



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1211283
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: _____

1211283

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 <i>(Attach Additional Sheets)</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Log | Formation (Top), Depth and Datum | <input type="checkbox"/> Sample |
| Samples Sent to Geological Survey | <input type="checkbox"/> Yes <input type="checkbox"/> No | Name | Top | Datum |
| 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: | | | | |

| 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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ | PRODUCTION INTERVAL: _____ _____ |
|--|---|---|

| | |
|-----------|---------------------------|
| Form | ACO1 - Well Completion |
| Operator | Shakespeare Oil Co., Inc. |
| Well Name | Pammenter 1-4 |
| Doc ID | 1211283 |

All Electric Logs Run

| |
|-----------------|
| |
| Array Induction |
| Photo Density |
| Comp Neutron |
| Microlog |
| Sonic |

| | |
|-----------|---------------------------|
| Form | ACO1 - Well Completion |
| Operator | Shakespeare Oil Co., Inc. |
| Well Name | Pammenter 1-4 |
| Doc ID | 1211283 |

Tops

| Name | Top | Datum |
|-------------------|------|-------|
| Base Anhydrite | 2388 | +646 |
| Heebner | 3978 | -944 |
| Lansing | 4021 | -987 |
| Muncie Creek | 4206 | -1172 |
| Stark Shale | 4316 | -1282 |
| Hushpuckney | 4360 | -1326 |
| Pawnee | 4545 | -1511 |
| L. Cherokee Shale | 4602 | -1568 |
| Johnson | 4666 | -1632 |
| Mississippian | 4795 | -1761 |



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 143277

Invoice Date: May 17, 2014

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

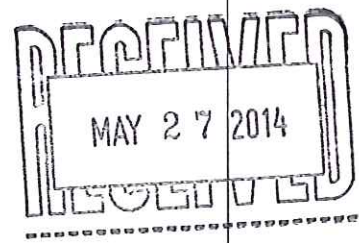
Page: 1

| |
|---|
| Bill To: |
| Shakespeare Oil Co., Inc. 202 West Main St. Salem, IL 62881 |

| Customer ID | Field Ticket # | Payment Terms | |
|--------------|----------------|---------------|----------|
| Shak | 63435 | Net 30 Days | |
| Job Location | Camp Location | Service Date | Due Date |
| KS1-01 | Oakley | May 17, 2014 | 6/16/14 |

| Quantity | Item | Description | Unit Price | Amount |
|----------|--------------------|-----------------------|------------|----------|
| 1.00 | WELL NAME | <u>Pammenter #1-4</u> | | |
| 180.00 | CEMENT MATERIALS | Class A Common | 17.90 | 3,222.00 |
| 3.00 | CEMENT MATERIALS | Gel | 23.40 | 70.20 |
| 6.00 | CEMENT MATERIALS | Chloride | 64.00 | 384.00 |
| 194.64 | CEMENT SERVICE | Cubic Feet Charge | 2.48 | 482.71 |
| 380.70 | CEMENT SERVICE | Ton Mileage Charge | 2.60 | 989.82 |
| 1.00 | CEMENT SERVICE | Surface ✓ | 1,512.25 | 1,512.25 |
| 45.00 | CEMENT SERVICE | Pump Truck Mileage | 7.70 | 346.50 |
| 45.00 | CEMENT SERVICE | Light Vehicle Mileage | 4.40 | 198.00 |
| 1.00 | CEMENT SUPERVISOR | Kelly Gabel | | |
| 1.00 | CEMENT SUPERVISOR | Larene Wentz | | |
| 1.00 | OPERATOR ASSISTANT | Trevor Reed | | |

INT



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

\$ 1,801.37 ✓

ONLY IF PAID ON OR BEFORE Jun 11, 2014

| | |
|------------------------|-----------------|
| Subtotal | 7,205.48 |
| Sales Tax | 299.61 |
| Total Invoice Amount | 7,505.09 |
| Payment/Credit Applied | |
| TOTAL | 7,505.09 |

DW
10502-185
K

ALLIED OIL & GAS SERVICES, LLC 063435

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Oakley, KS

| | | | | | | | |
|--------------------------------|-------------------|--|---------------------|-----------------|-----------------------------|---------------------------|----------------------------|
| DATE <u>5-17-14</u> | SEC. <u>4</u> | TWP. <u>18</u> | RANGE <u>33</u> | CALLED OUT | ON LOCATION <u>12:00 AM</u> | JOB START <u>11:00 AM</u> | JOB FINISH <u>11:30 AM</u> |
| LEASE <u>Payment</u> | WELL # <u>1-4</u> | LOCATION <u>Scott city N to Rd 180</u> | COUNTY <u>Scott</u> | STATE <u>KS</u> | | | |
| OLD OR <u>NEW</u> (Circle one) | | <u>3W 15 W into</u> | | | | | |

CONTRACTOR HV #2
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 268
 CASING SIZE 8 5/8 DEPTH 268
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 15'
 PERFS. _____
 DISPLACEMENT 16 bbl

OWNER same
 CEMENT AMOUNT ORDERED 180 SKS com 30cc
290 gel

COMMON 180 SKS @ 17.90 3222.00
 POZMIX @ _____
 GEL 3 SKS @ 23.90 70.20
 CHLORIDE 6 SKS @ 64.00 384.00
 ASC @ _____

EQUIPMENT
 PUMP TRUCK CEMENTER Kelly Gabel
 # 431 HELPER Larene Wentz
 BULK TRUCK
 # 373 & 308 DRIVER John M. Trever Rec.
 BULK TRUCK (TUS)
 # _____ DRIVER _____

Material Total @ _____ 3676.20
(919.00 / 25%)
 HANDLING 194.64 cu ft @ 2.95 572.71
 MILEAGE 8.46 ton x 45 x 2.00 761.40
 TOTAL _____

REMARKS:
rigged up
mixed cement
displaced with water
shut in
Cement did circulate
Thank You
Kelly Gabel

CHARGE TO: Shakespeare
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE
 DEPTH OF JOB _____ 268'
 PUMP TRUCK CHARGE _____ 1512.35
 EXTRA FOOTAGE @ _____
 MILEAGE M: HV 45 @ 7.10 319.50
 MANIFOLD @ _____
M: LV 45 @ 4.40 198.00
(882.32 / 25%)
 TOTAL 3,507.20

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PLUG & FLOAT EQUIPMENT
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 TOTAL _____

PRINTED NAME Jeff Brock
 SIGNATURE Jeff Brock

SALES TAX (If Any) _____
 TOTAL CHARGES 7,205.48
 DISCOUNT 1,801.37 (25%) IF PAID IN 30 DAYS
5,404.11 Net



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 143526

Invoice Date: May 27, 2014

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

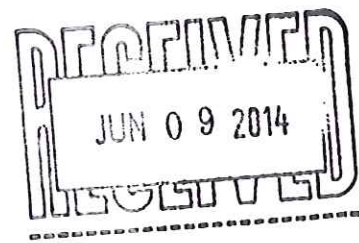
Page: 1

| Bill To: |
|---|
| Shakespeare Oil Co., Inc. 202 West Main St. Salem, IL 62881 |

| Customer ID | Field Ticket # | Payment Terms | |
|--------------|----------------|---------------|----------|
| Shak | 62969 | Net 30 Days | |
| Job Location | Camp Location | Service Date | Due Date |
| KS1-03 | Great Bend | May 27, 2014 | 6/26/14 |

| Quantity | Item | Description | Unit Price | Amount |
|----------|--------------------|-----------------------|------------|----------|
| 1.00 | WELL NAME | Pammenter #1-4 | | |
| 168.00 | CEMENT MATERIALS | <u>Class A Common</u> | 17.90 | 3,007.20 |
| 112.00 | CEMENT MATERIALS | Pozmix | 9.35 | 1,047.20 |
| 10.00 | CEMENT MATERIALS | Gel | 23.40 | 234.00 |
| 70.00 | CEMENT MATERIALS | Flo Seal | 2.97 | 207.90 |
| 300.71 | CEMENT SERVICE | Cubic Feet Charge | 2.48 | 745.76 |
| 564.75 | CEMENT SERVICE | Ton Mileage Charge | 2.60 | 1,468.35 |
| 1.00 | CEMENT SERVICE | Plug ✓ | 2,443.75 | 2,443.75 |
| 45.00 | CEMENT SERVICE | Pump Truck Mileage | 7.70 | 346.50 |
| 45.00 | CEMENT SERVICE | Light Vehicle Mileage | 4.40 | 198.00 |
| 1.00 | CEMENT SUPERVISOR | Tim Dickson | | |
| 1.00 | EQUIPMENT OPERATOR | Kevin Eddy | | |
| 1.00 | EQUIPMENT OPERATOR | Daniel Casper | | |

INT



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

\$ 2,424.67

ONLY IF PAID ON OR BEFORE

Jun 26, 2014

| | |
|------------------------|------------------|
| Subtotal | 9,698.66 |
| Sales Tax | 790.44 |
| Total Invoice Amount | 10,489.10 |
| Payment/Credit Applied | |
| TOTAL | 10,489.10 |

DW
10502-17
KW

ALLIED OIL & GAS SERVICES, LLC 062969

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: North Bend, TX

| | | | | | | | |
|--|--------------|-------------------|---|---------------------------|----------------------------|---------------------------|---------------------------|
| DATE <u>5-27-14</u> | SEC <u>4</u> | TWP. <u>18</u> | RANGE <u>33</u> | CALLED OUT <u>4:00 PM</u> | ON LOCATION <u>8:45 PM</u> | JOB START <u>12:30 AM</u> | JOB FINISH <u>1:30 AM</u> |
| LEASE <u>Perminter</u> | | WELL # <u>1-4</u> | LOCATION <u>Scott City 4 N to 190 Rd.</u> | | | COUNTY <u>Scott</u> | STATE <u>TX</u> |
| OLD OR <input checked="" type="radio"/> NEW (Circle one) | | | <u>3 West 1 South West into</u> | | | | |

CONTRACTOR H.A. Aug 2

TYPE OF JOB Plug

HOLE SIZE 7 7/8 T.D. 4860'

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH 2390'

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

OWNER Same

CEMENT AMOUNT ORDERED 280 lbs 60/40 490 lbs

1/4 # floored/ah

| | | | |
|------------------------|---------------------|----------------|------------------------------|
| COMMON | <u>168</u> | @ <u>17.90</u> | <u>3,007.20</u> |
| POZMIX | <u>112</u> | @ <u>9.35</u> | <u>1,047.20</u> |
| GEL | <u>10</u> | @ <u>23.40</u> | <u>234.00</u> |
| CHLORIDE | _____ | @ _____ | _____ |
| ASC | _____ | @ _____ | _____ |
| <u>flashed</u> | <u>70</u> | @ <u>2.97</u> | <u>207.90</u> |
| <u>Materials Total</u> | | | @ _____ <u>4,496.30</u> |
| <u>Disc</u> | | | @ <u>25%</u> <u>1,124.08</u> |
| <u>Service</u> | | | @ _____ _____ |
| HANDLING | <u>300.71</u> | @ <u>2.48</u> | <u>745.76</u> |
| MILEAGE | <u>12.55 X 45 X</u> | <u>2.40</u> | <u>1,468.35</u> |

EQUIPMENT

PUMP TRUCK CEMENTER Ryan Anderson

366 HELPER Kevin Eddy

BULK TRUCK

110-170 DRIVER Dan Cooper

BULK TRUCK

_____ DRIVER _____

REMARKS:

50 lbs @ 2390'

80 lbs @ 1450'

50 lbs @ 700'

50 lbs @ 300'

20 lbs @ 60'

30 lbs in Rathole

17 lbs

| | | | |
|-------------------|---------------|-----------------|---------------|
| DEPTH OF JOB | <u>2390'</u> | _____ | _____ |
| PUMP TRUCK CHARGE | _____ | <u>2.443.70</u> | _____ |
| EXTRA FOOTAGE | _____ | @ _____ | _____ |
| MILEAGE | <u>Hum 45</u> | @ <u>7.70</u> | <u>346.50</u> |
| MANIFOLD | _____ | @ _____ | _____ |
| | <u>Hum 45</u> | @ <u>4.40</u> | <u>198.00</u> |

CHARGE TO: Shakespeare Oil, Co.

STREET _____

CITY _____ STATE _____ ZIP _____

(25%) TOTAL 5,202.36
1,300.59

PLUG & FLOAT EQUIPMENT

| | | |
|-------|---------|-------|
| _____ | @ _____ | _____ |
| _____ | @ _____ | _____ |
| _____ | @ _____ | _____ |
| _____ | @ _____ | _____ |
| _____ | @ _____ | _____ |

(0%) TOTAL 0

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (if Any) _____

TOTAL CHARGES 9,698.66

DISCOUNT 2,424.67 (25%/10)

IF PAID IN 30 DAYS

PRINTED NAME Jeff Brock

SIGNATURE Jeff Brock

7,273.99

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY **SHAKESPEARE OIL CO.** ELEVATIONS
 LEASE **Pamunater 1-4** KG 3034'
 FIELD **Wildcat** DF _____
 LOCATION **640 FNL, 335 FWL** GL 3024'
 SEC **4 T15P 18S R0E 33W**
 COUNTY **Scott** STATE **Kansas** Measurements Are All From **KB**

CONTRACTOR **HD Rig #2** From **KB**
 SPUD **5-16-14** COMP **5-26-14**
 RTD **4860'** LTD **4856'** CASING
 MUD UP **3300'** TYPE MUD **Chemical** CONDUCTION **N/A**
 SAMPLES SAVED FROM **3800'** to **RTD** SURFACE **8-5/8" @ 265'**
 DRILLING TIME KEPT FROM **3800'** to **RTD** PRODUCTION **None**
 SAMPLES EXAMINED FROM **3800'** to **RTD**
 GEOLOGICAL SUPERVISION FROM **3900'** to **RTD**

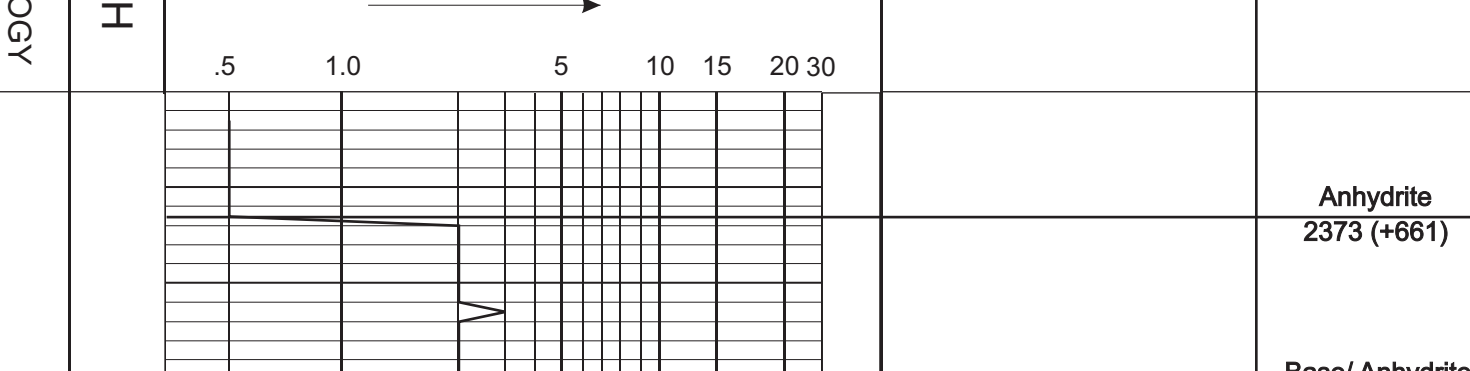
GEOLOGIST ON WELL **Tim Priest** By: **Weatherford**

FORMATION TOPS ELECTRIC LOG SAMPLE
 Anhydrite 2372 (+662) 2373 (+661)
 Heebner Shale 3978 (+944) 3981 (+947)
 Jansing 4021 (+987) 4026 (+992)
 Stark 4316 (+1282) 4321 (+1287)
 B/K.C. 4416 (+1382) 4419 (+1385)
 Fort Scott 4594 (+1588) 4598 (+1594)
 Cherokee Shale 4622 (+1588) 4624 (+1590)
 Mississippian 4795 (+1761) 4793 (+1759)

REMARKS Due to the results of DSTs, it was decided to plug and abandon the well.

Respectfully Submitted,

API #15-171-21055-00-00 Tim Priest
 Petroleum Geologist



LEGEND

Anhydrite Sandstone Limestone Shale Carb Sh Cherty LS Chert Dolomite

DEPTH **LITHOLOGY** **SAMPLE DESCRIPTION** **REMARKS**

DRILLING TIME IN MINUTES PER FOOT
 Rate of Penetration Decreases →

2400
3800
50
3900
50
4000
50
4100
50
4200
50
4300
50
4400
50
4500
50
4600
50
4700
50
4800

Anhydrite 2373 (+661)
 Base/ Anhydrite 2391 (+643)

Sh blk, carb
 Ls crm-tl gry, fn xtl, fos, chky, p-f int xtl-pp por, NS
 Sh red-gry
 Ls crm-tan, fn-med xtl, fos, p-f int xtl por, NS
 Sh blk, carb
 Ls tan-gry, vfn xtl, sli chty, dnse
 Ls crm-tan, fn-med xtl, fos, f-gd int xtl por, NS
 Sh red-gm, calc
 Ls crm-gry, fn xtl, fos, chky, f-gd int frag por, NS
 Sh blk, carb

Heebner 3981 (-947)
 Toronto 3997 (-963)
 Lansing 4026 (-992)

Ls crm-tl gry, mic xtl, sli chty, dnse
 Ls crm-tl gry, vfn xtl, sil fos, sli chky, dnse
 Sh red-gry
 Ls crm-tl gry, vfn xtl, sli fos, sli chky, dnse
 Ls crm-tl gry, vfn xtl, sli fos, sli chky, dnse
 Sh gry
 Ls crm-tl gry, fn xtl, fos, arg in prt, p-f int xtl por, NS
 Ls crm-tl gry, vfn xtl, dnse
 Ls crm, fn xtl, fos-sli ool, chky, p int frag por, NS
 Sh grn-gry
 Ls crm, fn-med xtl, dolo, p-f int xtl por, NS
 Ls crm-tl gry, fn xtl, fos, p-f int xtl-pp por, NS
 Ls crm-tl gry, vfn xtl, dnse

Muncie Creek 4211 (-1171)

Sh blk, carb
 Ls crm-tl gry, vfn xtl, sli chty, dnse
 Ls crm-tl gry, fn xtl, fos-ool, chky, p-f int frag por, NS
 Ls crm-tl gry, vfn xtl, dnse
 Ls crm-tan, fn xtl, sli fos, sli chty, dnse
 Sh blk, carb
 Ls lt gry, mic xtl, dnse
 Ls crm-tl gry, fn xtl, fos-ool, chky, p-f int frag por, NS
 Ls lt gry, vfn xtl, dnse
 Ls crm-tan, fn xtl, ool, f-gd int ool por w/few ooc, NS
 Ls crm-tl gry, vfn xtl, sli chty dnse

Stark Shale 4321 (-1287)

Sh blk, carb
 Ls crm-tan, fn-vfn xtl, ool, p-f int ool por, NS
 Ls crm-tl gry, fn xtl, fos, arg in prt, dnse
 Ls crm-tl gry, vfn xtl, dnse
 Ls crm-tl gry, fn xtl, fos, p-f int xtl-pp por, NS
 Sh blk, carb
 Ls crm-tan, vfn xtl, dnse
 Ls crm-tl gry, fn xtl, fos, p-f int xtl-pp por, NS
 Ls crm-tl gry, vfn xtl, dnse

Hushpuckney Shale 4366 (-1332)

Sh blk, carb
 Ls crm-tan, vfn xtl, dnse
 Ls crm-tl gry, vfn xtl, dnse
 Sh blk, carb
 Ls red-gm-gry
 Ls crm-tl gry, fn xtl, sli fos, sli chky, dnse
 Ls crm-tl gry, vfn xtl, dnse
 Sh blk, carb
 Sh var col, silty
 Ls crm-tan-brn, mic xtl, dnse
 Sh grn-gry, silty

B/K.C. 4419 (-1385)

Marmaton 4474 (-1440)

Ls crm-tan, vfn xtl, sli ool, sli chty, dnse
 Ls crm-tan, vfn xtl, sli ool, v chky, sli chty, dnse
 Sh red-gm-gry
 Ls crm-tl gry, mic xtl, sli chty, dnse
 Ls crm-tan, vfn xtl, sli ool, v chky, p-f int ool por, NS
 Sh grn-gry
 Ls crm-tl gry, mic xtl, sli chty, dnse
 Sh blk, carb

Pawnee 4553 (-1519)

Ls crm-tan, fn xtl, sli fos, arg in prt, chky, p-f int frag por,
 Ls crm-tan, vfn xtl, chty, dnse
 Sh blk, carb
 Ls crm-gry, fn-vfn xtl, sli fos, sli chky, dnse
 Sh blk, carb
 Ls crm-tan, fn xtl, fos-sli ool, sli chky, p int xtl-pp por, sptd stn on few pcs, VSSFQ, v sli odor, no fluor
 Ls tan-gry, vfn xtl, dnse

Myric Station 4585 (-1551)

Fort Scott 4598 (-1594)

Cherokee Shale 4624 (-1590)

Sh blk, carb
 Ls crm-tan-gry motld, fn xtl, fos, chky, dnse
 Sh grn-gry
 Ls crm-tl gry, vfn xtl, dnse
 Ls tan-gry, vfn xtl, w/int bed blk carb Sh
 Ls crm-tl gry, vfn xtl, dnse
 Sh grn-gry

Johnson Zone 4689 (-1635)

Ls crm-tl gry, vfn xtl, sli fos, sli chty, dnse
 Ls tan-gry, vfn xtl, sli chty, dnse
 Ls crm-tan, fn xtl, chky, p-f int xtl-pp por, sptd stn on 2 pcs, VSSFQ, v sli odor, no fluor
 Ls crm-tl gry, vfn xtl, sli chty, dnse
 Ls tan-gry, vfn xtl, dnse
 Sh grn-dk gry, silty-fn sandy
 SS wh-gry, fn gm, w/gm-gry Sh, NS
 Sh dk gry-blk
 Sh dk gry-blk, w/int bed gry SS, NS

Mississippian 4793 (-1759)

Ls crm, vfn xtl, sandy, dnse
 Ls crm-tl gry, vfn xtl, v sandy, chky, sli fria, most dnse
 Ls crm-tan, vfn xtl, sandy, dnse
 Ls crm-tl gry, vfn xtl, sandy, chky, dnse
 Ls crm-tl gry, vfn xtl, sandy, chky, dnse

Total Depth 4860' (-1826)

DST # 1 (4578'-4620')
 FF: 14 in, no return
 PF: 6 in, no return
 Rec: 200 GIP, 108' OCM (10% O.90% M), 117' GOCM (5% O, 10% O, 50% M)
 Fps: 21-90/62-124#
 SIPs: 1180#/1184#
 HSPs: 2308#/2258#
 BH: 130 deg F

DST # 2 (4576'-4740')
 FF: 6 in, no return
 PF: 6 in, no return
 Rec: 200 GIP, 108' OCM (10% O.90% M), 117' GOCM (5% O, 10% O, 50% M)
 Fps: 21-90/62-124#
 SIPs: 1180#/1184#
 HSPs: 2308#/2258#
 BH: 130 deg F



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Company, Inc.

4-18s-33w Scott Co. KS

202 W Main St
Salem IL 62881-1519

Pammenter 1-4

Job Ticket: 57009

DST#: 1

ATTN: Tim Priest

Test Start: 2014.05.23 @ 20:05:00

GENERAL INFORMATION:

Formation: **Fort Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:13:15

Time Test Ended: 03:52:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Jace McKinney

Unit No: 75

Interval: 4578.00 ft (KB) To 4620.00 ft (KB) (TVD)

Reference Elevations: 3034.00 ft (KB)

Total Depth: 4620.00 ft (KB) (TVD)

3024.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8675 Inside

Press @ Run Depth: 19.83 psig @ 4579.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.23

End Date:

2014.05.24

Last Calib.: 2014.05.24

Start Time: 20:05:15

End Time:

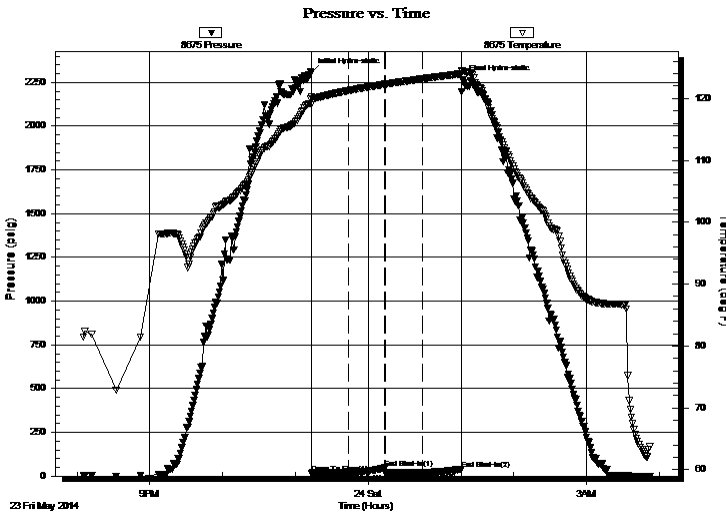
03:52:45

Time On Btm: 2014.05.23 @ 23:13:00

Time Off Btm: 2014.05.24 @ 01:18:00

TEST COMMENT: Built to 1/4" blow and stayed
No return blow
No blow
No return blow

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2306.40 | 120.31 | Initial Hydro-static |
| 1 | 17.85 | 119.05 | Open To Flow (1) |
| 31 | 18.50 | 121.28 | Shut-In(1) |
| 61 | 47.06 | 122.30 | End Shut-In(1) |
| 61 | 19.01 | 122.29 | Open To Flow (2) |
| 92 | 19.83 | 123.19 | Shut-In(2) |
| 124 | 39.42 | 124.00 | End Shut-In(2) |
| 125 | 2263.70 | 124.40 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 5.00 | 100% Mud | 0.02 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Company, Inc.

4-18s-33w Scott Co. KS

202 W Main St
Salem IL 62881-1519

Pammenter 1-4

Job Ticket: 57009

DST#: 1

ATTN: Tim Priest

Test Start: 2014.05.23 @ 20:05:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|-------------|----------------|
| 5.00 | 100% Mud | 0.025 |

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8675

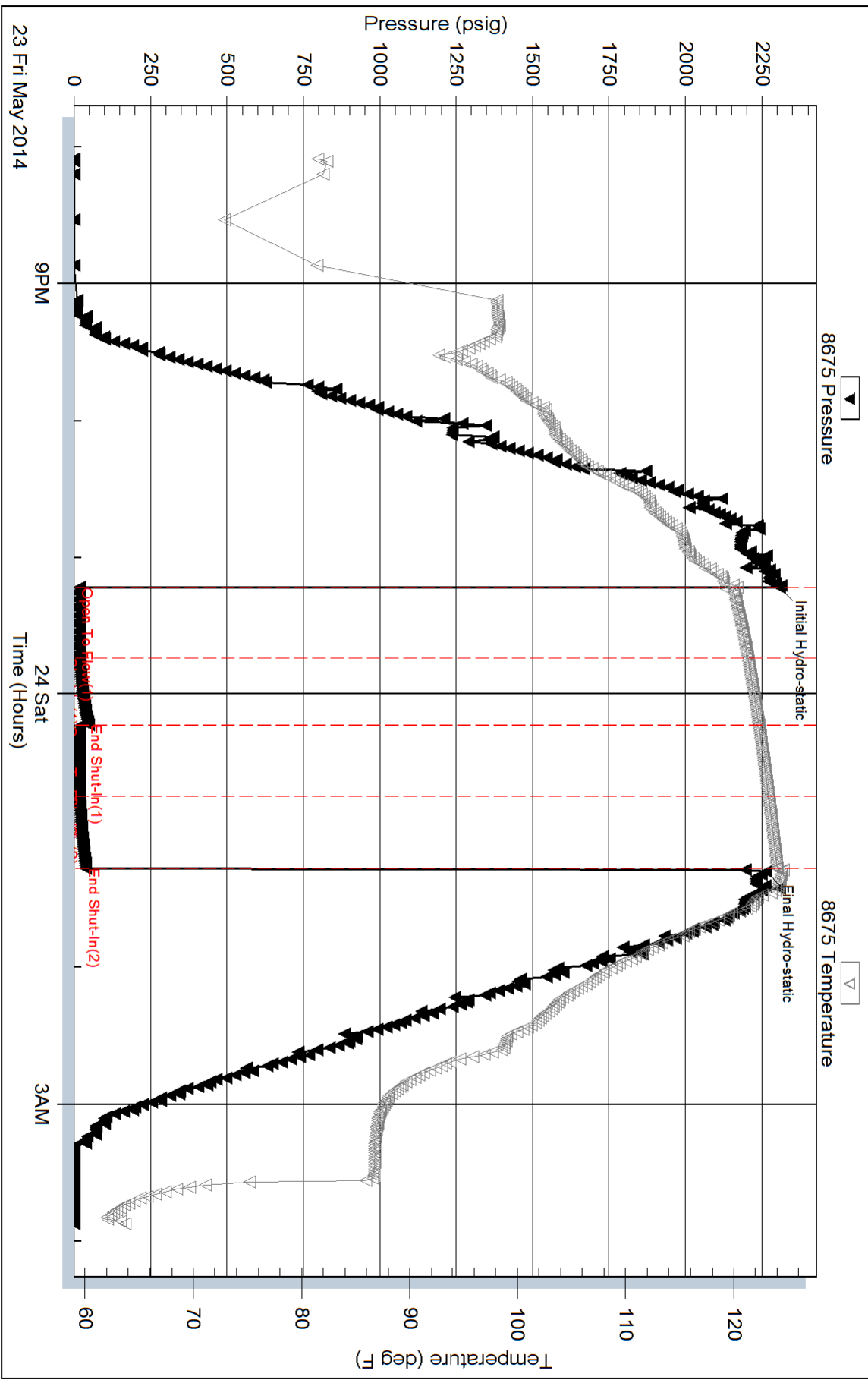
Inside

Shakespeare Oil Company, Inc.

Panmenter 1-4

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 57009

Printed: 2014.05.24 @ 06:34:53



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Company, Inc.

4-18s-33w Scott Co. KS

202 W Main St
Salem IL 62881-1519

Pammenter 1-4

Job Ticket: 57010

DST#: 2

ATTN: Tim Priest

Test Start: 2014.05.25 @ 02:38:00

GENERAL INFORMATION:

Formation: **Johnson Zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:08:15

Time Test Ended: 12:26:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 75

Interval: 4676.00 ft (KB) To 4740.00 ft (KB) (TVD)

Reference Elevations: 3034.00 ft (KB)

Total Depth: 4740.00 ft (KB) (TVD)

3024.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8675

Inside

Press @ Run Depth: 123.79 psig @ 4677.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.25 End Date: 2014.05.25

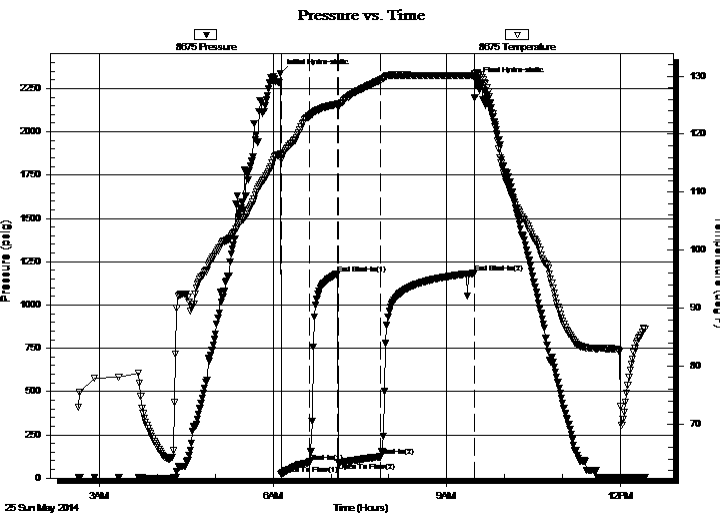
Last Calib.: 2014.05.25

Start Time: 02:38:15 End Time: 12:26:00

Time On Btm: 2014.05.25 @ 06:08:00

Time Off Btm: 2014.05.25 @ 09:31:00

TEST COMMENT: Built to 6" blow
Bled off for 3 min. No return blow
Built to 9 1/2" blow
Bled off for 5 min. Built to 1" return blow, died in 45 min.



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2336.31 | 116.60 | Initial Hydro-static |
| 1 | 21.40 | 115.54 | Open To Flow (1) |
| 30 | 89.70 | 123.07 | Shut-In(1) |
| 59 | 1180.22 | 125.20 | End Shut-In(1) |
| 60 | 92.32 | 124.75 | Open To Flow (2) |
| 104 | 123.79 | 129.34 | Shut-In(2) |
| 201 | 1183.51 | 130.12 | End Shut-In(2) |
| 203 | 2288.83 | 130.64 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------------|--------------|
| 0.00 | 200 Feet Weak Gas In Pipe | 0.00 |
| 117.00 | gcom 5%G 10%O 85%M | 0.58 |
| 108.00 | ocm 10%O 90%M | 1.51 |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Company, Inc.

4-18s-33w Scott Co. KS

202 W Main St
Salem IL 62881-1519

Pammenter 1-4

Job Ticket: 57010

DST#: 2

ATTN: Tim Priest

Test Start: 2014.05.25 @ 02:38:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|---------------------------|----------------|
| 0.00 | 200 Feet Weak Gas In Pipe | 0.000 |
| 117.00 | gcom 5%G 10%O 85%M | 0.575 |
| 108.00 | ocm 10%O 90%M | 1.508 |

Total Length: 225.00 ft

Total Volume: 2.083 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8675

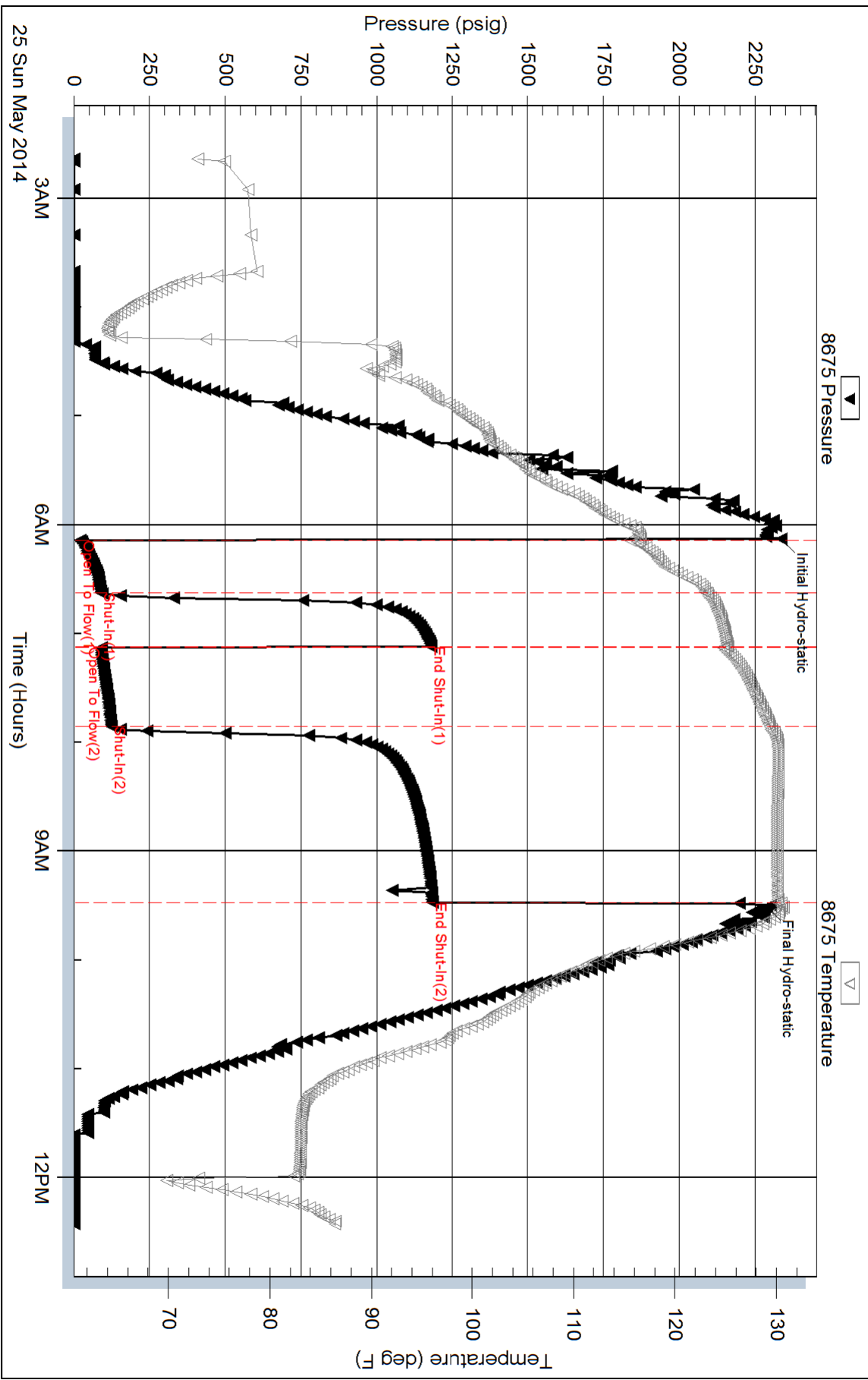
Inside

Shakespeare Oil Company, Inc.

Panmenter 1-4

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 57010

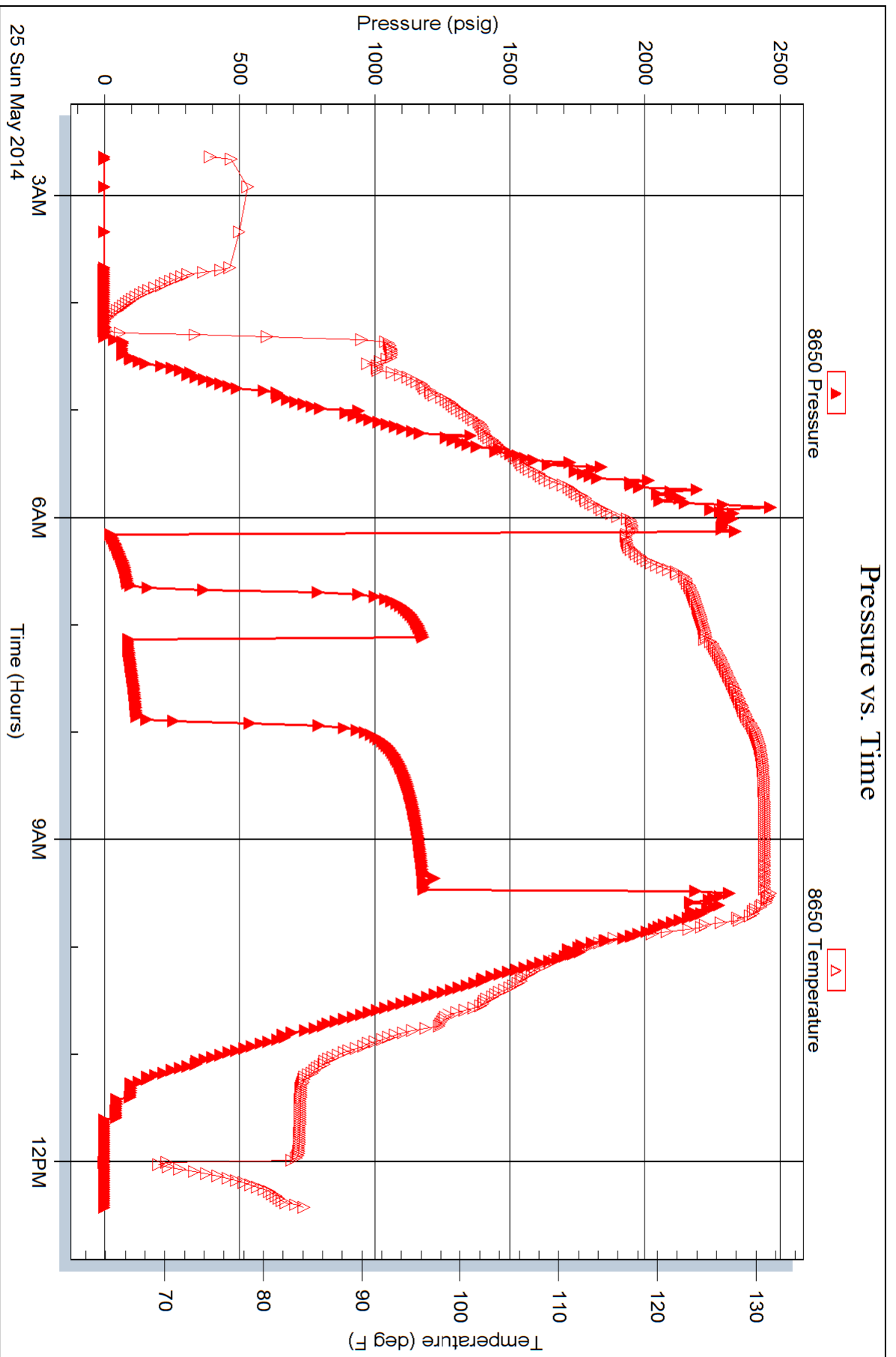
Printed: 2014.05.25 @ 16:18:49

Serial #: 8650

Outside Shakespeare Oil Company, Inc.

Panmenter 1-4

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 57010

Printed: 2014.05.25 @ 16:18:50