKA   | 2635  | -856  |     |       |        |      |      |               |      |       |     |      |       |     |      |       |          |      |       |     |      |       |
| HEEBNER SHALE  | 2897  | -1118 |     |       |        |      |      |               |      |       |     |      |       |     |      |       |          |      |       |     |      |       |
| LKC  | 3043  | -1264 |     |       |        |      |      |               |      |       |     |      |       |     |      |       |          |      |       |     |      |       |
| BKC  | 3293  | -1514 |     |       |        |      |      |               |      |       |     |      |       |     |      |       |          |      |       |     |      |       |
| ARBUCKLE   | 3312  | -1533 |     |       |        |      |      |               |      |       |     |      |       |     |      |       |          |      |       |     |      |       |
| RTD  | 3420  | -1641 |     |       |        |      |      |               |      |       |     |      |       |     |      |       |          |      |       |     |      |       |

| CASING RECORD <input checked="" 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 |
| SURFACE   | 12.25             | 8.675                     | 24                | 258           | COMMON         | 200          | 2%GEL,3%CC                 |
| PRODUCTION  | 7.875             | 5.5                       | 14                | 3419          | EA2            | 145          | 10%SALT                    |
|   |                   |                           |                   |               |                |              |                            |

| ADDITIONAL CEMENTING / SQUEEZE RECORD   |                  |                |              |                            |
|---|------------------|----------------|--------------|----------------------------|
| Purpose:  | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| <input checked="" type="checkbox"/> Perforate<br><input type="checkbox"/> Protect Casing<br><input type="checkbox"/> Plug Back TD<br><input type="checkbox"/> Plug Off Zone | 0-1651           | 60/40 POZ      | 525          | 4%GEL                      |
|   |                  |                |              |                            |

| 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         |
|----------------|---|--|---------------|
| 2              | 3330.5-3331   | 250G 15%NEFE   | 3330.5-3331   |
| 2              | 3311.5-3316.5   | 250G 15% NEFE  | 3311.5-3316.5 |
|                | CIBP 3329, CIBP 3308  |  |               |
| 4              | 3278-3282   | 250G 15%NEFE   | 3278-3282     |
| 4              | 3210-12, 3179-81, 3124-28   | 250G, 1000G 15% NEFE   | 3124-3112     |

|  |                        |  |                         |  |
|--|------------------------|--|-------------------------|--|
| TUBING RECORD:   | Size: <u>2.375</u>     | Set At: <u>3280</u>  | Packer At: <u>NONE</u>  | Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Date of First, Resumed Production, SWD or ENHR.<br><u>03/02/2012</u> |                        | Producing Method:<br><input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____ |                         |  |
| Estimated Production Per 24 Hours                                    | Oil Bbls.<br><u>50</u> | Gas Mcf<br><u>0</u>  | Water Bbls.<br><u>0</u> | Gas-Oil Ratio<br>  |

|   |  |  |
|---|--|--|
| DISPOSITION OF GAS:<br><input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease<br><i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION:<br><input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled<br><i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i><br><input type="checkbox"/> Other (Specify) _____ | PRODUCTION INTERVAL:<br><u>3124-3282</u> |
|---|--|--|

**MEMO SHEET**  
No. 1000  
DATE: 1958  
TIME: 10:30  
PROJECT: GROUND WATER INVESTIGATION  
SHEET NO. 1 OF 2

| NO. | DESCRIPTION | DEPTH (FT) | REMARKS |
|-----|-------------|------------|---------|
| 1   | ...         | ...        | ...     |
| 2   | ...         | ...        | ...     |
| 3   | ...         | ...        | ...     |
| 4   | ...         | ...        | ...     |
| 5   | ...         | ...        | ...     |
| 6   | ...         | ...        | ...     |
| 7   | ...         | ...        | ...     |
| 8   | ...         | ...        | ...     |
| 9   | ...         | ...        | ...     |
| 10  | ...         | ...        | ...     |
| 11  | ...         | ...        | ...     |
| 12  | ...         | ...        | ...     |
| 13  | ...         | ...        | ...     |
| 14  | ...         | ...        | ...     |
| 15  | ...         | ...        | ...     |
| 16  | ...         | ...        | ...     |
| 17  | ...         | ...        | ...     |
| 18  | ...         | ...        | ...     |
| 19  | ...         | ...        | ...     |
| 20  | ...         | ...        | ...     |
| 21  | ...         | ...        | ...     |
| 22  | ...         | ...        | ...     |
| 23  | ...         | ...        | ...     |
| 24  | ...         | ...        | ...     |
| 25  | ...         | ...        | ...     |
| 26  | ...         | ...        | ...     |
| 27  | ...         | ...        | ...     |
| 28  | ...         | ...        | ...     |
| 29  | ...         | ...        | ...     |
| 30  | ...         | ...        | ...     |
| 31  | ...         | ...        | ...     |
| 32  | ...         | ...        | ...     |
| 33  | ...         | ...        | ...     |
| 34  | ...         | ...        | ...     |
| 35  | ...         | ...        | ...     |
| 36  | ...         | ...        | ...     |
| 37  | ...         | ...        | ...     |
| 38  | ...         | ...        | ...     |
| 39  | ...         | ...        | ...     |
| 40  | ...         | ...        | ...     |



# ALLIED

OIL & GAS SERVICES, LLC

PO Box 93999  
Southlake, TX 76092

Voice: (817) 546-7282  
Fax: (817) 246-3361

C

Surface Casing

## INVOICE

Invoice Number: 130018

Invoice Date: Jan 25, 2012

Page: 1

Carrie Exploration & Development LLC  
210 West 22nd Street  
Hays, KS 67601

PO #  
CK #  
2-953  
2-18-12

| Gas Unit ID  | Well Name / Location | Payment Terms |          |
|--------------|----------------------|---------------|----------|
| Carrie       | Thomas Farms C #2    | Net 30 Days   |          |
| Job Location | Game Location        | Service Date  | Due Date |
| KS2-01       | Great Bend           | Jan 25, 2012  | 2/24/12  |

| Quantity | Item        | Description                        | Unit Price | Amount   |
|----------|-------------|------------------------------------|------------|----------|
| 200.00   | MAT         | Class A Common                     | 16.25      | 3,250.00 |
| 4.00     | MAT         | Gel                                | 21.25      | 85.00    |
| 7.00     | MAT         | Chloride                           | 58.20      | 407.40   |
| 211.00   | SER         | Handling                           | 2.25       | 474.75   |
| 10.00    | SER         | Mileage 211 sx @ .11 per sk per mi | 23.21      | 232.10   |
| 1.00     | SER         | Surface                            | 1,125.00   | 1,125.00 |
| 10.00    | SER         | Pump Truck Mileage                 | 7.00       | 70.00    |
| 10.00    | SER         | Light Vehicle Mileage              | 4.00       | 40.00    |
| 1.00     | EQUIP OPER  | Greg Redetzke                      |            |          |
| 1.00     | OPER ASSIST | Shane Konzem                       |            |          |
| 1.00     | OPER ASSIST | Kevin Weighous                     |            |          |

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

|                        |                 |
|------------------------|-----------------|
| Subtotal               | 5,684.25        |
| Sales Tax              | 273.20          |
| Total Invoice Amount   | 5,957.45        |
| Payment/Credit Applied |                 |
| <b>TOTAL</b>           | <b>5,957.45</b> |

ONLY IF PAID ON OR BEFORE

# ALLIED CEMENTING CO., LLC. 042397

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

SERVICE POINT:  
Great Bend, KS

|                                    |                  |   |                      |                 |             |                          |                           |
|------------------------------------|------------------|---|----------------------|-----------------|-------------|--------------------------|---------------------------|
| DATE <u>1-25-12</u>                | SEC. <u>25</u>   | TWP. <u>19s</u>   | RANGE <u>11W</u>     | CALLED OUT      | ON LOCATION | JOB START <u>7:00 AM</u> | JOB FINISH <u>1:30 AM</u> |
| LEASE <u>Thomas Farms</u>          | WELL# <u>C-2</u> | LOCATION <u>Ellinwood, KS 2 miles east, 1/4 north east into</u> | COUNTY <u>Darton</u> | STATE <u>KS</u> |             |                          |                           |
| OLD OR NEW (Circle one) <u>NEW</u> |                  |   |                      |                 |             |                          |                           |

CONTRACTOR Southwind #6

TYPE OF JOB Sur Face

HOLE SIZE 12 1/4 T.D. 258

CASING SIZE 9 5/8 DEPTH 258

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15 FT.

PERFS.

DISPLACEMENT

EQUIPMENT

PUMP TRUCK # 398 CEMENTER Greg K. HELPER Shane K.

BULK TRUCK # 341 DRIVER Kevin W.

BULK TRUCK # DRIVER

REMARKS:  
Pipe on bottom, break circulation with rig mud. Hook up mix 200 sks Class A 3% cc 2% gel. Shut down, release plug and displace with 15.45 bbl fresh water. Shut in, cement lid circulate plug down @ 1:30 AM. Rig down.

CHARGE TO Carrie Exploration

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

OWNER Carrie Exploration & Development

CEMENT AMOUNT ORDERED 200 sks Class A  
3% cc 2% gel

|          |                       |                |                 |
|----------|-----------------------|----------------|-----------------|
| COMMON   | <u>200</u>            | @ <u>16.25</u> | <u>3250.00</u>  |
| POZMIX   |                       | @              |                 |
| GEL      | <u>4</u>              | @ <u>21.25</u> | <u>85.00</u>    |
| CHLORIDE | <u>7</u>              | @ <u>58.20</u> | <u>407.40</u>   |
| ASC      |                       | @              |                 |
|          |                       | @              |                 |
|          |                       | @              |                 |
|          |                       | @              |                 |
|          |                       | @              |                 |
|          |                       | @              |                 |
|          |                       | @              |                 |
|          |                       | @              |                 |
| HANDLING | <u>211</u>            | @ <u>2.25</u>  | <u>474.75</u>   |
| MILEAGE  | <u>211 x 10 x .11</u> |                | <u>232.10</u>   |
| TOTAL    |                       |                | <u>4,449.25</u> |

SERVICE

|                   |               |               |                |
|-------------------|---------------|---------------|----------------|
| DEPTH OF JOB      | <u>258</u>    |               |                |
| PUMP TRUCK CHARGE |               |               | <u>1125.00</u> |
| EXTRA FOOTAGE     |               | @             |                |
| MILEAGE           | <u>Num 10</u> | @ <u>7.00</u> | <u>70.00</u>   |
| MANIFOLD          |               | @             |                |
|                   | <u>Num 10</u> | @ <u>4.00</u> | <u>40.00</u>   |
| TOTAL             |               |               | <u>1235.00</u> |

PLUG & FLOAT EQUIPMENT

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_



P. O. Box 466  
Ness City, KS 67560  
Off: 785-798-2300



*Bottom Stage*

# Invoice

|          |           |
|----------|-----------|
| DATE     | INVOICE # |
| 2/1/2012 | 21635     |

|  |
|--|
| BILL TO  |
| Carrie Exploration & Development<br>210 West 22nd Street<br>Hays, KS 67601 |

- Acidizing
  - Cement
  - Tool Rental
- pd*  
*CR# 2964*  
*2-27-12*

| TERMS  | Well No. | Lease          | County | Contractor           | Well Type | Well Category | Job Purpose       | Operator |
|--------|----------|----------------|--------|----------------------|-----------|---------------|-------------------|----------|
| Net 30 | #2       | Thomas Farm... | Barton | SouthWind Drillin... | Oil       | Development   | 5-1/2" LongString | Jason    |

| PRICE REF. | DESCRIPTION                             | QTY    | UM        | UNIT PRICE | AMOUNT    |
|------------|---|--------|-----------|------------|-----------|
| 575D       | Mileage - 1 Way                         | 70     | Miles     | 6.00       | 420.00    |
| 578D-L     | Pump Charge - Long String - 3420 Feet   | 1      | Job       | 1,500.00   | 1,500.00  |
| 402-5      | 5 1/2" Centralizer                      | 8      | Each      | 70.00      | 560.00T   |
| 403-5      | 5 1/2" Cement Basket                    | 2      | Each      | 250.00     | 500.00T   |
| 404-5      | 5 1/2" Port Collar - 1693 Feet          | 1      | Each      | 2,400.00   | 2,400.00T |
| 406-5      | 5 1/2" Latch Down Plug & Baffle         | 1      | Each      | 250.00     | 250.00T   |
| 407-5      | 5 1/2" Insert Float Shoe With Auto Fill | 1      | Each      | 350.00     | 350.00T   |
| 419-5      | 5 1/2" Rotating Head Rental             | 1      | Each      | 200.00     | 200.00T   |
| 280        | Flocheck 21                             | 330    | Gallon(s) | 2.50       | 825.00T   |
| 221        | Liquid KCL (Clayfix)                    | 5      | Gallon(s) | 25.00      | 125.00T   |
| 276        | Flocele                                 | 44     | Lb(s)     | 2.00       | 88.00T    |
| 283        | Salt                                    | 900    | Lb(s)     | 0.20       | 180.00T   |
| 284        | Calseal                                 | 8      | Sack(s)   | 35.00      | 280.00T   |
| 286        | Halad-1 (Halad 9)                       | 100    | Lb(s)     | 7.50       | 750.00T   |
| 325        | Standard Cement                         | 175    | Sacks     | 13.50      | 2,362.50T |
| 581D       | Service Charge Cement                   | 175    | Sacks     | 2.00       | 350.00    |
| 583D       | Drayage                                 | 640.29 | Ton Miles | 1.00       | 640.29    |
|            | Subtotal                                |        |           |            | 11,780.79 |
|            | Sales Tax Barton County                 |        |           | 7.30%      | 647.55    |

|                                     |              |                    |
|-------------------------------------|--------------|--------------------|
| <b>We Appreciate Your Business!</b> | <b>Total</b> | <b>\$12,428.34</b> |
|-------------------------------------|--------------|--------------------|



# COPELAND

Acid & Cement

BURRTON, KS (620) 463-5161  
 GREAT BEND, KS (620) 793-3366  
 FAX (620) 463-2104 FAX (620) 793-3536

POST OFFICE BOX 438  
 HAYSVILLE, KS 67060  
 (316) 524-1225  
 (316) 524-1027 FAX

**Invoice**

*POATC/AR*

INVOICE NUMBER:  
**C38923-IN**

**BILL TO:**  
**CARRIE EXPLORATION & DEV.**  
**210 WEST 22ND STREET**  
**HAYS, KS 67601**

LEASE: ~~THOMAS FARMS C-2~~

*C*

| DATE  | ORDER  | SALESMAN  | ORDER DATE | PURCHASE ORDER   | SPECIAL INSTRUCTIONS |                        |
|---|--------|---|------------|------------------|----------------------|------------------------|
| 02/27/2012  | C38923 |   | 02/20/2012 |                  | NET 30               |                        |
| QUANTITY  | U/M    | ITEM NO./DESCRIPTION  |            | D/C              | PRICE                | EXTENSION              |
| 15.00   | MI     | CEMENT MILEAGE PUMP TRUCK   |            | 0.00             | 4.00                 | 60.00                  |
| 15.00   | MI     | CEMENT MILEAGE PUTRUCK  |            | 0.00             | 2.00                 | 30.00                  |
| 1.00  | EA     | CEMENT PUMP CHARGE  |            | 0.00             | 950.00               | 950.00                 |
| 525.00  | SAX    | 60-40 POZ MIX 2% GEL  |            | 0.00             | 9.25                 | 4,856.25               |
| 10.00   | SAX    | 2% ADDITIONAL GEL   |            | 0.00             | 20.00                | 200.00                 |
| 1.00  | EA     | 600# VALVE  |            | 0.00             | 4.50                 | 4.50                   |
| 1.00  | EA     | 2 X 6" NIPPLE   |            | 0.00             | 45.00                | 45.00                  |
| 535.00  | EA     | BULK CHARGE   |            | 0.00             | 1.25                 | 668.75                 |
| 354.00  | MI     | BULK TRUCK - TON MILES  |            | 0.00             | 1.10                 | 389.40                 |
| <b>REMIT TO:</b><br>P.O. BOX 438<br>HAYSVILLE, KS 67060 |        | COP   |            | Net Invoice:     |                      | 7,203.90               |
|   |        | FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY. |            | BATCO Sales Tax: |                      | 72.96                  |
| <b>RECEIVED BY</b>                                      |        | <b>NET 30 DAYS</b>  |            | Invoice Total:   |                      | <u><u>7,276.86</u></u> |

*pd 3-23-12  
#3044*

There will be a charge of 1.5% "per month" (18% annual rate) on all accounts over 30 days past due.

Copeland Acid & Cement is a subsidiary of Gressel Oil Field Service

Gressel Oil Field Service reserves a security interest in the goods sold until the same are paid for in full and reserve all the rights of a secured party under the Uniform Commercial Code





TREATMENT REPORT

Acid Stage No. ....

Date 2/20/12 District G.B. F. O. No. C38923  
 Company Cortic Exploration  
 Well Name & No. Thomas Form C-2  
 Location \_\_\_\_\_ Field \_\_\_\_\_  
 County Bearden State KS

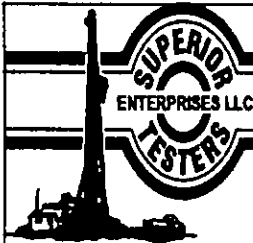
Type Treatment: Amt. Type Fluid Sand Size Pounds of Sand  
 Breakdown \_\_\_\_\_ Bbl./Gal. \_\_\_\_\_  
 \_\_\_\_\_ Bbl./Gal. \_\_\_\_\_  
 \_\_\_\_\_ Bbl./Gal. \_\_\_\_\_  
 \_\_\_\_\_ Bbl./Gal. \_\_\_\_\_  
 Flush \_\_\_\_\_ Bbl./Gal. \_\_\_\_\_  
 Treated from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. No. ft. \_\_\_\_\_  
 from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. No. ft. \_\_\_\_\_  
 from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. No. ft. \_\_\_\_\_

Casing: Size 5 1/2" Type & Wt. \_\_\_\_\_ Set at \_\_\_\_\_ ft.  
 Formation: \_\_\_\_\_ Perf. \_\_\_\_\_ to \_\_\_\_\_  
 Formation: \_\_\_\_\_ Perf. \_\_\_\_\_ to \_\_\_\_\_  
 Formation: \_\_\_\_\_ Perf. \_\_\_\_\_ to \_\_\_\_\_  
 Liner: Size \_\_\_\_\_ Type & Wt. \_\_\_\_\_ Top at \_\_\_\_\_ ft. Bottom at \_\_\_\_\_ ft.  
 Cemented: Yes/No \_\_\_\_\_ Perforated from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Tubing: Size & Wt. 2 1/8" Spung at \_\_\_\_\_ ft.  
 Perforated from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Open Hole Size \_\_\_\_\_ T.D. \_\_\_\_\_ ft. P.D. to \_\_\_\_\_ ft.

Actual Volume of Oil/Water to Load Hole: \_\_\_\_\_ Bbl./Gal.  
 Pump Trucks, No. Used: 320 Sp. \_\_\_\_\_ Twin \_\_\_\_\_  
 Auxiliary Equipment 317/310  
 Packer: \_\_\_\_\_ Set at \_\_\_\_\_ ft.  
 Auxiliary Tools \_\_\_\_\_  
 Plugging or Sealing Materials: Type \_\_\_\_\_

Company Representative Ron H. Treater Nathan W.

| TIME<br>(a.m./p.m.) | PRESSURES |        | Total Fluid Pumped | REMARKS   |
|---------------------|-----------|--------|--------------------|---|
|                     | Tubing    | Casing |                    |   |
| 10:00               | 2 1/8"    | 5 1/2" |                    | On Loc.   |
|                     |           |        |                    | Part - collar @ 1,651'                                |
|                     |           |        |                    | Pressure up to 500# Open tool.                        |
|                     |           |        |                    | Mix 525 sks <sup>60/40</sup> <del>60/40</del> 4% sol. |
|                     |           |        |                    | Displace w/ 8 1/2 bbls Circulated cement to surface.  |
|                     |           |        |                    | Shut part-coller. Test to 1000#                       |
|                     |           |        |                    | Run 5 its Reverse and                                 |
|                     |           |        |                    | Thank You!  |
|                     |           |        |                    | Nathan W.   |



# DRILL STEM TEST REPORT

GAS RATES

Carrie Exploration Development

34/ 19S/ 11W Barton Co

210 West 22nd Street

Thomas Farms #C-2

Hays, Kans

Job Ticket: 18827

DST#: 1

67601as

ATTN: Herb Delnes

Test Start: 2012.01.29 @ 07:15:00

## Gas Rates Information

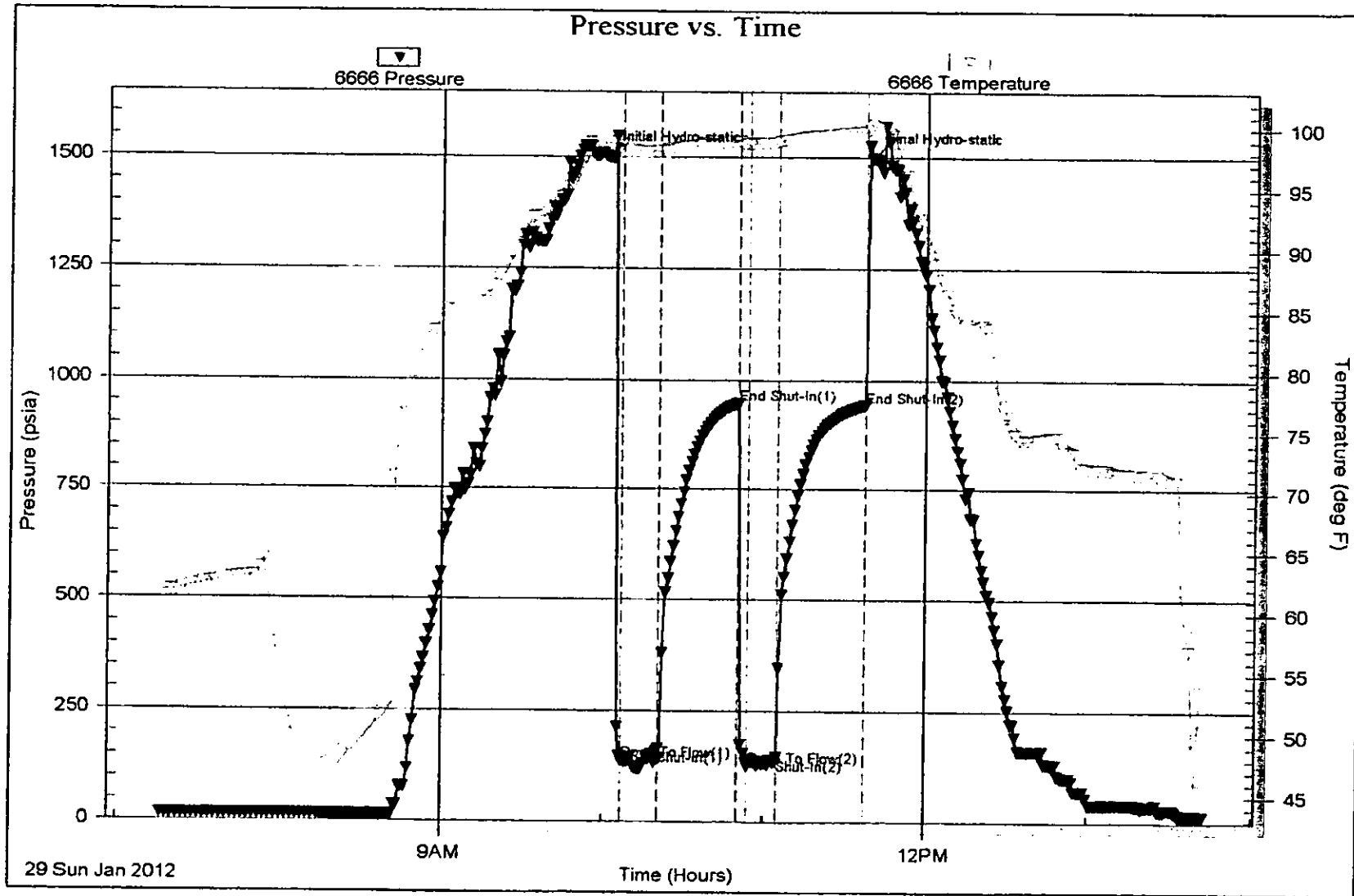
Temperature: 59 (deg F)

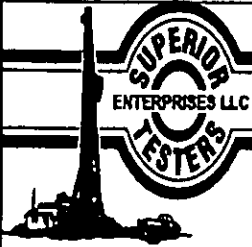
Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

| Flow Period | Elapsed Time | Choke (inches) | Pressure (psia) | Gas Rate (Mcf/d) |
|-------------|--------------|----------------|-----------------|------------------|
| 1           | 15           | 0.50           | 16.70           | 112.65           |
| 2           | 8            | 0.50           | 15.00           | 101.18           |
| 2           | 15           | 0.50           | 21.00           | 141.66           |





# DRILL STEM TEST REPORT

Carrie Exploration Development

34/ 19S/ 11W Barton Co

210 West 22nd Street  
Hays, Kans  
67601as  
ATTN: Herb Deines

Thomas Farms #C-2

Job Ticket: 18828 DST#: 2

Test Start: 2012.01.30 @ 10:40:00

## GENERAL INFORMATION:

Formation: Lansing "C,D,F" Zo

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:03:30

Time Test Ended: 18:30:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dylan E Ellis

Unit No: 3345/Great Bend/33

Interval: 3073.00 ft (KB) To 3115.00 ft (KB) (TVD)

Total Depth: 3115.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1779.00 ft (KB)

1771.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6666

Outside

Press@RunDepth: 428.50 psia @ 3111.00 ft (KB)

Start Date: 2012.01.30

End Date:

2012.01.30

Start Time: 10:40:00

End Time:

18:30:00

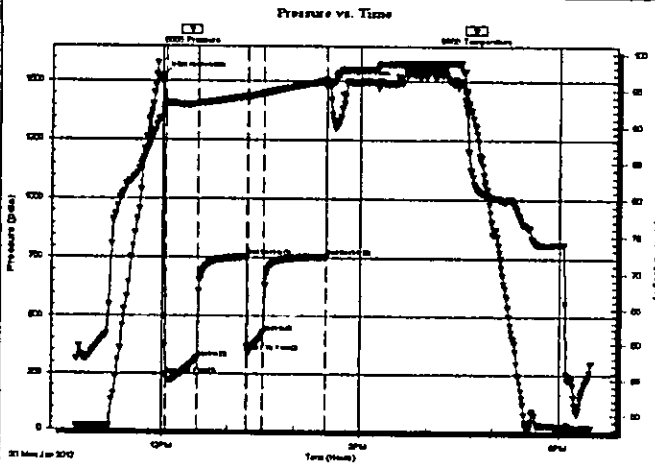
Capacity: 5000.00 psia

Last Calib.: 2012.01.30

Time On Btm: 2012.01.30 @ 12:01:00

Time Off Btm: 2012.01.30 @ 14:31:00

TEST COMMENT: 1ST Opening 30 Minutes very strong blow /blow blow to bottom of bucket instantly/gas to surface  
1ST Shut-in 45 Minutes yes surface  
2ND Opening 20 Minutes very strong blow /bottom of bucket instantly/Oil to surface in 12 minutes  
2ND Shut-in 40 Minutes yes surface



## PRESSURE SUMMARY

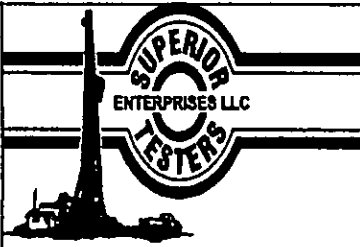
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1523.64         | 91.75        | Initial Hydro-static |
| 3           | 246.17          | 93.00        | Open To Flow (1)     |
| 32          | 316.36          | 93.00        | Shut-in(1)           |
| 76          | 755.82          | 94.10        | End Shut-in(1)       |
| 77          | 341.20          | 94.04        | Open To Flow (2)     |
| 92          | 428.50          | 94.45        | Shut-in(2)           |
| 148         | 756.72          | 96.20        | End Shut-in(2)       |
| 150         | 1493.18         | 96.01        | Final Hydro-static   |

## Recovery

| Length (ft) | Description              | Volume (bbl) |
|-------------|--------------------------|--------------|
| 2989.00     | Clean Gassy Oil          | 41.93        |
| 0.00        | 20% Gas 80% Oil          | 0.00         |
| 126.00      | Light Oil cut Muddy Gas  |              |
| 0.00        | 10% Oil/50% Mud/ 40% Gas |              |

## Gas Rates

|                | Choke (inches) | Pressure (psia) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.50           | 21.00           | 141.66           |
| Last Gas Rate  | 0.50           | 14.50           | 97.81            |
| Max. Gas Rate  | 0.50           | 21.00           | 141.66           |



# DRILL STEM TEST REPORT

**GAS RATES**

Carrie Exploration Development

**34/ 19S/ 11W Barton Co**

210 West 22nd Street  
Hays, Kans  
67601as

**Thomas Farms #C-2**

Job Ticket: 18828      **DST#: 2**

ATTN: Herb Deines

Test Start: 2012.01.30 @ 10:40:00

## Gas Rates Information

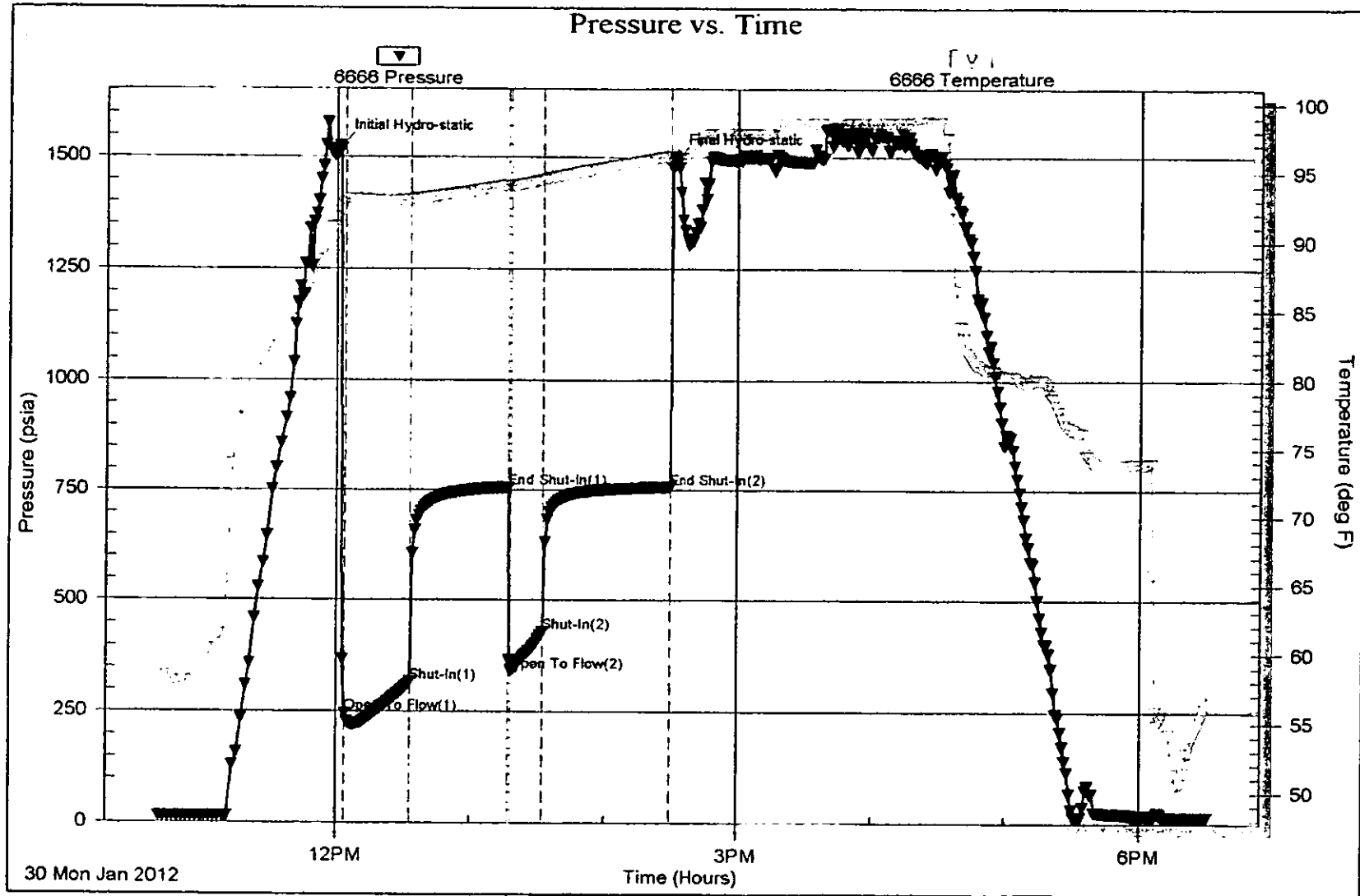
Temperature:            59 (deg F)

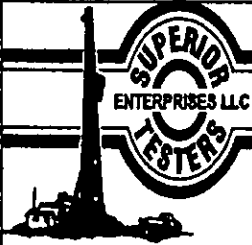
Relative Density:      0.65

Z Factor:                0.8

Gas Rates Table

| Flow Period | Elapsed Time | Choke (inches) | Pressure (psia) | Gas Rate (Mcf/d) |
|-------------|--------------|----------------|-----------------|------------------|
| 1           | 10           | 0.50           | 21.00           | 141.66           |
| 1           | 20           | 0.50           | 18.00           | 121.42           |
| 1           | 30           | 0.50           | 14.50           | 97.81            |





# DRILL STEM TEST REPORT

Carrie Exploration Development

34/ 19S/ 11W Barton Co

210 West 22nd Street  
Hays, Kans  
67601as  
ATTN: Herb Deines

Thomas Farms #C-2

Job Ticket: 18827      DST#:1

Test Start: 2012.01.29 @ 07:15:00

## GENERAL INFORMATION:

Formation: **Lansing "A+B" Zones**

Deviated: No Whipstock:      ft (KB)

Time Tool Opened: 10:07:00

Time Test Ended: 13:42:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dylan E Blis

Unit No: 3345/Great Bend/33

Interval: 3028.00 ft (KB) To 3070.00 ft (KB) (TVD)

Total Depth: 3070.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1779.00 ft (KB)

1771.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6666      Outside

Press@RunDepth: 145.53 psia @ 3066.00 ft (KB)

Start Date: 2012.01.29

End Date:

2012.01.30

Capacity: 5000.00 psia

Last Calib.: 2012.01.30

Start Time: 07:15:00

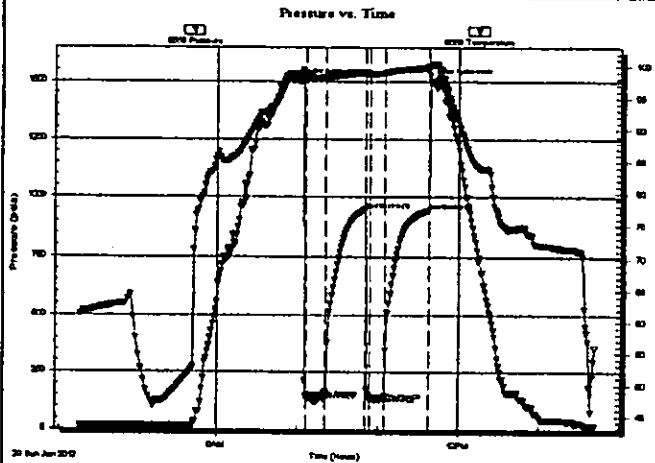
End Time:

13:42:00

Time On Btm: 2012.01.29 @ 10:01:30

Time Off Btm: 2012.01.29 @ 11:39:30

**TEST COMMENT:** 1ST Opening 15 Minutes very strong blow/blow blow to bottom of bucket in 20 seconds  
 1ST Shut-in 30 Minutes no blow back  
 2ND Opening 15 Minutes very very strong blow/blow blow to bottom of bucket instantly  
 2ND Shut-in 30 Minutes no blow back



## PRESSURE SUMMARY

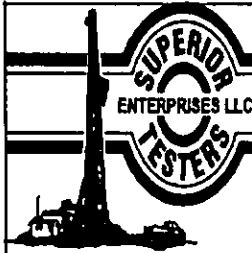
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1499.40         | 98.80        | Initial Hydro-static |
| 6           | 139.12          | 98.72        | Open To Flow (1)     |
| 20          | 163.63          | 98.13        | Shut-in(1)           |
| 49          | 948.52          | 98.96        | End Shut-in(1)       |
| 53          | 127.08          | 98.75        | Open To Flow (2)     |
| 64          | 145.53          | 98.89        | Shut-in(2)           |
| 96          | 943.68          | 99.78        | End Shut-in(2)       |
| 98          | 1497.36         | 100.31       | Final Hydro-static   |

## Recovery

| Length (ft) | Description                       | Volume (bbl) |
|-------------|-----------------------------------|--------------|
| 63.00       | Mud 100%                          | 0.88         |
| 126.00      | Oil cut Mud                       | 1.77         |
| 0.00        | 10% Oil 90% Mud                   | 0.00         |
| 63.00       | Gas cut Oily Mud mixture          | 0.88         |
| 0.00        | 30% Gas 70% Oily-Mud Mixture      | 0.00         |
| 63.00       | Light Water cut Muddy Oil Mixture | 0.88         |

## Gas Rates

|                | Choke (inches) | Pressure (psia) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.50           | 16.70           | 112.65           |
| Last Gas Rate  | 0.50           | 21.00           | 141.66           |
| Max. Gas Rate  | 0.50           | 21.00           | 141.66           |



# DRILL STEM TEST REPORT

Carrie Exploration Development  
 210 West 22nd Street  
 Hays, Kans  
 67601as  
 ATTN: Herb Deines

**34/ 19S/ 11W Barton Co**  
**Thomas Farms #C-2**  
 Job Ticket: 18829      DST#: 3  
 Test Start: 2012.01.31 @ 01:00:00

## GENERAL INFORMATION:

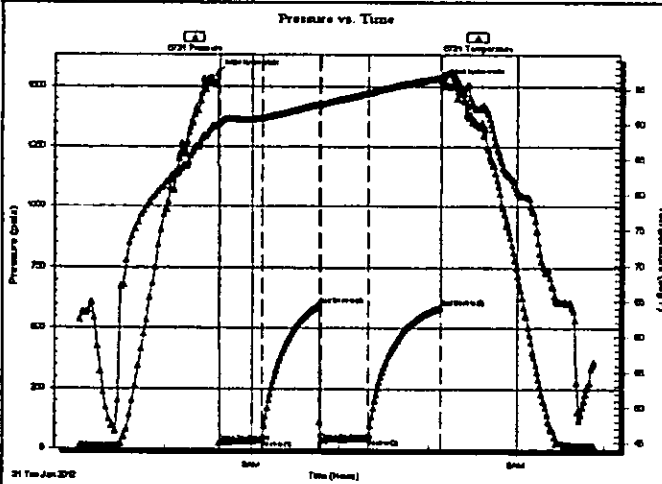
Formation:      Lansing " G " Zone  
 Deviated:      No      Whipstock:      ft (KB)  
 Time Tool Opened: 02:42:00  
 Time Test Ended: 07:06:00  
 Interval:      3120.00 ft (KB) To      3130.00 ft (KB) (TVD)  
 Total Depth:      3130.00 ft (KB) (TVD)  
 Hole Diameter:      7.88 inches Hole Condition: Fair

Test Type:      Conventional Bottom Hole (Initial)  
 Tester:      Dylan E Ellis  
 Unit No:      3345/Great Bend/33  
 Reference Elevations:      1779.00 ft (KB)  
    1771.00 ft (CF)  
 KB to GR/CF:      8.00 ft

Serial #: **6731**      Inside  
 Press@RunDepth:      586.27 psia @      3127.00 ft (KB)  
 Start Date:      2012.01.31      End Date:      2012.01.31  
 Start Time:      01:01:00      End Time:      06:52:30

Capacity:      5000.00 psia  
 Last Calib.:      2012.01.31  
 Time On Btm      2012.01.31 @ 02:36:30  
 Time Off Btm      2012.01.31 @ 05:10:00

TEST COMMENT: 1ST Opening 30 Minutes steady building blow /blow blew to bottom of bucket in 2 minutes  
 1ST Shut-in 45 Minutes no blow back  
 2ND Opening 30 Minutes very strong blow /blow blew to bottom of bucket instantly  
 2ND Shut-in 45 Minutes no blow back



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1553.75         | 89.89        | Initial Hydro-static |
| 1           | 26.44           | 90.13        | Open To Flow (1)     |
| 31          | 33.94           | 90.82        | Shut-in(1)           |
| 70          | 595.97          | 92.87        | End Shut-in(1)       |
| 71          | 32.74           | 92.83        | Open To Flow (2)     |
| 103         | 43.03           | 94.41        | Shut-in(2)           |
| 152         | 586.27          | 96.55        | End Shut-in(2)       |
| 154         | 1519.44         | 96.96        | Final Hydro-static   |

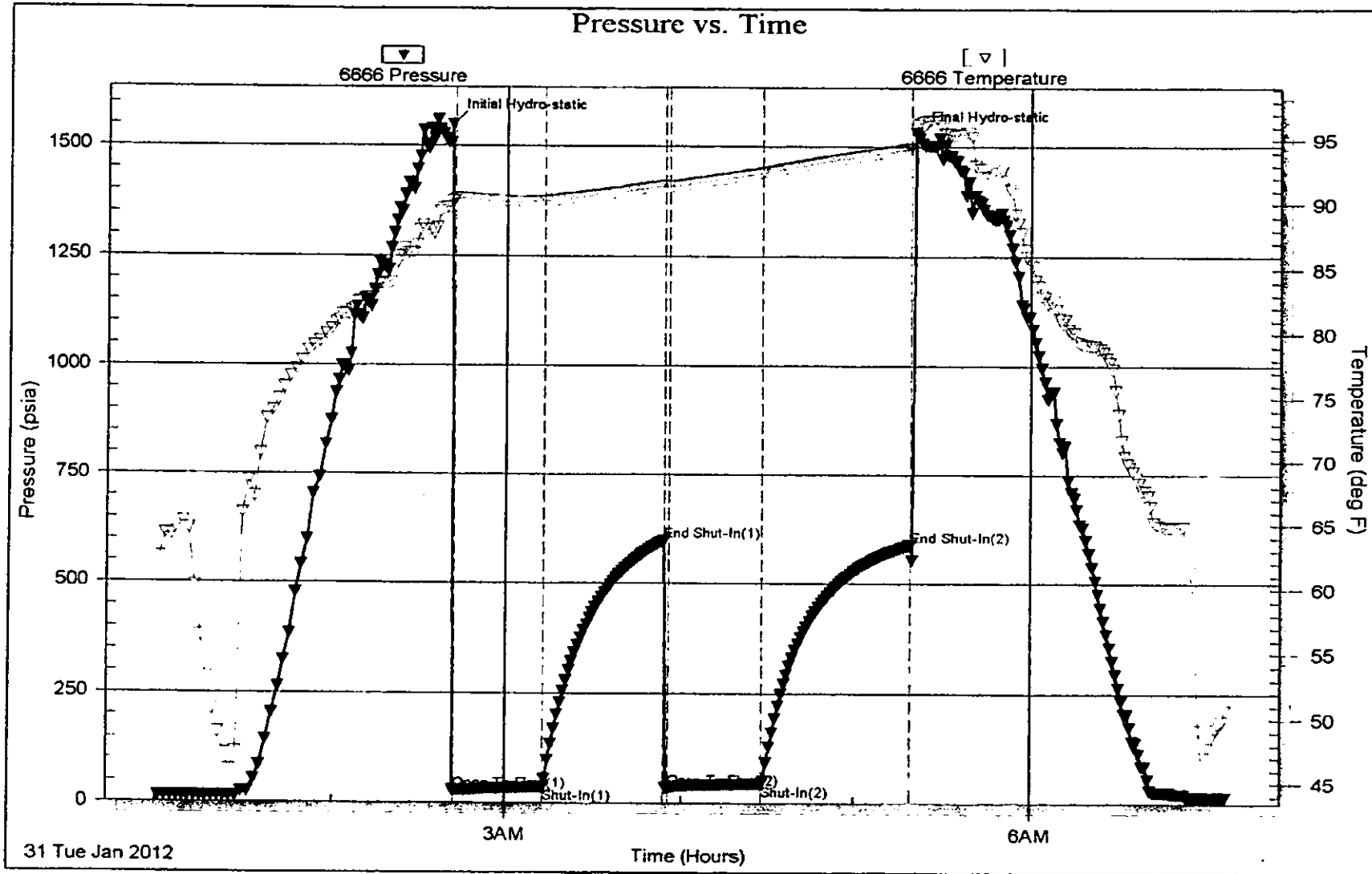
## Recovery

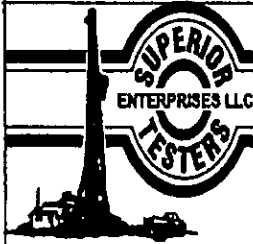
| Length (ft) | Description                       | Volume (bbl) |
|-------------|-----------------------------------|--------------|
| 60.00       | Gassy Oily Watery Mud             | 0.84         |
| 0.00        | 20% Gas 40% Oil 10% Mud 30% water | 0.00         |
| 0.00        | 1674' Gas in the pipe             | 0.00         |
|             |                                   |              |
|             |                                   |              |

## Gas Rates

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







# DRILL STEM TEST REPORT

Carrie Exploration Development  
 210 West 22nd Street  
 Hays, Kans  
 67601as  
 ATTN: Herb Deines

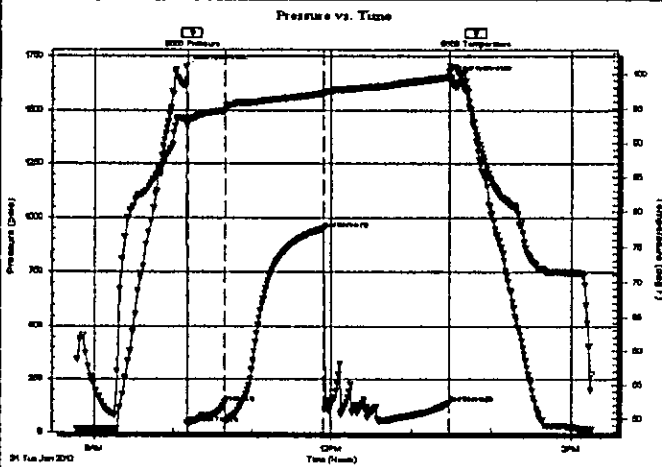
34/ 19S/ 11W Barton Co  
 Thomas Farms #C-2  
 Job Ticket: 18830 DST#: 4  
 Test Start: 2012.01.31 @ 08:46:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: **No Whipstock** ft (KB)  
 Test Type: **Conventional Bottom Hole (Initial)**  
 Time Tool Opened: **10:11:00**  
 Tester: **Dylan E Ellis**  
 Time Test Ended: **15:16:00**  
 Unit No: **3345/Great Bend/33**  
 Interval: **3288.00 ft (KB) To 3315.00 ft (KB) (TVD)**  
 Reference Elevations: **1779.00 ft (KB)**  
 Total Depth: **3315.00 ft (KB) (TVD)**  
**1771.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 KB to GR/CF: **8.00 ft**

Serial #: **6666** Outside  
 Press@RunDepth: **140.01 psia @ 3311.00 ft (KB)** Capacity: **5000.00 psia**  
 Start Date: **2012.01.31** End Date: **2012.02.01** Last Calib.: **2012.02.01**  
 Start Time: **08:46:00** End Time: **15:16:00** Time On Btrn: **2012.01.31 @ 10:10:00**  
 Time Off Btrn: **2012.01.31 @ 13:29:30**

TEST COMMENT: 1ST Opening 30 Minutes very weak blow/blow blew 1 inch into bucket of water  
 1ST Shut-in 110 Minutes no blow back  
 2ND Opening 45 Minutes very weak blow/blow blew 1 inch into bucket of water  
 2ND Shut-in 45 Minutes no blow back



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1696.86         | 93.58        | Initial Hydro-static |
| 30          | 42.14           | 93.19        | Open To Flow (1)     |
| 30          | 140.01          | 94.70        | Shut-In(1)           |
| 80          | 140.01          | 94.70        | Shut-In(1)           |
| 105         | 949.70          | 97.19        | End Shut-In(1)       |
| 198         | 139.10          | 99.51        | End Shut-In(2)       |
| 45          | 139.10          | 99.51        | End Shut-In(2)       |
| 200         | 1642.97         | 101.05       | Final Hydro-static   |

## Recovery

| Length (ft) | Description             | Volume (bbl) |
|-------------|-------------------------|--------------|
| 60.00       | Oil and Mud cut Gas     | 0.84         |
| 0.00        | 10% Oil 30% Mud 60% Gas | 0.00         |
| 0.00        | 189' Gas in the pipe    | 0.00         |
|             |                         |              |
|             |                         |              |

## Gas Rates

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

Serial #: 6666

Outside Carrie Exploration Development

Thomas Farms #C-2

DST Test Number: 4

