

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
October 2008
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

11/7/13

OPERATOR: License # 4767

Name: Ritchie Exploration, Inc.

Address 1: P.O. Box 783188

Address 2: _____

City: Wichita State: KS Zip: 67278 + 3118

Contact Person: Peter Fiorini

Phone: (316) 691-9500

CONTRACTOR: License # 30606

Name: Murfin Drilling Co., Inc.

Wellsite Geologist: Jeff Christian

Purchaser: NCRA

Designate Type of Completion: KCC WICHITA

- New Well Re-Entry Workover
- Oil SWD SLOW
- Gas ENHR SIGW
- CM (Coal Bed Methane) Temp. Abd.
- Dry Other _____
(Core, WSW, Expl., Cathodic, etc.)

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to Enhr. Conv. to SWD

Plug Back: _____ Plug Back Total Depth _____

Commingled Docket No.: _____

Dual Completion Docket No.: _____

Other (SWD or Enhr.?) Docket No.: _____

9/14/10 9/23/10 9/24/10

| | | |
|-----------------------------------|-----------------|---|
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |
|-----------------------------------|-----------------|---|

KCC
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JAN 10 2011

KCC WICHITA

API No. 15 - 063-21868-0000

Spot Description: 5' N & 60' W of

S/2 - SW - SE - _____ Sec. 28 Twp. 13 S. R. 31 East West

335 Feet from North / South Line of Section

2040 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

County: Gove

Lease Name: ShIPLEY 28D Well #: 1

Field Name: _____

Producing Formation: LKC

Elevation: Ground: 2833 Kelly Bushing: 2843

Total Depth: 4560 Plug Back Total Depth: 4522

Amount of Surface Pipe Set and Cemented at: 220 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: 2303 Feet

If Alternate II completion, cement circulated from: surface

feet depth to: 2303 w/ 350 sx cmf.

Drilling Fluid Management Plan AKI 119-11
(Data must be collected from the Reserve Pit)

Chloride content: 13500 ppm Fluid volume: 825 bbls

Dewatering method used: evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License No.: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Docket No.: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: _____

Title: Development/Production Geologist Date: 1/7/11

Subscribed and sworn to before me this 7th day of January


20 11

Notary Public: Debra K Phillips

Date Commission Expires: 5-4-11

KCC Office Use ONLY

- Letter of Confidentiality Received 1/07/11 - 1/07/13
- If Denied, Yes Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution

 **DEBRA K. PHILLIPS**
Notary Public - State of Kansas
My Adpt. Expires 5-4-11

Operator Name: Ritchie Exploration, Inc. Lease Name: Shipley 28D Well #: 1
 Sec. 28 Twp. 13 S. R. 31 East West County: Gove

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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken Yes No
(Attach Additional Sheets)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
(Submit Copy)

Log Formation (Top), Depth and Datum Sample
 Name Top Datum

SEE ATTACHED

KCC
JAN 07 2011
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List All E. Logs Run:
Dual Induction Log
Compensated Density/Neutron Log

| 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 | 12-1/4 | 8-5/8 | 23 | 220 | common | 175 | 3%cc, 2%gel |
| Production | 7-7/8 | 5-1/2 | 15.5 | 4548 | ASC | 200 | 10% salt, 2% gel & 34% CD-31 |
| | | | | | | | |

| 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 |
|----------------|---|---|-------|
| 4 | 3943.5' - 3946' (10/20/10) RECEIVED | 500 gallons 15% NE | |
| | JAN 10 2011 | | |
| | KCC WICHITA | | |
| | | | |

| TUBING RECORD: | | Size: | Set At: | Packer At: | Liner Run: |
|---|-----------|---|-------------|---------------|---|
| | | 2-7/8 | 4514 | | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Date of First, Resumed Production, SWD or Enhr. 10/26/10 | | Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) | | | |
| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
| | 34.18 | | 52.18 | | 33.9 |

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



#1 Shipley 28D
335' FSL & 2040' FEL
5'N & 60'W of S/2 SW SE Section 28-13S-31W
Gove County, Kansas
API# 15-063-21868-0000
Elevation: 2833' GL: 2843' KB

DRILLING REPORT

| <u>Sample Tops</u> | | | <u>Ref.</u> <u>Well</u> |
|--------------------|-------|-------|----------------------------|
| Anhydrite | 2335' | +508 | -12 |
| B/Anhydrite | 2360' | +483 | -14 |
| Heebner | 3858' | -1015 | -18 |
| Toronto | 3885' | -1042 | -19 |
| Lansing | 3901' | -1058 | -17 |
| Lansing "C" | 3939' | -1096 | -18 |
| Lansing "D" | 3953' | -1110 | -18 |
| Lansing "E" | 3981' | -1138 | -18 |
| Lansing "F" | 3992' | -1149 | -18 |
| Muncie Shale | 4048' | -1205 | -17 |
| Lansing "H" | 4065' | -1222 | -17 |
| Lansing "I" | 4100' | -1257 | -18 |
| Lansing "J" | 4118' | -1275 | -19 |
| Lansing "K" | 4146' | -1303 | -17 |
| Lansing "L" | 4190' | -1347 | -19 |
| BKC | 4215' | -1372 | -17 |
| Altamont | 4265' | -1422 | -11 |
| Pawnee | 4336' | -1493 | -11 |
| Myric Station | 4369' | -1526 | -10 |
| Fort Scott | 4390' | -1547 | -11 |
| Cherokee Shale | 4416' | -1573 | -14 |
| Johnson | 4459' | -1616 | -15 |
| B/Johnson | 4479' | -1636 | -14 |
| Morrow Sand | N/A | | |
| Mississippian | 4495' | -1652 | +13 |
| RTD | 4560' | -1717 | |

RECEIVED
JAN 10 2011
KCC WICHITA

ALLIED CEMENTING CO., LLC. 035654

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

SERVICE POINT:
Oakley

| | | | | | | | |
|--------------------------------|-----------------|----------------------------------|------------------|--------------------|-----------------|-------------------------|--------------------------|
| DATE <u>9-28-10</u> | SEC. <u>28</u> | TWP. <u>13s</u> | RANGE <u>3/W</u> | CALLED OUT | ON LOCATION | JOB START <u>1:30pm</u> | JOB FINISH <u>3:00pm</u> |
| LEASE <u>Shipley 280</u> | WELL # <u>1</u> | LOCATION <u>Oakley 11S SE 5S</u> | | COUNTY <u>Gore</u> | STATE <u>KS</u> | | |
| OLD OR <u>NEW</u> (Circle one) | | | WINTO | | | | |

| | |
|---|---------------------------------------|
| CONTRACTOR <u>Alliance well service</u> | OWNER <u>same</u> |
| TYPE OF JOB <u>port collar</u> | |
| HOLE SIZE _____ T.D. _____ | CEMENT _____ |
| CASING SIZE <u>5 1/2</u> DEPTH _____ | AMOUNT ORDERED <u>400 sks 6940</u> |
| TUBING SIZE <u>2 7/8</u> DEPTH <u>2306'</u> | <u>609# 500# hulls</u> |
| DRILL PIPE _____ DEPTH _____ | <u>used 350 sks 350# hulls</u> |
| TOOL _____ DEPTH _____ | |
| PRES. MAX _____ MINIMUM _____ | COMMON <u>210 sks @ 15.45 3244.50</u> |
| MEAS. LINE _____ SHOE JOINT _____ | POZMIX <u>140 sks @ 8.00 1120.00</u> |
| CEMENT LEFT IN CSG. _____ | GEL <u>18 sks @ 20.80 374.40</u> |
| PERFS. _____ | CHLORIDE _____ @ _____ |
| DISPLACEMENT <u>12.5 ool</u> | ASC _____ @ _____ |

EQUIPMENT

PUMP TRUCK CEMENTER Andrew

423-281 HELPER Loren

BULK TRUCK

394 DRIVER Garrin

BULK TRUCK

_____ DRIVER _____

FLO-seal 80# @ 2.50 217.50

HULLS 350# 236 @ 31.85 222.95

HANDLING 400 sks @ 2.40 960.00

MILEAGE 10th sk/mile 860.00

TOTAL 2070.95

REMARKS:

pressure system to 1200# held.
mix 350 sks with 350# hulls
Displace ~~from~~ ~~from~~
Close port collar pressure to
1200# held Run 5 joints in
Reverse clean - cement did
circulate.

thank you

CHARGE TO: Ritchie Exploration

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB 2306'

PUMP TRUCK CHARGE _____ 1185.00

EXTRA FOOTAGE _____ @ _____

MILEAGE 20 miles @ 7.00 140.00

MANIFOLD _____ @ _____

TOTAL 1325.00

RECEIVED PLUG & FLOAT EQUIPMENT

JAN 10 2011

KCC WICHITA

TOTAL _____

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

PRINTED NAME _____

SIGNATURE Thomas Adams

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

KCC
JAN 07 2011
CONFIDENTIAL

ALLIED CEMENTING CO., LLC. 035650

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

KCC

SERVICE POINT:

JAN 07 2011

Oakley

| | | | | | | | |
|--------------------------------------|-----------------|----------------|------------------------|--------------------------------|-------------|-------------------------|--------------------------|
| DATE <u>9-24-10</u> | SEC <u>28</u> | TWP <u>735</u> | RANGE <u>3W</u> | CALLED OUT <u>CONFIDENTIAL</u> | ON LOCATION | JOB START <u>4:30pm</u> | JOB FINISH <u>5:00pm</u> |
| LEASE <u>Shider 280</u> | WELL # <u>1</u> | | LOCATION <u>Oakley</u> | <u>115 SE 55</u> | | COUNTY <u>Gove</u> | STATE <u>KS</u> |
| OLD OR NEW (Circle one) <u>Windo</u> | | | | | | | |

CONTRACTOR Murfin Drilling Rig 14 OWNER same

TYPE OF JOB Production

HOLE SIZE 7 7/8 T.D. 4560'

CASING SIZE 5 7/8 DEPTH 4548'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL Port collar DEPTH 2306'

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 21'

CEMENT LEFT IN CSG. 21'

PERFS.

DISPLACEMENT 107,74 BBL

CEMENT

AMOUNT ORDERED 250 SKS ASC 280gal

1000gal 5# Gilsonite 740 (1900-31)

500gal WFR-2

COMMON @

POZMIX @

GEL 5 SKS @ 20.80 104.00

CHLORIDE @

ASC 250 SKS @ 18.60 4650.00

Gilsonite 1250# @ .89 1112.50

salt 28 SKS @ 23.95 670.60

CD-31 126# @ 9.35 1175.60

WFR-2 500gal @ 1.27 635.00

HANDLING 311 SKS @ 2.90 746.40

MILEAGE 108.56/mile 622.00

TOTAL 10186.10

REMARKS:

Pump 500gals WFR-2 Plug MH
20 SKS RH 30 SKS mix 200 SKS
down 5 7/8 casing wash pump
and lines clean Displace plug
900# LIFT Land plug 1400#
plug loaded float held.

SERVICE

DEPTH OF JOB 4548'

PUMP TRUCK CHARGE 2185.00

EXTRA FOOTAGE @

MILEAGE 20 miles @ 7.00 140.00

MANIFOLD @

@

@

TOTAL 2325.00

Thank you

CHARGE TO: Ritchie Exploration

STREET _____

CITY _____ STATE RECEIVED

JAN 10 2011

KCC WICHITA

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

5/2 PLUG & FLOAT EQUIPMENT

1 Guideshoe 101.00

1 Air Insert @ 112.00

1 Port collar @ 1750.00

1 Basket (w/headers) @ 186.00

3 Baskets (Industrial) @ 141.00 423.00

8 Turbo Lizers @ 42.00 336.00

1 Rubber plug 87.00

TOTAL 3055.00

SALES TAX (If Any) _____

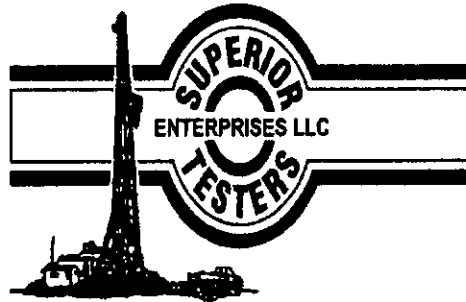
TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME _____

SIGNATURE Thomas A. Ad

TR



DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

8100 East 22ND Street
North #700 Wichita Kansas
67278+3188

ATTN: Justin Clegg

28/13S/31W Gove Co.

Shibley 28D#1

Start Date: 2010.09.18 @ 10:08:00

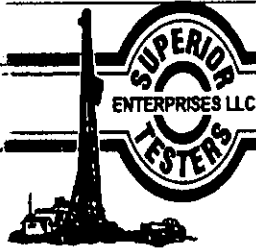
End Date: 2010.09.18 @ 18:16:16

Job Ticket #: 16117 DST #: 1

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

Printed: 2010.09.24 @ 10:48:59

Ritchie Exploration Inc. Shibley 28D#1 28/13S/31W Gove Co. DST # 1 Lansing Kansas City 2010.09.18



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.
 8100 East 22ND Street
 North #700 Wichita Kansas
 67278+3188
 ATTN: Justin Clegg

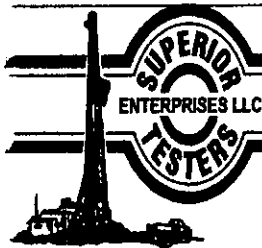
Shibley 28D#1
 28/13S/31W Gove Co.
 Job Ticket: 16117 DST#: 1
 Test Start: 2010.09.18 @ 10:08:00

Tool Information

| | | | | |
|---------------------------|--------------------|-------------------------|-------------------|------------------------------------|
| Drill Pipe: | Length: 3348.00 ft | Diameter: 3.80 inches | Volume: 46.96 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: 580.95 ft | Diameter: 2.25 inches | Volume: 2.86 bbl | Weight to Pull Loose: 75000.00 lb |
| | | Total Volume: 49.82 bbl | | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 28.95 ft | | | String Weight: Initial 64000.00 lb |
| Depth to Top Packer: | 3921.00 ft | | | Final 69000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 69.00 ft | | | |
| Tool Length: | 90.00 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 | | | 3901.00 | |
| Shut-In Tool | 5.00 | | | 3906.00 | |
| Hydroic Tool | 5.00 | | | 3911.00 | |
| Packer | 5.00 | | | 3916.00 | 21.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3921.00 | |
| Perforations | 0.00 | | | 3921.00 | |
| Change Over Sub | 0.75 | | | 3921.75 | |
| Drill Pipe | 31.70 | | | 3953.45 | |
| Change Over Sub | 0.75 | | | 3954.20 | |
| Perforations | 30.80 | | | 3985.00 | |
| Recorder | 1.00 | 4143 | Inside | 3986.00 | |
| Recorder | 1.00 | 8400 | Outside | 3987.00 | |
| Bullnose | 3.00 | | | 3990.00 | 69.00 Bottom Packers & Anchor |
| Total Tool Length: | 90.00 | | | | |



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Shibley 28D#1

8100 East 22ND Street
North #700 Wichita Kansas
67278+3188

28/13S/31W Gove Co.

Job Ticket: 16117 DST#: 1

ATTN: Justin Clegg

Test Start: 2010.09.18 @ 10:08:00

Mud and Cushion Information

| | | | | | |
|--------------|----------------------|-----------------------|------|-----------------|---------|
| Mud Type: | Gel Chem | Cushion Type: | | Oil API: | deg API |
| Mud Weight: | 9.00 lb/gal | Cushion Length: | ft | Water Salinity: | ppm |
| Viscosity: | 59.00 sec/qt | Cushion Volume: | bbl | | |
| Water Loss: | 6.39 in ³ | Gas Cushion Type: | | | |
| Resistivity: | ohm.m | Gas Cushion Pressure: | psia | | |
| Salinity: | 2100.00 ppm | | | | |
| Filter Cake: | 1.00 inches | | | | |

Recovery Information

Recovery Table

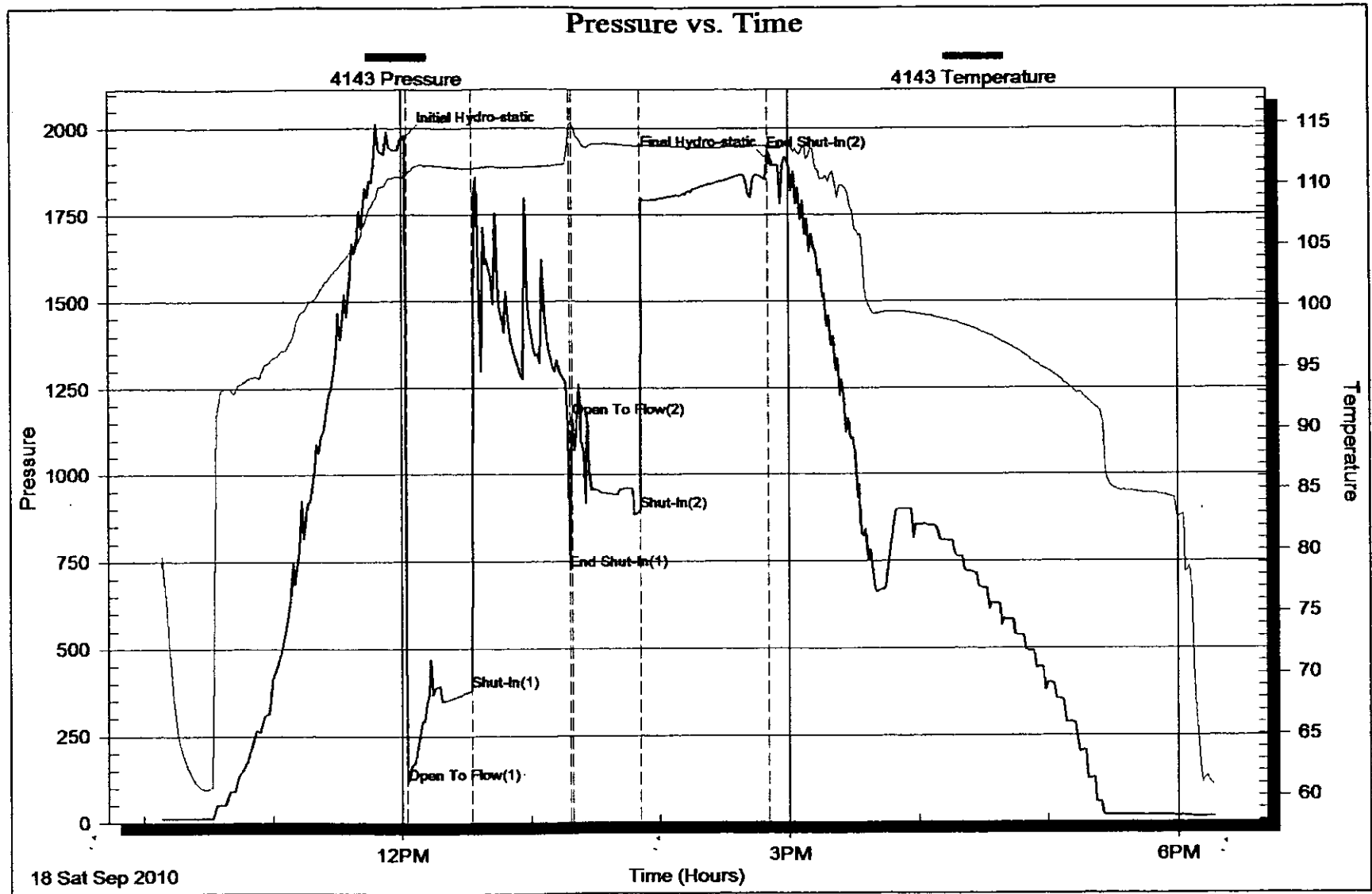
| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| | | |

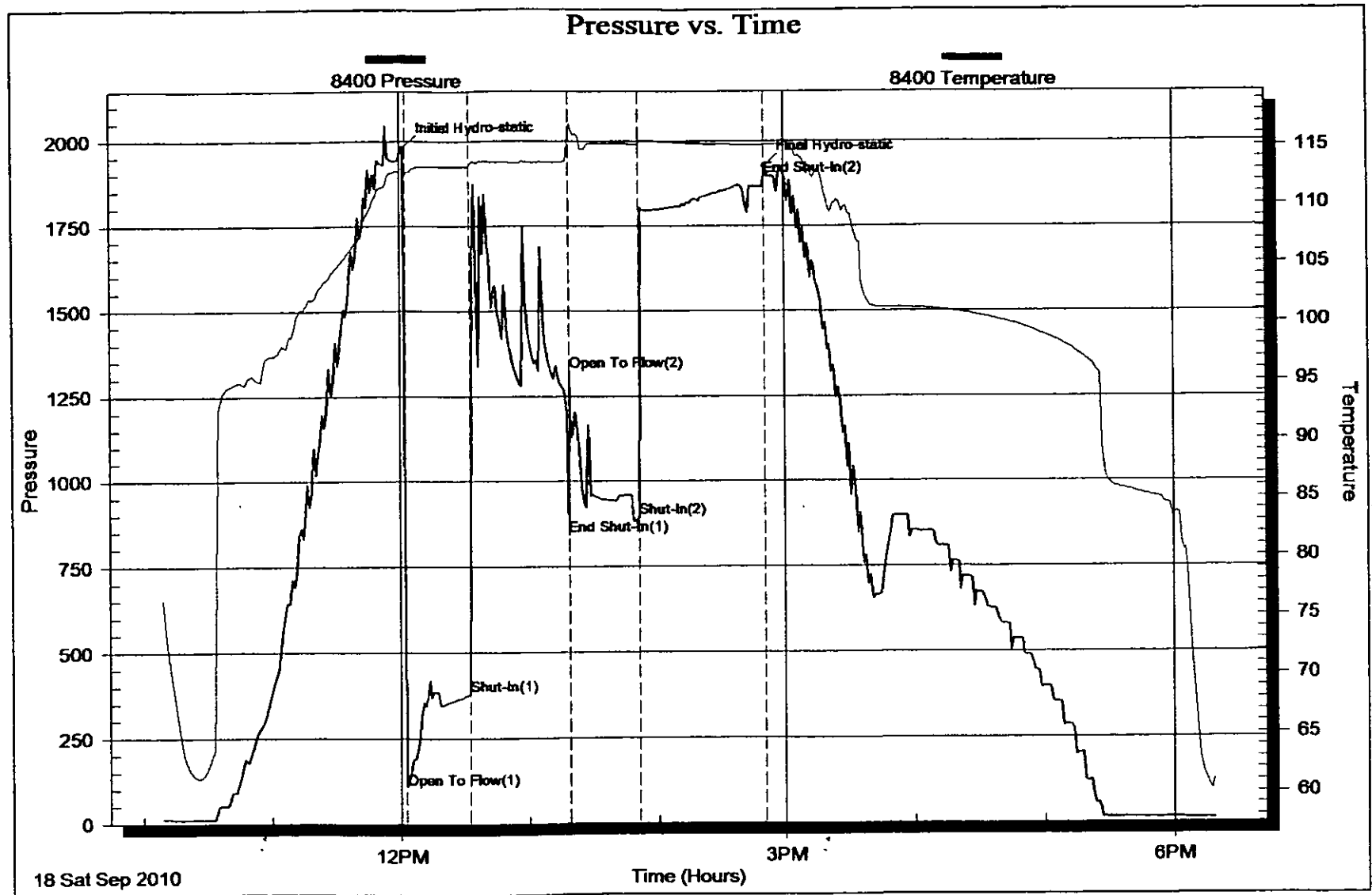
Total Length: ft Total Volume: bbl

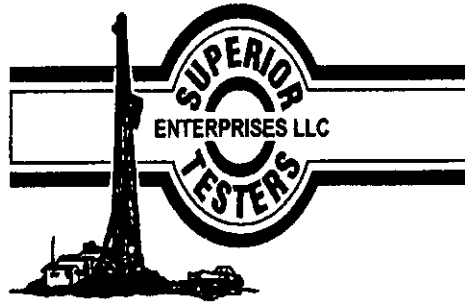
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

8100 East 22ND Street
North #700 Wichita Kansas
67278+3188

ATTN: Justin Clegg

28/13S/31W Gove Co.

ShIPLEY 28D#1

Start Date: 2010.09.19 @ 12:58:00

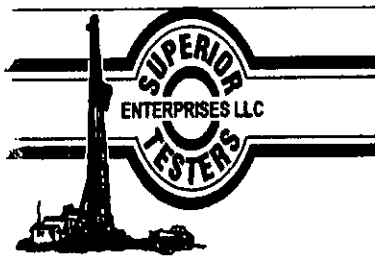
End Date: 2010.09.19 @ 19:41:00

Job Ticket #: 16118 DST #: 2

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

Printed: 2010.09.24 @ 10:48:22

Ritchie Exploration Inc. Shipley 28D#1 28/13S/31W Gove Co. DST # 2 Lansing Kansas City' 2010.09.19



DRILL STEM TEST REPORT

Richie Exploration Inc.
 8100 East 22ND Street
 North #700 Wichita Kansas
 67278+3188
 ATTN: Justin Clegg

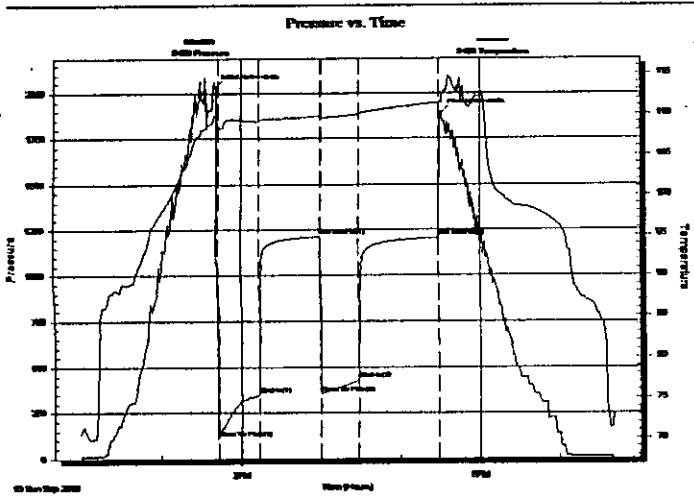
Shipley 28D#1
28/13S/31W Gove Co.
 Job Ticket: 16118 **DST#: 2**
 Test Start: 2010.09.19 @ 12:58:00

GENERAL INFORMATION:

Formation: **Lansing Kansas City'**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 14:43:00
 Time Test Ended: 19:41:00
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **Dylan E Ellis**
 Unit No: **3345-Scott City-120**
 Interval: **3915.00 ft (KB) To 3990.00 ft (KB) (TVD)**
 Total Depth: **3990.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Reference Elevations: **2843.00 ft (KB)**
 2833.00 ft (CF)
 KB to GR/CF: **10.00 ft**

Serial #: 8400 Outside
 Press@RunDepth: **434.00 psia @ 3987.20 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2010.09.19** End Date: **2010.09.19** Last Calib.: **2010.09.19**
 Start Time: **12:59:00** End Time: **19:41:00** Time On Btm: **2010.09.19 @ 14:41:00**
 12:59:00 **19:41:00** Time Off Btm: **2010.09.19 @ 17:31:00**

TEST COMMENT: 1ST Opening 30 Minutes fair building blow/blow bottom of a 5 gallon bucket of water in 7 minutes
 1ST Shut-in 45 Minutes yes blow back all the way through out
 2ND Opening 30 Minutes steady fair build blow/blow blew bottom of a five gallon bucket of water in 9 minutes
 2ND Shut-in 60 Minutes yes blow back all the way through out



PRESSURE SUMMARY

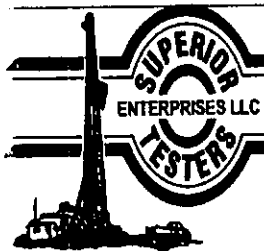
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2030.35 | 109.66 | Initial Hydro-static |
| 2 | 111.82 | 108.63 | Open To Flow (1) |
| 33 | 349.76 | 109.10 | Shut-in(1) |
| 79 | 1212.12 | 109.77 | End Shut-in(1) |
| 80 | 357.32 | 109.56 | Open To Flow (2) |
| 108 | 434.00 | 109.96 | Shut-in(2) |
| 168 | 1205.86 | 111.35 | End Shut-in(2) |
| 170 | 1891.10 | 111.42 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--|--------------|
| 270.00 | Oil cut Muddy Water | 1.33 |
| 0.00 | 15% Oil 30%Mud 55%Water | 0.00 |
| 90.00 | Lightly Muddy Water cut Gassy foam Oil | 0.44 |
| 0.00 | 11% Gas 50% Oil 15% Mud 24% Water | 0.00 |
| 180.00 | Foamy Oil 90% Oil 10% Water | 0.89 |
| 90.00 | Water cut Gassy Foamy Oil | 0.89 |

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.
 8100 East 22ND Street
 North #700 Wichita Kansas
 67278+3188
 ATTN: Justin Clegg

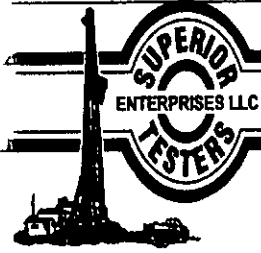
ShIPLEY 28D#1
 28/13S/31W Gove Co.
 Job Ticket: 16118 DST#: 2
 Test Start: 2010.09.19 @ 12:58:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|-------------------------|------------------------------------|
| Drill Pipe: | Length: 3322.00 ft | Diameter: 3.80 inches | Volume: 46.60 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: 580.95 ft | Diameter: 2.25 inches | Volume: 2.86 bbl | Weight to Pull Loose: 85000.00 lb |
| | | | Total Volume: 49.46 bbl | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 8.95 ft | | | String Weight: Initial 64000.00 lb |
| Depth to Top Packer: | 3915.00 ft | | | Final 69000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 75.20 ft | | | |
| Tool Length: | 96.20 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 | | | 3895.00 | |
| Shut-In Tool | 5.00 | | | 3900.00 | |
| Hydroic Tool | 5.00 | | | 3905.00 | |
| Packer | 5.00 | | | 3910.00 | 21.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3915.00 | |
| Perforations | 6.00 | | | 3921.00 | |
| Change Over Sub | 0.75 | | | 3921.75 | |
| Drill Pipe | 31.70 | | | 3953.45 | |
| Change Over Sub | 0.75 | | | 3954.20 | |
| Perforations | 31.00 | | | 3985.20 | |
| Recorder | 1.00 | 4143 | Inside | 3986.20 | |
| Recorder | 1.00 | 8400 | Outside | 3987.20 | |
| Bullnose | 3.00 | | | 3990.20 | 75.20 Bottom Packers & Anchor |
| Total Tool Length: | 96.20 | | | | |



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Shipley 28D#1

8100 East 22ND Street
North #700 Wichita Kansas
67278+3188

28/13S/31W Gove Co.

Job Ticket: 16118

DST#: 2

ATTN: Justin Clegg

Test Start: 2010.09.19 @ 12:58:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 10.00 lb/gal
Viscosity: 52.00 sec/qt
Water Loss: 6.79 in³
Resistivity: ohm.m
Salinity: 3000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psia

Oil API: deg API
Water Salinity: ppm

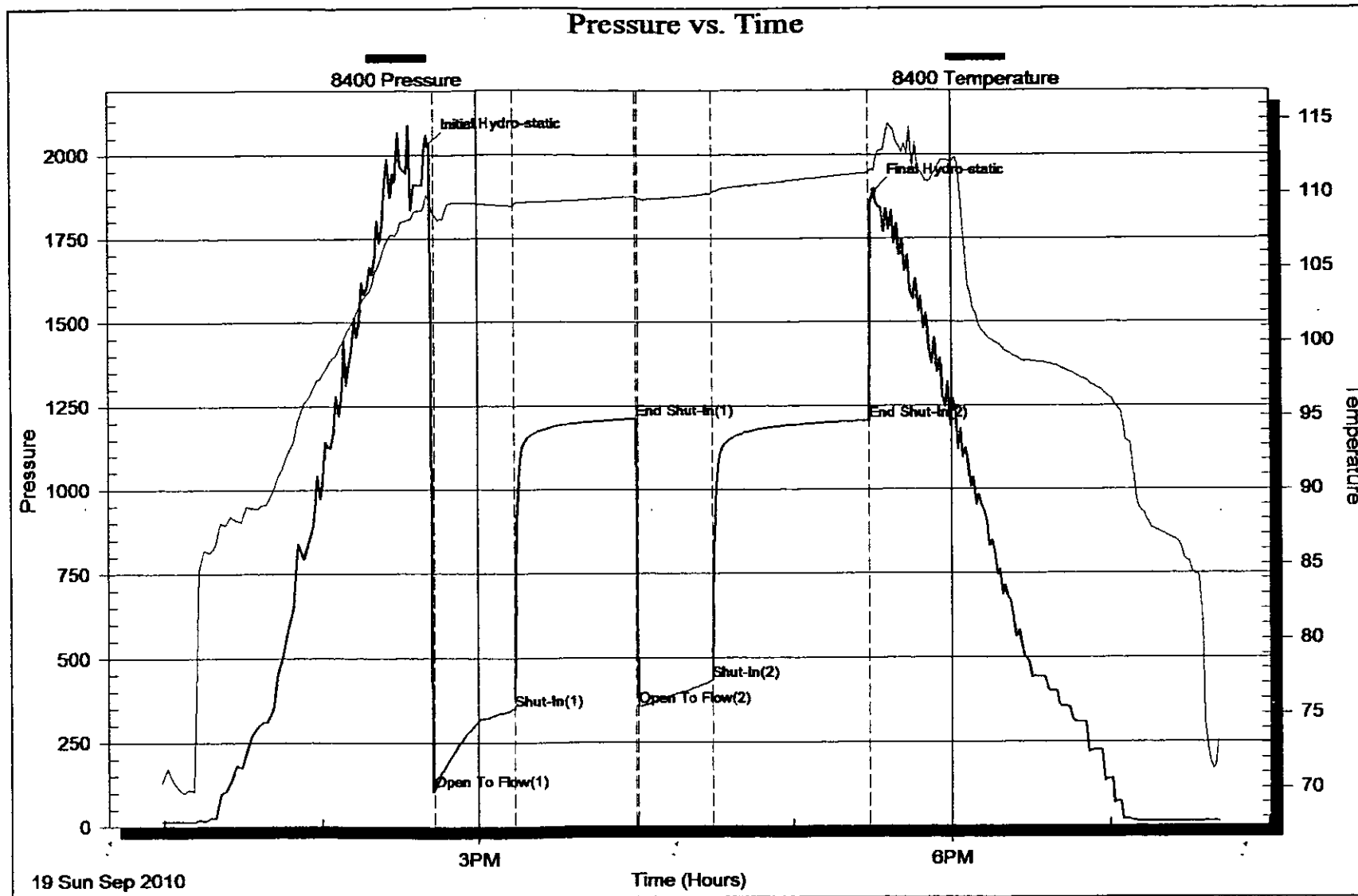
Recovery Information

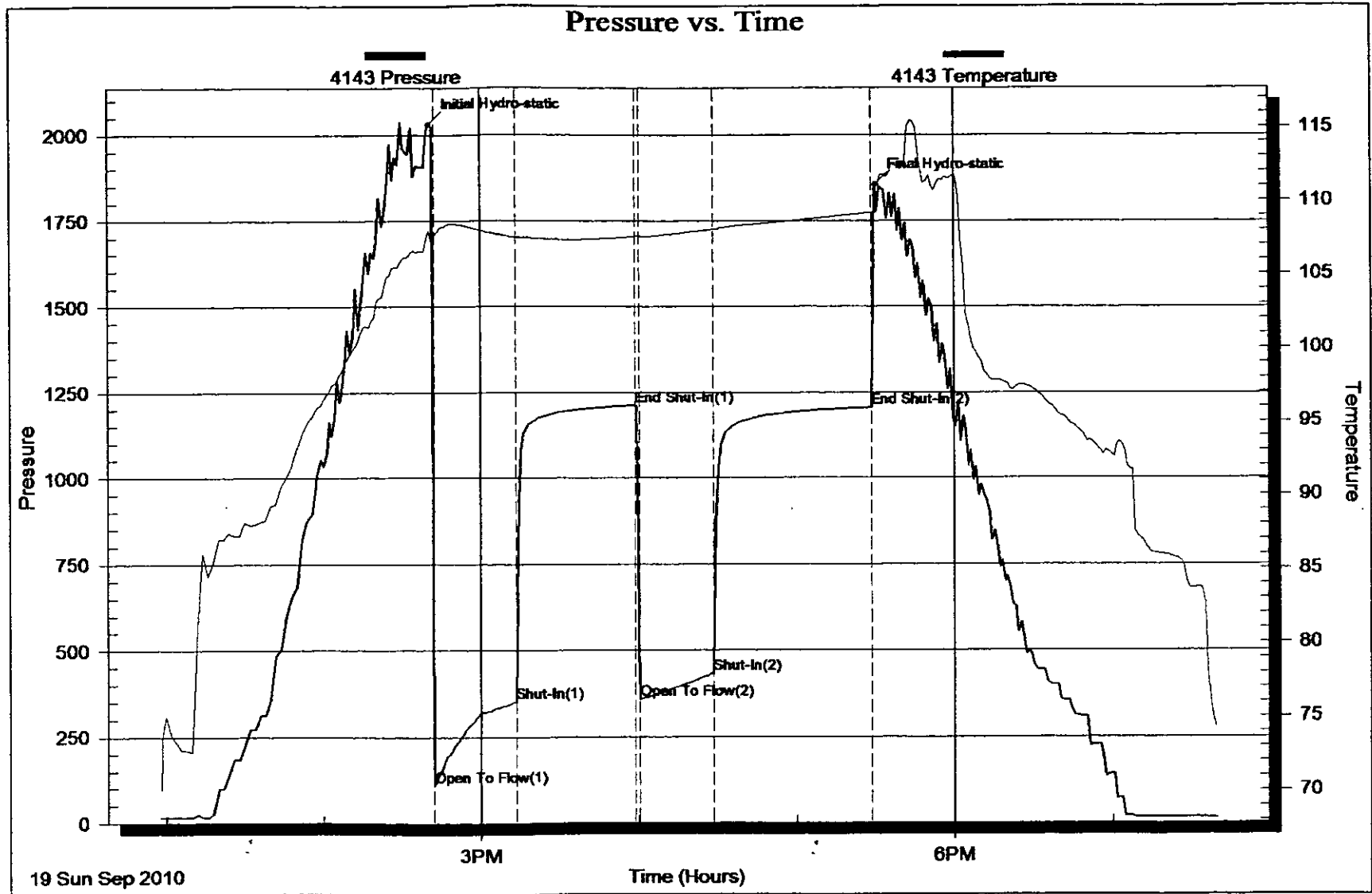
Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--|---------------|
| 270.00 | Oil cut Muddy Water | 1.328 |
| 0.00 | 15% Oil 30% Mud 55% Water | 0.000 |
| 90.00 | Lightly Muddy Water cut Gassy foam Oil | 0.443 |
| 0.00 | 11% Gas 50% Oil 15% Mud 24% Water | 0.000 |
| 180.00 | Foamy Oil 90% Oil 10% Water | 0.885 |
| 90.00 | Water cut Gassy Foamy Oil | 0.889 |
| 0.00 | 5% Gas 75% Oil 20% Water | 0.000 |
| 90.00 | Water cut Gassy Foamy Oil | 1.262 |
| 0.00 | 15% Gas 65% Oil 20% Water | 0.000 |
| 90.00 | Water cut Gassy Foamy Oil | 1.262 |
| 0.00 | 10% Gas 70% Oil 20% Water | 0.000 |
| 90.00 | Clean Oil | 1.262 |
| 0.00 | 39,000.0 on the Chloride Check Rough | 0.000 |

Total Length: 900.00 ft Total Volume: 7.331 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

8100 East 22ND Street
North #700 Wichita Kansas
67278+3188

ATTN: Justin Clegg

28/13S/31W Gove Co.

ShIPLEY 28D#1

Start Date: 2010.09.20 @ 08:42:00

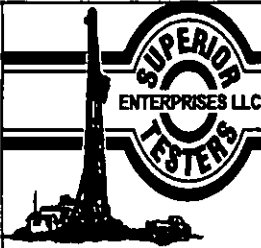
End Date: 2010.09.20 @ 14:46:30

Job Ticket #: 16119 DST #: 3

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

Printed: 2010.09.24 @ 10:48:11

Ritchie Exploration Inc. Shipley 28D#1 28/13S/31W Gove Co. DST # 3 Lansing Kansas City' 2010.09.20



DRILL STEM TEST REPORT

Richie Exploration Inc.
 8100 East 22ND Street
 North #700 Wichita Kansas
 67278+3188
 ATTN: Justin Clegg

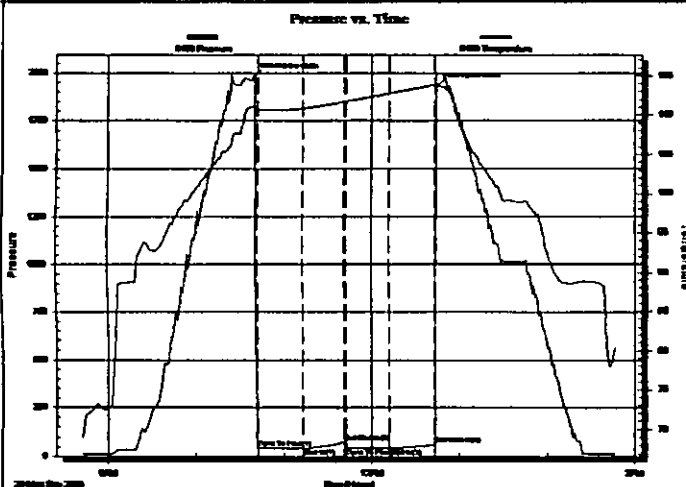
Shibley 28D#1
 28/13S/31W Gove Co.
 Job Ticket: 16119 DST#: 3
 Test Start: 2010.09.20 @ 08:42:00

GENERAL INFORMATION:

Formation: Lansing Kansas City'
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:42:00
 Time Test Ended: 14:46:30
 Interval: 4046.00 ft (KB) To 4083.00 ft (KB) (TVD)
 Total Depth: 4083.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dylan E Ellis
 Unit No: 3345-Scott City-120
 Reference Elevations: 2843.00 ft (KB)
 2833.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8400 Outside
 Press@RunDepth: 42.02 psia @ 4080.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2010.09.20 End Date: 2010.09.20 Last Calib.: 2010.09.20
 Start Time: 08:43:00 End Time: 14:46:30 Time On Btm: 2010.09.20 @ 10:40:00
 Time Off Btm: 2010.09.20 @ 12:45:00

TEST COMMENT: 1ST Opening 30 Minutes very weak surface blow /blow died in 7 minutes
 1ST Shut-In 30 Minutes no blow back
 2ND Opening 30 Minutes it was dead/did nothing
 2ND Shut-In 30 Minutes no blow back



PRESSURE SUMMARY

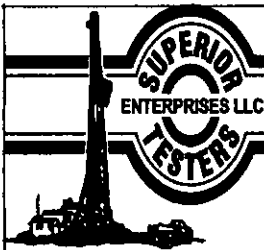
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1978.87 | 111.20 | Initial Hydro-static |
| 2 | 41.92 | 110.75 | Open To Flow (1) |
| 33 | 42.20 | 110.88 | Shut-In(1) |
| 62 | 75.01 | 111.73 | End Shut-In(1) |
| 63 | 42.84 | 111.75 | Open To Flow (2) |
| 93 | 42.02 | 112.79 | Shut-In(2) |
| 123 | 61.75 | 113.83 | End Shut-In(2) |
| 125 | 1932.10 | 115.32 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 10.00 | Mud 100% | 0.05 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.
 8100 East 22ND Street
 North #700 Wichita Kansas
 67278+3188
 ATTN: Justin Clegg

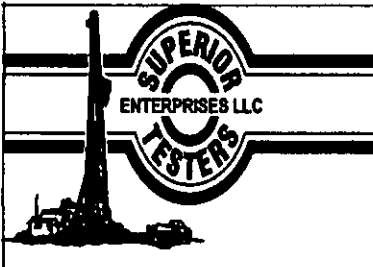
Shipley 28D#1
28/13S/31W Gove Co.
 Job Ticket: 16119 DST#: 3
 Test Start: 2010.09.20 @ 08:42:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3480.00 ft | Diameter: 3.80 inches | Volume: 48.82 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: 580.95 ft | Diameter: 2.25 inches | Volume: 2.86 bbl | Weight to Pull Loose: 70000.00 lb |
| | | | <u>Total Volume: 51.68 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 35.95 ft | | | String Weight: Initial 63000.00 lb |
| Depth to Top Packer: | 4046.00 ft | | | Final 63000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 37.00 ft | | | |
| Tool Length: | 58.00 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 | | | 4026.00 | |
| Shut-In Tool | 5.00 | | | 4031.00 | |
| Hydroic Tool | 5.00 | | | 4036.00 | |
| Packer | 5.00 | | | 4041.00 | 21.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 4046.00 | |
| Perforations | 32.00 | | | 4078.00 | |
| Recorder | 1.00 | 4143 | Inside | 4079.00 | |
| Recorder | 1.00 | 8400 | Outside | 4080.00 | |
| Bullnose | 3.00 | | | 4083.00 | 37.00 Bottom Packers & Anchor |
| Total Tool Length: | 58.00 | | | | |



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Shipley 28D#1

8100 East 22ND Street
North #700 Wichita Kansas
67278+3188

28/13S/31W Gove Co.

Job Ticket: 16119

DST#: 3

ATTN: Justin Clegg

Test Start: 2010.09.20 @ 08:42:00

Mud and Cushion Information

| | | | |
|----------------------------------|----------------------------|-----------------|-----------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | 0 deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | 0 ppm |
| Viscosity: 52.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 6.79 in ³ | Gas Cushion Type: | | |
| Resistivity: 0.00 ohm.m | Gas Cushion Pressure: psia | | |
| Salinity: 3000.00 ppm | | | |
| Filter Cake: 1.00 inches | | | |

Recovery Information

Recovery Table

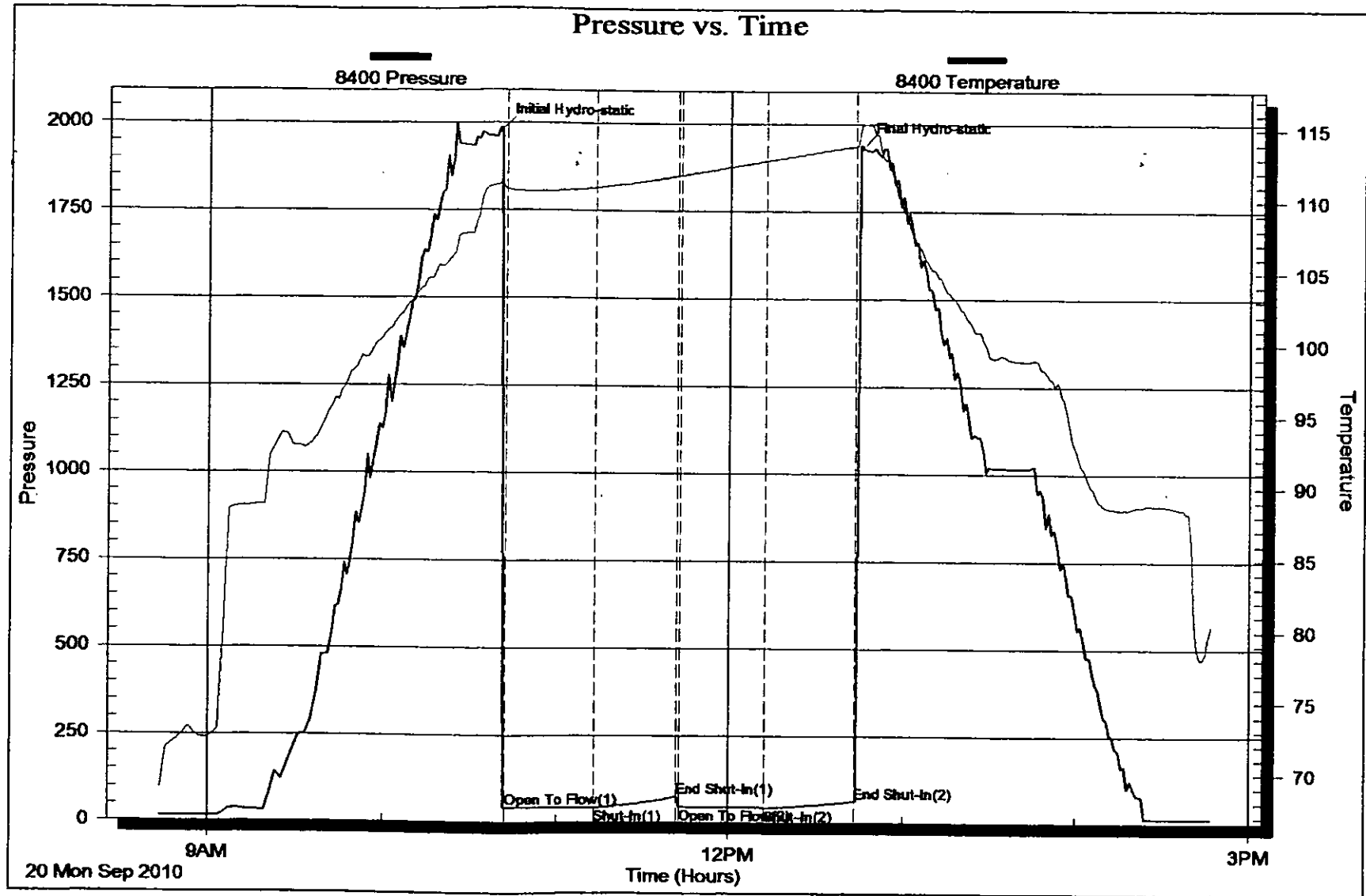
| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 10.00 | Mud 100% | 0.049 |

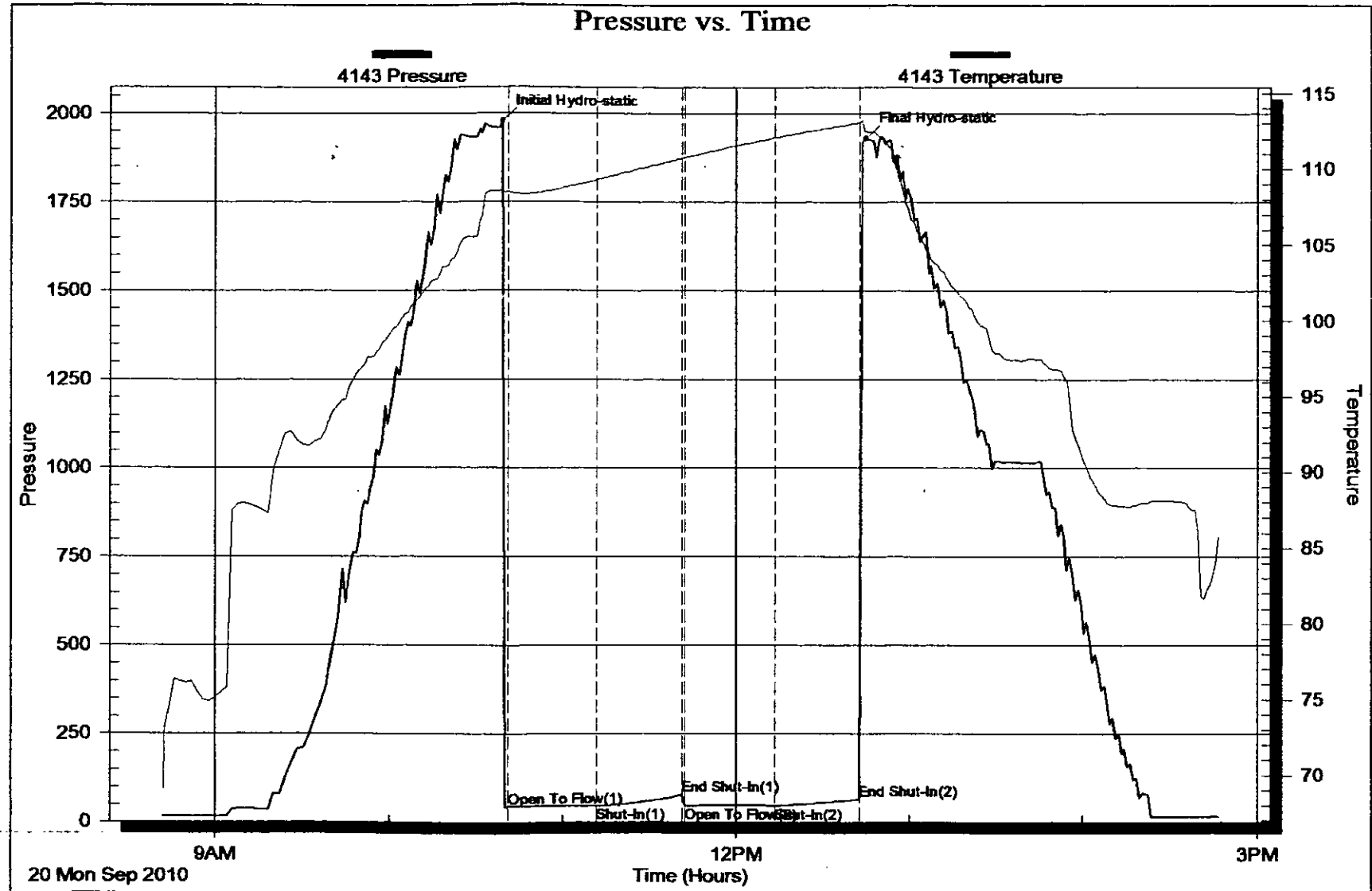
Total Length: 10.00 ft Total Volume: 0.049 bbl

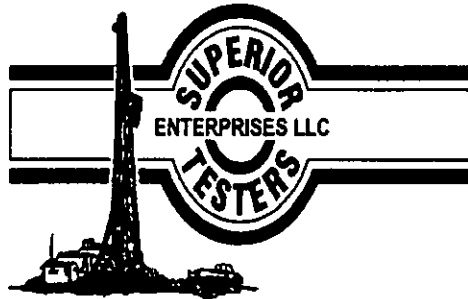
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

8100 East 22ND Street
North #700 Wichita Kansas
67278+3188

ATTN: Justin Clegg

28/13S/31W Gove Co.

ShIPLEY 28D#1

Start Date: 2010.09.22 @ 01:47:00

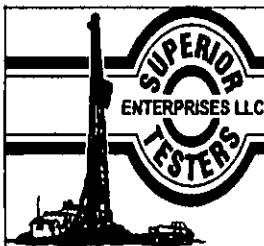
End Date: 2010.09.22 @ 08:09:30

Job Ticket #: 16120 DST #: 4

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

Printed: 2010.09.24 @ 10:47:38

Ritchie Exploration Inc. Shipley 28D#1 28/13S/31W Gove Co. DST # 4 Myrick Station-FLSc 2010.09.22



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22ND Street
 North #700 Wichita Kansas
 67278+3188
 ATTN: Justin Clegg

ShIPLEY 28D#1
28/13S/31W Gove Co.
 Job Ticket: 16120 **DST#: 4**
 Test Start: 2010.09.22 @ 01:47:00

GENERAL INFORMATION:

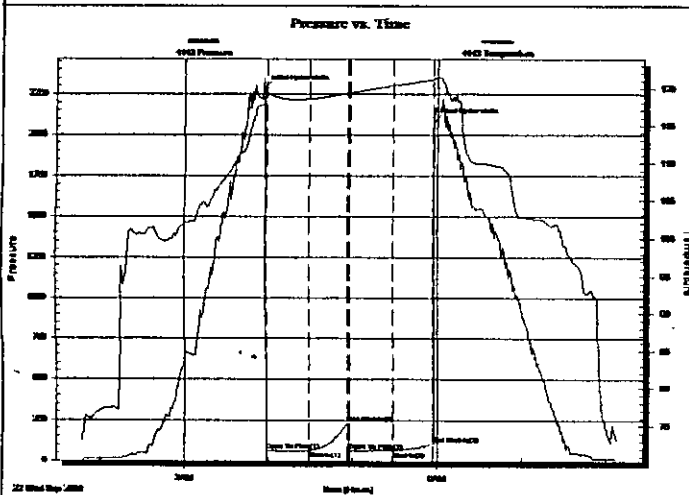
Formation: **Myrick Station-Ft.Sc**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:58:30
 Time Test Ended: 08:09:30
 Interval: **4354.00 ft (KB) To 4414.00 ft (KB) (TVD)**
 Total Depth: **4414.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dylan E Ellis
 Unit No: 3345-Scott City-120
 Reference Elevations: 2843.00 ft (KB)
 2833.00 ft (CF)
 KB to GRVCF: 10.00 ft

Serial #: 4143

Inside

Press@RunDepth: 106.68 psia @ 4415.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2010.09.22 End Date: 2010.09.22 Last Calib.: 2010.09.22
 Start Time: 01:47:01 End Time: 08:07:16 Time On Btm: 2010.09.22 @ 03:56:46
 Time Off Btm: 2010.09.22 @ 05:57:46

TEST COMMENT: 1ST Opening 30 Minutes very weak blow /blew just under surface of water in a 5 gallon bucket of water
 1ST Shut-In 30 Minutes no blow back
 2ND Opening 30 Minutes surged and than died after that
 2ND Shut-In 30 Minutes no blow back



PRESSURE SUMMARY

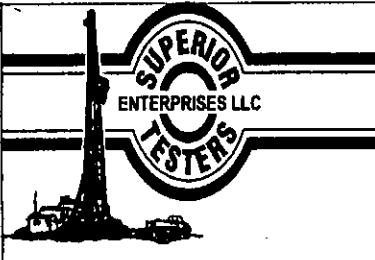
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2286.18 | 118.37 | Initial Hydro-static |
| 2 | 60.54 | 118.95 | Open To Flow (1) |
| 32 | 63.28 | 118.52 | Shut-In(1) |
| 60 | 229.98 | 119.29 | End Shut-In(1) |
| 61 | 65.00 | 119.34 | Open To Flow (2) |
| 92 | 65.44 | 120.33 | Shut-In(2) |
| 120 | 106.68 | 121.14 | End Shut-In(2) |
| 121 | 2078.61 | 121.29 | Final Hydro-static |

Recovery

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

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.

Shibley 28D#1

8100 East 22ND Street
 North #700 Wichita Kansas
 67278+3188
 ATTN: Justin Clegg

28/13S/31W Gove Co.

Job Ticket: 16120

DST#: 4

Test Start: 2010.09.22 @ 01:47:00

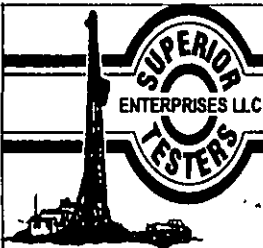
Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3763.00 ft | Diameter: 3.80 inches | Volume: 52.78 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: 580.95 ft | Diameter: 2.25 inches | Volume: 2.86 bbl | Weight to Pull Loose: 75000.00 lb |
| | | | <u>Total Volume: 55.64 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 10.95 ft | | | String Weight: Initial 66000.00 lb |
| Depth to Top Packer: | 4354.00 ft | | | Final 66000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 65.00 ft | | | |
| Tool Length: | 86.00 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 | | | 4334.00 | |
| Shut-In Tool | 5.00 | | | 4339.00 | |
| Hydroic Tool | 5.00 | | | 4344.00 | |
| Packer | 5.00 | | | 4349.00 | 21.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 4354.00 | |
| Perforations | 5.00 | | | 4359.00 | |
| Change Over Sub | 0.75 | | | 4359.75 | |
| Drill Pipe | 31.70 | | | 4391.45 | |
| Change Over Sub | 0.75 | | | 4392.20 | |
| Perforations | 21.80 | | | 4414.00 | |
| Recorder | 1.00 | 4143 | Inside | 4415.00 | |
| Recorder | 1.00 | 8400 | Outside | 4416.00 | |
| Bullnose | 3.00 | | | 4419.00 | 65.00 Bottom Packers & Anchor |

Total Tool Length: 86.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Shipley 28D#1

8100 East 22ND Street
North #700 Wichita Kansas
67278+3188

28/13S/31W Gove Co.

Job Ticket: 16120

DST#: 4

ATTN: Justin Clegg

Test Start: 2010.09.22 @ 01:47:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psia

Salinity: 4200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

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

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

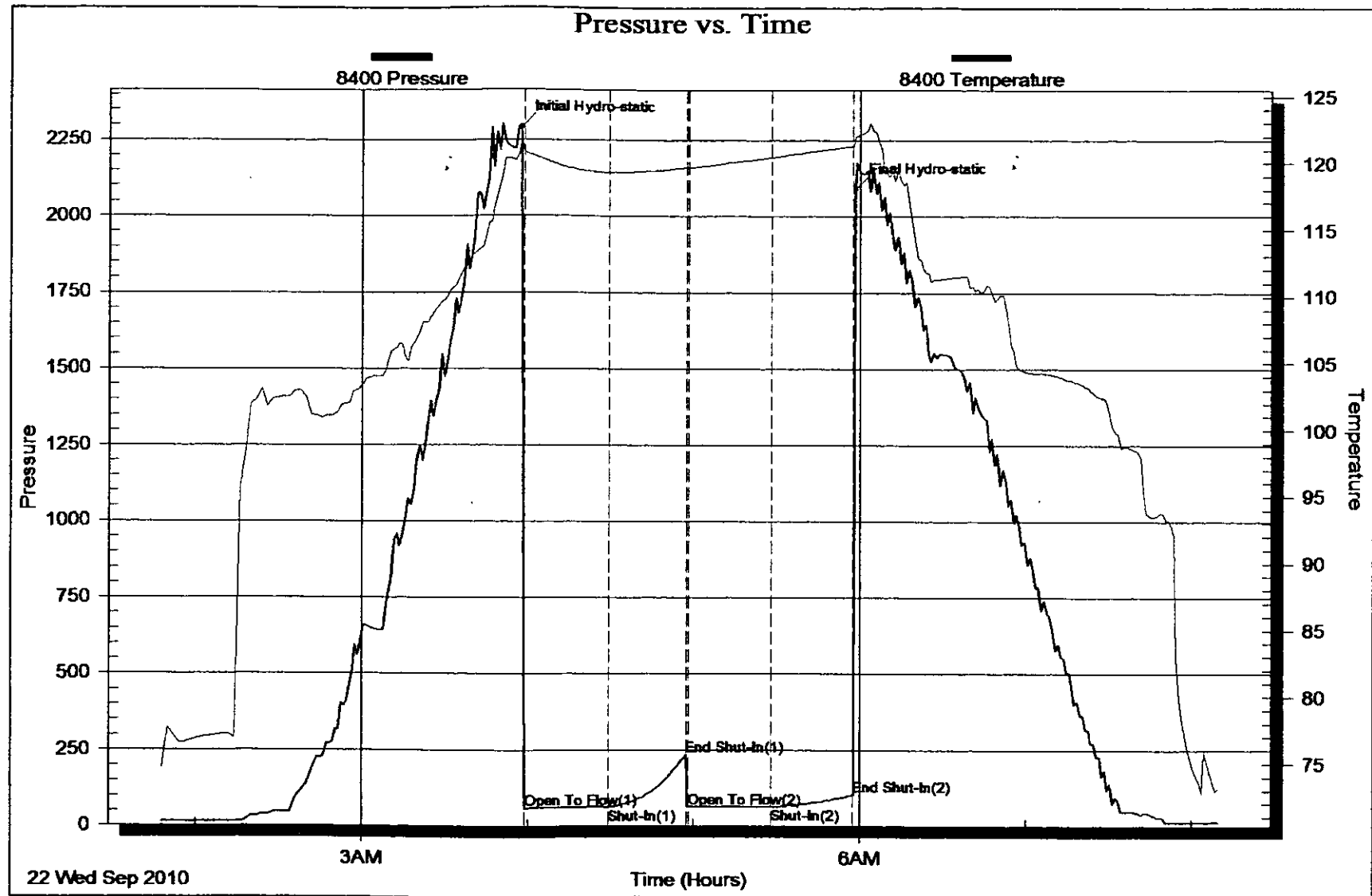
Recovery Comments:

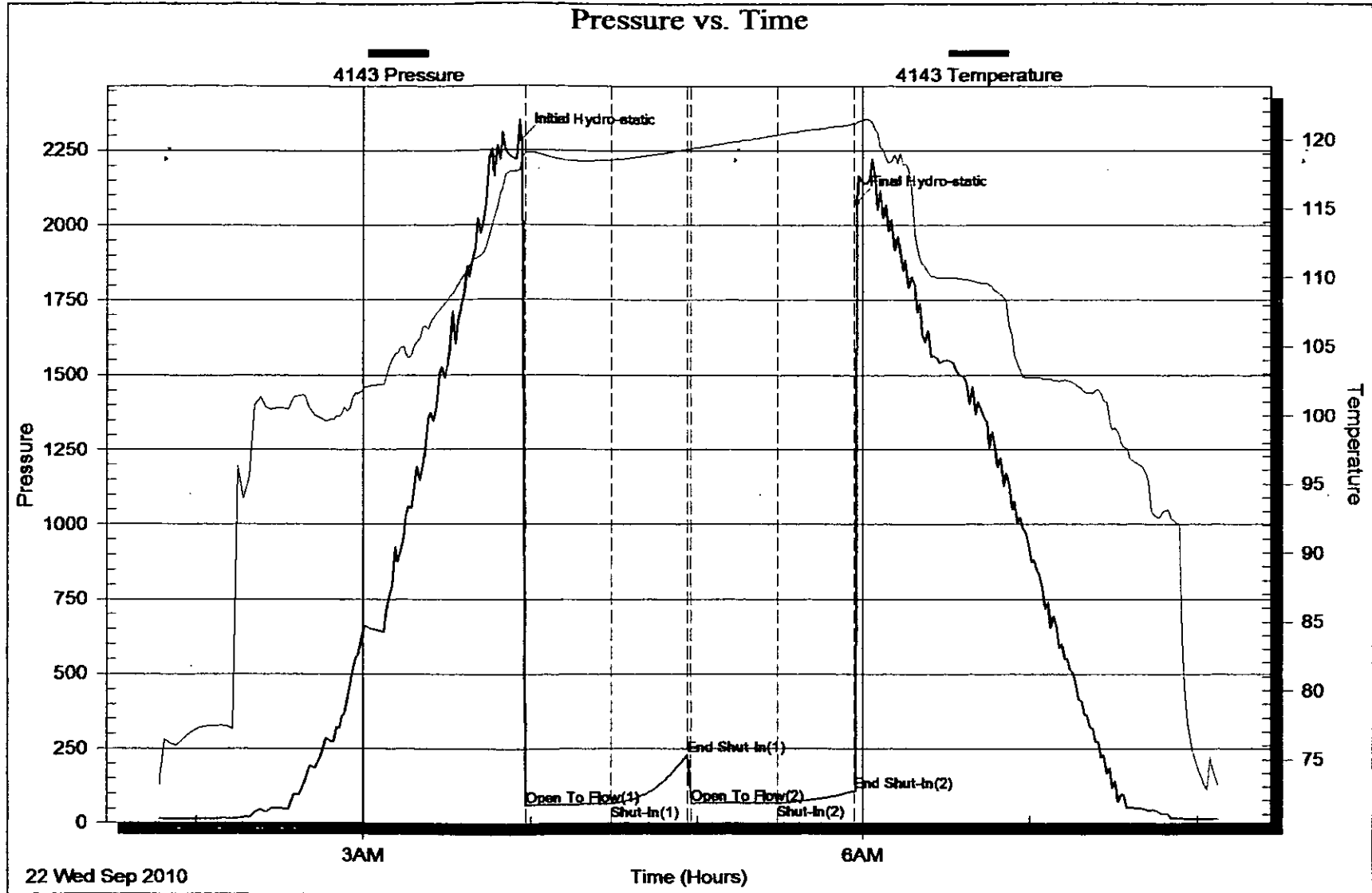
Serial #: 8400

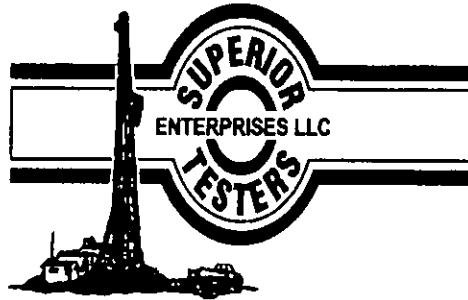
Outside Ritchie Exploration Inc.

28/13S/31W Gove Co.

DST Test Number: 4







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

8100 East 22ND Street
North #700 Wichita Kansas
67278+3188

ATTN: Justin Clegg

28/13S/31W Gove Co.

ShIPLEY 28D#1

Start Date: 2010.09.22 @ 04:32:00

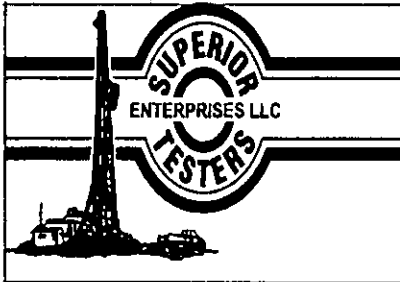
End Date: 2010.09.22 @ 21:39:03

Job Ticket #: 16122 DST #: 5

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

Printed: 2010.09.24 @ 10:46:44

Ritchie Exploration Inc. Shipley 28D#1 28/13S/31W Gove Co. DST # 5 Johnson 2010.09.22



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22ND Street
 North #700 Wichita Kansas
 67278+3188
 ATTN: Justin Clegg

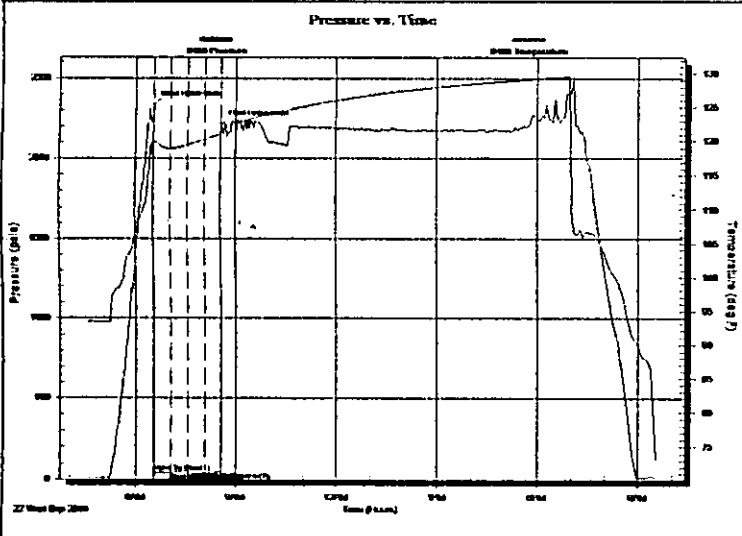
ShIPLEY 28D#1
28/13S/31W Gove Co.
 Job Ticket: 16122 DST#: 5
 Test Start: 2010.09.22 @ 04:32:00

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:32:23
 Time Test Ended: 21:39:03
 Interval: **4435.00 ft (KB) To 4468.00 ft (KB) (TVD)**
 Total Depth: **4468.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (In)
 Tester: Dylan E Ellis
 Unit No: 3345-Scott City-120
 Reference Elevations: 2843.00 ft (KB)
 2833.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8400 **Outside**
 Press@RunDepth: 43.07 psia @ 4465.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2010.09.22 End Date: 2010.09.22 Last Calib.: 2010.09.23
 Start Time: 04:32:00 End Time: 21:39:03 Time On Btm: 2010.09.22 @ 06:31:53
 Time Off Btm: 2010.09.22 @ 08:33:23

TEST COMMENT: 1ST Opening 30 Minutes weak surface blow /blow never made it past surface
 1ST Shut-in 30 Minutes no blow back
 2ND Opening 30 Minutes nothing the blow was dead
 2ND Shut-in 30 Minutes no blow back



PRESSURE SUMMARY

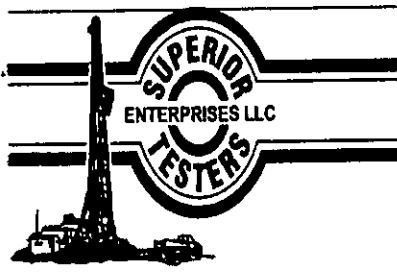
| Time (Min.) | Pressure (psia) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2330.83 | 120.64 | Initial Hydro-static |
| 1 | 42.07 | 120.17 | Open To Flow (1) |
| 31 | 43.41 | 119.02 | Shut-in(1) |
| 61 | 51.97 | 119.48 | End Shut-in(1) |
| 62 | 44.19 | 119.50 | Open To Flow (2) |
| 92 | 43.07 | 120.29 | Shut-in(2) |
| 121 | 45.48 | 121.11 | End Shut-in(2) |
| 122 | 2213.04 | 121.75 | Final Hydro-static |

Recovery

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

Gas Rates

| Choke (inches) | Pressure (psia) | Gas Rate |
|----------------|-----------------|----------|
| | | |



DRILL STEM TEST REPORT **TOOL DIAGRAM**

Ritchie Exploration Inc.
 8100 East 22ND Street
 North #700 Wichita Kansas
 67278+3188
 ATTN: Justin Clegg

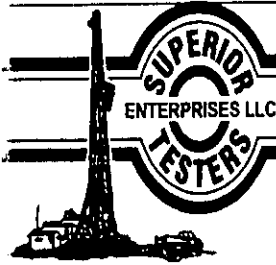
Shipley 28D#1
28/13S/31W Gove Co.
 Job Ticket: 16122 **DST#: 5**
 Test Start: 2010.09.22 @ 04:32:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3858.00 ft | Diameter: 3.80 inches | Volume: 54.12 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: 580.95 ft | Diameter: 2.25 inches | Volume: 2.86 bbl | Weight to Pull Loose: 74000.00 lb |
| | | | <u>Total Volume: 56.98 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 24.95 ft | | | String Weight: Initial 67000.00 lb |
| Depth to Top Packer: | 4435.00 ft | | | Final 66000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 33.00 ft | | | |
| Tool Length: | 54.00 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 | | | 4415.00 | |
| Shut-In Tool | 5.00 | | | 4420.00 | |
| Hydroic Tool | 5.00 | | | 4425.00 | |
| Packer | 5.00 | | | 4430.00 | 21.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 4435.00 | |
| Perforations | 28.00 | | | 4463.00 | |
| Recorder | 1.00 | 4100 | Inside | 4464.00 | |
| Recorder | 1.00 | 8400 | Outside | 4465.00 | |
| Bullnose | 3.00 | | | 4468.00 | 33.00 Bottom Packers & Anchor |
| Total Tool Length: | 54.00 | | | | |



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

Shibley 28D#1

8100 East 22ND Street
North #700 Wichita Kansas
67278+3188

28/13S/31W Gove Co.

Job Ticket: 16122

DST#: 5

ATTN: Justin Clegg

Test Start: 2010.09.22 @ 04:32:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 57.00 sec/qt
Water Loss: 9.60 in³
Resistivity: ohm.m
Salinity: 4500.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psia

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

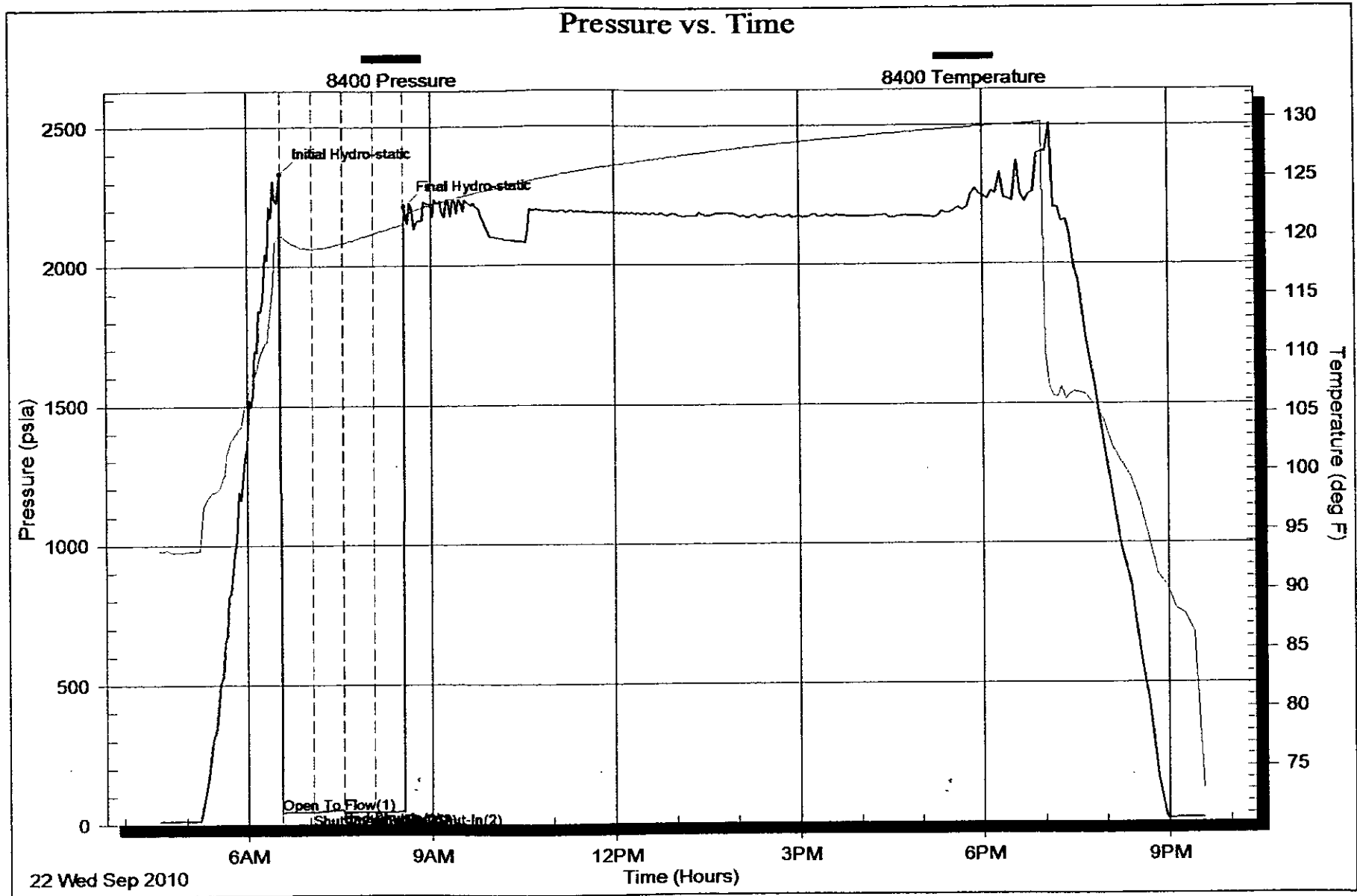
| Length ft | Description | Volume bbl |
|--------------|-----------------|---------------|
| 5.00 | Mud at 100% Mud | 0.025 |

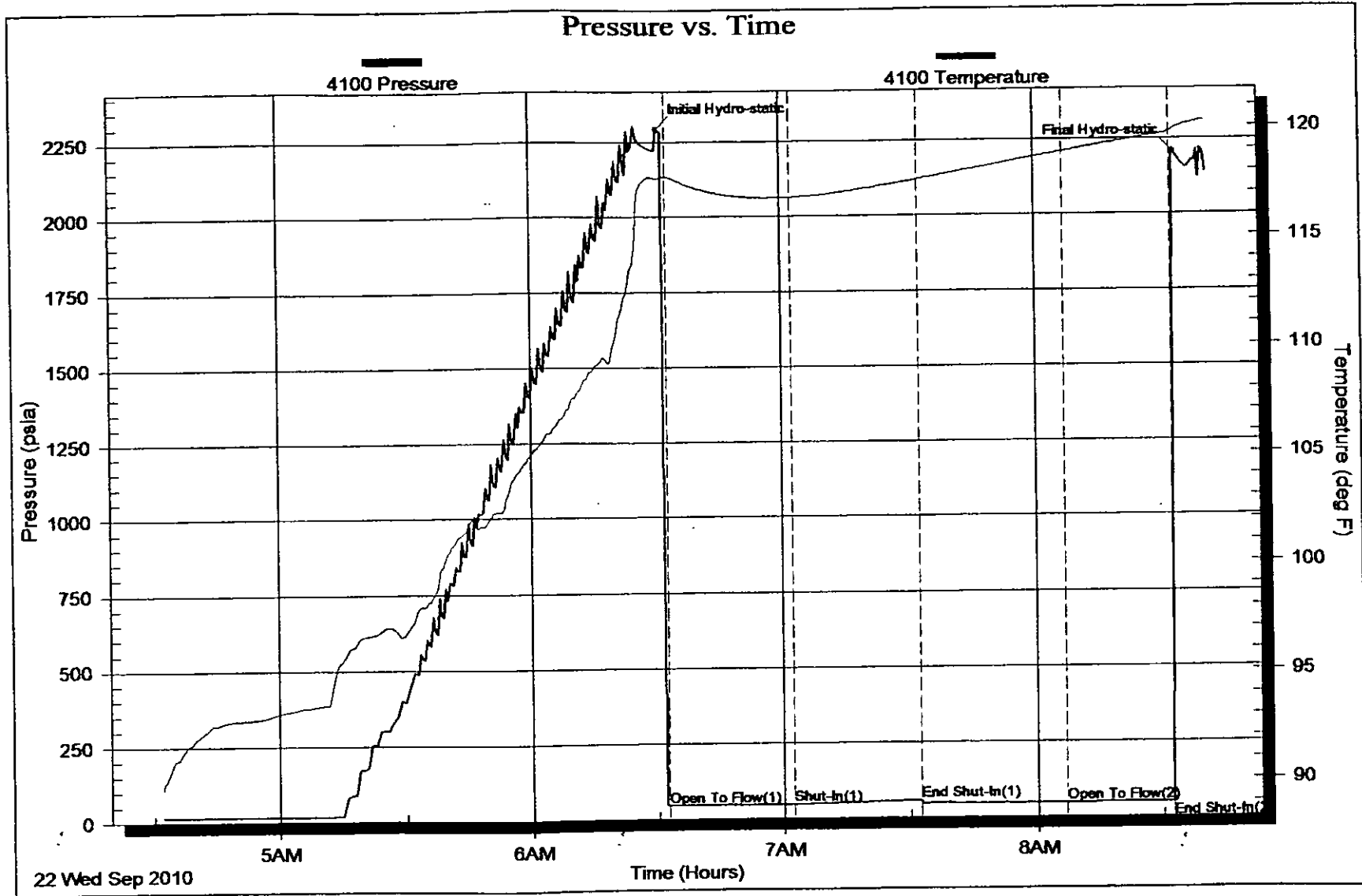
Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:





22 Wed Sep 2010