



KANSAS CORPORATION COMMISSION 1067539
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 # 31725
Name: Shelby Resources LLC
Address 1: 445 Union Boulevard
Address 2: Suite 208
City: LAKEWOOD State: CO Zip: 80228 + _____
Contact Person: Chris Gottschalk
Phone: (785) 623-1524
CONTRACTOR: License # 5142
Name: Sterling Drilling Company
Wellsite Geologist: Charlie Sturdavant
Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SLOW
- 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 #: _____

| | | |
|-----------------------------------|-------------------|---|
| <u>01/14/2011</u> | <u>01/26/2011</u> | <u>02/16/2011</u> |
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |

API No. 15 - 15-145-21625-00-00

Spot Description: _____

NW NE NE SE Sec. 7 Twp. 22 S. R. 16 East West

2650 Feet from North / South Line of Section

440 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Pawnee

Lease Name: Eakin Unit Well #: #1-7

Field Name: _____

Producing Formation: Arbuckle

Elevation: Ground: 2010 Kelly Bushing: 2018

Total Depth: 3988 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 1019 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: 8000 ppm Fluid volume: 6500 bbls

Dewatering method used: Evaporated

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

- Letter of Confidentiality Received
Date: 11/11/2011
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: Deanna Gamisor Date: 11/15/2011



1067539

Operator Name: Shelby Resources LLC Lease Name: Eakin Unit Well #: #1-7
 Sec. 7 Twp. 22 S. R. 16 East West County: Pawnee

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 (Attach Additional Sheets) | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Log | Formation (Top), Depth and Datum | <input checked="" type="checkbox"/> Sample |
| Samples Sent to Geological Survey | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Name | Top | Datum |
| Cores Taken | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Heebner | 3428 | -1410 |
| Electric Log Run | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Toronto | 3442 | -1424 |
| Electric Log Submitted Electronically (If no, Submit Copy) | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Lansing | 3536 | -1518 |
| List All E. Logs Run: | | Base KC | 3792 | -1774 |
| Attached | | Marmaton | 3804 | -1786 |
| | | Arbuckle | 3886 | -1868 |

| 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 | 8.625 | 23 | 1019 | 60/40 Poz | 400 | 2%gel/3%cc |
| Production | 7.875 | 5.5 | 15.5 | 3972 | AA2 | 200 | 2%gel/3%cc |
| | | | | | | | |

| ADDITIONAL CEMENTING / SQUEEZE RECORD | | | | |
|---------------------------------------|------------------|----------------|--------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| ___ Perforate | | | | |
| ___ Protect Casing | - | | | |
| ___ Plug Back TD | - | | | |
| ___ Plug Off Zone | - | | | |

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) | Depth |
|----------------|---|---|-------|
| 2 | 3909 & 3912 | 150 gal 20% NE | |
| | | | |
| | | | |
| | | | |

| | | | | |
|---|---|---------------------|-----------------------|---|
| TUBING RECORD: | Size: <u>2.375</u> | Set At: <u>3903</u> | Packer At: | Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Date of First, Resumed Production, SWD or ENHR. | Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____ | | | |
| Estimated Production Per 24 Hours | Oil Bbls. <u>41</u> | Gas Mcf | Water Bbls. <u>38</u> | Gas-Oil Ratio |
| | | | | Gravity |

| | | |
|--|---|--|
| DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.) | METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. (Submit ACO-5) <input type="checkbox"/> Commingled (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____ | PRODUCTION INTERVAL: <u>3909-12</u> |
|--|---|--|

| | |
|-----------|------------------------|
| Form | ACO1 - Well Completion |
| Operator | Shelby Resources LLC |
| Well Name | Eakin Unit #1-7 |
| Doc ID | 1067539 |

All Electric Logs Run

| |
|-----------------------------|
| |
| Dual Induction |
| Compensated Neutron Density |
| Micro |
| Sonic |
| Cement Bond |



Eakin Unit #1-7

W/2-E/2-E/2-E/2
2640' FNL & 445' FEL
Sec. 7, T22s-R16w
Pawnee County, Kansas

CAPTIVA II, LLC

API # 15-145-21625-0000

Spud Date: 1/14/2011

Completed:

Field: Wildcat

GL: 2007'

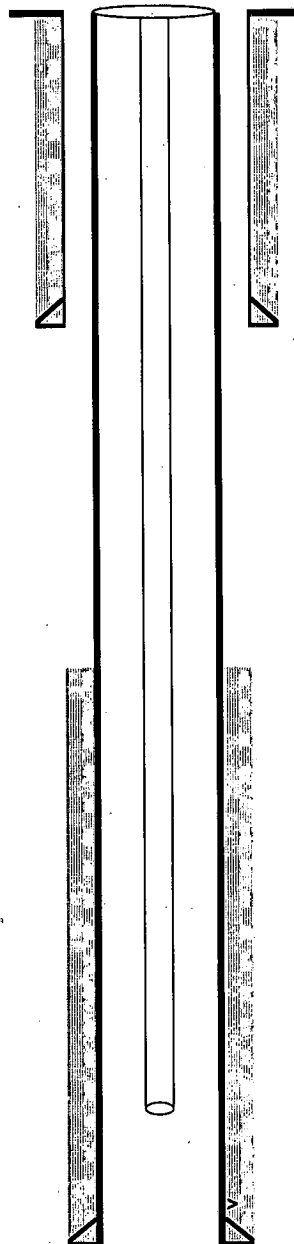
KB: 2018'

Surface Casing :

8-5/8" 23# set @ 1019'
Cemented with sx
400 sx 60/40 Poz-Mix

Production Casing:

5-1/2", 15.5# set @ 3972'
Cemented with sx
50 sx 60/40 scavenger
200 sx AA2



TOC: Surface

Pumping Unit:
Parkersburg 160-64

Tubing:
124 x 2-3/8"

Rods:
156 x 3/4"

Pump:
2" x 1.5" x 12' RWT

TOC:2692' CBL

Arbuckle perms:

3909' & 3912' (2) 2/11/11 150 gal 20% NE

{ }
{ }
PBD: 3940'
TD: 3988'



CAPTIVA II, LLC

Eakin Unit # 1-7/Casing Report

API# 15-145-21625-0000

W/2-E/2-E/2-E/2

2640' FNL & 445' FEL

Sec. 7, T22s-R16w

Pawnee County, Kansas

GL: 2007'

KB: 2018'

1/15/2011

Surface Casing

Spud at 9:00 p.m. on 1/14/11. Drill 12 $\frac{1}{4}$ " hole to 1024'. Ran **24 joints of new 8 $\frac{1}{8}$ " S-23# casing**, tallied 1006.54' and **set at 1019' KB**. Cemented by Quality [redacted] cement did circulate. Plug down at 11:45 p.m. a.m. welded straps on the bottom 3 joints and welded straps on the top 5 joints.

1/25/11

Production Casing

On location @ 2:00 p.m. RIH with drill pipe and condition the hole. Laying down drill pipe and collars, Begin running **95 joints 5 $\frac{1}{2}$ " (15.5#) S-55 casing**. Shoe joint was 20.90'. Insert @ 3951.32'. Marker joint was 8 joints off bottom and measured 20.93'. **Set casing @ 3972.22' KB**. Landed casing 15.78' off RTD 3990' and LTD, 3988'. Ran a basket and insert on top of #1 and centralizers on #2, #4, #6, #8, #10, #12 and #14. Landed casing @ 5:00 p.m. (1/25/11) Circulate hole for 60 minutes to lower viscosity in mud. RU Basic Services, plug RH with 30 sx. and MH with 20 sx. [redacted]

[redacted] Had good circulation throughout the job. Plug down @ 6:45 p.m. and held 1500#. Release pressure and float held. Release Sterling Rig #4 @ 10:45 p.m.

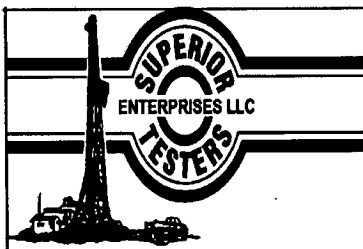
| DRILLING WELL | | | | | COMPARISON WELL | | | |
|----------------------------|--------|---------|------|---------|----------------------------|---------|--------|-----|
| Captive II #1-7 Eakin Unit | | | | | Captive II #2-7 Eakin Unit | | | |
| 2676' FNL & 423' FEL | | | | | | | | |
| 2051' FSL & 1500' FEL | | | | | | | | |
| Sec. 7, T22S R16W | | | | | Sec. 7, T22S R16W | | | |
| | | | | | Structural | | | |
| 2018 KB | | | | | 2018 KB Relationship | | | |
| Formation | Sample | Sub-Sea | Log | Sub-Sea | Log | Sub-Sea | Sample | Log |
| Anhydrite | 1015 | 1003 | 1010 | 1008 | 1020 | 998 | 5 | 10 |
| Topeka | 3062 | -1044 | 3060 | -1042 | 3078 | -1060 | 16 | 18 |
| Heebner | 3428 | -1410 | 3424 | -1406 | 3443 | -1425 | 15 | 19 |
| Toronto | 3442 | -1424 | 3443 | -1425 | 3462 | -1444 | 20 | 19 |
| Douglas | 3464 | -1446 | 3461 | -1443 | 3478 | -1460 | 14 | 17 |
| Brown Lime | 3527 | -1509 | 3525 | -1507 | 3543 | -1525 | 16 | 18 |
| Lansing | 3536 | -1518 | 3534 | -1516 | 3552 | -1534 | 16 | 18 |
| Muncie Creek | 3664 | -1646 | 3661 | -1643 | 3676 | -1658 | 12 | 15 |
| Stark Shale | 3729 | -1711 | 3729 | -1711 | 3748 | -1730 | 19 | 19 |
| Base KC | 3792 | -1774 | 3792 | -1774 | 3801 | -1783 | 9 | 9 |
| Marmaton | 3804 | -1786 | 3801 | -1783 | 3816 | -1798 | 12 | 15 |
| Arbuckle | 3886 | -1868 | 3883 | -1865 | 3916 | -1898 | 30 | 33 |
| Total Depth | 4000 | -1982 | 3988 | -1970 | 4025 | -2007 | 25 | 37 |

Custom Header 2

| | | | | | | | |
|---|-------------------------------|---|--|------------------------|-----------------------|--|--|
| Company: | Charlie Sturdavant Consulting | | | Well: | #1-7 Eakin Unit | | |
| | 920 12th Street | | | Location: | 2676' FNL & 423' FEL | | |
| | Golden, CO 80401 | | | | Sec. 7 T22S R16W | | |
| | | | | | Pawnee County, KS | | |
| Captive II | Office: 303-274-4682 | | | Elevation: | 2007' KB 2018' GL | | |
| Jim Waechter | Cell: 303-478-3388 | | | Field: | Wildcat | | |
| Wellsite Geologist: Charlie Sturdavant | Cell: (303) 907-2295 | | | API No.: | 15-145-21625-0000 | | |
| | Office: (303) 384-9481 | | | Surface Casing: | 8 5/8" set @ 1021' KB | | |
| Drilling Contractor: Sterling Drilling Rig #2 620-388-5651, Tool Pusher: Shane Downs, cell: 620-388-3474 | | | | | | | |
| DATE | 7:00 AM DEPTH | REMARKS | | | | | |
| 1/14/2011 | 0 ft. | Moving into location. | | | | | |
| 1/15/2011 | 569 ft. | Drilling ahead. | | | | | |
| 1/16/2011 | 1024 ft. | Waiting on cement. Set 1019 ft. of 8 5/8" surface casing. | | | | | |
| 1/17/2011 | 2016 ft. | Drilling ahead. | | | | | |
| 1/18/2011 | 2881 ft. | Drilling ahead. | | | | | |
| 1/19/2011 | 3436 ft. | Servicing rig. | | | | | |
| 1/20/2011 | 3587 ft. | Pulling pipe on drill stem test #1. Not yet finished, but about 140' of total fluid with oil. | | | | | |
| 1/21/2011 | 3622 ft. | Circulating to clean hole after DST #2. Recovered 260' of water, 15% mud, 85%water. | | | | | |
| 1/22/2011 | 3769 ft. | Drilling ahead. No shows in the Lansing J zone last night. DST #3 of the | | | | | |

| | | |
|-----------|----------|--|
| | | Lansing H zone recovered 360' of water, 15% mud, yesterday. |
| 1/23/2011 | 3896 ft. | Pulling DST #4, Arbuckle test. We have GIP, but the draw works engine died with 2 1/4 stands to pull. |
| 1/24/2011 | 3918 ft. | Preparing for DST #6. Yesterday's Arb test recovered 2280' GIP, 420' CGO, 60' SGMO (88% oil). |
| 1/25/2011 | 3990 ft. | Completing logging operations with Superior Well Services. Geologist off location @ 0955 hrs, 1/25/2011 |

Drill Stem Test #1



DRILL STEM TEST REPORT

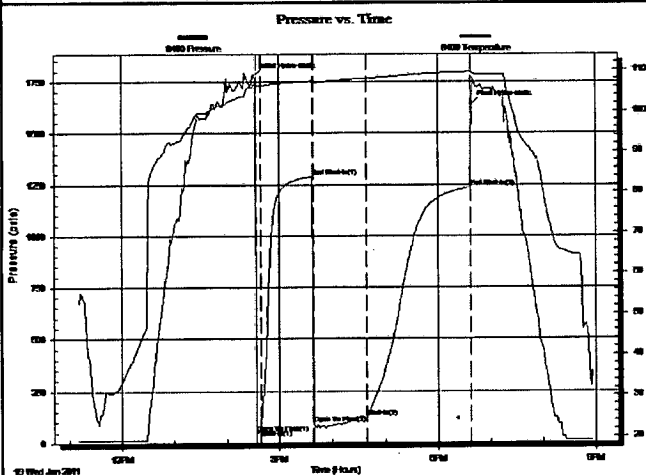
Captiva Eakin Unit # 1-7
 2717 Canal Blvd. Suite C 7/22S/16W Pawnee
 Hays Kansas 67601 Job Ticket: 16018 **DST#: 1**
 ATTN: Charlie Sturdavant Test Start: 2011.01.19 @ 11:11:00

GENERAL INFORMATION:

Formation: **Lansing " B " Zone**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 14:33:30 Tester: Dylan E Ellis
 Time Test Ended: 20:57:00 Unit No: 3345/Great Bend/50
 Interval: **3565.00 ft (KB) To 3587.00 ft (KB) (TVD)** Reference Elevations: 2018.00 ft (KB)
 Total Depth: 3587.00 ft (KB) (TVD) 2007.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 8400 **Outside**
 Press@RunDepth: 123.95 psia @ 3584.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.01.19 End Date: 2011.01.19 Last Calib.: 2011.01.20
 Start Time: 11:11:10 End Time: 20:56:59 Time On Btm: 2011.01.19 @ 14:31:00
Time Off Btm: 2011.01.19 @ 18:38:30

TEST COMMENT: 1ST Opening 5 Minutes weak blow /blow built to 1.50 inches into a 5 gallon bucket of water
 1ST Shut-In 60 Minutes no blow back
 2ND Opening 60 Minutes weak blow at first/blow blew to bottom of a bucket of water in 12 minutes
 2ND Shut-In 120 Minutes no blow back



PRESSURE SUMMARY

| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1777.46 | 106.47 | Initial Hydro-static |
| 3 | 48.50 | 106.17 | Open To Flow (1) |
| 8 | 63.58 | 106.18 | Shut-In(1) |
| 67 | 1288.72 | 107.30 | End Shut-In(1) |
| 68 | 91.90 | 107.02 | Open To Flow (2) |
| 128 | 123.95 | 107.93 | Shut-In(2) |
| 247 | 1236.52 | 109.54 | End Shut-In(2) |
| 248 | 1640.25 | 109.64 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------|--------------|
| 20.00 | Oil cut Mud | 0.10 |
| 0.00 | 10% Oil 90% Mud | 0.00 |

Gas Rates

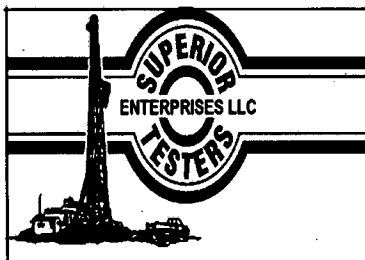
| Choke (inches) | Pressure (psia) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
| | | |

| | | |
|-------|---------------------------|------|
| 63.00 | Mud cut Gassy Oil | 0.31 |
| 0.00 | 40% Gas 40% Oil 20% Mud | 0.00 |
| 63.00 | Oil cut Gassy Mud | 0.31 |
| 0.00 | 20% Oil 40% Mud 40% Gassy | 0.00 |

Superior Testers Enterprises LLC

Ref. No: 16018

Printed: 2011.01.20 @ 12:23:23



DRILL STEM TEST REPORT

Captiva

Eakin Unit # 1-7

2717 Canal Blvd. Suite C
Hays Kansas 67601

7/22S/16W Pawnee

Job Ticket: 16019

DST#: 2

ATTN: Charlie Sturdavant

Test Start: 2011.01.20 @ 19:23:00

GENERAL INFORMATION:

Formation: **LANSING F ZONE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:34:38

Time Test Ended: 03:56:08

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3345-GREAT BEND-50

Interval: **3605.00 ft (KB) To 3622.00 ft (KB) (TVD)**

Total Depth: 3322.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2018.00 ft (KB)

2007.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8405

Inside

Press@RunDepth: 151.46 psia @ 3618.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.01.20

End Date:

2011.01.21

Last Calib.:

2011.01.21

Start Time: 19:23:00

End Time:

03:56:08

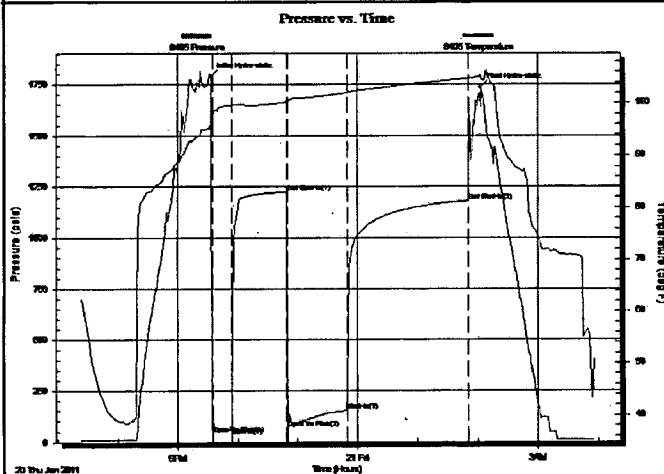
Time On Btm:

2011.01.20 @ 21:33:08

Time Off Btm:

2011.01.21 @ 02:02:38

TEST COMMENT: 15/INITIAL OPEN :WEAK BUT BUILDING BLOW BUILT 3 1/4 INCH INTO WATER IN 15 MINUTES
60/INITIAL SHUT IN:1/2 INCH BLOW BACK
60/FINAL OPEN :WEAK BLOW BUILT BOTTOM OF BUCKET IN 48 MINUTES
120/FINAL SHUT IN :1/4 INCH BLOW BACK



PRESSURE SUMMARY

| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1790.76 | 95.84 | Initial Hydro-static |
| 2 | 40.46 | 97.06 | Open To Flow (1) |
| 21 | 69.11 | 99.58 | Shut-In(1) |
| 76 | 1225.94 | 100.24 | End Shut-In(1) |
| 77 | 64.74 | 100.09 | Open To Flow (2) |
| 137 | 151.46 | 102.00 | Shut-In(2) |
| 257 | 1182.67 | 104.73 | End Shut-In(2) |
| 270 | 1735.26 | 105.33 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------------------|--------------|
| 260.00 | WATER 15%MUD 85%WATER | 1.29 |
| 0.00 | CHLORIDES 43,000 | 0.00 |
| 0.00 | RESISTIVITY .2 @73 DEGREES | 0.00 |

Gas Rates

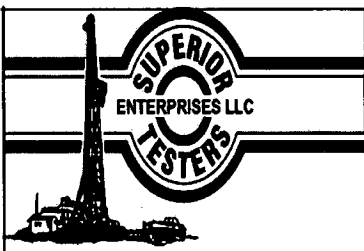
| | Choke (inches) | Pressure (psia) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
| | | | |

| | | |
|--|--|--|
| | | |
| | | |

Superior Testers Enterprises LLC

Ref. No: 16019

Printed: 2011.01.21 @ 04:20:18



DRILL STEM TEST REPORT

Captiva
 2717 Canal Blvd. Suite C
 Hays Kansas 67601
 ATTN: Charlie Sturdavant

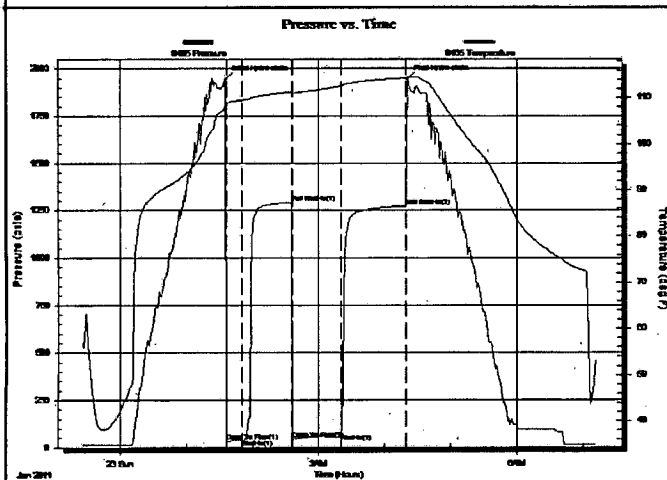
Eakin Unit # 1-7
7/22S/16W Pawnee
 Job Ticket: 16021 DST#: 4
 Test Start: 2011.01.22 @ 23:25:00

GENERAL INFORMATION:

Formation: **ARBUCKLE**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 01:36:06
 Tester: JARED SCHECK
 Time Test Ended: 07:12:06
 Unit No: 3320-GREAT BEND-50
 Interval: **3888.00 ft (KB) To 3896.00 ft (KB) (TVD)**
 Reference Elevations: 2018.00 ft (KB)
 Total Depth: 3896.00 ft (KB) (TVD) 2007.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 11.00 ft

Serial #: **8405** Inside
 Press@RunDepth: 72.60 psia @ 3892.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.01.22 End Date: 2011.01.23 Last Calib.: 2011.01.23
 Start Time: 23:25:00 End Time: 07:12:06 Time On Btm: 2011.01.23 @ 01:35:36
 Time Off Btm: 2011.01.23 @ 04:21:06

TEST COMMENT: 15/INITIAL OPEN:WEAK BUT BUILDING BLOW BUILT 5 INCHES INTO WATER IN 15 MINUTES
 45/INITIAL SHUT IN:NO BLOW BACK
 45/FINAL OPEN:FAIR BLOW BUILT BOTTOM OF BUCKET IN 20 MINUTES
 60/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

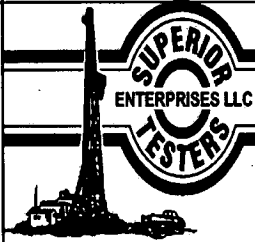
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1947.00 | 108.52 | Initial Hydro-static |
| 1 | 34.99 | 108.41 | Open To Flow (1) |
| 15 | 40.02 | 109.49 | Shut-In(1) |
| 60 | 1291.86 | 111.33 | End Shut-In(1) |
| 61 | 42.87 | 111.09 | Open To Flow (2) |
| 105 | 72.60 | 112.62 | Shut-In(2) |
| 165 | 1273.67 | 114.39 | End Shut-In(2) |
| 166 | 1946.79 | 114.53 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------------------|--------------|
| 420.00 | GAS IN PIPE | 3.53 |
| 130.00 | CLEAN GASSEY OIL 10%GAS 90%OIL | 1.82 |
| 0.00 | | 0.00 |
| | | |
| | | |

Gas Rates

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



DRILL STEM TEST REPORT

Captiva
 2717 Canal Blvd. Suite C
 Hays Kansas 67601
 ATTN: Charlie Sturdavant

Eakin Unit # 1-7
7/22S/16W Pawnee
 Job Ticket: 16022 **DST#: 5**
 Test Start: 2011.01.23 @ 14:45:00

GENERAL INFORMATION:

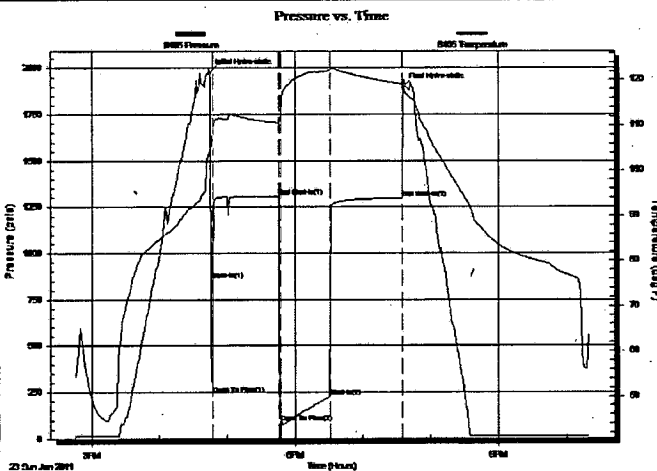
Formation: **ARBCKLE**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:46:35
 Time Test Ended: 22:19:35
 Interval: **3897.00 ft (KB) To 3906.00 ft (KB) (TVD)**
 Total Depth: 3906.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: JARED SCHECK
 Unit No: 3320-GREAT BEND-5
 Reference Elevations: 2018.00 ft (KB)
 2007.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8405

Inside

Press@RunDepth: 224.23 psia @ 3902.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.01.23 End Date: 2011.01.23 Last Calib.: 2011.01.23
 Start Time: 14:45:00 End Time: 22:19:35 Time On Btm: 2011.01.23 @ 16:44:35
 Time Off Btm: 2011.01.23 @ 19:36:05

TEST COMMENT: 15/INITIAL OPEN:WEAK BLOW BUILT 2 1/4 INCHES INTO BUCKET WATER DIED OFF AFTER 8 MINUTES
 45/INITIAL SHUT IN :NO BLOW BACK
 45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET WATER IN 2 MINUTES
 60/FINAL SHUT IN:BLOW BACK BOTTOM OF BUCKET



PRESSURE SUMMARY

| Time (Mn.) | Pressure (psia) | Temp (deg F) | Annotation |
|------------|-----------------|--------------|----------------------|
| 0 | 1977.50 | 104.27 | Initial Hydro-static |
| 2 | 242.44 | 108.37 | Open To Flow (1) |
| 3 | 857.88 | 109.55 | Shut-In(1) |
| 61 | 1306.46 | 110.63 | End Shut-In(1) |
| 62 | 88.09 | 112.30 | Open To Flow (2) |
| 106 | 224.23 | 122.08 | Shut-In(2) |
| 171 | 1298.11 | 119.08 | End Shut-In(2) |
| 172 | 1897.72 | 118.49 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------------------|--------------|
| 60.00 | SLIGHTLY GASSEY MUD CUT OIL | 0.30 |
| 0.00 | 2%GAS 10%MUD 88%OIL | 0.00 |
| 420.00 | CLEAN GASSY OIL 15%GAS 85%OIL | 4.08 |
| 0.00 | 2280 GAS IN PIPE | 0.00 |
| | | |
| | | |

Gas Rates

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

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: Latitude:
 N/S Co-ord: x=1823138
 E/W Co-ord: y=541615

CONTRACTOR

Contractor: Sterling Drilling
 Rig #: 2
 Rig Type: Rotary
 Spud Date: 1/14/2011 Time: 3:34 PM
 TD Date: 1/24/2011 Time: 11:00 PM
 Rig Release: Time:

ROCK TYPES

| | | | |
|---------|------------|------------|------------|
| Congl | Lmst fw<7 | Shgy | shale, red |
| Chtcong | Lmst fw>7 | shale, gry | Ss |
| Dolsec | shale, grn | Carbon Sh | Sltst |

ACCESSORIES

MINERAL

⊥ Calcareous
 ▲ Chert, dark
 ~ Glauconite
 P Pyrite
 △ Chert White

FOSSIL

⊕ Brachiopod
 ▽ Brachiopods
 T Bryozoa
 ○ Crinoids
 F Fossils < 20%
 ⊕ Fossilinid
 ⊕ Oolite
 ♀ Pellets
 ⊥ Spicules
 ○ Oolites

STRAT./SED. STRUCTS

Stylolite
 Stylolites

STRINGER

Sandstone
 Siltstone
 Argillaceous

TEXTURE

FX Finexn

OTHER SYMBOLS

EVENTS

⊥ Casing Shoe
 ▽ RTF
 ▶ Sidewall
 ▲ Left Casing Shoe
 ▼ Right Casing Shoe

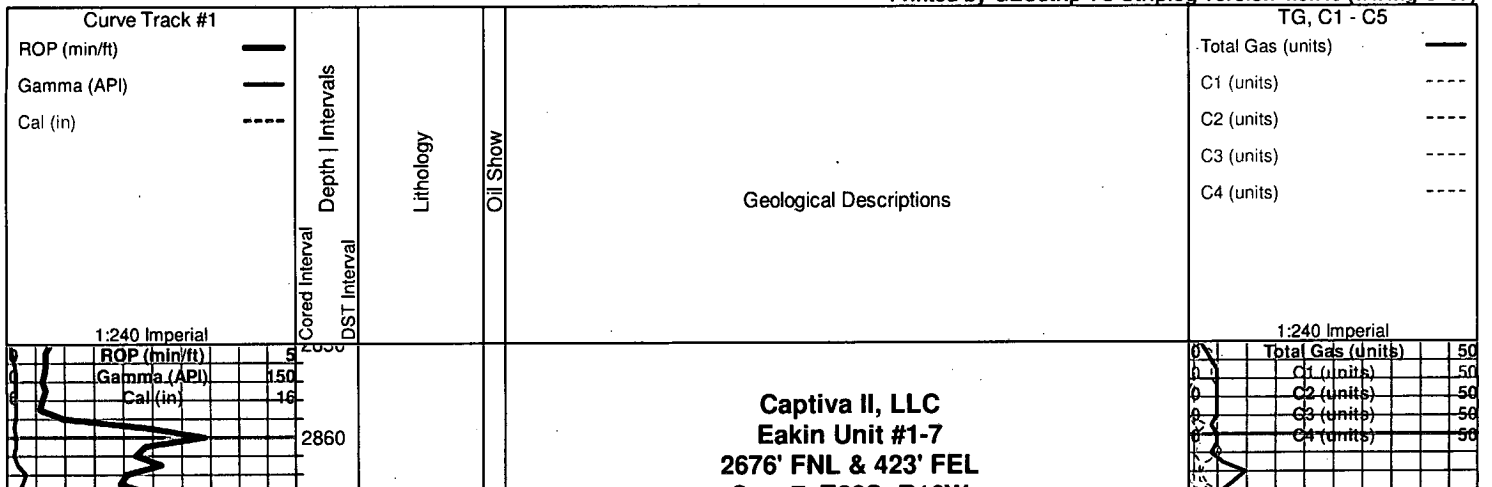
INTERVALS

■ Core
 ∙ DST

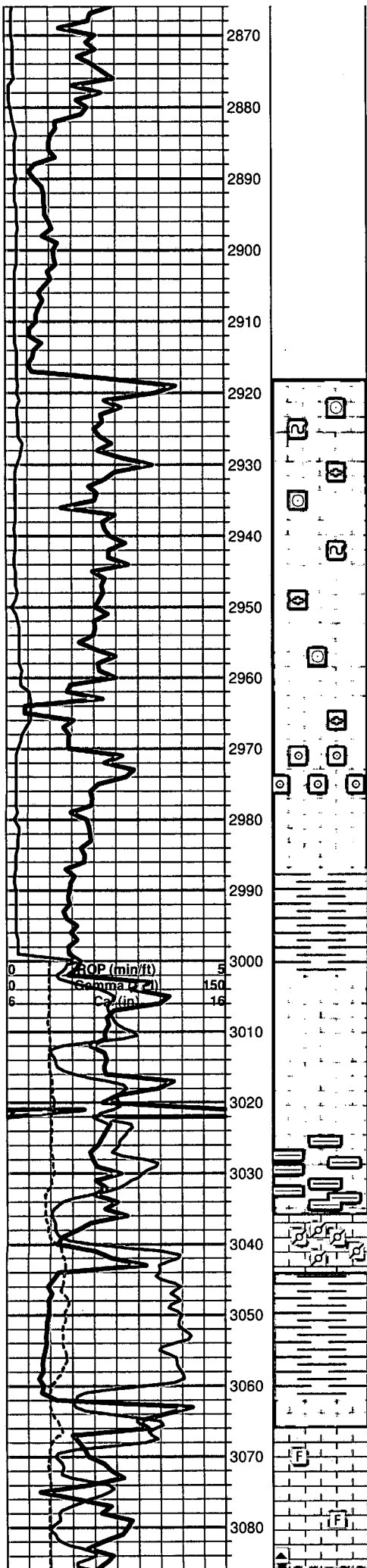
MISC

Daily Report
 Digital Photo
 Document
 Folder
 Link
 Vertical Log File
 Horizontal Log File
 Core Log File
 Drill Cuttings Rpt

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)



Sec. 7, 122S, R16W
Pawnee County, KS



20' samples begin at 2900'.

Very coarse-grained free/loose sand grains, comprised of well-rounded qtz, granite, and orthoclase grains...probably from an arkosic source. Grains up to 6mm in dia.

Tarkio Ls 2918 (-900)

Limestone: mixed cream micrite to sli fossiliferous wackestone and brown, sli fossiliferous wackestone. Both are micro-xln with little porosity. Crinoids, fussionids, brachiopods, pelets, tr glauconite.

Limestone: tan, oolite grainstone, hard, dense, no porosity.

Shale: gray, calcareous.

Limestone: tan to brown, mottled, sli fossiliferous, wackestone, fussionids and fossil debris.

Limestone: tan to brown, sli fossiliferous, argillaceous to streaks of gray, calc shale, wackestone.

Limestone: tan and brown mottled pelletal packstone.

Shale: gray to dark gray, fussionids, calcareous.

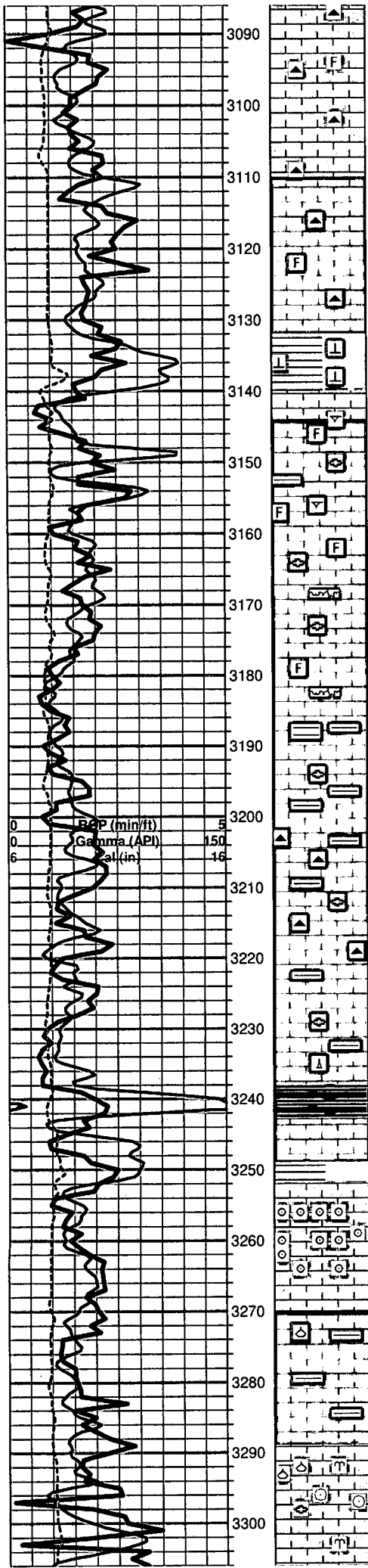
Topeka 3062 (-1410)

Limestone: mottled tan/gray/brown, fossiliferous, pelletal, packstone, micro-xln, no porosity.

Limestone: cream, fossiliferous, packstone, brachiopods, bryozoans, tr brn, gray, vitreous chert

Mud-Co mud check
@ 2881 ft.
1010 hrs. 1/18/11
Vis 83 Wt. 8.8
PV 28, YP 21
WL 8.8
Cake 1/32, pH 10.5
CHL 8100 ppm
Ca 80 ppm
Sol 3.2, LCM 3
DMC \$1881.85
CMC \$7591.30

| | | |
|---|-------------------|----|
| 0 | Total Gas (units) | 50 |
| 0 | C1 (units) | 50 |
| 0 | C2 (units) | 50 |
| 0 | C3 (units) | 50 |
| 0 | C4 (units) | 50 |



Limestone: gray micro-xln, sli fossiliferous, wackestone, to brown to gray micrite. Brachiopods. No porosity. No shows.

Shale, gray, calcareous, fussulinids.

Limestone: cream to lt gray, tr fossiliferous, fussulinids, brach., stylolitic in parts, argillaceous in some frags, mudstone to wackestone. Tight, crypto-to micro-xln. No shows.

Limestone: tan to brown, tr fossiliferous, fussulinids, argillaceous, tr stylolites, tr pyrite, wackestone.

Limestone: cream to lt tan, micro-xln, mud-supported fossils, fussulinids, wackestone. Tr dark gray, fossiliferous, vitreous chert. No shows.

Limestone as above, with spicules. No chert, no shows.

King Hill Shale 3238 (-1220)

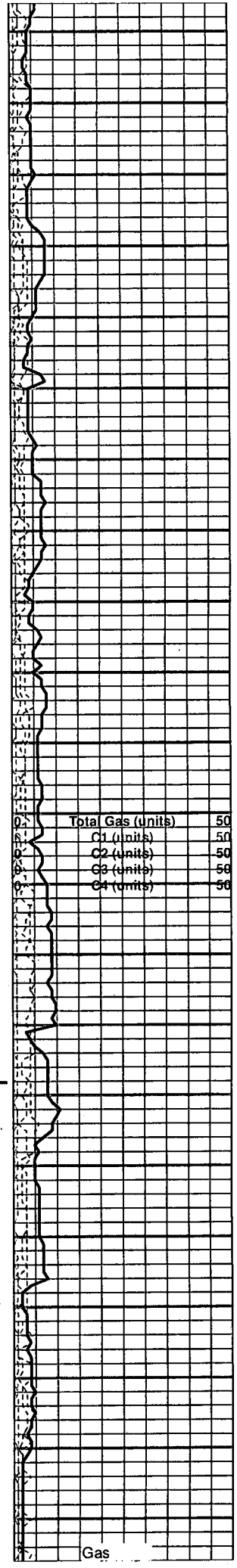
Limestone: lt gray micrite. Tight.

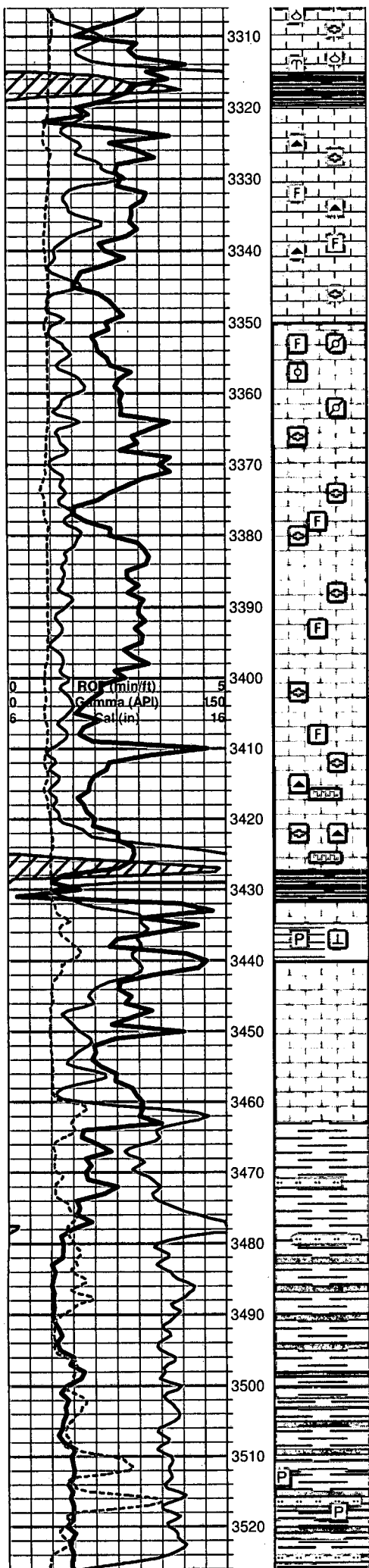
Limestone: Cream, oolite grainstone, spicules, brach., tight, dense, well-cemented, No shows.

Limestone: Ten to grayish-brown, fossiliferous, brach., argillaceous, micro-xln, little por., packstone.

Limestone: lt tan to lt brown, fossiliferous, crinoids, bryozoans, fussulinids, micro-xln, weak por., packstone, tr glauconite.

Limestone: cream to lt grayish-tan, fossiliferous, bryozoans, fussulinids, brachiopods, packstone, some micro-xln, sucrosic ls w/ fair inter-ylv por





brachiopods, packstone. some micro-arl, successio is w/ tan inter-arl por., no shows.

Queen Hill Shale 3315 (-1297)

Limestone as above, tr dark, vitreous chert, tr tan to lt brown micrite.

Limestone: tan to lt gray, fossiliferous, some frags ar agillaceous, tr oolites, tr pellets, wackestone, little to no porosity. No shows.

Limestone: lt tan to tan, sli fossiliferous, fussulinids, mud-supported wackestone, crypto- to micro-xln, tight rock. No shows.

Limestone as above w/ tr brown chert.

Limestone: lt tan to tan, sli fossiliferous, cherty, wackestone with crypto- to micro-xln matrix. No shows. Some fragments have stylolites.

Heebner Shale 3427 (-1409)

Shale: black, carbonaceous, dolomitic.

Limestone: similar to above, but w/ crinoids and fussulinids.

Toronto 3442 (-1424)

Shale: gray, calcareous, pyritized brachiopod.

Limestone: tan to lt gray, micritic, stylolites, gray, spiculated chert.

Douglas Shale 3464 (-1446)

Shale: gray, calcareous, a few silty laminations.

Shale: vari-colored, gray and maroon, silty. The colored shales are non-calc.

Shale: gray, greenish-gray, lt greenish-gray, brown, lt brown, maroon.

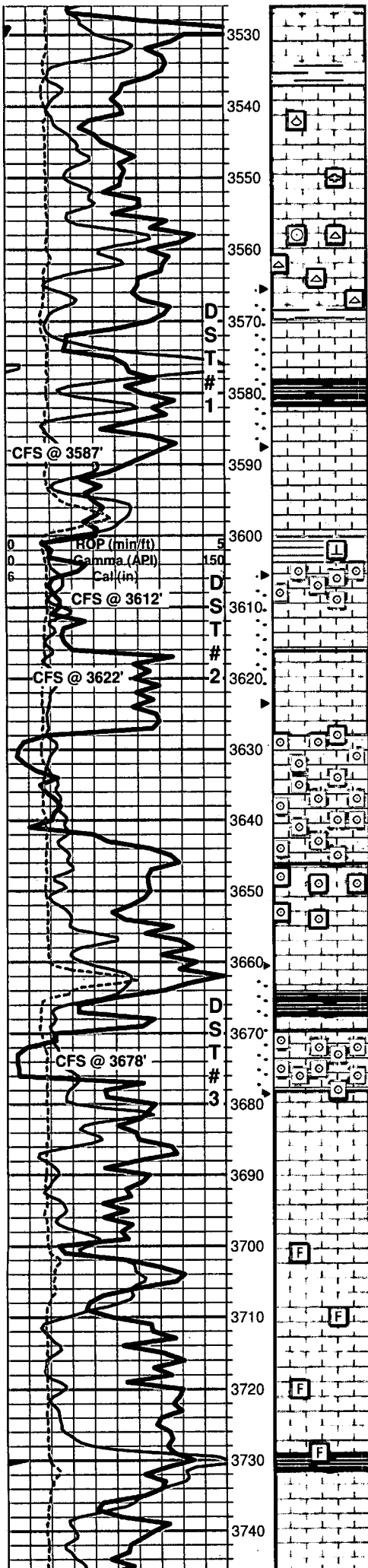
Shales as above w/ tr pyrite. Laminated dark and light shale.

Brown Lime 3527 (-1509)

detector was off line with a blown fuse from 3293'-3398'.

| | |
|-------------------|----|
| Total Gas (units) | 50 |
| C1 (units) | 50 |
| C2 (units) | 50 |
| C3 (units) | 56 |
| C4 (units) | 56 |

Mud-Co mud check @ 3507 ft.
 1155 hrs. 1/19/11
 Vis. 49, Wt. 9.3
 PV 13 YP 11
 WL 10.8
 Cake 1/32, pH 9.5
 CHL 7800 ppm
 Ca 80 ppm
 Sol 6.7, LCM 2
 DMC \$588.15
 CMC \$8179.45



Limestone: brown micrite w/ stylolites. Crypto-xln, tite, no shows,

Lansing 3536 (-1518)

Limestone: white to lt tan, lithographic micrite, tr fossiliferous, fussulinids, brachiopods, crinoids.

Limestone: Cream to white, micrite w/ lithographic texture. White to vy lt gray, vitreous chert.

Eakin Unit #1-7 DST #1.pdf

Circulated samples: Oil aroma, succrosic ls w/ good inter-xln porosity, and oil staining. Bright yellow fluorecence and good streaming cut.

Shale: black, carbonaceous.

Poor samples after returning to drilling, abundant cavings.

Limestone: lt tan, oolitic grainstone w/ good oomoldic porosity, no shows.

Limestone: cream to lt tan, oolitic grainstone to succrosic, recrystalzsd w/ fair inter-xln porosity. No shows of oil, but there is a gas kick.

Eakin Unit #1-7 DST #2.pdf

Lansing G zone porosity 3628

Lansing: cream to lt tan, some succrosic, porous ls and oolite grainstone, with inter-xln porosity and oomoldic porosity. Odor in sample cup, spotty oil staining in some fragments, with good cut, bright yellow fluorecence. Sample cups from 3640'-3670' had hydrocarbon aroma.

Limestone: tan to lt brown, micritic/lithographic to micro-xln, tr sparry calcite, dense, tight, the only porosity is in the spar pockets. A few fragments w/ well-cemented oolites.

Muncie Creek 3664 (-1646)

Eakin Unit #1-7 DST #3.pdf

Limestone: tan, oolite grainstone, fair inter-xln porosity and oomoldic porosity. 30 min. sample cup had a rainbow of oil in the surface of the water and a strong oil aroma. Some fragments had oil staining, bright yellow fluorecence, and good cut. 60 min. sample had no aroma, no oil staining, and no shows.

Limestone: cream, chalky, micro-xln to crypto-xln lithographic micrite.

Limestone: cream to lt tan, crypto-xln, tr fossil., micrite, tr sparry calcite, dense, tight, no porosity, no shows.

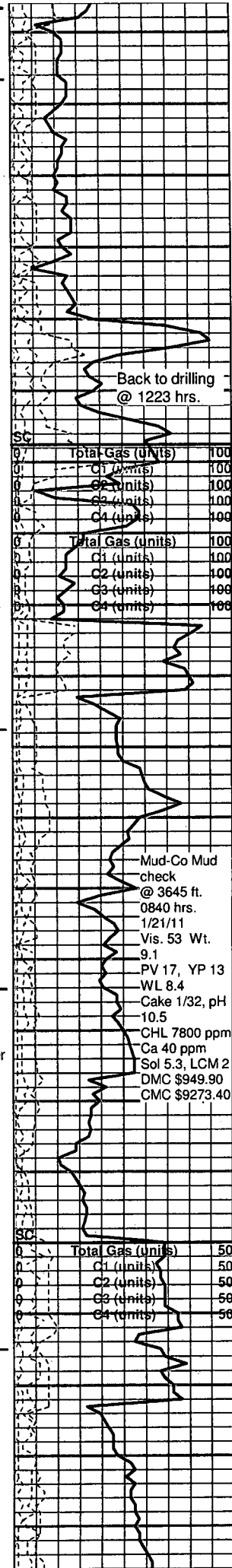
Lansing J 3715 (-1697)

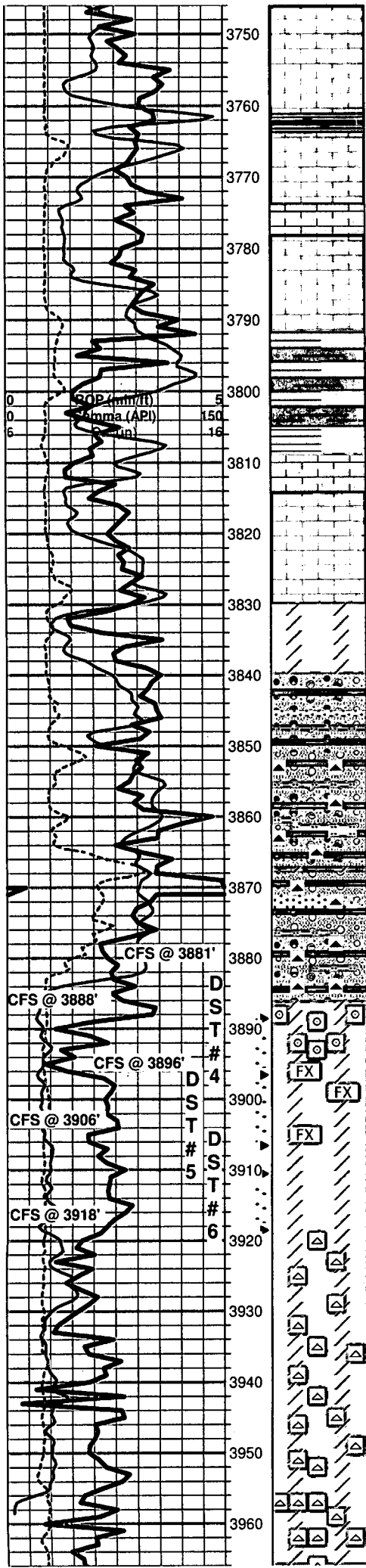
Limestone: cream to tan, crypto-xln, lithographic micrite. Very few fossil fragments. Tight, no shows.

Limestone: cream to lt tan to lt gray, crypto-xln, lithographic micrite. Tight, no shows.

Trace of black carbonaceous shale.

Limestone as above, but with a few included fossil fragments, tr lt green





glauconite.

Limestone: lt gray to tan, micrite, tr sparry calcite, tr of fossil fragments, dense, no porosity, no shows.
 Black shale: carbonaceous, dolomitic.

Limestone as above w/ fragments of lt tan bioclastic, fossiliferous packstone. Tight, no porosity, no shows.

Base Kansas City 3792 (-1774)

Limestone: cream to lt gray, crypto-xln, micrite. Starting to pick up reddish-brown and gray shale.

Shale: vari-colored, gray, lt gray, dark gray, lt greenish-gray, maroon.

Limestone: Tan, lithographic, sli fossiliferous, dense, tight no porosity. Also brown fossiliferous, pelletal, crystalline packstone w/ tr oolites.

Dolomite: very lt green and lt gray, micro-xln mudstone. Tr reddish-brown, vitreous, pyritic chert.

Limestone: white, bryozoan-rich boundstone.

Sample washes red. 3860-3870'. Shale/Conglomerate zone, mixed red shales, and tr orange chert.

Conglomerate: red, greenish-aqua, and waxy green shale and vari-colored chert, red rust, yellow, white, gray, some are weathered, some are fresh and vitreous.

Circulated samples are all conglomerate as above, and include very coarse, well-rounded, clear, free, individual sand grains. F-gr individual qtz sand is in the 60 min sample. Sample cups have faint oil odor.

Arbuckle 3886 (-1868)

Dolomite: very lt brown, succrosic, the sample cup has a very strong hydrocarbon aroma. The color is due to uniform oil saturation. Bright yellow fluorescence and instant streaming cut.

Eakin Unit #1-7 DST #4.pdf

Eakin Unit #1-7 DST #5.pdf

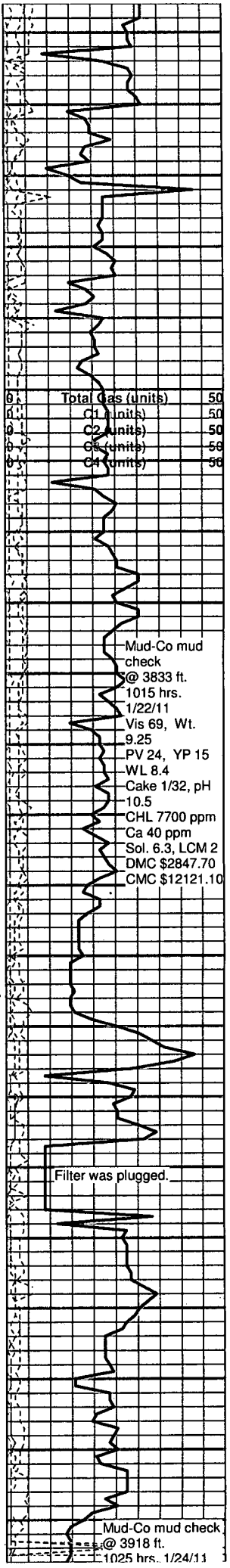
Circ sample at 3896': Dolomite: recrystallized, crystalline, succrosic (0.2mm crystal size), good inter-xln porosity, fully saturated oil staining, BRIGHT yellow fluor, cuts with HCl, very strong H2S odor. Also oolitic, dolomitic grainstone with inter-xln porosity and oomoldic porosity, saturated with oil. Examination of the dry samples shows some impermeability between the oomoldic voids.

3906' circ samples: tr pyrite in the dolo. Dolo rhombs to 0.3mm. Gas is seeping from the pores. Almost all frags are succrosic-very little oomoldic.

Eakin Unit #1-7 DST #6.pdf

3918 circ sample: Dolomite: bright white, micritic, with intermittent sparry streaks that have flaky oil staining, but good cut. Dissolved dolo yields black, floating fragments of dead oil. White, vitreous chert has dark, heavy oil staining along fractured surfaces. Continues through 3930'. Strong oil aroma in sample cup. Still lt brn, oil-stained succrosic dolo w/ bleeding gas.

Snow white chert increases with depth. Both vitreous and tripolitic in the same fragment. White to tan succrosic, f-xln dolo. Oil staining along fractured surfaces of both chert and dolo. Oil shows decrease with depth.

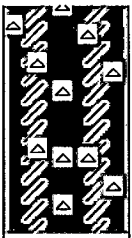
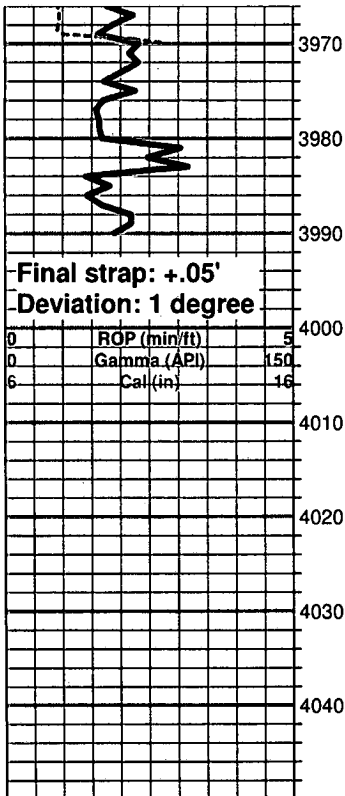


| | |
|-------------------|----|
| Total Gas (units) | 50 |
| C1 (units) | 50 |
| C2 (units) | 50 |
| C3 (units) | 50 |
| C4 (units) | 50 |

Mud-Co mud check @ 3833 ft. 1015 hrs. 1/22/11 Vis 69, Wt. 9.25 PV 24, YP 15 WL 8.4 Cake 1/32, pH 10.5 CHL 7700 ppm Ca 40 ppm Sol. 6.3, LCM 2 DMC \$2847.70 CMC \$12121.10

Filter was plugged.

Mud-Co mud check @ 3918 ft. 1025 hrs. 1/24/11



3960-3990 samples: tan to lt brown dolo, some are mottled, f-xln, succrosic, fair inter-xln porosity, no shows, no fluor, no cut. White chert as above.

Dolomite as above with some lighter fragments that include f-gr qtz sand grains, also a tr of micritic dolo.

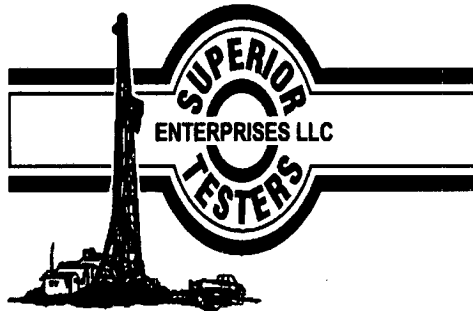
Rotary TD 3990' (-1972)

**Rotary TD @ 3990', corrected to 3988', 2100 hrs,
1/24/11
Superior Well Services Logging TD 3988'
Complete logging operations 0725 hrs. 1/25/2011
Geologist: Charlie Sturdavant off location @ 0955
1/25/2011**

| |
|--------------------|
| Vis. 52, Wt. 9.3 |
| PV 14, YP 12 |
| WL 8.8 |
| Cake 1/32, pH 10.5 |
| CHL 7500 ppm |
| Ca 40 ppm |
| Sol. 6.7, LCM 2 |
| DMC \$704.60 |
| CMC \$12825.70 |

| | | |
|---|-------------------|----|
| 0 | Total Gas (units) | 50 |
| 0 | C1 (units) | 50 |
| 0 | C2 (units) | 50 |
| 0 | C3 (units) | 50 |
| 0 | C4 (units) | 50 |

- Eakin Unit #1-7 DST #1.pdf
- Eakin Unit #1-7 DST #2.pdf
- Eakin Unit #1-7 DST #3.pdf
- Eakin Unit #1-7 DST #4.pdf
- Eakin Unit #1-7 DST #5.pdf
- Eakin Unit #1-7 DST #6.pdf



DRILL STEM TEST REPORT

Prepared For: **Captiva**

2717 Canal Blvd. Suite C
Hays Kansas 67601

ATTN: Charlie Sturdavant

7/22S/16W Pawnee

Eakin Unit # 1-7

Start Date: 2011.01.19 @ 11:11:00

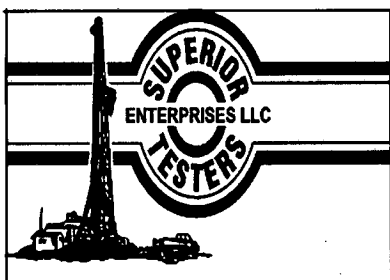
End Date: 2011.01.19 @ 20:57:00

Job Ticket #: 16018 DST #: 1

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

Printed: 2011.01.20 @ 12:23:23

Captiva Eakin Unit # 1-7 7/22S/16W Pawnee DST # 1 Lansing " B " Zone 2011.01.19



DRILL STEM TEST REPORT

Captiva
 2717 Canal Blvd. Suite C
 Hays Kansas 67601
 ATTN: Charlie Sturdavant

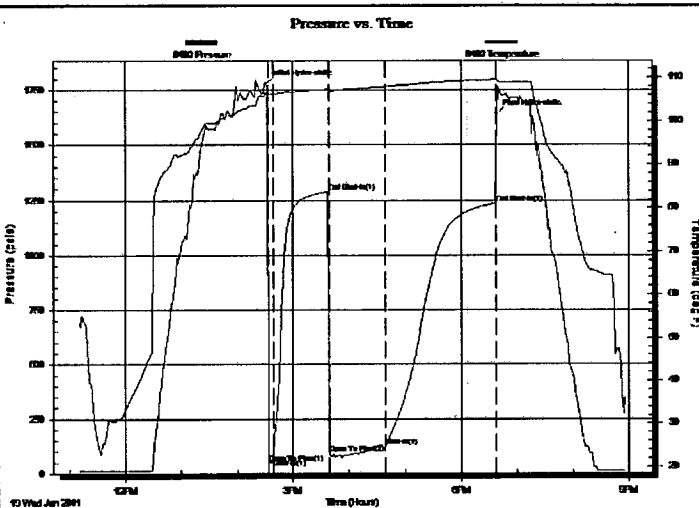
Eakin Unit # 1-7
7/22S/16W Pawnee
 Job Ticket: 16018 **DST#: 1**
 Test Start: 2011.01.19 @ 11:11:00

GENERAL INFORMATION:

Formation: **Lansing " B " Zone**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 14:33:30
 Tester: Dylan E Ellis
 Time Test Ended: 20:57:00
 Unit No: 3345/Great Bend/50
 Interval: **3565.00 ft (KB) To 3587.00 ft (KB) (TVD)**
 Reference Elevations: 2018.00 ft (KB)
 Total Depth: 3587.00 ft (KB) (TVD) 2007.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 8400 Outside
 Press@RunDepth: 123.95 psia @ 3584.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.01.19 End Date: 2011.01.19 Last Calib.: 2011.01.20
 Start Time: 11:11:10 End Time: 20:56:59 Time On Btm: 2011.01.19 @ 14:31:00
 Time Off Btm: 2011.01.19 @ 18:38:30

TEST COMMENT: 1ST Opening 5 Minutes weak blow /blow built to 1.50 inches into a 5 gallon bucket of water
 1ST Shut-In 60 Minutes no blow back
 2ND Opening 60 Minutes weak blow at first/blow blew to bottom of a bucket of water in 12 minutes
 2ND Shut-In 120 Minutes no blow back



PRESSURE SUMMARY

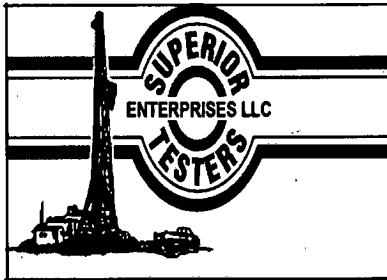
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1777.46 | 106.47 | Initial Hydro-static |
| 3 | 48.50 | 106.17 | Open To Flow (1) |
| 8 | 63.58 | 106.18 | Shut-In(1) |
| 67 | 1288.72 | 107.30 | End Shut-In(1) |
| 68 | 91.90 | 107.02 | Open To Flow (2) |
| 128 | 123.95 | 107.93 | Shut-In(2) |
| 247 | 1236.52 | 109.54 | End Shut-In(2) |
| 248 | 1640.25 | 109.64 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------------|--------------|
| 20.00 | Oil cut Mud | 0.10 |
| 0.00 | 10% Oil 90% Mud | 0.00 |
| 63.00 | Mud cut Gassy Oil | 0.31 |
| 0.00 | 40% Gas 40% Oil 20% Mud | 0.00 |
| 63.00 | Oil cut Gassy Mud | 0.31 |
| 0.00 | 20% Oil 40% Mud 40% Gassy | 0.00 |

Gas Rates

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



DRILL STEM TEST REPORT

Captiva
 2717 Canal Blvd. Suite C
 Hays Kansas 67601
 ATTN: Charlie Sturdavant

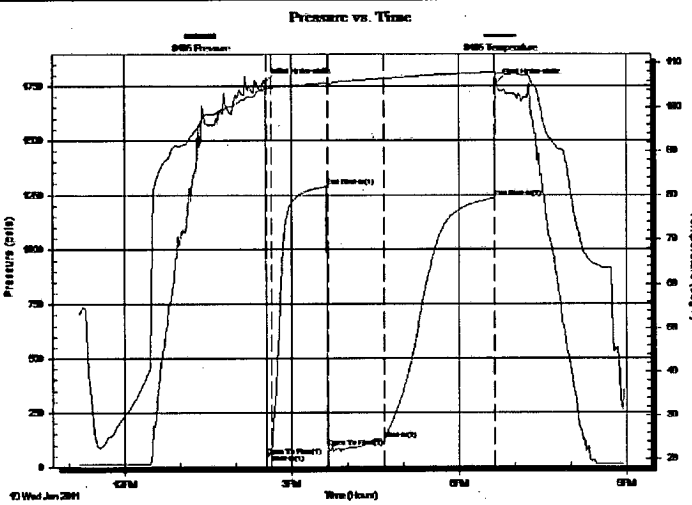
Eakin Unit # 1-7
7/22S/16W Pawnee
 Job Ticket: 16018 **DST#: 1**
 Test Start: 2011.01.19 @ 11:11:00

GENERAL INFORMATION:

Formation: **Lansing " B " Zone**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 14:33:30
 Tester: Dylan E Ellis
 Time Test Ended: 20:57:00
 Unit No: 3345/Great Bend/50
 Interval: **3565.00 ft (KB) To 3587.00 ft (KB) (TVD)**
 Reference Elevations: 2018.00 ft (KB)
 Total Depth: 3587.00 ft (KB) (TVD)
 2007.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 11.00 ft

Serial #: 8405 Inside
 Press@RunDepth: 1236.09 psia @ 3583.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.01.19 End Date: 2011.01.19 Last Calib.: 2011.01.20
 Start Time: 11:12:01 End Time: 20:57:09 Time On Btm: 2011.01.19 @ 14:32:09
 Time Off Btm: 2011.01.19 @ 18:40:09

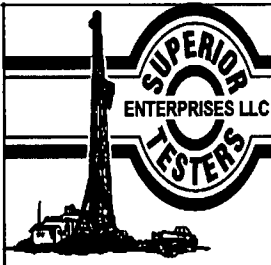
TEST COMMENT: 1ST Opening 5 Minutes weak blow /blow built to 1.50 inches into a 5 gallon bucket of water
 1ST Shut-In 60 Minutes no blow back
 2ND Opening 60 Minutes weak blow at first/blow blew to bottom of a bucket of water in 12 minutes
 2ND Shut-In 120 Minutes no blow back



| PRESSURE SUMMARY | | | |
|------------------|-----------------|--------------|----------------------|
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
| 0 | 1767.71 | 104.34 | Initial Hydro-static |
| 2 | 46.83 | 104.16 | Open To Flow (1) |
| 7 | 57.00 | 104.42 | Shut-In(1) |
| 66 | 1288.03 | 105.50 | End Shut-In(1) |
| 67 | 87.05 | 105.29 | Open To Flow (2) |
| 128 | 126.04 | 106.53 | Shut-In(2) |
| 246 | 1236.09 | 107.92 | End Shut-In(2) |
| 248 | 1763.33 | 107.65 | Final Hydro-static |

| Recovery | | |
|-------------|---------------------------|--------------|
| Length (ft) | Description | Volume (bbl) |
| 20.00 | Oil cut Mud | 0.10 |
| 0.00 | 10% Oil 90% Mud | 0.00 |
| 63.00 | Mud cut Gassy Oil | 0.31 |
| 0.00 | 40% Gas 40% Oil 20% Mud | 0.00 |
| 63.00 | Oil cut Gassy Mud | 0.31 |
| 0.00 | 20% Oil 40% Mud 40% Gassy | 0.00 |

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Captiva
 2717 Canal Blvd. Suite C
 Hays Kansas 67601
 ATTN: Charlie Sturdavant

Eakin Unit # 1-7
 7/22S/16W Pawnee
 Job Ticket: 16018 DST#: 1
 Test Start: 2011.01.19 @ 11:11:00

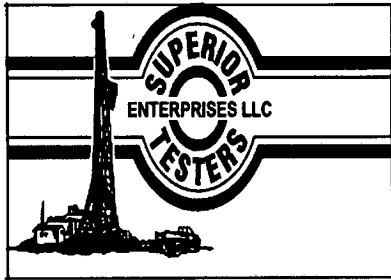
Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3308.00 ft | Diameter: 3.80 inches | Volume: 46.40 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 20000.00 lb |
| Drill Collar: | Length: 259.05 ft | Diameter: 2.25 inches | Volume: 1.27 bbl | Weight to Pull Loose: 35000.00 lb |
| | | | <u>Total Volume: 47.67 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 31.05 ft | | | String Weight: Initial 70000.00 lb |
| Depth to Top Packer: | 3565.00 ft | | | Final 71000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 22.00 ft | | | |
| Tool Length: | 51.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|------------------------------------|
| Change Over Sub | 1.00 | | | 3537.00 | |
| Shut-In Tool | 5.00 | | | 3542.00 | |
| Hydraulic Tool | 5.00 | | | 3547.00 | |
| Jars | 6.00 | | | 3553.00 | |
| Safety Joint | 2.00 | | | 3555.00 | |
| Packer | 5.00 | | | 3560.00 | 29.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3565.00 | |
| Perforations | 17.00 | | | 3582.00 | |
| Recorder | 1.00 | 8405 | Inside | 3583.00 | |
| Recorder | 1.00 | 8400 | Outside | 3584.00 | |
| Bullnose | 3.00 | | | 3587.00 | 22.00 Bottom Packers & Anchor |

Total Tool Length: 51.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Captiva
 2717 Canal Blvd. Suite C
 Hays Kansas 67601
 ATTN: Charlie Sturdavant

Eakin Unit # 1-7
7/22S/16W Pawnee
 Job Ticket: 16018 **DST#: 1**
 Test Start: 2011.01.19 @ 11:11:00

Mud and Cushion Information

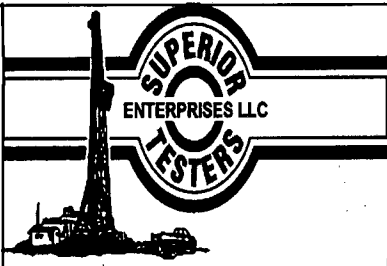
| | | | |
|-----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | ppm |
| Viscosity: 49.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 10.79 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psia | | |
| Salinity: 7800.00 ppm | | | |
| Filter Cake: 1.00 inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------------------|---------------|
| 20.00 | Oil cut Mud | 0.098 |
| 0.00 | 10% Oil 90% Mud | 0.000 |
| 63.00 | Mud cut Gassy Oil | 0.310 |
| 0.00 | 40% Gas 40% Oil 20% Mud | 0.000 |
| 63.00 | Oil cut Gassy Mud | 0.310 |
| 0.00 | 20% Oil 40% Mud 40% Gassy | 0.000 |
| 0.00 | 126 feet Gas in the pipe | 0.000 |

Total Length: 146.00 ft Total Volume: 0.718 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



DRILL STEM TEST REPORT

GAS RATES

Captiva
2717 Canal Blvd. Suite C
Hays Kansas 67601
ATTN: Charlie Sturdavant

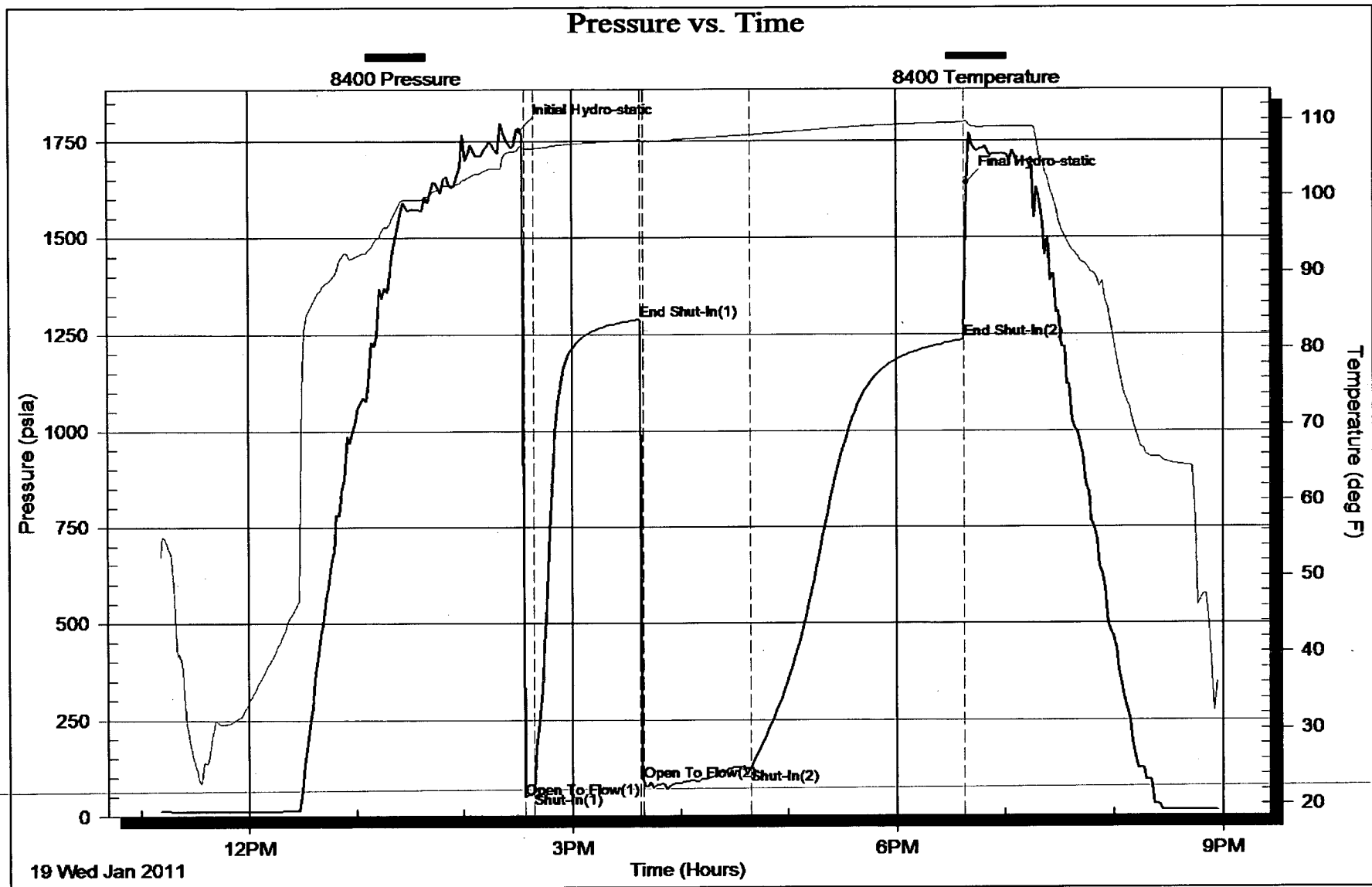
Eakin Unit # 1-7
7/22S/16W Pawnee
Job Ticket: 16018 **DST#: 1**
Test Start: 2011.01.19 @ 11:11:00

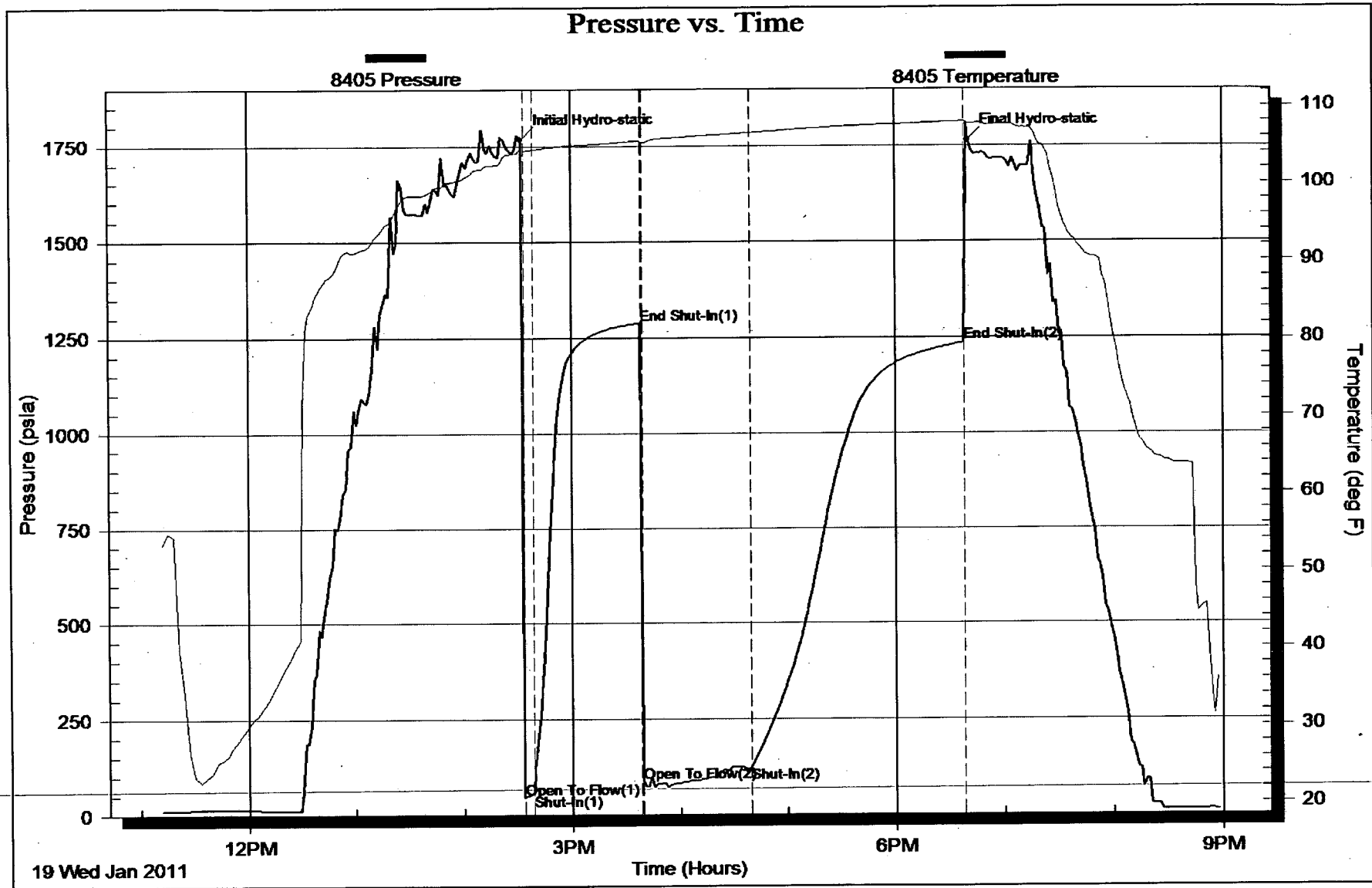
Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

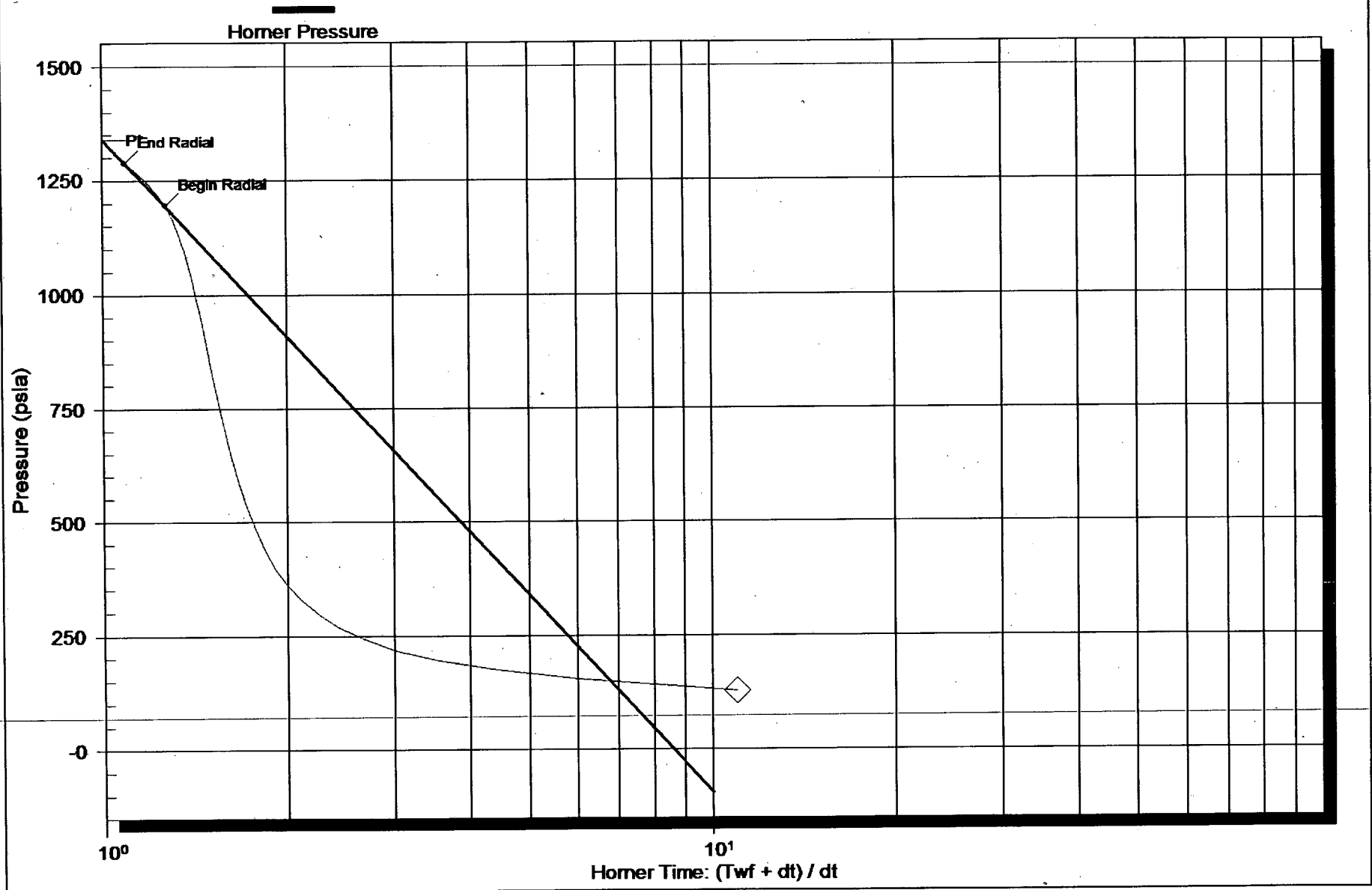
Gas Rates Table

| Flow Period | Elapsed Time | Choke (inches) | Pressure (psia) | Gas Rate (Mcf/d) |
|-------------|--------------|----------------|-----------------|------------------|
| | | 0.00 | 0.00 | 0.00 |





Horner Plot



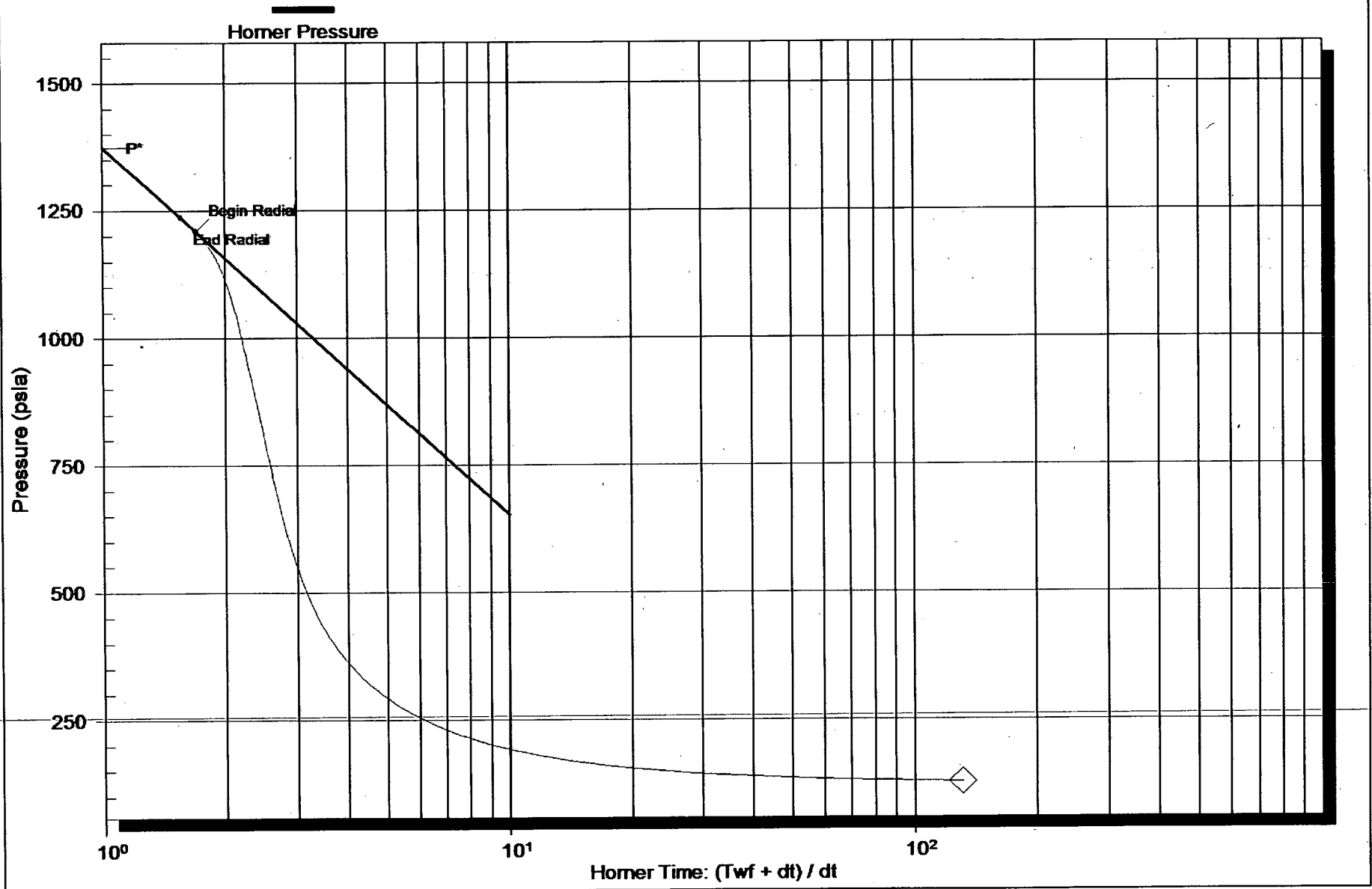
Serial Number: 8400 (Outside)

P* : 1339.43

Slope (m) : 1432.77 kpa/log cycle

Flow Cycle: 1

Horner Plot

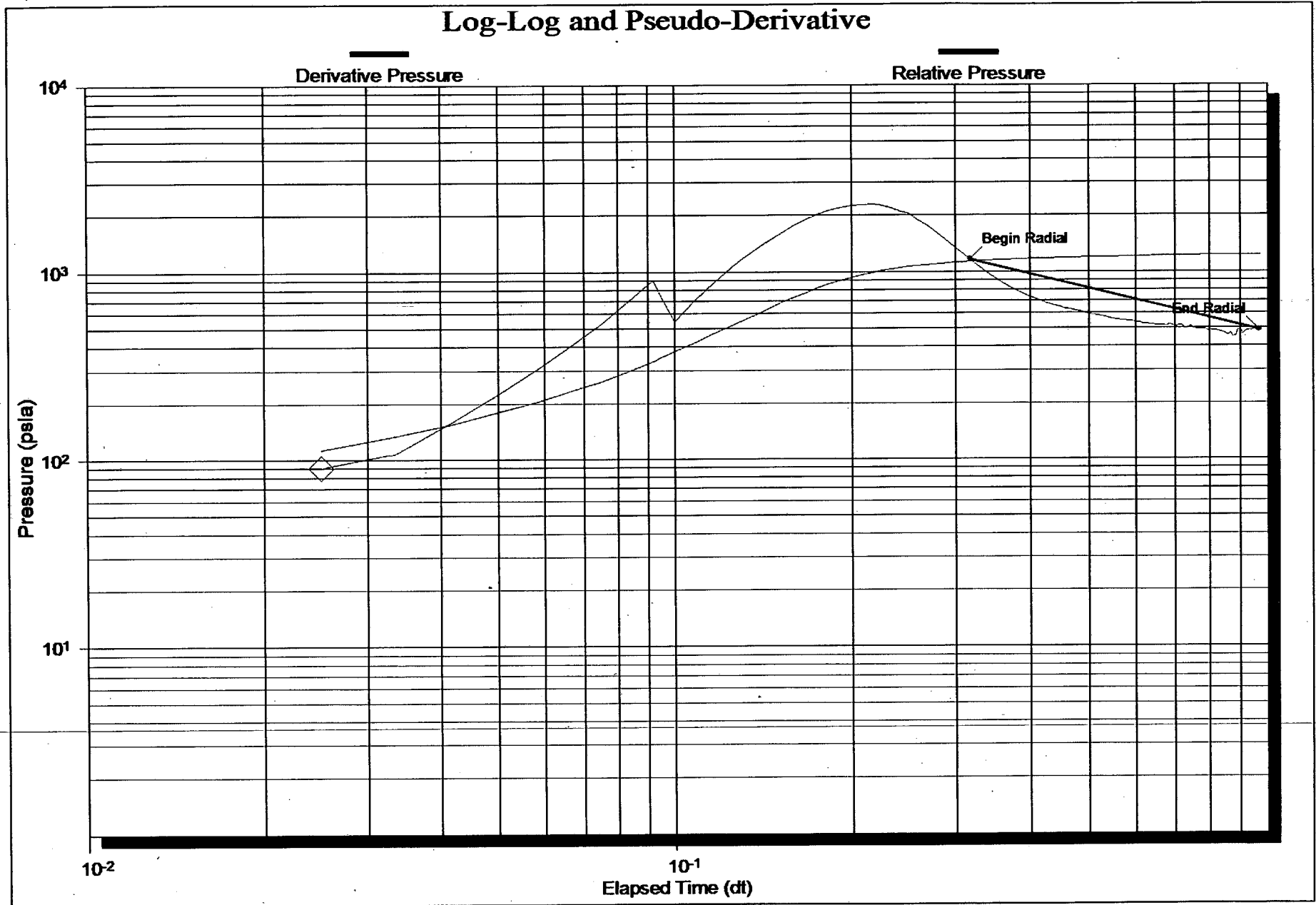


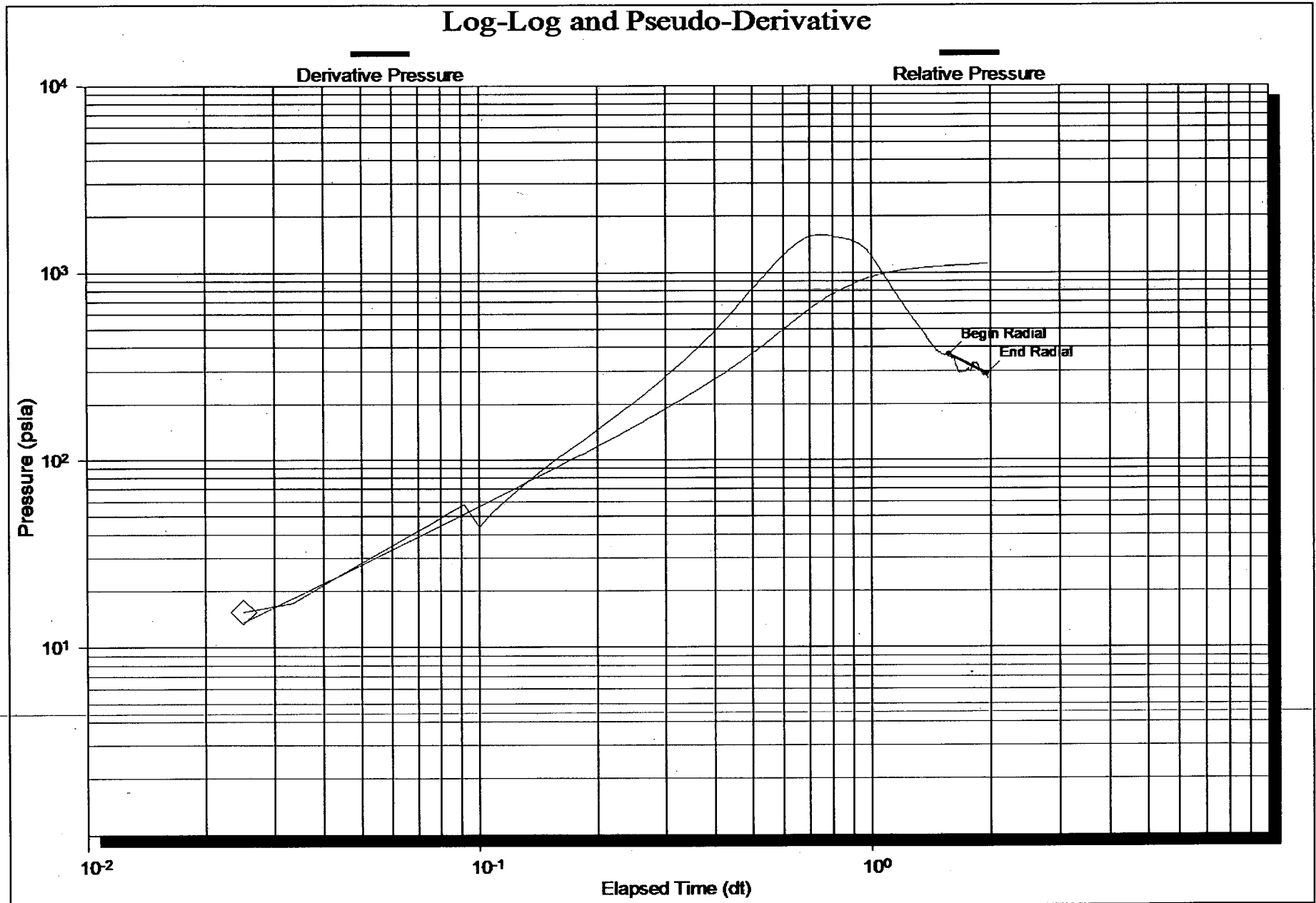
Serial Number: 8400 (Outside)

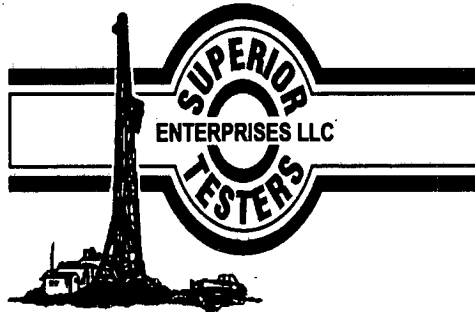
P* : 1373.19

Slope (m) : 719.74 kpa/log cycle

Flow Cycle: 2







DRILL STEM TEST REPORT

Prepared For: **Captiva**

2717 Canal Blvd. Suite C
Hays Kansas 67601

ATTN: Charlie Sturdavant

7/22S/16W Pawnee

Eakin Unit # 1-7

Start Date: 2011.01.20 @ 19:23:00

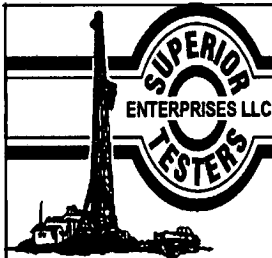
End Date: 2011.01.21 @ 03:56:08

Job Ticket #: 16019 DST #: 2

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

Printed: 2011.01.21 @ 04:20:17

Captiva Eakin Unit # 1-7 7/22S/16W Pawnee DST # 2 LANSING F ZONE 2011.01.20



DRILL STEM TEST REPORT

Captiva
 2717 Canal Blvd. Suite C
 Hays Kansas 67601
 ATTN: Charlie Sturdavant

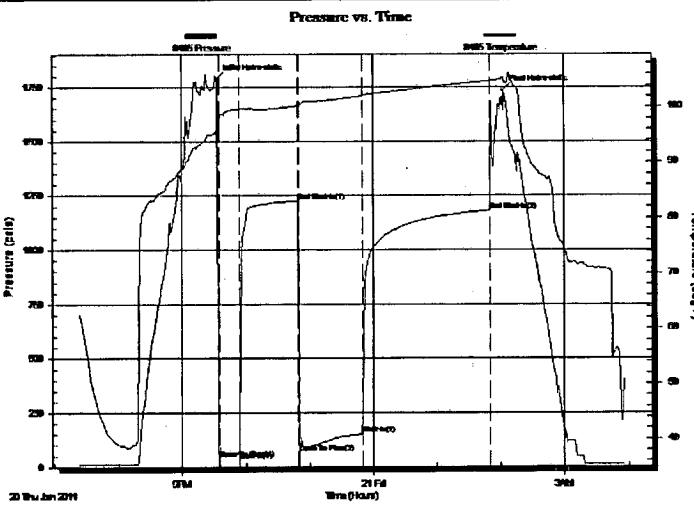
Eakin Unit # 1-7
 7/22S/16W Pawnee
 Job Ticket: 16019 DST#: 2
 Test Start: 2011.01.20 @ 19:23:00

GENERAL INFORMATION:

Formation: **LANSING F ZONE**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:34:38
 Time Test Ended: 03:56:08
 Test Type: Conventional Bottom Hole (Initial)
 Tester: JARED SCHECK
 Unit No: 3345-GREAT BEND-50
 Interval: **3605.00 ft (KB) To 3622.00 ft (KB) (TVD)**
 Total Depth: 3322.00 ft (KB) (TVD)
 Reference Elevations: 2018.00 ft (KB)
 2007.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 KB to GRV/CF: 11.00 ft

Serial #: 8405 Inside
 Press@RunDepth: 151.46 psia @ 3618.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.01.20 End Date: 2011.01.21 Last Calib.: 2011.01.21
 Start Time: 19:23:00 End Time: 03:56:08 Time On Btm: 2011.01.20 @ 21:33:08
 Time Off Btm: 2011.01.21 @ 02:02:38

TEST COMMENT: 15/INITIAL OPEN :WEAK BUT BUILDING BLOW BUILT 3 1/4 INCH INTO WATER IN 15 MINUTES
 60/INITIAL SHUT IN:1/2 INCH BLOW BACK
 60/FINAL OPEN :WEAK BLOW BUILT BOTTOM OF BUCKET IN 48 MINUTES
 120/FINAL SHUT IN :1/4 INCH BLOW BACK



PRESSURE SUMMARY

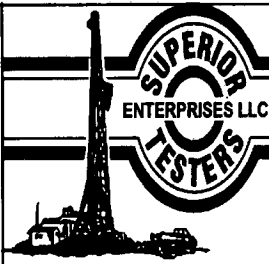
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1790.76 | 95.84 | Initial Hydro-static |
| 2 | 40.46 | 97.06 | Open To Flow (1) |
| 21 | 69.11 | 99.58 | Shut-In(1) |
| 76 | 1225.94 | 100.24 | End Shut-In(1) |
| 77 | 64.74 | 100.09 | Open To Flow (2) |
| 137 | 151.46 | 102.00 | Shut-In(2) |
| 257 | 1182.67 | 104.73 | End Shut-In(2) |
| 270 | 1735.26 | 105.33 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------------------|--------------|
| 260.00 | WATER 15% MUD 85% WATER | 1.29 |
| 0.00 | CHLORIDES 43,000 | 0.00 |
| 0.00 | RESISTIVITY .2 @73 DEGREES | 0.00 |
| | | |
| | | |

Gas Rates

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



DRILL STEM TEST REPORT

Captiva
 2717 Canal Blvd. Suite C
 Hays Kansas 67601
 ATTN: Charlie Sturdavant

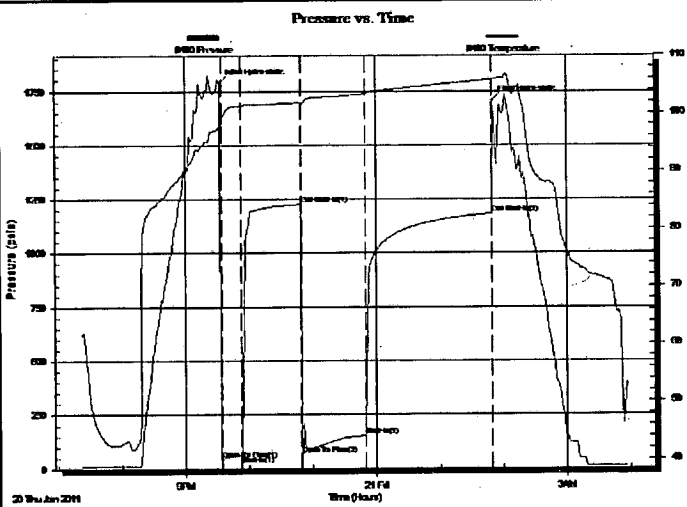
Eakin Unit # 1-7
7/22S/16W Pawnee
 Job Ticket: 16019 DST#: 2
 Test Start: 2011.01.20 @ 19:23:00

GENERAL INFORMATION:

Formation: **LANSING F ZONE**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 21:34:38
 Tester: JARED SCHECK
 Time Test Ended: 03:56:08
 Unit No: 3345-GREAT BEND-50
 Interval: **3605.00 ft (KB) To 3622.00 ft (KB) (TVD)**
 Reference Elevations: 2018.00 ft (KB)
 Total Depth: 3322.00 ft (KB) (TVD) 2007.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 11.00 ft

Serial #: 8400 Outside
 Press@RunDepth: 1183.22 psia @ 3619.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.01.20 End Date: 2011.01.21 Last Calib.: 2011.01.21
 Start Time: 19:23:00 End Time: 03:56:30 Time On Btm: 2011.01.20 @ 21:33:00
 Time Off Btm: 2011.01.21 @ 01:50:30

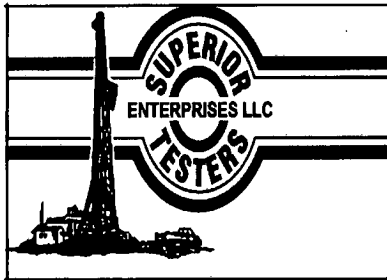
TEST COMMENT: 15/INITIAL OPEN :WEAK BUT BUILDING BLOW BUILT 3 1/4 INCH INTO WATER IN 15 MINUTES
 60/INITIAL SHUT IN:1/2 INCH BLOW BACK
 60/FINAL OPEN :WEAK BLOW BUILT BOTTOM OF BUCKET IN 48 MINUTES
 120/FINAL SHUT IN :1/4 INCH BLOW BACK



| PRESSURE SUMMARY | | | |
|------------------|-----------------|--------------|----------------------|
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
| 0 | 1789.98 | 97.36 | Initial Hydro-static |
| 2 | 42.82 | 98.61 | Open To Flow (1) |
| 20 | 61.55 | 101.14 | Shut-In(1) |
| 76 | 1226.79 | 101.81 | End Shut-In(1) |
| 77 | 66.42 | 101.57 | Open To Flow (2) |
| 137 | 153.02 | 103.28 | Shut-In(2) |
| 257 | 1183.22 | 105.77 | End Shut-In(2) |
| 258 | 1705.54 | 105.90 | Final Hydro-static |

| Recovery | | |
|-------------|----------------------------|--------------|
| Length (ft) | Description | Volume (bbl) |
| 260.00 | WATER 15%MUD 85%WATER | 1.29 |
| 0.00 | CHLORIDES 43,000 | 0.00 |
| 0.00 | RESISTIVITY .2 @73 DEGREES | 0.00 |
| | | |
| | | |

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Captiva
 2717 Canal Blvd. Suite C
 Hays Kansas 67601
 ATTN: Charlie Sturdavant

Eakin Unit # 1-7
7/22S/16W Pawnee
 Job Ticket: 16019 **DST#: 2**
 Test Start: 2011.01.20 @ 19:23:00

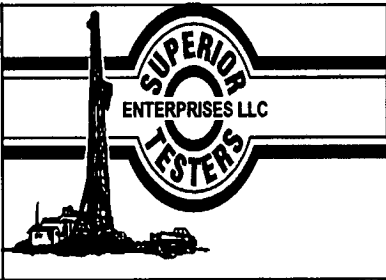
Tool Information

| | | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe: | Length: 3350.00 ft | Diameter: 3.80 inches | Volume: 46.99 bbl | Tool Weight: | 1000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: | 20000.00 lb |
| Drill Collar: | Length: 259.00 ft | Diameter: 2.25 inches | Volume: 1.27 bbl | Weight to Pull Loose: | 90000.00 lb |
| | | | <u>Total Volume: 48.26 bbl</u> | Tool Chased | 2.00 ft |
| Drill Pipe Above KB: | 33.00 ft | | | String Weight: Initial | 70000.00 lb |
| Depth to Top Packer: | 3605.00 ft | | | Final | 71000.00 lb |
| Depth to Bottom Packer: | ft | | | | |
| Interval between Packers: | 17.00 ft | | | | |
| Tool Length: | 46.00 ft | | | | |
| Number of Packers: | 2 | Diameter: | 6.75 inches | | |

Tool Comments: TOOL CHASED 2 FEET TO BOTTOM

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|------------------------------------|
| Change Over Sub | 1.00 | | | 3577.00 | |
| Shut-In Tool | 5.00 | | | 3582.00 | |
| Hydrolic Tool | 5.00 | | | 3587.00 | |
| Jars | 6.00 | | | 3593.00 | |
| Safety Joint | 2.00 | | | 3595.00 | |
| Packer | 5.00 | | | 3600.00 | 29.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3605.00 | |
| Perforations | 12.00 | | | 3617.00 | |
| Recorder | 1.00 | 8405 | Inside | 3618.00 | |
| Recorder | 1.00 | 8400 | Outside | 3619.00 | |
| Bullnose | 3.00 | | | 3622.00 | 17.00 Bottom Packers & Anchor |

Total Tool Length: 46.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Captiva
 2717 Canal Blvd. Suite C
 Hays Kansas 67601
 ATTN: Charlie Sturdavant

Eakin Unit # 1-7
 7/22S/16W Pawnee
 Job Ticket: 16019 DST#: 2
 Test Start: 2011.01.20 @ 19:23:00

Mud and Cushion Information

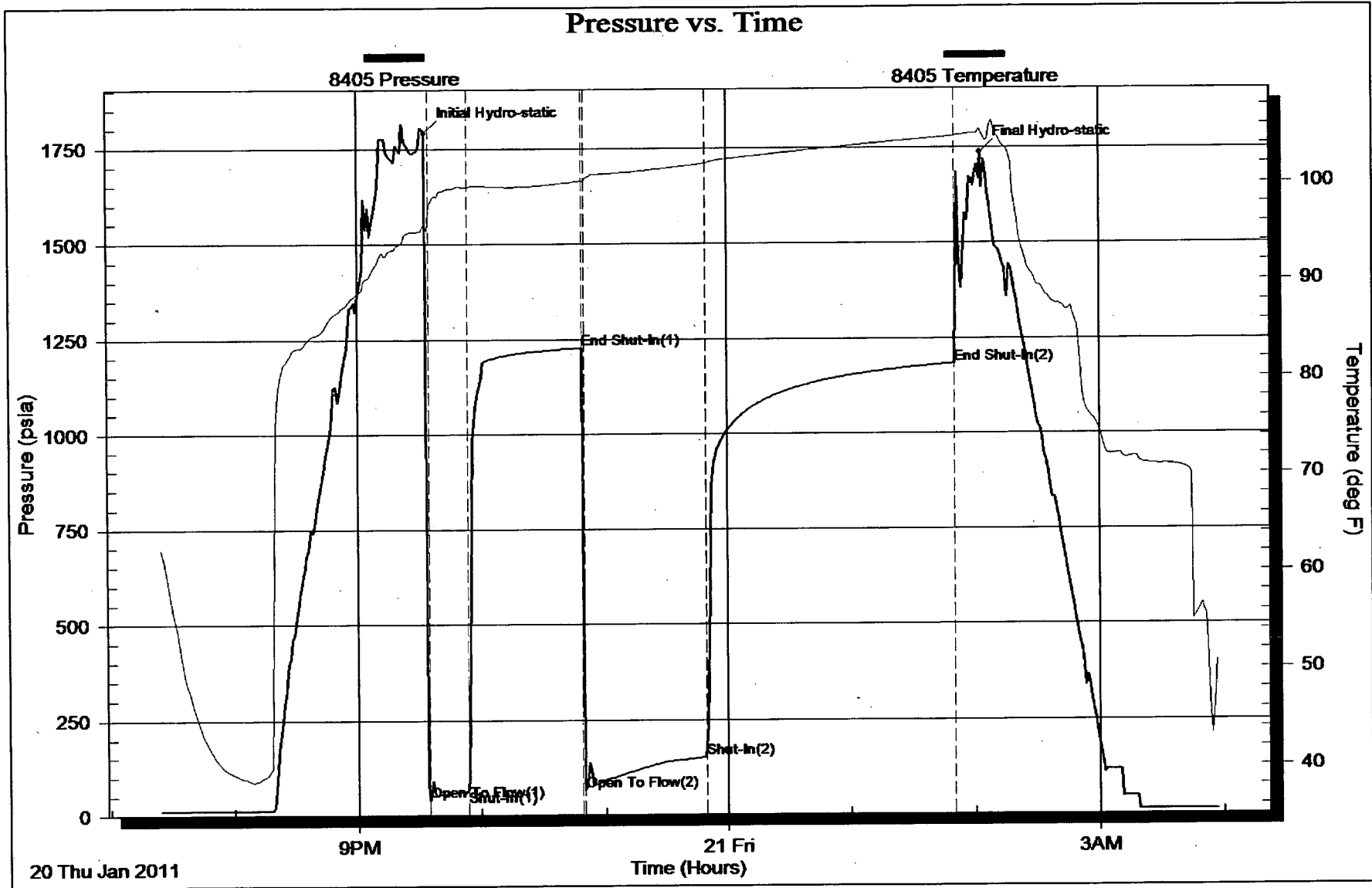
| | | | |
|----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | ppm |
| Viscosity: 67.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 9.20 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psia | | |
| Salinity: 8900.00 ppm | | | |
| Filter Cake: 1.00 inches | | | |

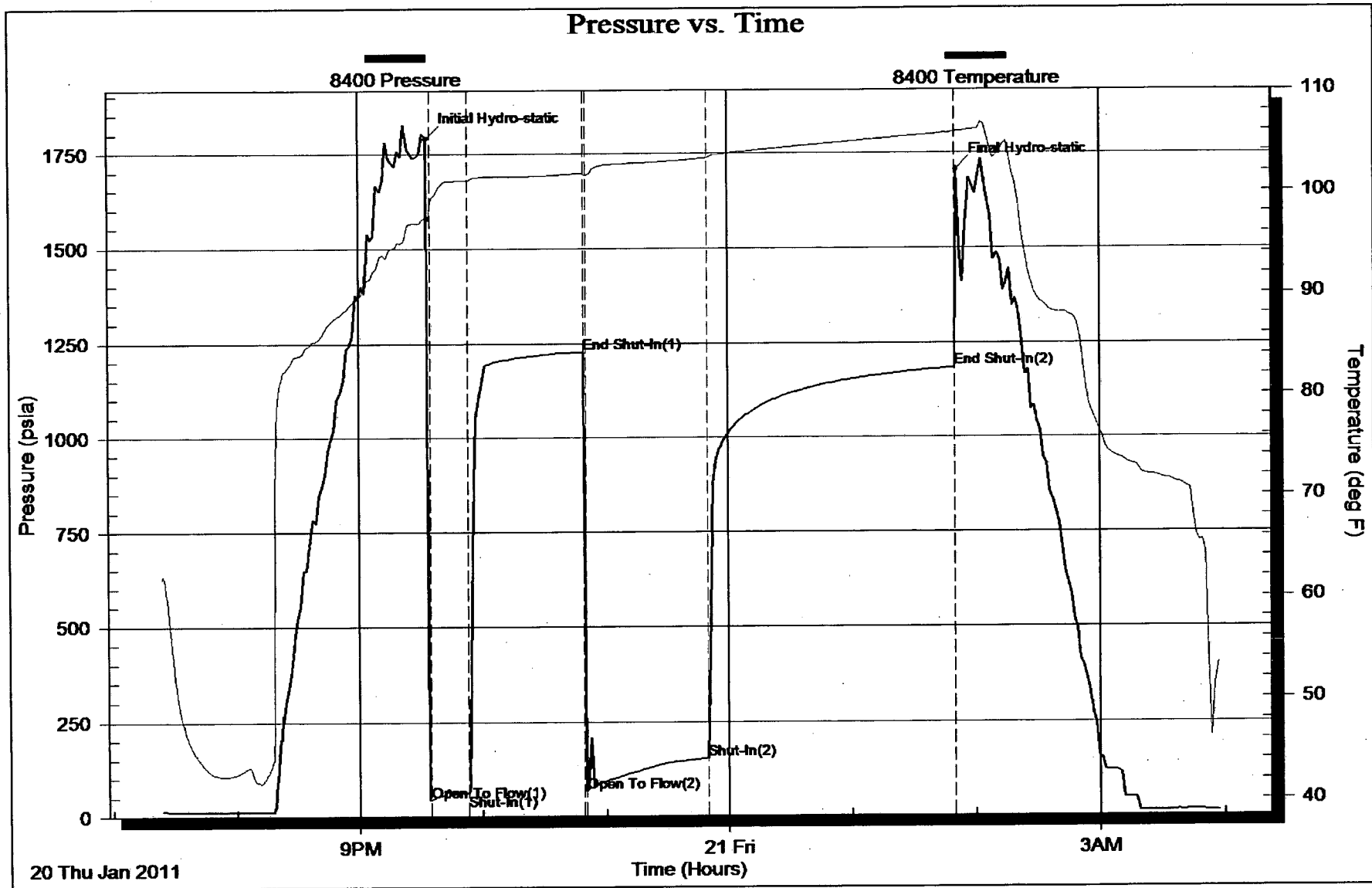
Recovery Information

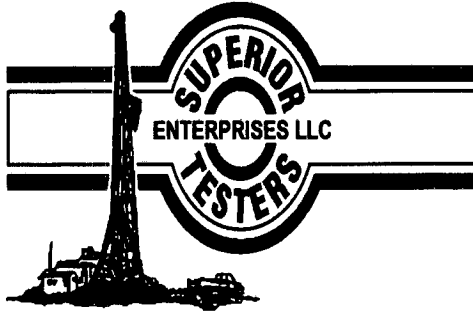
Recovery Table

| Length ft | Description | Volume bbl |
|--------------|----------------------------|---------------|
| 260.00 | WATER 15%MUD 85%WATER | 1.288 |
| 0.00 | CHLORIDES 43,000 | 0.000 |
| 0.00 | RESISTIVITY .2 @73 DEGREES | 0.000 |

Total Length: 260.00 ft Total Volume: 1.288 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Captiva**

2717 Canal Blvd. Suite C
Hays Kansas 67601

ATTN: Charlie Sturdavant

7/22S/16W Pawnee

Eakin Unit # 1-7

Start Date: 2011.01.21 @ 14:16:00

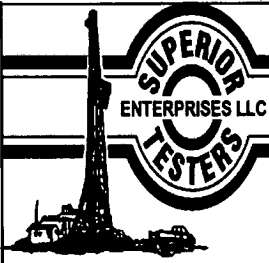
End Date: 2011.01.21 @ 21:15:07

Job Ticket #: 16020 DST #: 3

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

Printed: 2011.01.21 @ 21:32:51

Captiva Eakin Unit # 1-7 7/22S/16W Pawnee DST # 3 LANSING H ZONE 2011.01.21



DRILL STEM TEST REPORT

Captiva
 2717 Canal Blvd, Suite C
 Hays Kansas 67601
 ATTN: Charlie Sturdavant

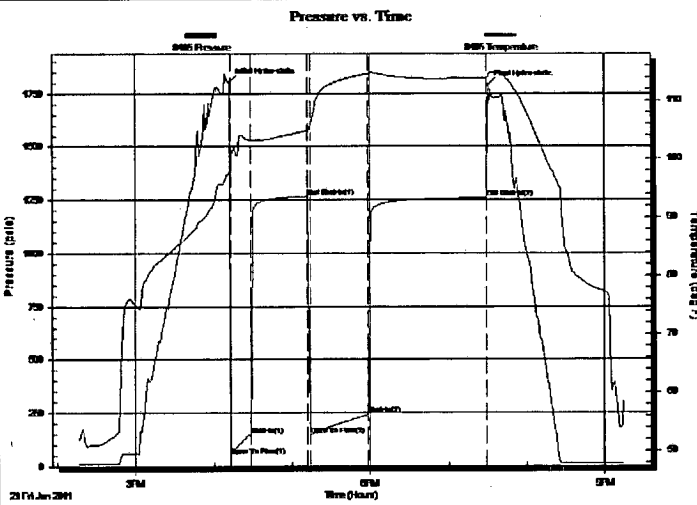
Eakin Unit # 1-7
7/22S/16W Pawnee
 Job Ticket: 16020 **DST#: 3**
 Test Start: 2011.01.21 @ 14:16:00

GENERAL INFORMATION:

Formation: **LANSING HZONE**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 16:12:37
 Tester: JARED SCHECK
 Time Test Ended: 21:15:07
 Unit No: 3345-GREAT BEND-50
 Interval: **3660.00 ft (KB) To 3678.00 ft (KB) (TVD)**
 Reference Elevations: 2018.00 ft (KB)
 Total Depth: 3678.00 ft (KB) (TVD) 2007.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 8405 **Inside**
 Press@RunDepth: 240.67 psia @ 3674.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.01.21 End Date: 2011.01.21 Last Calib.: 2011.01.21
 Start Time: 14:16:00 End Time: 21:15:07 Time On Btm: 2011.01.21 @ 16:12:07
 Time Off Btm: 2011.01.21 @ 19:30:07

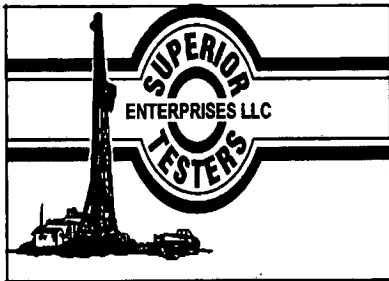
TEST COMMENT: 15/INITIAL OPEN:FAIR BLOW BUILT BOTTOM OF BUCKET IN 12 MINUTES
 45/INITIAL SHUT IN:VERY WEAK SURFACE BLOW
 45/FINAL OPEN:FAIR BLOW BUILT BOTTOM OF BUCKET IN 16 MINUTES
 90/FINAL SHUT IN:NO BLOW BACK



| PRESSURE SUMMARY | | | |
|------------------|-----------------|--------------|----------------------|
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
| 0 | 1804.02 | 97.50 | Initial Hydro-static |
| 1 | 48.23 | 97.14 | Open To Flow (1) |
| 16 | 146.64 | 103.13 | Shut-In(1) |
| 60 | 1265.38 | 104.87 | End Shut-In(1) |
| 62 | 146.30 | 105.88 | Open To Flow (2) |
| 106 | 240.67 | 114.62 | Shut-In(2) |
| 197 | 1260.12 | 113.87 | End Shut-In(2) |
| 198 | 1788.41 | 114.17 | Final Hydro-static |

| Recovery | | |
|-------------|-----------------------------|--------------|
| Length (ft) | Description | Volume (bbl) |
| 360.00 | WATER 15%MD 85%WATER | 2.69 |
| 0.00 | CHLORIDES 50,000 | 0.00 |
| 0.00 | RESISTIVITY .2 @ 70 DEGREES | 0.00 |
| | | |
| | | |

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



DRILL STEM TEST REPORT

Captiva
 2717 Canal Blvd. Suite C
 Hays Kansas 67601
 ATTN: Charlie Sturdavant

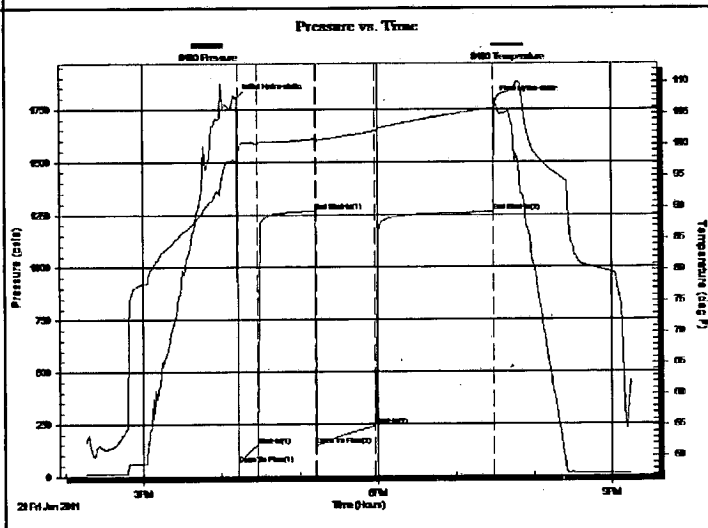
Eakin Unit # 1-7
7/22S/16W Pawnee
 Job Ticket: 16020 DST#: 3
 Test Start: 2011.01.21 @ 14:16:00

GENERAL INFORMATION:

Formation: **LANSING H ZONE**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:12:37
 Time Test Ended: 21:15:07
 Interval: **3660.00 ft (KB) To 3678.00 ft (KB) (TVD)**
 Total Depth: 3678.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: JARED SCHECK
 Unit No: 3345-GREAT BEND-50
 Reference Elevations: 2018.00 ft (KB)
 2007.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8400 Outside
 Press@RunDepth: 1260.92 psia @ 3675.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.01.21 End Date: 2011.01.21 Last Calib.: 2011.01.21
 Start Time: 14:16:00 End Time: 21:15:30 Time On Btm: 2011.01.21 @ 16:12:00
 Time Off Btm: 2011.01.21 @ 19:30:00

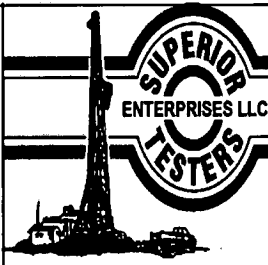
TEST COMMENT: 15/INITIAL OPEN:FAIR BLOW BUILT BOTTOM OF BUCKET IN 12 MINUTES
 45/INITIAL SHUT IN:VERY WEAK SURFACE BLOW
 45/FINAL OPEN:FAIR BLOW BUILT BOTTOM OF BUCKET IN 16 MINUTES
 90/FINAL SHUT IN:NO BLOW BACK



| PRESSURE SUMMARY | | | |
|------------------|-----------------|--------------|----------------------|
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
| 0 | 1804.48 | 97.24 | Initial Hydro-static |
| 1 | 60.33 | 98.79 | Open To Flow (1) |
| 16 | 146.99 | 100.20 | Shut-In(1) |
| 60 | 1266.10 | 100.92 | End Shut-In(1) |
| 61 | 146.79 | 100.68 | Open To Flow (2) |
| 106 | 242.22 | 102.19 | Shut-In(2) |
| 197 | 1260.92 | 105.84 | End Shut-In(2) |
| 198 | 1790.01 | 106.00 | Final Hydro-static |

| Recovery | | |
|-------------|-----------------------------|--------------|
| Length (ft) | Description | Volume (bbl) |
| 360.00 | WATER 15%MD 85%WATER | 2.69 |
| 0.00 | CHLORIDES 50,000 | 0.00 |
| 0.00 | RESISTIVITY .2 @ 70 DEGREES | 0.00 |
| | | |
| | | |

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Captiva
 2717 Canal Blvd, Suite C
 Hays Kansas 67601
 ATTN: Charlie Sturdavant

Eakin Unit # 1-7
 7/22S/16W Pawnee
 Job Ticket: 16020 DST#: 3
 Test Start: 2011.01.21 @ 14:16:00

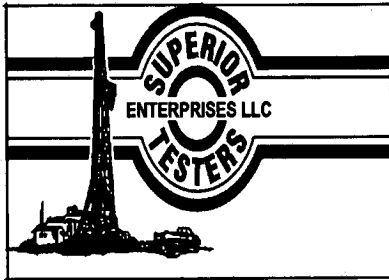
Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3383.00 ft | Diameter: 3.80 inches | Volume: 47.45 bbl | Tool Weight: 1000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 20000.00 lb |
| Drill Collar: | Length: 259.00 ft | Diameter: 2.25 inches | Volume: 1.27 bbl | Weight to Pull Loose: 84000.00 lb |
| | | | <u>Total Volume: 48.72 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 11.00 ft | | | String Weight: Initial 70000.00 lb |
| Depth to Top Packer: | 3660.00 ft | | | Final 71500.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 18.00 ft | | | |
| Tool Length: | 47.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|------------------------------------|
| Change Over Sub | 1.00 | | | 3632.00 | |
| Shut-In Tool | 5.00 | | | 3637.00 | |
| Hydraulic Tool | 5.00 | | | 3642.00 | |
| Jars | 6.00 | | | 3648.00 | |
| Safety Joint | 2.00 | | | 3650.00 | |
| Packer | 5.00 | | | 3655.00 | 29.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3660.00 | |
| Perforations | 13.00 | | | 3673.00 | |
| Recorder | 1.00 | 8405 | Inside | 3674.00 | |
| Recorder | 1.00 | 8400 | Outside | 3675.00 | |
| Bullnose | 3.00 | | | 3678.00 | 18.00 Bottom Packers & Anchor |

Total Tool Length: 47.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Captiva
 2717 Canal Blvd. Suite C
 Hays Kansas 67601
 ATTN: Charlie Sturdavant

Eakin Unit # 1-7
7/22S/16W Pawnee
 Job Ticket: 16020 DST#: 3
 Test Start: 2011.01.21 @ 14:16:00

Mud and Cushion Information

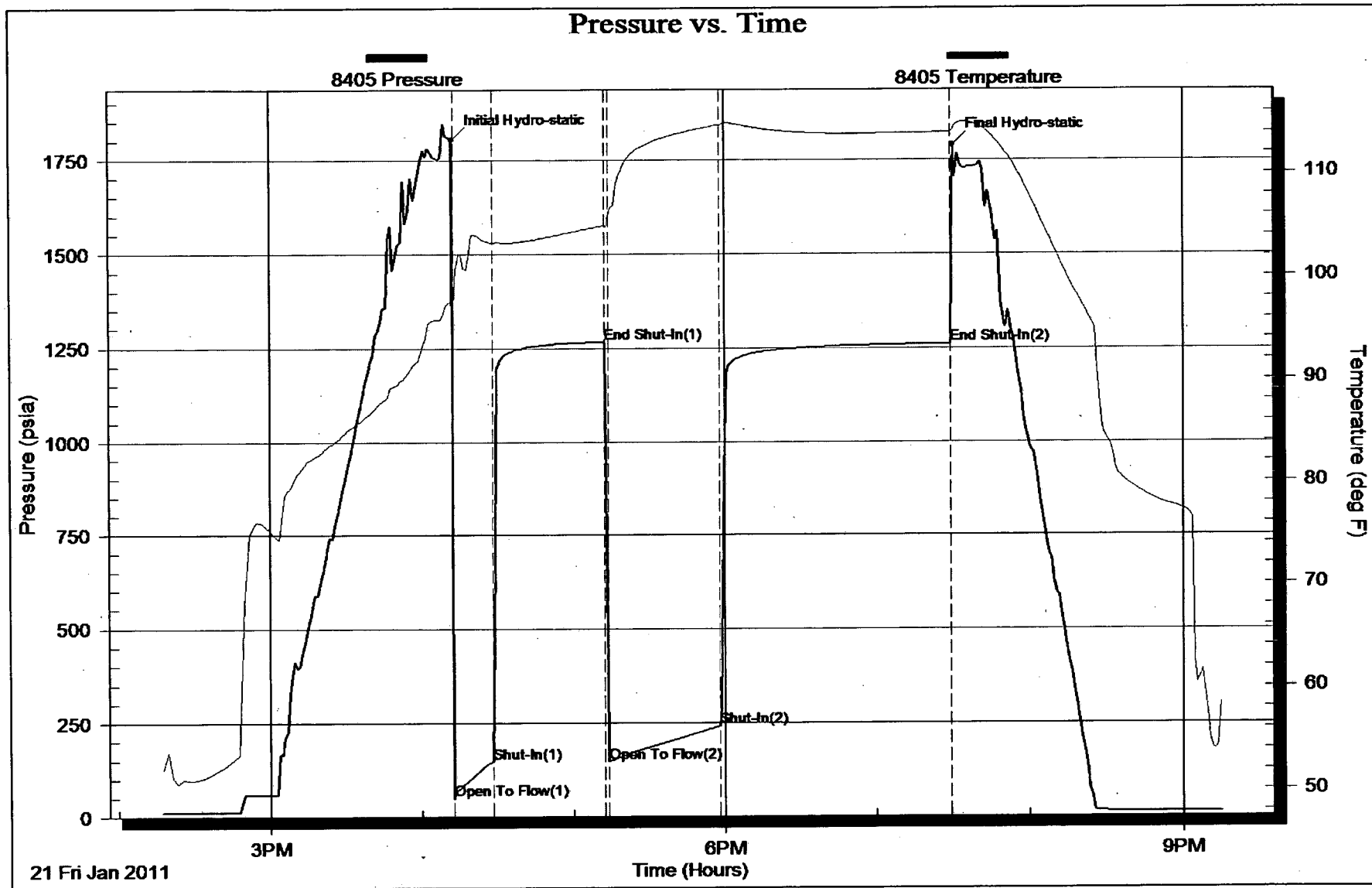
| | | | |
|----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | ppm |
| Viscosity: 53.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 8.40 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psia | | |
| Salinity: 7800.00 ppm | | | |
| Filter Cake: 1.00 inches | | | |

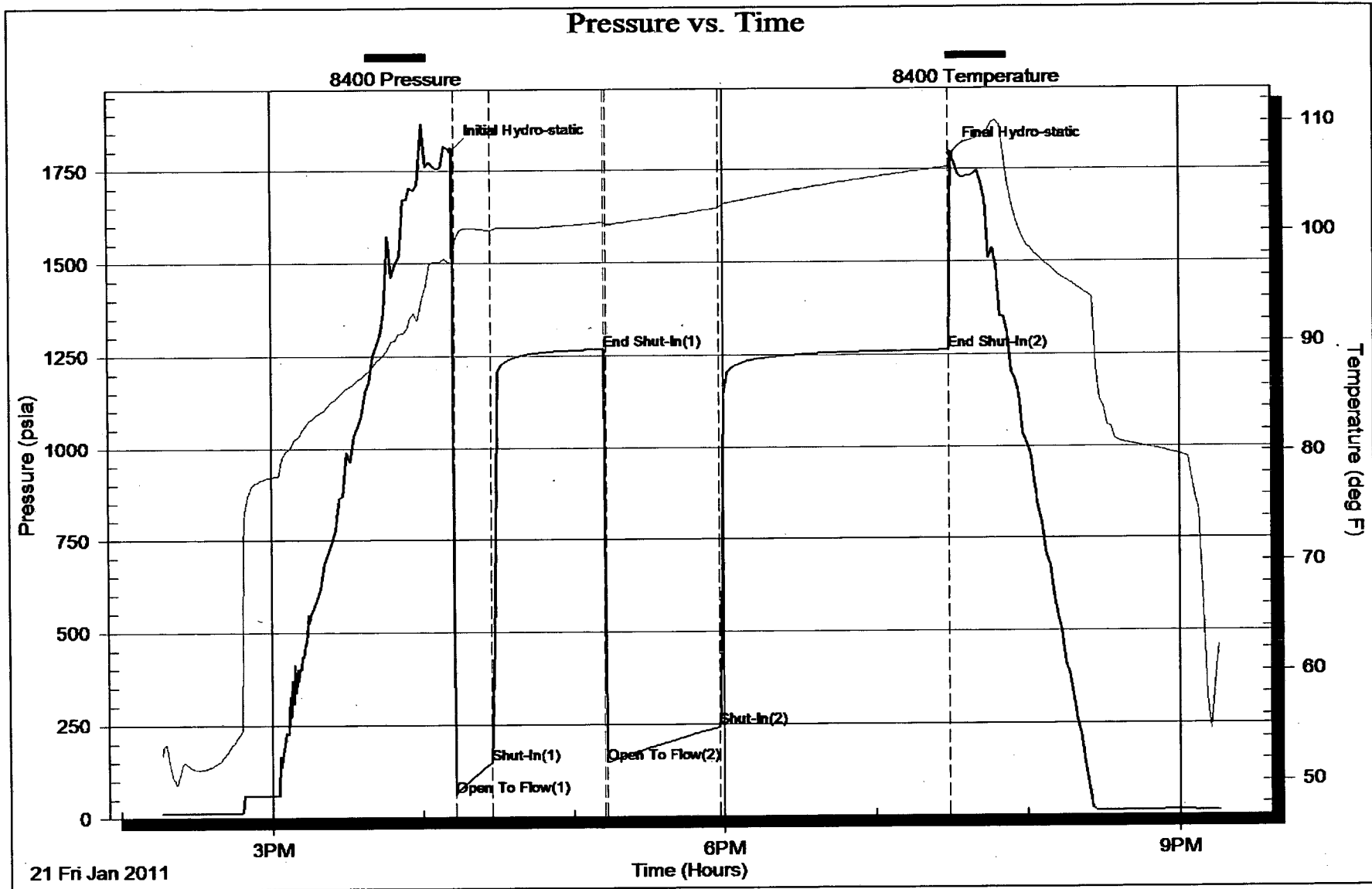
Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-----------------------------|---------------|
| 360.00 | WATER 15%MD 85%WATER | 2.690 |
| 0.00 | CHLORIDES 50,000 | 0.000 |
| 0.00 | RESISTIVITY .2 @ 70 DEGREES | 0.000 |

Total Length: 360.00 ft Total Volume: 2.690 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: CHLORIDES 50,000







DRILL STEM TEST REPORT

Prepared For: **Captiva**

2717 Canal Blvd. Suite C
Hays Kansas 67601

ATTN: Charlie Sturdavant

7/22S/16W Pawnee

Eakin Unit # 1-7

Start Date: 2011.01.22 @ 23:25:00

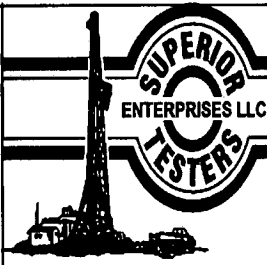
End Date: 2011.01.23 @ 07:12:06

Job Ticket #: 16021 DST #: 4

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

Printed: 2011.01.23 @ 07:30:03

Captiva Eakin Unit # 1-7 7/22S/16W Pawnee DST # 4 ARBUCKLE 2011.01.22



DRILL STEM TEST REPORT

Captiva
 2717 Canal Blvd. Suite C
 Hays Kansas 67601
 ATTN: Charlie Sturdavant

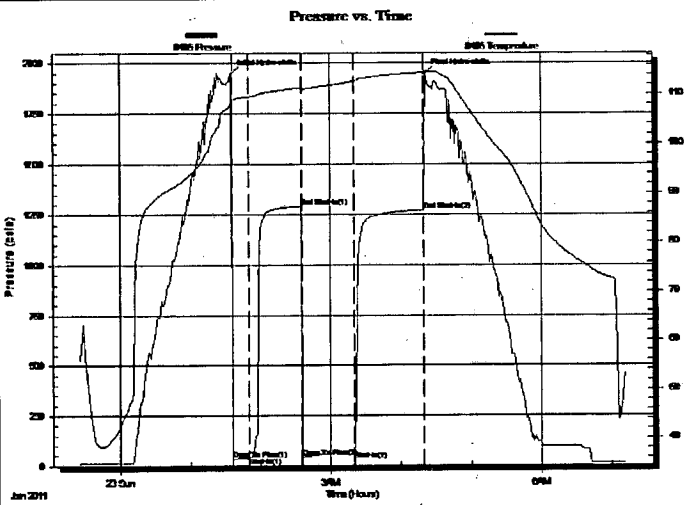
Eakin Unit # 1-7
7/22S/16W Pawnee
 Job Ticket: 16021 **DST#: 4**
 Test Start: 2011.01.22 @ 23:25:00

GENERAL INFORMATION:

Formation: **ARBUCKLE**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 01:36:06
 Tester: JARED SCHECK
 Time Test Ended: 07:12:06
 Unit No: 3320-GREAT BEND-50
 Interval: **3888.00 ft (KB) To 3896.00 ft (KB) (TVD)**
 Reference Elevations: 2018.00 ft (KB)
 Total Depth: 3896.00 ft (KB) (TVD)
 2007.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 11.00 ft

Serial #: 8405 Inside
 Press@RunDepth: 72.60 psia @ 3892.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.01.22 End Date: 2011.01.23 Last Calib.: 2011.01.23
 Start Time: 23:25:00 End Time: 07:12:06 Time On Btm: 2011.01.23 @ 01:35:36
 Time Off Btm: 2011.01.23 @ 04:21:06

TEST COMMENT: 15/INITIAL OPEN:WEAK BUT BUILDING BLOW BUILT 5 INCHES INTO WATER IN 15 MINUTES
 45/INITIAL SHUT IN:NO BLOW BACK
 45/FINAL OPEN:FAIR BLOW BUILT BOTTOM OF BUCKET IN 20 MINUTES
 60/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

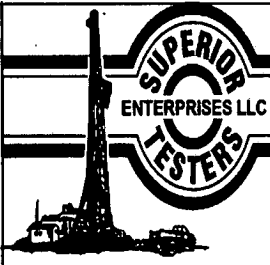
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1947.00 | 108.52 | Initial Hydro-static |
| 1 | 34.99 | 108.41 | Open To Flow (1) |
| 15 | 40.02 | 109.49 | Shut-In(1) |
| 60 | 1291.86 | 111.33 | End Shut-In(1) |
| 61 | 42.87 | 111.09 | Open To Flow (2) |
| 105 | 72.60 | 112.62 | Shut-In(2) |
| 165 | 1273.67 | 114.39 | End Shut-In(2) |
| 166 | 1946.79 | 114.53 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------------------|--------------|
| 420.00 | GAS IN PIPE | 3.53 |
| 130.00 | CLEAN GASSEY OIL 10%GAS 90%OIL | 1.82 |
| 0.00 | | 0.00 |
| | | |
| | | |

Gas Rates

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



DRILL STEM TEST REPORT

Captiva
 2717 Canal Blvd. Suite C
 Hays Kansas 67601
 ATTN: Charlie Sturdavant

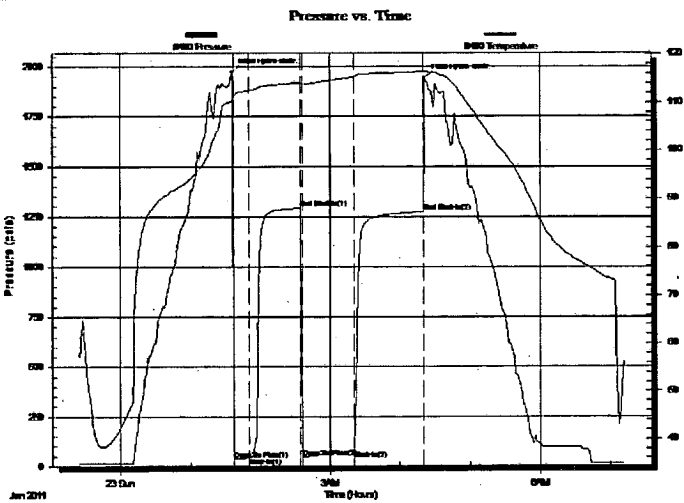
Eakin Unit # 1-7
7/22S/16W Pawnee
 Job Ticket: 16021 **DST#: 4**
 Test Start: 2011.01.22 @ 23:25:00

GENERAL INFORMATION:

Formation: **ARBUCKLE**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 01:36:06 Tester: JARED SCHECK
 Time Test Ended: 07:12:06 Unit No: 3320-GREAT BEND-50
 Interval: **3888.00 ft (KB) To 3896.00 ft (KB) (TVD)** Reference Elevations: 2018.00 ft (KB)
 Total Depth: 3896.00 ft (KB) (TVD) 2007.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 8400 Outside
 Press@RunDepth: 1273.83 psia @ 3893.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.01.22 End Date: 2011.01.23 Last Calib.: 2011.01.23
 Start Time: 23:25:00 End Time: 07:13:00 Time On Btm: 2011.01.23 @ 01:36:00
 Time Off Btm: 2011.01.23 @ 04:21:30

TEST COMMENT: 15/INITIAL OPEN:WEAK BUT BUILDING BLOW BUILT 5 INCHES INTO WATER IN 15 MINUTES
 45/INITIAL SHUT IN:NO BLOW BACK
 45/FINAL OPEN:FAIR BLOW BUILT BOTTOM OF BUCKET IN 20 MINUTES
 60/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

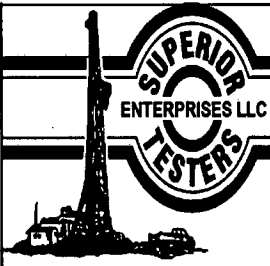
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1973.24 | 110.50 | Initial Hydro-static |
| 1 | 35.57 | 111.27 | Open To Flow (1) |
| 14 | 40.60 | 112.47 | Shut-In(1) |
| 59 | 1291.93 | 114.10 | End Shut-In(1) |
| 61 | 44.55 | 113.80 | Open To Flow (2) |
| 105 | 75.24 | 115.27 | Shut-In(2) |
| 164 | 1273.83 | 116.39 | End Shut-In(2) |
| 166 | 1942.32 | 116.45 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------------------|--------------|
| 420.00 | GAS IN PIPE | 3.53 |
| 130.00 | CLEAN GASSEY OIL 10%GAS 90%OIL | 1.82 |
| 0.00 | | 0.00 |
| | | |
| | | |

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Captiva
 2717 Canal Blvd. Suite C
 Hays Kansas 67601
 ATTN: Charlie Sturdavant

Eakin Unit # 1-7
7/22S/16W Pawnee
 Job Ticket: 16021 **DST#: 4**
 Test Start: 2011.01.22 @ 23:25:00

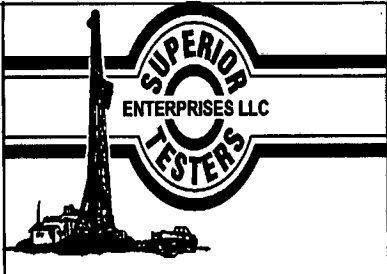
Tool Information

| | | | | |
|---------------------------|--------------------|-------------------------|-------------------|------------------------------------|
| Drill Pipe: | Length: 3629.00 ft | Diameter: 3.80 inches | Volume: 50.91 bbl | Tool Weight: 1000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 20000.00 lb |
| Drill Collar: | Length: 259.00 ft | Diameter: 2.25 inches | Volume: 1.27 bbl | Weight to Pull Loose: 90000.00 lb |
| | | Total Volume: 52.18 bbl | | Tool Chased 5.00 ft |
| Drill Pipe Above KB: | 29.00 ft | | | String Weight: Initial 75000.00 lb |
| Depth to Top Packer: | 3888.00 ft | | | Final 76000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 8.00 ft | | | |
| Tool Length: | 37.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-----------------------------------|
| Change Over Sub | 1.00 | | | 3860.00 | |
| Shut-In Tool | 5.00 | | | 3865.00 | |
| Hydrolic Tool | 5.00 | | | 3870.00 | |
| Jars | 6.00 | | | 3876.00 | |
| Safety Joint | 2.00 | | | 3878.00 | |
| Packer | 5.00 | | | 3883.00 | 29.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3888.00 | |
| Perforations | 3.00 | | | 3891.00 | |
| Recorder | 1.00 | 8405 | Inside | 3892.00 | |
| Recorder | 1.00 | 8400 | Outside | 3893.00 | |
| Bullnose | 3.00 | | | 3896.00 | 8.00 Bottom Packers & Anchor |

Total Tool Length: 37.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Captiva
 2717 Canal Blvd, Suite C
 Hays Kansas 67601
 ATTN: Charlie Sturdavant

Eakin Unit # 1-7
 7/22S/16W Pawnee
 Job Ticket: 16021 DST#: 4
 Test Start: 2011.01.22 @ 23:25:00

Mud and Cushion Information

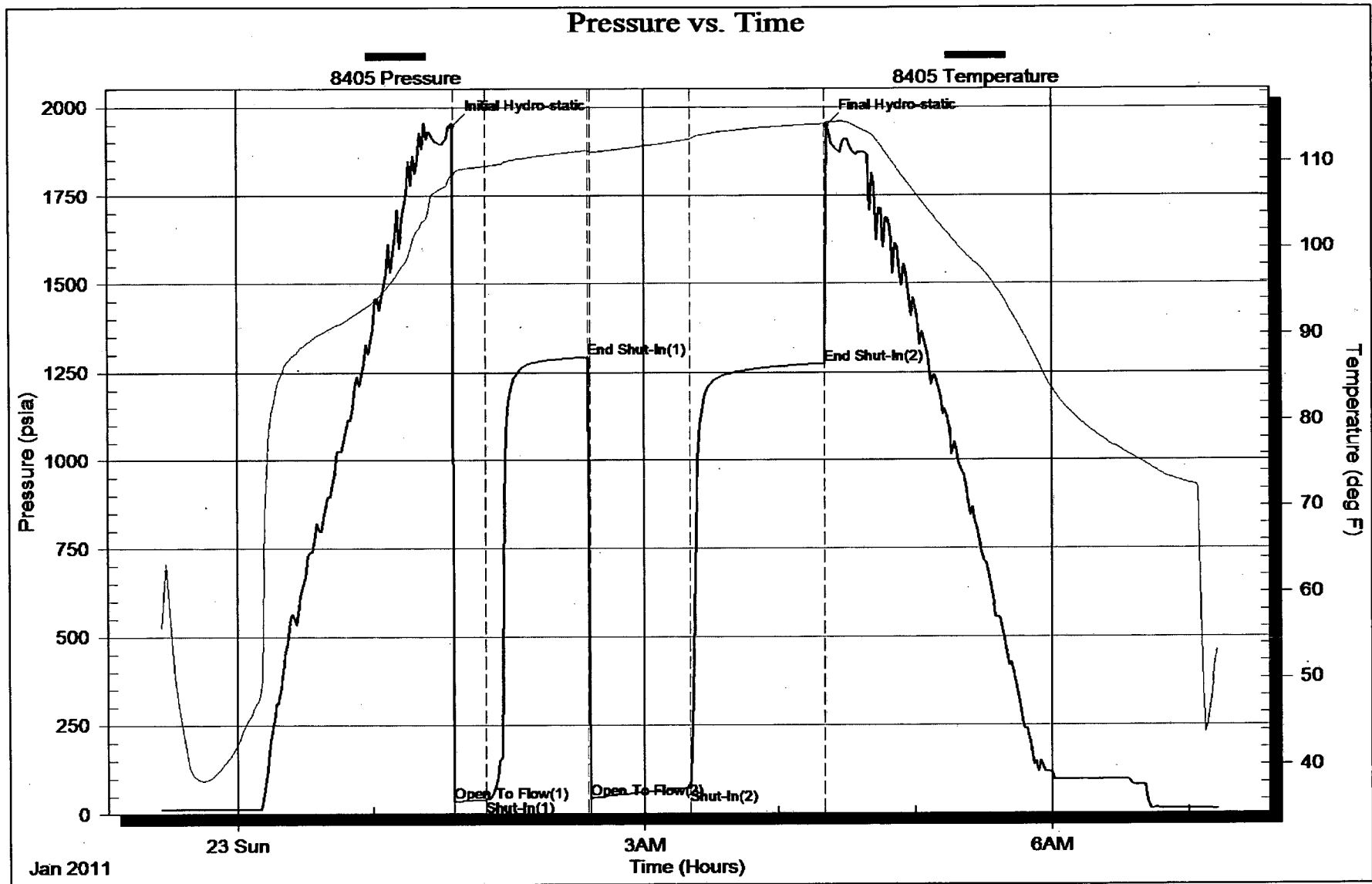
| | | | |
|----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | ppm |
| Viscosity: 69.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 8.40 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psia | | |
| Salinity: 7700.00 ppm | | | |
| Filter Cake: 1.00 inches | | | |

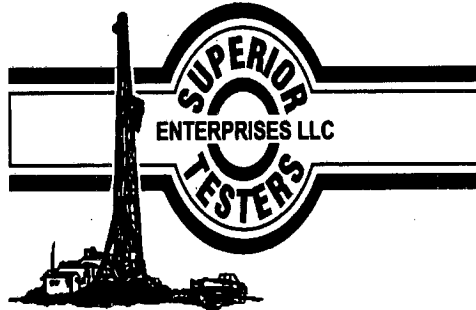
Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------------------------|---------------|
| 420.00 | GAS IN PIPE | 3.532 |
| 130.00 | CLEAN GASSEY OIL 10%GAS 90%OIL | 1.824 |
| 0.00 | | 0.000 |

Total Length: 550.00 ft Total Volume: 5.356 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: TOOL CHASED 5 FEET TO BOTTOM





DRILL STEM TEST REPORT

Prepared For: **Captiva**

2717 Canal Blvd. Suite C
Hays Kansas 67601

ATTN: Charlie Sturdavant

7/22S/16W Pawnee

Eakin Unit # 1-7

Start Date: 2011.01.23 @ 14:45:00

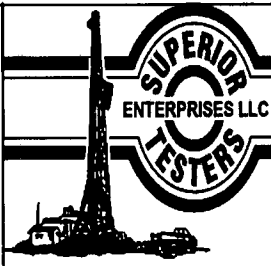
End Date: 2011.01.23 @ 22:19:35

Job Ticket #: 16022 DST #: 5

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

Printed: 2011.01.23 @ 22:46:38

Captiva Eakin Unit # 1-7 7/22S/16W Pawnee DST # 5 ARBCKLE 2011.01.23



DRILL STEM TEST REPORT

Captiva
 2717 Canal Blvd. Suite C
 Hays Kansas 67601
 ATTN: Charlie Sturdavant

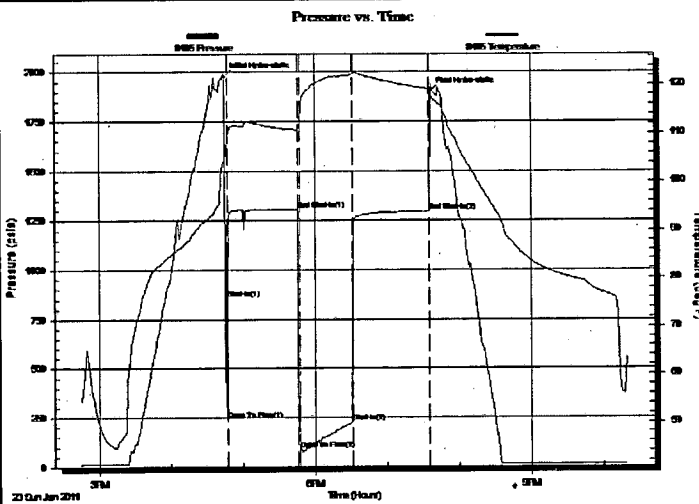
Eakin Unit # 1-7
 7/22S/16W Pawnee
 Job Ticket: 16022 DST#: 5
 Test Start: 2011.01.23 @ 14:45:00

GENERAL INFORMATION:

Formation: **ARBCKLE**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 16:46:35 Tester: JARED SCHECK
 Time Test Ended: 22:19:35 Unit No: 3320-GREAT BEND-50
 Interval: **3897.00 ft (KB) To 3906.00 ft (KB) (TVD)** Reference Elevations: 2018.00 ft (KB)
 Total Depth: 3906.00 ft (KB) (TVD) 2007.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 11.00 ft

Serial #: 8405 Inside
 Press@RunDepth: 224.23 psia @ 3902.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.01.23 End Date: 2011.01.23 Last Calib.: 2011.01.23
 Start Time: 14:45:00 End Time: 22:19:35 Time On Btm: 2011.01.23 @ 16:44:35
 Time Off Btm: 2011.01.23 @ 19:36:05

TEST COMMENT: 15/INITIAL OPEN:WEAK BLOW BUILT 2 1/4 INCHES INTO BUCKET WATER DIED OFF AFTER 8 MINUTES
 45/INITIAL SHUT IN:NO BLOW BACK
 45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET WATER IN 2 MINUTES
 60/FINAL SHUT IN:BLOW BACK BOTTOM OF BUCKET



PRESSURE SUMMARY

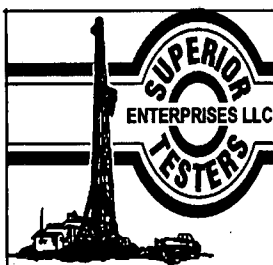
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1977.50 | 104.27 | Initial Hydro-static |
| 2 | 242.44 | 108.37 | Open To Flow (1) |
| 3 | 857.88 | 109.55 | Shut-In(1) |
| 61 | 1306.46 | 110.63 | End Shut-In(1) |
| 62 | 88.09 | 112.30 | Open To Flow (2) |
| 106 | 224.23 | 122.08 | Shut-In(2) |
| 171 | 1298.11 | 119.08 | End Shut-In(2) |
| 172 | 1897.72 | 118.49 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------------------|--------------|
| 60.00 | SLIGHTLEY GASSEY MUD CUT OIL | 0.30 |
| 0.00 | 2% GAS 10% MUD 88% OIL | 0.00 |
| 420.00 | CLEAN GASSY OIL 15% GAS 85% OIL | 4.08 |
| 0.00 | 2280 GAS IN PIPE | 0.00 |
| | | |
| | | |

Gas Rates

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



DRILL STEM TEST REPORT

Captiva
2717 Canal Blvd. Suite C
Hays Kansas 67601

Eakin Unit # 1-7
7/22S/16W Pawnee
Job Ticket: 16022 **DST#: 5**
Test Start: 2011.01.23 @ 14:45:00

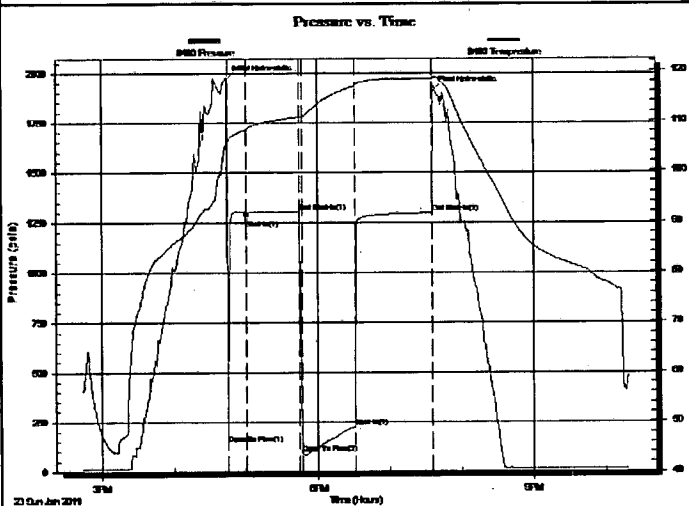
ATTN: Charlie Sturdavant

GENERAL INFORMATION:

Formation: **ARBCKLE**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:46:35
Time Test Ended: 22:19:35
Interval: **3897.00 ft (KB) To 3906.00 ft (KB) (TVD)**
Total Depth: 3906.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: JARED SCHECK
Unit No: 3320-GREAT BEND-50.
Reference Elevations: 2018.00 ft (KB)
2007.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8400 **Outside**
Press@RunDepth: 1298.55 psia @ 3903.00 ft (KB) Capacity: 5000.00 psia
Start Date: 2011.01.23 End Date: 2011.01.23 Last Calib.: 2011.01.23
Start Time: 14:45:00 End Time: 22:19:30 Time On Btm: 2011.01.23 @ 16:44:00
Time Off Btm: 2011.01.23 @ 19:36:00

TEST COMMENT: 15/INITIAL OPEN:WEAK BLOW BUILT 2 1/4 INCHES INTO BUCKET WATER DIED OFF AFTER 8 MINUTES
45/INITIAL SHUT IN :NO BLOW BACK
45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET WATER IN 2 MINUTES
60/FINAL SHUT IN:BLOW BACK BOTTOM OF BUCKET



PRESSURE SUMMARY

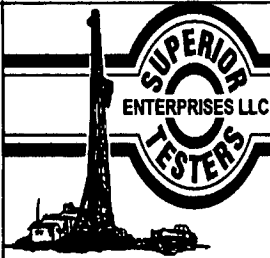
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1970.70 | 105.15 | Initial Hydro-static |
| 1 | 142.67 | 105.27 | Open To Flow (1) |
| 17 | 1221.15 | 108.20 | Shut-In(1) |
| 61 | 1306.91 | 110.75 | End Shut-In(1) |
| 63 | 91.27 | 110.55 | Open To Flow (2) |
| 107 | 226.23 | 116.99 | Shut-In(2) |
| 171 | 1298.55 | 118.27 | End Shut-In(2) |
| 172 | 1910.99 | 118.67 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------------------|--------------|
| 60.00 | SLIGHTLEY GASSEY MUD CUT OIL | 0.30 |
| 0.00 | 2%GAS 10%MUD 88%OIL | 0.00 |
| 420.00 | CLEAN GASSY OIL 15%GAS 85%OIL | 4.08 |
| 0.00 | 2280 GAS IN PIPE | 0.00 |
| | | |
| | | |

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Captiva
 2717 Canal Blvd. Suite C
 Hays Kansas 67601
 ATTN: Charlie Sturdavant

Eakin Unit # 1-7
7/22S/16W Pawnee
 Job Ticket: 16022 **DST#: 5**
 Test Start: 2011.01.23 @ 14:45:00

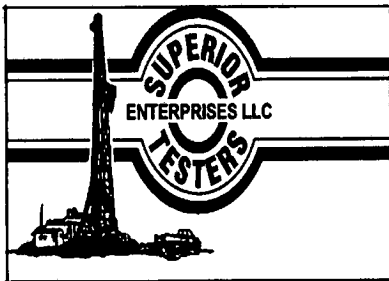
Tool Information

| | | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe: | Length: 3629.00 ft | Diameter: 3.80 inches | Volume: 50.91 bbl | Tool Weight: | 1000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: | 20000.00 lb |
| Drill Collar: | Length: 259.00 ft | Diameter: 2.25 inches | Volume: 1.27 bbl | Weight to Pull Loose: | 86000.00 lb |
| | | | <u>Total Volume: 52.18 bbl</u> | Tool Chased | 6.00 ft |
| Drill Pipe Above KB: | 20.00 ft | | | String Weight: Initial | 74000.00 lb |
| Depth to Top Packer: | 3897.00 ft | | | Final | 75500.00 lb |
| Depth to Bottom Packer: | ft | | | | |
| Interval between Packers: | 9.00 ft | | | | |
| Tool Length: | 38.00 ft | | | | |
| Number of Packers: | 2 | Diameter: | 6.75 inches | | |

Tool Comments: TOOL CHASED 6 FEET TO BOTTOM / 15 STANDS OUT OF HOLE HIT GAS/

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-----------------------------------|
| Change Over Sub | 1.00 | | | 3869.00 | |
| Shut-In Tool | 5.00 | | | 3874.00 | |
| Hydrolic Tool | 5.00 | | | 3879.00 | |
| Jars | 6.00 | | | 3885.00 | |
| Safety Joint | 2.00 | | | 3887.00 | |
| Packer | 5.00 | | | 3892.00 | 29.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3897.00 | |
| Perforations | 4.00 | | | 3901.00 | |
| Recorder | 1.00 | 8405 | Inside | 3902.00 | |
| Recorder | 1.00 | 8400 | Outside | 3903.00 | |
| Bullnose | 3.00 | | | 3906.00 | 9.00 Bottom Packers & Anchor |

Total Tool Length: 38.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Captiva
 2717 Canal Blvd. Suite C
 Hays Kansas 67601
 ATTN: Charlie Sturdavant

Eakin Unit # 1-7
7/22S/16W Pawnee
 Job Ticket: 16022 DST#: 5
 Test Start: 2011.01.23 @ 14:45:00

Mud and Cushion Information

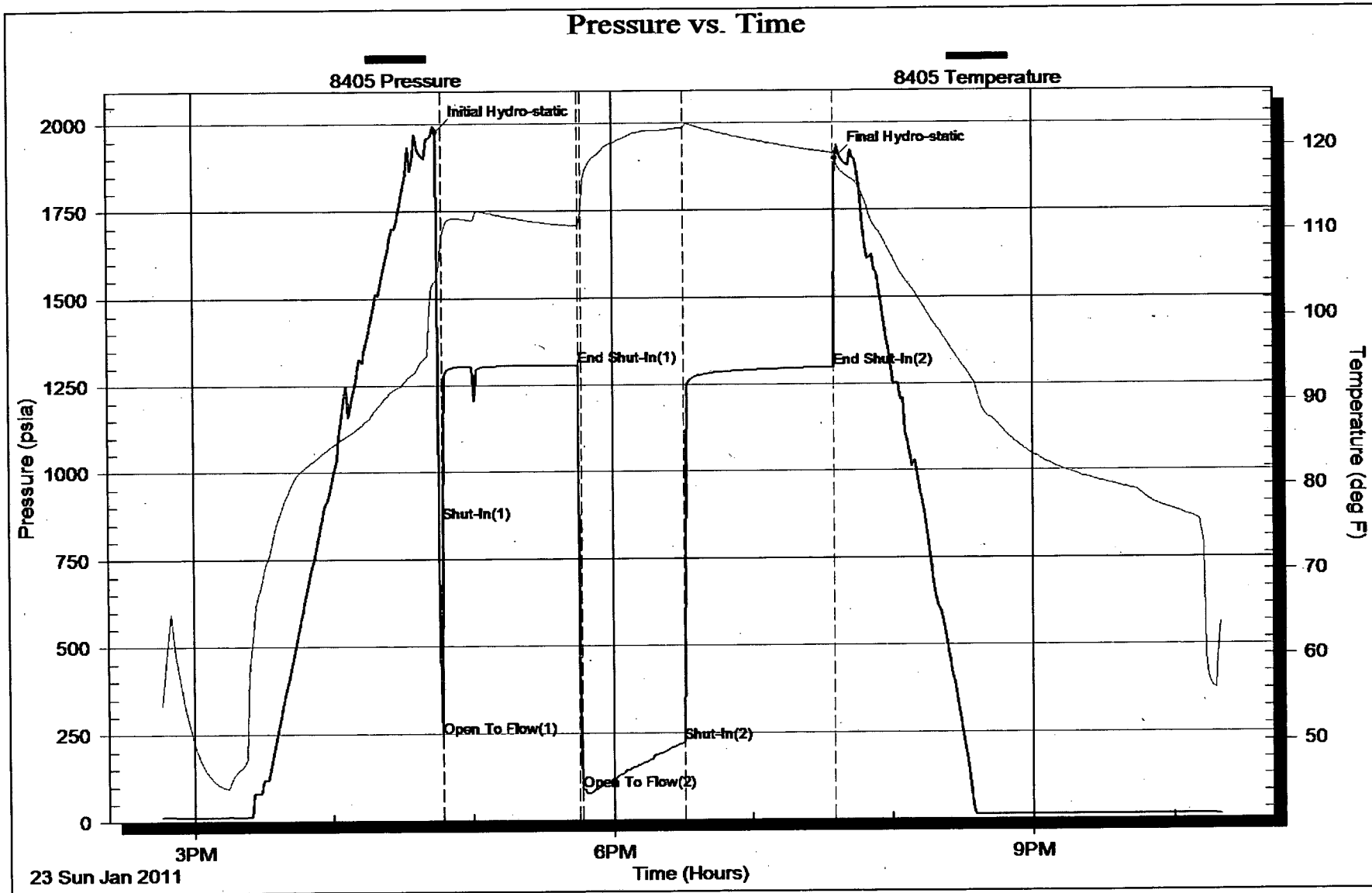
| | | |
|----------------------------------|----------------------------|---------------------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: 48 deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: ppm |
| Viscosity: 62.00 sec/qt | Cushion Volume: bbl | |
| Water Loss: 8.80 in ³ | Gas Cushion Type: | |
| Resistivity: ohm.m | Gas Cushion Pressure: psia | |
| Salinity: 7400.00 ppm | | |
| Filter Cake: 1.00 inches | | |

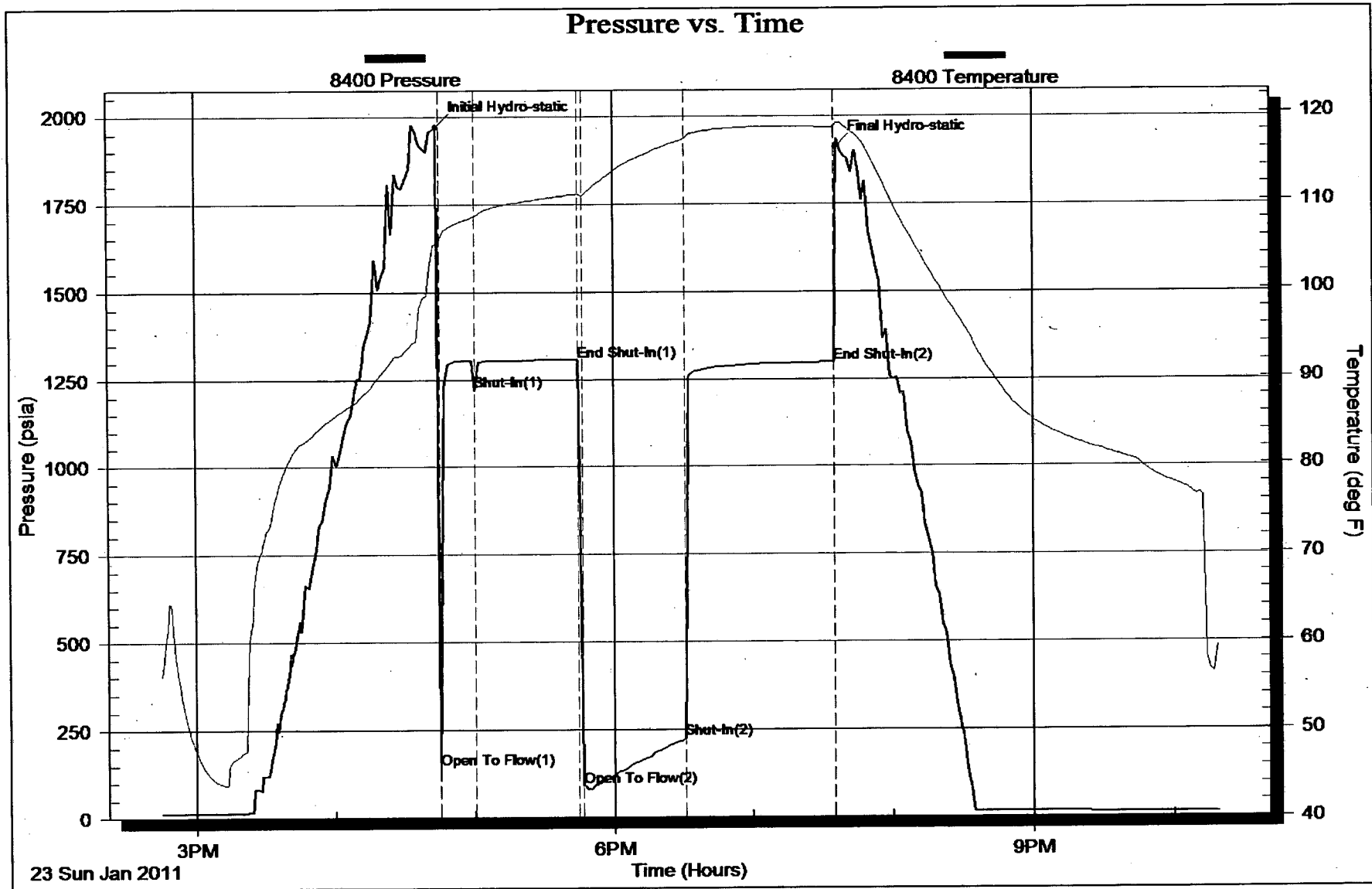
Recovery Information

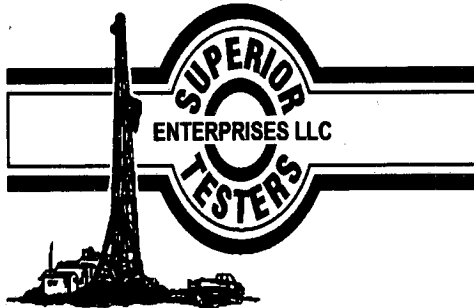
Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------------------------|---------------|
| 60.00 | SLIGHTLEY GASSEY MUD CUT OIL | 0.295 |
| 0.00 | 2%GAS 10%MJD 88%OIL | 0.000 |
| 420.00 | CLEAN GASSY OIL 15%GAS 85%OIL | 4.079 |
| 0.00 | 2280 GAS IN PIPE | 0.000 |

Total Length: 480.00 ft Total Volume: 4.374 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: TOOL CHASED 6 FEET TO BOTTOM / 15 STANDS OUT OF HOLE HIT GAS/ GRAVITY OIL 48







DRILL STEM TEST REPORT

Prepared For: **Captiva**

2717 Canal Blvd. Suite C
Hays Kansas 67601

ATTN: Charlie Sturdavant

7/22S/16W Pawnee

Eakin Unit # 1-7

Start Date: 2011.11.23 @ 19:23:00

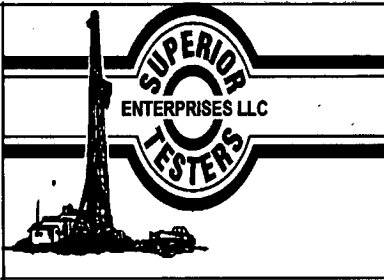
End Date: 2011.11.24 @ 02:57:35

Job Ticket #: 16023 DST #: 6

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

Printed: 2011.01.25 @ 03:30:15

Captiva Eakin Unit # 1-7 7/22S/16W Pawnee DST # 6 ARBUCKLE 2011.11.23



DRILL STEM TEST REPORT

Captiva
 2717 Canal Blvd. Suite C
 Hays Kansas 67601
 ATTN: Charlie Sturdavant

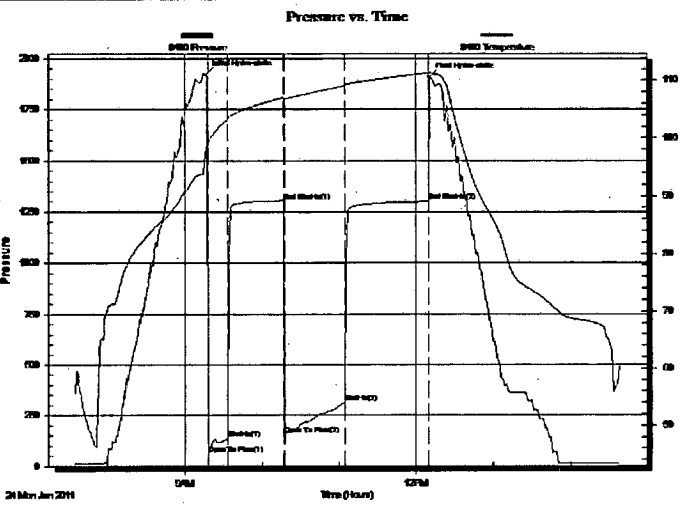
Eakin Unit # 1-7
7/22S/16W Pawnee
 Job Ticket: 16023 **DST#: 6**
 Test Start: 2011.11.23 @ 19:23:00

GENERAL INFORMATION:

Formation: **ARBUCKLE**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:34:05
 Time Test Ended: 02:57:35
 Interval: **3910.00 ft (KB) To 3918.00 ft (KB) (TVD)**
 Total Depth: 3918.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: JARED SCHECK
 Unit No: 3345-GREAT BEND-50
 Reference Elevations: 2018.00 ft (KB)
 2007.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8400 Outside
 Press@RunDepth: 1300.66 psia @ 3915.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.01.24 End Date: 2011.01.24 Last Calib.: 2011.01.25
 Start Time: 07:35:00 End Time: 14:39:00 Time On Btm: 2011.01.24 @ 09:16:30
 Time Off Btm: 2011.01.24 @ 12:10:00

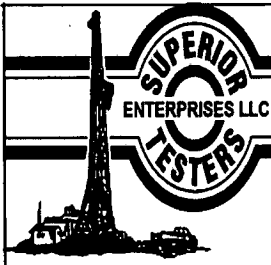
TEST COMMENT: 15/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 2 MINUTES
 45/INITIAL SHUT IN:BOTTOM OF BUCKET
 45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 2 MINUTES
 60/FINAL SHUT IN:BOTTOM OF BUCKET BLOW BACK



| PRESSURE SUMMARY | | | |
|------------------|-----------------|--------------|----------------------|
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
| 0 | 1920.94 | 97.83 | Initial Hydro-static |
| 2 | 60.09 | 98.81 | Open To Flow (1) |
| 17 | 136.28 | 103.10 | Shut-In(1) |
| 60 | 1304.82 | 107.00 | End Shut-In(1) |
| 61 | 159.03 | 106.72 | Open To Flow (2) |
| 108 | 313.27 | 109.03 | Shut-In(2) |
| 173 | 1300.66 | 111.31 | End Shut-In(2) |
| 174 | 1910.08 | 111.47 | Final Hydro-static |

| Recovery | | |
|-------------|--------------------------------|--------------|
| Length (ft) | Description | Volume (bbl) |
| 120.00 | Oil Cut Muddy Water | 0.59 |
| 0.00 | 5%Gas 10%Oil 30%Mud 55%Water | 0.00 |
| 60.00 | Oil and Gas cut muddy w water | 0.30 |
| 0.00 | 10%Gas 10%Oil 30%Mud 50%Water | 0.00 |
| 60.00 | Clean gassy oil 15% gas 85%Oil | 0.30 |
| 550.00 | Clean Gassy Oil 10%Gas 90% Oil | 7.54 |

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Captiva
 2717 Canal Blvd. Suite C
 Hays Kansas 67601
 ATTN: Charlie Sturdavant

Eakin Unit # 1-7
 7/22S/16W Pawnee
 Job Ticket: 16023 DST#: 6
 Test Start: 2011.11.23 @ 19:23:00

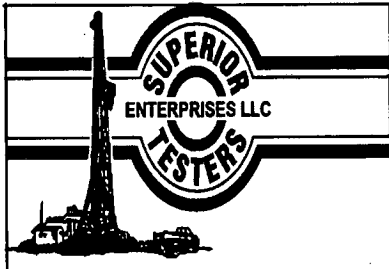
Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3629.00 ft | Diameter: 3.80 inches | Volume: 50.91 bbl | Tool Weight: 1000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 20000.00 lb |
| Drill Collar: | Length: 259.00 ft | Diameter: 2.25 inches | Volume: 1.27 bbl | Weight to Pull Loose: 105000.0 lb |
| | | | <u>Total Volume: 52.18 bbl</u> | Tool Chased 6.00 ft |
| Drill Pipe Above KB: | 7.00 ft | | | String Weight: Initial 74000.00 lb |
| Depth to Top Packer: | 3910.00 ft | | | Final 76000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 8.00 ft | | | |
| Tool Length: | 37.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments: chased tool 6 feet to bottom

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-----------------------------------|
| Change Over Sub | 1.00 | | | 3882.00 | |
| Shut-In Tool | 5.00 | | | 3887.00 | |
| Hydraulic Tool | 5.00 | | | 3892.00 | |
| Jars | 6.00 | | | 3898.00 | |
| Safety Joint | 2.00 | | | 3900.00 | |
| Packer | 5.00 | | | 3905.00 | 29.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3910.00 | |
| Perforations | 3.00 | | | 3913.00 | |
| Recorder | 1.00 | 8405 | Inside | 3914.00 | |
| Recorder | 1.00 | 8400 | Outside | 3915.00 | |
| Bullnose | 3.00 | | | 3918.00 | 8.00 Bottom Packers & Anchor |

Total Tool Length: 37.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Captiva
 2717 Canal Blvd. Suite C
 Hays Kansas 67601
 ATTN: Charlie Sturdavant

Eakin Unit # 1-7
 7/22S/16W Pawnee
 Job Ticket: 16023 DST#: 6
 Test Start: 2011.11.23 @ 19:23:00

Mud and Cushion Information

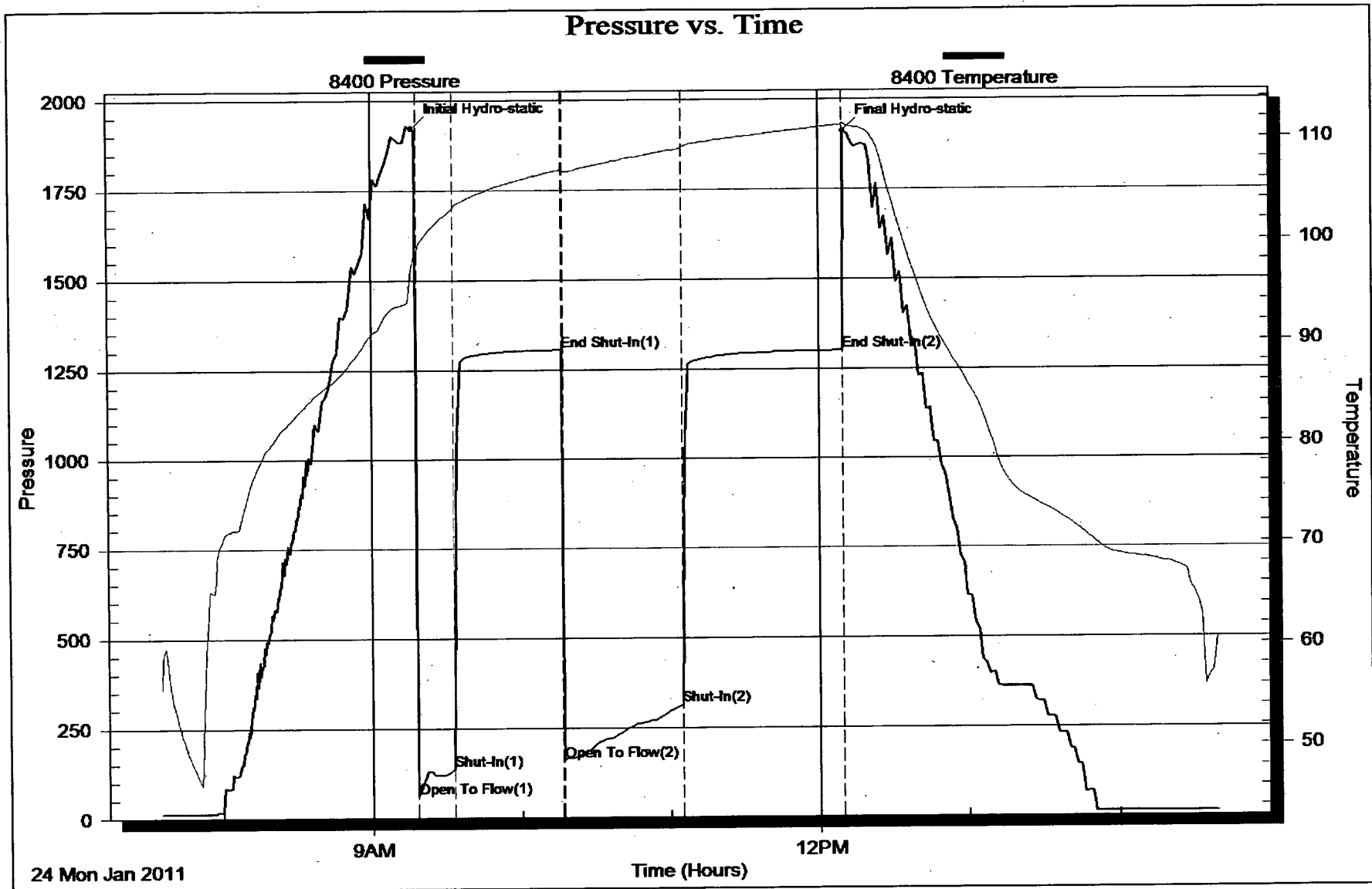
| | | |
|----------------------------------|----------------------------|---------------------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: 47 deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: ppm |
| Viscosity: 62.00 sec/qt | Cushion Volume: bbl | |
| Water Loss: 8.77 in ³ | Gas Cushion Type: | |
| Resistivity: ohm.m | Gas Cushion Pressure: psia | |
| Salinity: 7400.00 ppm | | |
| Filter Cake: 1.00 inches | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|-----------|--------------------------------|------------|
| 120.00 | Oil Cut Muddy Water | 0.590 |
| 0.00 | 5%Gas 10%Oil 30%Mud 55%Water | 0.000 |
| 60.00 | Oil and Gas cut muddy water | 0.295 |
| 0.00 | 10%Gas 10%Oil 30%Mud 50%Water | 0.000 |
| 60.00 | Clean gassy oil 15% gas 85%Oil | 0.295 |
| 550.00 | Clean Gassy Oil 10%Gas 90% Oil | 7.542 |
| 0.00 | 2880 Gas in the pipe | 0.000 |
| 0.00 | Chlorides 18000 | 0.000 |
| 0.00 | Resistivity .2 @ 78000 | 0.000 |
| 0.00 | Gravity 47 Corrected | 0.000 |

Total Length: 790.00 ft Total Volume: 8.722 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: chased tool 6 feet to boottom



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

November 11, 2011

Chris Gottschalk
Shelby Resources LLC
445 Union Boulevard
Suite 208
LAKEWOOD, CO 80228

Re: ACO1
API 15-145-21625-00-00
Eakin Unit #1-7
SE/4 Sec.07-22S-16W
Pawnee County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Chris Gottschalk

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

November 14, 2011

Chris Gottschalk
Shelby Resources LLC
445 Union Boulevard
Suite 208
LAKEWOOD, CO 80228

Re: ACO-1
API 15-145-21625-00-00
Eakin Unit #1-7
SE/4 Sec.07-22S-16W
Pawnee County, Kansas

Dear Chris Gottschalk:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 01/14/2011 and the ACO-1 was received on November 11, 2011 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department