

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

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

3/30/13

OPERATOR: License # 30606
Name: Murfin Drilling Company, Inc.
Address 1: 250 N. Water, Suite 300
Address 2: _____
City: Wichita State: KS Zip: 67202 + _____
Contact Person: Leon Rodak
Phone: (316) 267-3241
CONTRACTOR: License # 30606
Name: Murfin Drilling Company, Inc.
Wellsite Geologist: Robert Hendrix
Purchaser: None

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Designate Type of Completion:

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

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

Operator: _____
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to ENHR Conv. to SWD
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

| | | |
|-----------------------------------|-------------------|---|
| <u>12/02/2010</u> | <u>12/16/2010</u> | <u>12/18/2010</u> |
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |

API No. 15 - 101-22269-0000
Spot Description: _____
SW SW NW NW Sec. 12 Twp. 18 S. R. 30 East West
1,175 Feet from North / South Line of Section
240 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Lane
Lease Name: Cramer-Sharp Unit Well #: 1-12X
Field Name: Wildcat
Producing Formation: None
Elevation: Ground: 2843 Kelly Bushing: 2854
Total Depth: 4680 Plug Back Total Depth: None
Amount of Surface Pipe Set and Cemented at: 2439 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: _____ Feet
If Alternate II completion, cement circulated from: _____
feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls
Dewatering method used: _____
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License #: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Permit #: _____

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.

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.

Signature: _____
Title: VP Production Date: 03/30/2011

KCC Office Use ONLY

Letter of Confidentiality Received
Date: 3/30/11 - 3/30/13

Confidential Release Date: _____

Wireline Log Received

Geologist Report Received

UIC Distribution

ALT I II III Approved by: ND Date: _____

RECEIVED
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KCC WICHITA
4-471

Operator Name: Murfin Drilling Company, Inc. Lease Name: Cramer-Sharp Unit Well #: 1-12X
 Sec. 12 Twp. 18 S. R. 30 East West County: Lane

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

| | |
|--|---|
| Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum See Attached List <div style="text-align: right; font-weight: bold; font-size: 1.2em;"> KCC MAR 30 2011 CONFIDENTIAL </div> |
|--|---|

| 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 | | 13 3/8 | 54.5# | 208 | Common | 220 | 3% cc, 2% gel |
| Surface | | 8 5/8 | 24# | 2439 | Common | 250 | 3% cc, 2% gel |
| | | | | | | | |

| ADDITIONAL CEMENTING / SQUEEZE RECORD | | | | |
|--|------------------|----------------|--------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone | | | | |
| | | | | |

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i> | Depth |
|----------------|---|--|-------|
| | CIPB @ 2200' | | |
| | | | |
| | | | |
| | | | |

| | | | |
|---|-----------|---|-----------------------------------|
| TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ | | Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No | KCC WICHITA |
| 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. | Gas Mcf | Water Bbls. Gas-Oil Ratio Gravity |

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

| MDCI Cramer-Sharp Unit #1-12X 1175 FNL 240 FWL Sec. 12-T18S-R30W 2854' KB | | | | | | | Chief Drlg. #1 Sharp 'B' 2970 FSL 2310 FEL Sec. 1-T18S-R30W 2841' KB | |
|---|-------------|-------|-----|----------|-------|-----|--|-------|
| Formations | Sample Tops | Datum | Ref | Log tops | Datum | Ref | Log Tops | Datum |
| Anhydrite | 2210 | +644 | +8 | | | | 2205 | +636 |
| B/Anhydrite | 2232 | +622 | +5 | | | | 2224 | +617 |
| Topeka | 3668 | -814 | +7 | 3668 | -814 | +7 | 3662 | -821 |
| Heebner | 3907 | -1053 | +6 | 3905 | -1051 | +8 | 3900 | -1059 |
| Lansing | 3954 | -1100 | +5 | 3954 | -1100 | +5 | 3946 | -1105 |
| Stark | 4220 | -1366 | +10 | 4218 | -1364 | +12 | 4217 | -1376 |
| Marmaton | 4337 | -1483 | +9 | 4334 | -1480 | +12 | 4333 | -1492 |
| Uppr. Pawnee | 4412 | -1558 | +8 | 4410 | -1556 | +10 | 4407 | -1566 |
| Mississippian | 4557 | -1703 | +4 | 4556 | -1702 | +5 | 4548 | -1707 |
| RTD | 4680 | | | | | | 4590 | |
| LTD | | | | 4682 | | | 4592 | |

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PO BOX 31 Russell, KS 67665

PROD COPY

INVOICE

Invoice Number: 125606
 Invoice Date: Dec 3, 2010
 Page: 1

*Surf
 acct.*

Voice: (785) 483-3887
 Fax: (785) 483-5566

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Bill To:
 Murfin Drlg. Co., Inc.
 250 N. Water
 STE #300
 Wichita, KS 67202

F
*operator pay
 mdc*

| Customer ID | Well Name# or Customer P.O. | Payment Terms | |
|--------------|----------------------------------|---------------|----------|
| Murfin | Crammer Sharp #1-12X <i>Unit</i> | Net 30 Days | |
| Job Location | Camp Location | Service Date | Due Date |
| KS1-01 | Oakley | Dec 3, 2010 | 1/2/11 |

| Quantity | Item | Description | Unit Price | Amount |
|----------|------|-----------------------------------|------------|----------|
| 220.00 | MAT | Class A Common | 15.45 | 3,399.00 |
| 4.00 | MAT | Gel | 20.80 | 83.20 |
| 8.00 | MAT | Chloride | 58.20 | 465.60 |
| 232.00 | SER | Handling | 2.40 | 556.80 |
| 60.00 | SER | Mileage 232 sx @.10 per sk per mi | 23.20 | 1,392.00 |
| 1.00 | SER | Surface | 1,018.00 | 1,018.00 |
| 60.00 | SER | Pump Truck Mileage | 7.00 | 420.00 |

For 13 3/8 Casing

OKDD

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| Account | Unit Fig | W I | No. | Amount | Description |
|--------------|--------------|-------------|----------------|------------------|----------------------------|
| <i>03600</i> | <i>02240</i> | <i>3818</i> | <i>7583.31</i> | <i>(2567.11)</i> | <i>Concret 13 3/8 Csg.</i> |

| | |
|------------------------|-----------------|
| Subtotal | 7,334.60 |
| Sales Tax | 248.71 |
| Total Invoice Amount | 7,583.31 |
| Payment/Credit Applied | |
| TOTAL | 7,583.31 |

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

\$ *2567.11*

ONLY IF PAID ON OR BEFORE
 Dec 28, 2010

-2567.11
5016.20

ALLIED CEMENTING CO., LLC. 040854

KCC
MAR 30 2011
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REMIT TO P.O. BOX 31
 RUSSELL, KANSAS 67665

SERVICE POINT:
Oakley

| | | | | | | | |
|-------------------------|--------------------|---------------------|---------------------------------|--------------------|-----------------|--------------------------|--------------------------|
| DATE <u>12-3-10</u> | SEC <u>12</u> | TWP <u>18</u> | RANGE <u>30</u> | CALLED OUT | ON LOCATION | JOB START <u>12:30pm</u> | JOB FINISH <u>1:00pm</u> |
| CRGMMET | LEASE <u>Sharp</u> | WELL # <u>1-12X</u> | LOCATION <u>Any 1/2 E 1/2 N</u> | COUNTY <u>Lane</u> | STATE <u>KS</u> | | |
| OLD OR NEW (Circle one) | | | <u>E into</u> | | | | |

CONTRACTOR MacFin Drilling Rig 22

TYPE OF JOB surface

HOLE SIZE 17/8 T.D. 212

CASING SIZE 13 7/8 DEPTH 210

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 30 BBL

OWNER Same

CEMENT

AMOUNT ORDERED 220 SKS com

390cc 20gel

COMMON 220 SKS @ 15.45 3399.00

POZMIX @

GEL 4.5 SKS @ 20.80 93.20

CHLORIDE 8 SKS @ 58.20 465.60

ASC @

HANDLING 232 SKS @ 2.40 556.80

MILEAGE 109 SK/mile 1392.00

TOTAL 5896.60

EQUIPMENT

PUMP TRUCK CEMENTER Andrew

423-281 HELPER Larene

BULK TRUCK

394 DRIVER Terry

BULK TRUCK

DRIVER

REMARKS:

Cement did circulate

CHARGE TO: MacFin Drilling *thank you*

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB 210

PUMP TRUCK CHARGE 1018.00

EXTRA FOOTAGE @

MILEAGE 60 miles @ 200 420.00

MANIFOLD @

TOTAL 1438.00

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PLUG & FLOAT EQUIPMENT

@

@

@

@

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 Kelly Wilson

SIGNATURE Kelly Wilson

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS



PO BOX 31 Russell, KS 67665

Voice: (785) 483-3887
 Fax: (785) 483-5566

*Jim
adct.*

INVOICE

Invoice Number: 125550
 Invoice Date: Dec 6, 2010
 Page: 1

PROD COPY

Bill To:
 Murfin Drtg. Co., Inc.
 250 N. Water
 STE #300
 Wichita, KS 67202

KCC
MAR 30 2011
CONFIDENTIAL

*operator Pay
 mac
 /
 on*

| Customer ID | Well Name# or Customer P.O. | Payment Terms | |
|--------------|-----------------------------|---------------|----------|
| Murfin | Cramer Sharp X #1-12 | Net 30 Days | |
| Job Location | Camp Location | Service Date | Due Date |
| KS1-01 | Oakley | Dec 7, 2010 | 1/5/11 |

| Quantity | Item | Description | Unit Price | Amount |
|----------|------|------------------------------------|------------|----------|
| 250.00 | MAT | Class A Common | 15.45 | 3,862.50 |
| 5.00 | MAT | Gel | 20.80 | 104.00 |
| 9.00 | MAT | Chloride | 58.20 | 523.80 |
| 264.00 | SER | Handling | 2.40 | 633.60 |
| 60.00 | SER | Mileage 264 sx @ .10 per sk per mi | 26.40 | 1,584.00 |
| 1.00 | SER | Surface | 2,011.00 | 2,011.00 |
| 60.00 | SER | Pump Truck Mileage | 7.00 | 420.00 |
| 7.00 | EQP | 8.5/8 Centralizer | 49.00 | 343.00 |
| 2.00 | EQP | 8.5/8 Basket | 221.00 | 442.00 |
| 1.00 | EQP | 8.58 Guide Shoe | 258.00 | 258.00 |
| 1.00 | EQP | 8.5/8 AFU Insert | 158.00 | 158.00 |
| 1.00 | EQP | 8.5/8 Rubber Plug | 74.00 | 74.00 |

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| Account | Unit Flg | W L | No. | Amount | Description |
|-------------|-------------|-----------|-------------|------------------|-----------------------|
| <i>B600</i> | <i>022</i> | <i>45</i> | <i>3818</i> | <i>10834.77</i> | <i>Cement S. Csg.</i> |
| | | | | <i>(3644.87)</i> | |

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

\$ 3644.87

ONLY IF PAID ON OR BEFORE
Dec 31, 2010

| | |
|------------------------|------------------|
| Subtotal | 10,413.90 |
| Sales Tax | 420.87 |
| Total Invoice Amount | 10,834.77 |
| Payment/Credit Applied | |
| TOTAL | 10,834.77 |

92

7189.90

-3644.87

ALLIED CEMENTING CO., LLC. 040781

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

SERVICE POINT:
OAKVILLE KS

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CONFIDENTIAL

| | | | | | | | |
|--------------------------------|----------------------|---------------------------------|--------------------|------------|--------------------------------|-----------------------------|------------------------------|
| DATE <u>12-7-10</u> | SEC. <u>12</u> | TWP. <u>18</u> | RANGE <u>30</u> | CALLED OUT | ON LOCATION <u>10:00 AM</u> | JOB START <u>5:00 PM</u> | JOB FINISH <u>5:30 PM</u> |
| LEASE# <u>SHARD X</u> | WELL# <u>1-12</u> | LOCATION <u>Army 16-112N</u> | | | COUNTY <u>Smith</u> | STATE <u>KS</u> | |
| OLD OR <u>NEW</u> (Circle one) | | | | | | | |

| | |
|--|-------------------------|
| CONTRACTOR <u>Murphy #22</u> | OWNER |
| TYPE OF JOB <u>Surfaco</u> | |
| HOLE SIZE <u>12"4</u> | T.D. <u>2442.38</u> |
| CASING SIZE <u>8 7/8</u> | DEPTH <u>2441</u> |
| TUBING SIZE | DEPTH |
| DRILL PIPE | DEPTH |
| TOOL | DEPTH |
| PRES. MAX | MINIMUM |
| MEAS. LINE | SHOE JOINT <u>44.38</u> |
| CEMENT LEFT IN CSG. <u>44.38</u> | |
| PERFS. | |
| DISPLACEMENT <u>32" = 42.53</u> <u>24" = 108.20</u> | |

| | | | |
|----------------|--------------|------------------|----------------|
| CEMENT | | | |
| AMOUNT ORDERED | <u>250</u> | <u>com 390cc</u> | |
| | <u>290cc</u> | | |
| COMMON | <u>250</u> | @ <u>15.45</u> | <u>3862.50</u> |
| POZMIX | | @ | |
| GEL | <u>5</u> | @ <u>20.80</u> | <u>104.00</u> |
| CHLORIDE | <u>9</u> | @ <u>58.20</u> | <u>523.80</u> |
| ASC | | @ | |
| | | @ | |
| | | @ | |
| | | @ | |
| | | @ | |
| | | @ | |
| HANDLING | <u>264</u> | @ <u>2.40</u> | <u>633.60</u> |
| MILEAGE | <u>10.45</u> | @ <u>15.84</u> | <u>165.84</u> |
| | | | |
| TOTAL | | | <u>6767.90</u> |

EQUIPMENT 150.75

| | |
|--------------|------------------------|
| PUMP TRUCK | CEMENTER <u>Fitzzy</u> |
| # <u>431</u> | HELPER <u>Rilly</u> |
| BULK TRUCK | |
| # <u>373</u> | DRIVER <u>Jerry</u> |
| BULK TRUCK | |
| # | DRIVER |

REMARKS:

Mix 250ccs cement down 2441
of 8 7/8 csg.
Drop plug to replace 150.2 BAK
Litch Press 200" hand scoot
Close hold Plug down @ 5:30 PM
Press csg to 200" depth in
Thanks Fitzzy Jerry

SERVICE

| | |
|-------------------|------------------------------------|
| DEPTH OF JOB | <u>2441.38</u> |
| PUMP TRUCK CHARGE | <u>2011.80</u> |
| EXTRA FOOTAGE | @ |
| MILEAGE | <u>60</u> @ <u>7.00</u> <u>420</u> |
| MANIFOLD | @ |
| | @ |
| | @ |

TOTAL 2431.80

CHARGE TO: Murphy Dalg
STREET _____
CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

| | | |
|-----------------|-----------------|---------------|
| 7- Kent | <u>49.00</u> | <u>343.00</u> |
| 2- Baskets | @ <u>221.00</u> | <u>442.00</u> |
| 1- Guide shoe | @ | <u>258.00</u> |
| 1- AFO Insert | @ | <u>158.00</u> |
| 1- rotobok plug | @ | <u>74.00</u> |
| | @ | |

TOTAL 1275.00

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 KELLY WILSON
SIGNATURE Kelly Wilson

SALES TAX (If Any) _____
TOTAL CHARGES _____
DISCOUNT _____ IF PAID IN 30 DAYS

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PO BOX 31 Russell, KS 67665

NETTED-PROD COPY ^{Surf. acct.}
INVOICE

Invoice Number: 125657

Invoice Date: Dec 17, 2010

Page: 1

Voice: (785) 483-3887
 Fax: (785) 483-5566

| |
|---|
| Bill To: |
| Murfin Drig. Co., Inc. 250 N. Water STE #300 Wichita, KS 67202 |

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 CONFIDENTIAL

*operator pay
 moc
 B'n*

| Customer ID | Well Name# or Customer P.O. | Payment Terms | |
|--------------|-----------------------------|---------------|----------|
| Murfin | Cramer Sharp #1-12X | Net 30 Days | |
| Job Location | Camp Location | Service Date | Due Date |
| KS1-03 | Oakley | Dec 17, 2010 | 1/16/11 |

| Quantity | Item | Description | Unit Price | Amount |
|----------|------|-----------------------------------|------------|----------|
| 300.00 | MAT | Class A Common | 15.45 | 4,635.00 |
| 200.00 | MAT | Pozmix | 8.00 | 1,600.00 |
| 17.00 | MAT | Gel | 20.80 | 353.60 |
| 10.00 | MAT | Chloride | 58.20 | 582.00 |
| 125.00 | MAT | Flo Seal | 2.50 | 312.50 |
| 532.00 | SER | Handling | 2.40 | 1,276.80 |
| 60.00 | SER | Mileage 532 sx @.10 per sk per mi | 53.20 | 3,192.00 |
| 1.00 | SER | Plug to Abandon | 1,185.00 | 1,185.00 |
| 60.00 | SER | Pump Truck Mileage | 7.00 | 420.00 |

| Account | Upr | W | Mo | Amount | Description |
|---------|-----|----|------|-----------|-------------|
| 03600 | 022 | 40 | 3818 | 14410.98 | PTA |
| | | | | (4744.91) | |

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

\$ 4744.91

ONLY IF PAID ON OR BEFORE
Jan 11, 2011

| | |
|------------------------|------------------|
| Subtotal | 13,556.90 |
| Sales Tax | 854.08 |
| Total Invoice Amount | 14,410.98 |
| Payment/Credit Applied | |
| TOTAL | 14,410.98 |

02

-4744.91

9666.07

ALLIED CEMENTING CO., LLC. 040859

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

SERVICE POINT: Oakley
12-18-10

| | | | | | | | |
|--|----------------|----------------|-----------------|------------|-------------|-------------------------|--------------------------|
| DATE <u>12-17-10</u> | SEC. <u>12</u> | TWP. <u>18</u> | RANGE <u>30</u> | CALLED OUT | ON LOCATION | JOB START <u>2:30pm</u> | JOB FINISH <u>3:30pm</u> |
| LEASE <u>Sharp</u> WELL # <u>1-12 X</u> LOCATION <u>Amy 1/2 E 1/2 NE 1/4</u> | | | | | | COUNTY <u>Lane</u> | STATE <u>KS</u> |
| OLD OR (NEW) (Circle one) | | | | | | | |

CONTRACTOR Murfin Drilling Rig 22 OWNER same

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D. 4680'

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH 2460'

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

CEMENT AMOUNT ORDERED 500 sks 6 3/4

4 3/4 gcl 1/4 flo-seal

10 cc on side

COMMON 300 sks @ 15.45 4635.00

POZMIX 200 sks @ 8.00 1600.00

GEL 17 sks @ 70.80 353.60

CHLORIDE 10 sks @ 58.20 582.00

ASC @ _____

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EQUIPMENT

PUMP TRUCK CEMENTER Andrew

423-281 HELPER Larene

BULK TRUCK

394 DRIVER Darren

BULK TRUCK

_____ DRIVER _____

Flo-seal 125# @ 2.50 312.50

HANDLING 532 sks @ 2.90 1276.80

MILEAGE 108.56/mile 3192.00

TOTAL 11951.90

REMARKS:

spot 50 sks 4 3/4 gcl @ 2460' set Bridge
plug @ 2200' mix 85 sks 4 1/2 gcl followed
by 75 sks 4 3/4 gcl 4 1/2 gcl displace to 1200'
thru perfs @ 1500' very little circulation,
pump 50 sks 4 3/4 gcl followed by 50 sks 4 3/4
4 3/4 gcl down 8 1/2 thru perfs @ 1000' left
50 sks incasing no circulation shot off and run
4 3/4 8 1/2 run 4 3/4 drill pipe in spot 50
50 sks 3 1/2 @ 210' lost 50 sks 30 sks
20 sks mouse hole 30 sks rat hole

SERVICE

DEPTH OF JOB 2460

PUMP TRUCK CHARGE 1185.00

EXTRA FOOTAGE @ _____

MILEAGE 60 miles @ 7.00 420.00

MANIFOLD @ _____

CHARGE TO: Murfin thank you

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL 1605.00

RECEIVED
MAR 31 2011
KCC WICHITA

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

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.

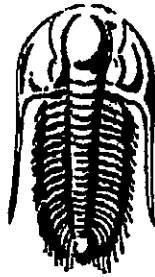
SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME Kelly Wilson

SIGNATURE Kelly Wilson



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**
250 N. Water
Suite 300
Wichita, KS 67202

**KCC
MAR 30 2011
CONFIDENTIAL**

ATTN: Robert Hendrix

12-18s30w Lane, KS

Cramer-Sharp Unit 1-12X

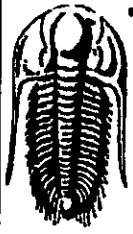
Start Date: 2010.12.12 @ 06:35:00

End Date: 2010.12.12 @ 15:19:30

Job Ticket #: 040567 DST #: 1

**RECEIVED
MAR 31 2011
KCC WICHITA**

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Robert Hendrix

Cramer-Sharp Unit 1-12X

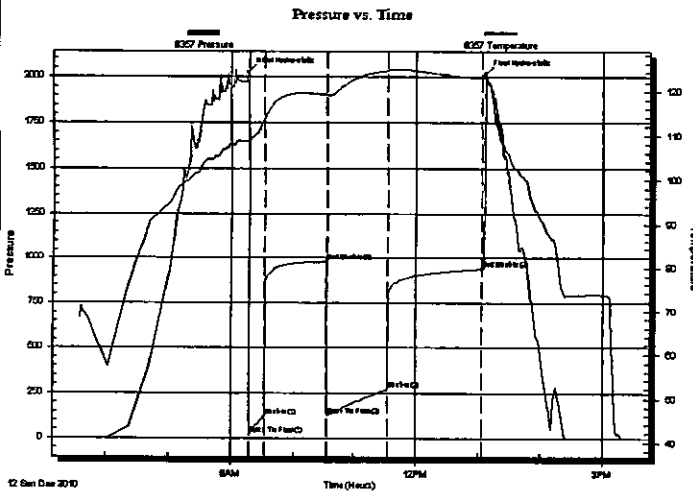
12-18s30w Lane, KS
Job Ticket: 040567 DST#: 1
Test Start: 2010.12.12 @ 06:35:00

GENERAL INFORMATION:

Formation: **Lansing 'J'**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: **09:18:00**
Time Test Ended: **15:19:30**
Interval: **4188.00 ft (KB) To 4215.00 ft (KB) (TVD)**
Total Depth: **4215.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole**
Tester: **Chuck Smith**
Unit No: **37**
Reference Elevations: **2854.00 ft (KB)**
2843.00 ft (CF)
KB to GR/CF: **11.00 ft**

Serial #: 8357 Inside
Press@RunDepth: **269.04 psig @ 4192.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.12.12** End Date: **2010.12.12** Last Calib.: **2010.12.12**
Start Time: **06:35:05** End Time: **15:19:30** Time On Btm: **2010.12.12 @ 09:16:45**
Time Off Btm: **2010.12.12 @ 13:07:00**

TEST COMMENT: IF: 9" Blow.
IS: No return.
FF: B.O.B. @ 20 min.
FSI: No return.



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2026.20 | 108.62 | Initial Hydro-static |
| 2 | 23.16 | 108.17 | Open To Flow (1) |
| 16 | 122.98 | 113.58 | Shut-In(1) |
| 77 | 978.14 | 119.29 | End Shut-In(1) |
| 77 | 125.79 | 118.94 | Open To Flow (2) |
| 137 | 269.04 | 124.47 | Shut-In(2) |
| 227 | 941.18 | 122.90 | End Shut-In(2) |
| 231 | 2017.37 | 122.92 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------|--------------|
| 124.00 | MW 40m 60w | 0.61 |
| 490.00 | OSMW 10m 90w | 5.74 |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Cramer-Sharp Unit 1-12X

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Robert Hendrix

12-18s30w Lane, KS
Job Ticket: 040567 DST#: 1
Test Start: 2010.12.12 @ 06:35:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|-------------------|------------------------------------|
| Drill Pipe: | Length: 3942.00 ft | Diameter: 3.80 inches | Volume: 55.30 bbl | Tool Weight: 2200.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 248.00 ft | Diameter: 2.25 inches | Volume: 1.22 bbl | Weight to Pull Loose: 75000.00 lb |
| | | Total Volume: | 56.52 bbl | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 24.50 ft | | | String Weight: Initial 64000.00 lb |
| Depth to Top Packer: | 4188.00 ft | | | Final 68000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 27.00 ft | | | |
| Tool Length: | 49.50 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

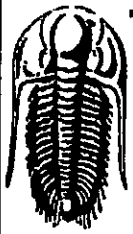
Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|------------------------------------|
| Change Over Sub | 1.00 | | | 4166.50 | |
| Shut In Tool | 5.00 | | | 4171.50 | |
| Hydraulic tool | 5.00 | | | 4176.50 | |
| Safety Joint | 2.50 | | | 4179.00 | |
| Packer | 5.00 | | | 4184.00 | 22.50 Bottom Of Top Packer |
| Packer | 4.00 | | | 4188.00 | |
| Stubb | 1.00 | | | 4189.00 | |
| Perforations | 3.00 | | | 4192.00 | |
| Recorder | 0.00 | 8357 | Inside | 4192.00 | |
| Recorder | 0.00 | 6751 | Outside | 4192.00 | |
| Perforations | 20.00 | | | 4212.00 | |
| Bullnose | 3.00 | | | 4215.00 | 27.00 Bottom Packers & Anchor |

Total Tool Length: 49.50

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KCC WICHITA



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Cramer-Sharp Unit 1-12X

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Robert Hendrix

12-18s30w Lane, KS
Job Ticket: 040567 DST#: 1
Test Start: 2010.12.12 @ 06:35:00

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: | 40000 ppm |
| Viscosity: 54.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 6.38 in ³ | Gas Cushion Type: | | |
| Resistivity: 0.00 ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 1400.00 ppm | | | |
| Filter Cake: 2.00 inches | | | |

Recovery Information

Recovery Table

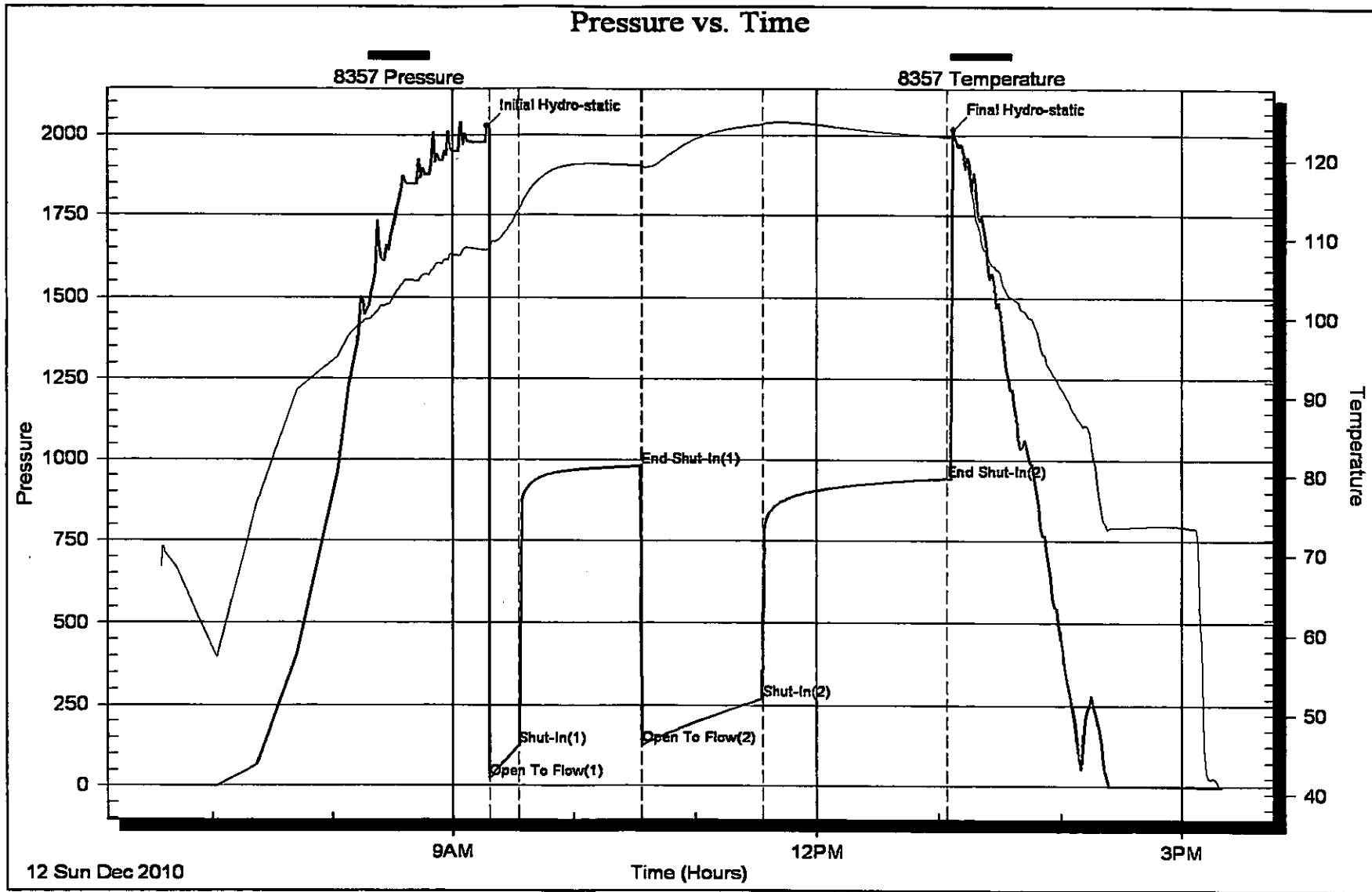
| Length ft | Description | Volume bbl |
|--------------|--------------|---------------|
| 124.00 | MW 40m 60w | 0.610 |
| 490.00 | OSMW 10m 90w | 5.744 |

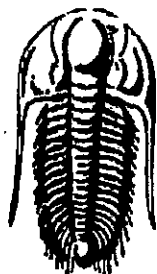
Total Length: 614.00 ft Total Volume: 6.354 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW: .180 @ 67 deg F





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water
Suite 300
Wichita, KS 67202

ATTN: Robert Hendrix

12-18s30w Lane, KS

Cramer-Sharp Unit 1-12X

Start Date: 2010.12.13 @ 00:19:00

End Date: 2010.12.13 @ 08:50:30

Job Ticket #: 040568 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Murfin Drilling Co Inc

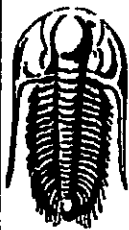
Cramer-Sharp Unit 1-12X

12-18s30w Lane, KS

DST # 2

Lansing 'K'

2010.12.13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Robert Hendrix

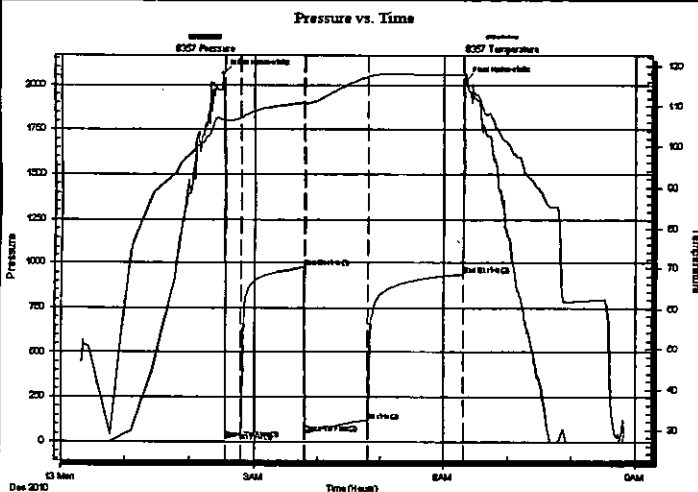
Cramer-Sharp Unit 1-12X
12-18s30w Lane, KS
Job Ticket: 040568 DST#: 2
Test Start: 2010.12.13 @ 00:19:00

GENERAL INFORMATION:

Formation: **Lansing 'K'**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: **02:33:00**
Time Test Ended: **08:50:30**
Interval: **4218.00 ft (KB) To 4256.00 ft (KB) (TVD)**
Total Depth: **4256.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole**
Tester: **Chuck Smith**
Unit No: **37**
Reference Elevations: **2854.00 ft (KB)**
2843.00 ft (CF)
KB to GR/CF: **11.00 ft**

Serial #: 8357 Inside
Press@RunDepth: **118.98 psig @ 4222.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.12.13** End Date: **2010.12.13** Last Calib.: **2010.12.13**
Start Time: **00:19:05** End Time: **08:50:29** Time On Btm: **2010.12.13 @ 02:31:30**
Time Off Btm: **2010.12.13 @ 06:20:45**

TEST COMMENT: IF: 3" Blow.
IS: No return.
FF: 8" Blow.
FSI: No return.



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2063.06 | 106.62 | Initial Hydro-static |
| 2 | 16.40 | 106.36 | Open To Flow (1) |
| 17 | 45.39 | 107.18 | Shut-In(1) |
| 77 | 976.81 | 110.90 | End Shut-In(1) |
| 77 | 49.88 | 110.57 | Open To Flow (2) |
| 137 | 118.98 | 117.20 | Shut-In(2) |
| 228 | 939.33 | 117.88 | End Shut-In(2) |
| 230 | 2023.38 | 118.09 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------|--------------|
| 124.00 | OCVM 3o 47w 50m | 0.61 |
| 62.00 | OCVM 5o 5w 90m | 0.30 |
| 77.00 | GO 3g 97o | 0.52 |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Cramer-Sharp Unit 1-12X

250 N. Water
Suite 300
Wichita, KS 67202

12-18s30w Lane, KS

ATTN: Robert Hendrix

Job Ticket: 040568

DST#: 2

Test Start: 2010.12.13 @ 00:19:00

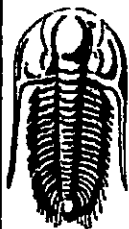
Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3972.00 ft | Diameter: 3.80 inches | Volume: 55.72 bbl | Tool Weight: 2200.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 248.00 ft | Diameter: 2.25 inches | Volume: 1.22 bbl | Weight to Pull Loose: 85000.00 lb |
| | | | <u>Total Volume: 56.94 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 24.50 ft | | | String Weight: Initial 65000.00 lb |
| Depth to Top Packer: | 4218.00 ft | | | Final 66000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 38.00 ft | | | |
| Tool Length: | 60.50 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 | | | 4196.50 | |
| Shut In Tool | 5.00 | | | 4201.50 | |
| Hydraulic tool | 5.00 | | | 4206.50 | |
| Safety Joint | 2.50 | | | 4209.00 | |
| Packer | 5.00 | | | 4214.00 | 22.50 Bottom Of Top Packer |
| Packer | 4.00 | | | 4218.00 | |
| Stubb | 1.00 | | | 4219.00 | |
| Perforations | 3.00 | | | 4222.00 | |
| Recorder | 0.00 | 8357 | Inside | 4222.00 | |
| Recorder | 0.00 | 6751 | Outside | 4222.00 | |
| Perforations | 31.00 | | | 4253.00 | |
| Bullnose | 3.00 | | | 4256.00 | 38.00 Bottom Packers & Anchor |

Total Tool Length: 60.50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Cramer-Sharp Unit 1-12X

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Robert Hendrix

12-18s30w Lane, KS
Job Ticket: 040568 DST#: 2
Test Start: 2010.12.13 @ 00:19:00

Mud and Cushion Information

| | | |
|----------------------------------|----------------------------|---------------------------|
| Mud Type: Gel Chem | Cushion Type: | Oil Apt: 30 deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: 21000 ppm |
| Viscosity: 54.00 sec/qt | Cushion Volume: bbl | |
| Water Loss: 5.98 in ³ | Gas Cushion Type: | |
| Resistivity: 0.00 ohm.m | Gas Cushion Pressure: psig | |
| Salinity: 1400.00 ppm | | |
| Filter Cake: 2.00 inches | | |

Recovery Information

Recovery Table

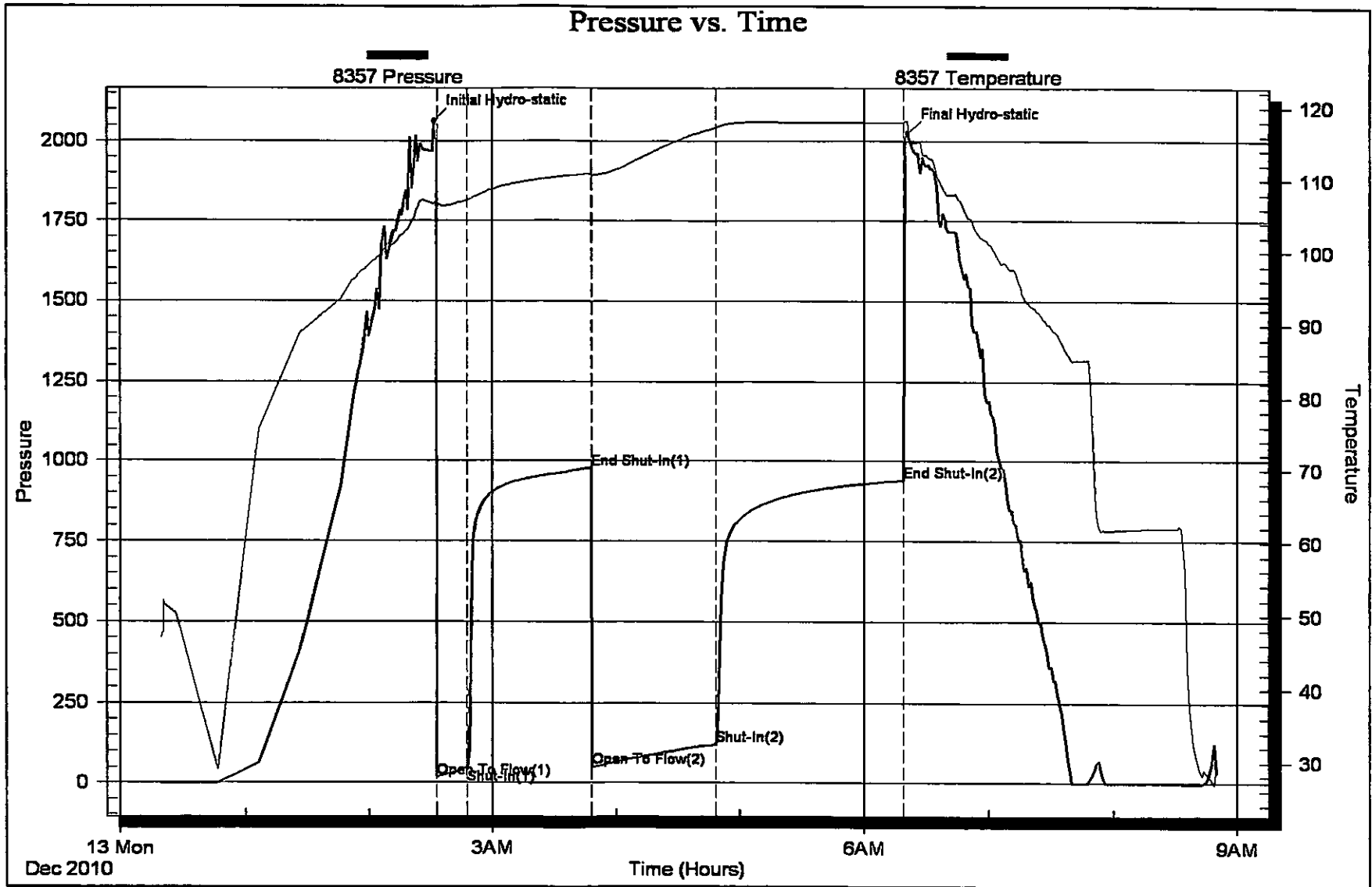
| Length ft | Description | Volume bbl |
|--------------|-----------------|---------------|
| 124.00 | OCVM 3o 47w 50m | 0.610 |
| 62.00 | OCVM 5o 5w 90m | 0.305 |
| 77.00 | GO 3g 97o | 0.515 |

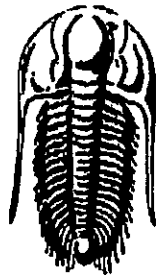
Total Length: 263.00 ft Total Volume: 1.430 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Apt 29 @ 50 Degrees F = 30.
RW: .365 @57 deg F





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water
Suite 300
Wichita, KS 67202

ATTN: Robert Hendrix

12-18s30w Lane, KS

Cramer-Sharp Unit 1-12X

Start Date: 2010.12.14 @ 16:43:00

End Date: 2010.12.15 @ 00:41:30

Job Ticket #: 040569 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Murfin Drilling Co Inc

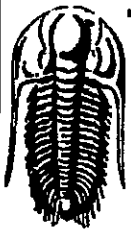
Cramer-Sharp Unit 1-12X

12-18s30w Lane, KS

DST # 3

Pawnee/Ft. Scott

2010.12.14



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc
250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Robert Hendrix

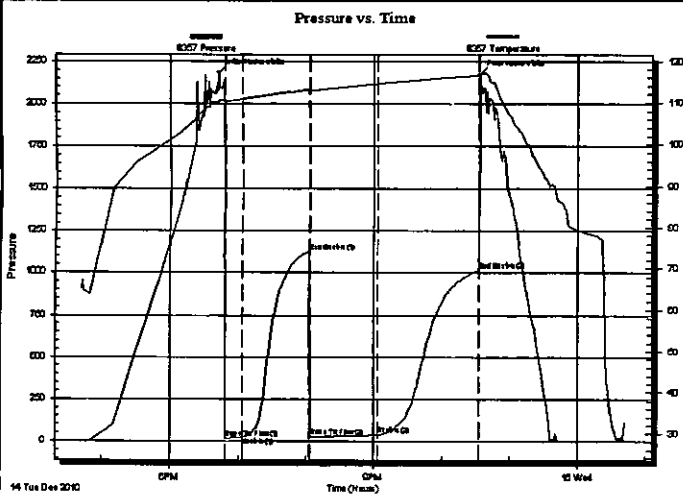
Cramer-Sharp Unit 1-12X
12-18s30w Lane, KS
Job Ticket: 040569 DST#: 3
Test Start: 2010.12.14 @ 16:43:00

GENERAL INFORMATION:

Formation: **Pawnee/Ft. Scott**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: 18:48:00
Time Test Ended: 00:41:30
Interval: **4400.00 ft (KB) To 4482.00 ft (KB) (TVD)**
Total Depth: **4482.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole**
Tester: **Chuck Smith**
Unit No: **37**
Reference Elevations: **2854.00 ft (KB)**
2843.00 ft (CF)
KB to GR/CF: **11.00 ft**

Serial #: **8357** Inside
Press@RunDepth: **37.10 psig @ 4404.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.12.14** End Date: **2010.12.15** Last Calib.: **2010.12.15**
Start Time: **16:43:05** End Time: **00:41:29** Time On Btm: **2010.12.14 @ 18:41:45**
Time Off Btm: **2010.12.14 @ 22:33:15**

TEST COMMENT: IF: 1/2" Blow.
IST: No return.
FF: No blow.
FSI: No return.



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2182.80 | 110.13 | Initial Hydro-static |
| 7 | 17.05 | 110.08 | Open To Flow (1) |
| 22 | 21.06 | 110.87 | Shut-In(1) |
| 81 | 1127.45 | 113.09 | End Shut-In(1) |
| 82 | 25.64 | 112.90 | Open To Flow (2) |
| 142 | 37.10 | 114.55 | Shut-In(2) |
| 231 | 1013.59 | 116.52 | End Shut-In(2) |
| 232 | 2174.09 | 116.96 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------|--------------|
| 20.00 | VSOCM 1o 99m | 0.10 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Cramer-Sharp Unit 1-12X

250 N. Water
Suite 300
Wichita, KS 67202

12-18s30w Lane, KS

Job Ticket: 040569

DST#: 3

ATTN: Robert Hendrix

Test Start: 2010.12.14 @ 16:43:00

Tool Information

| | | | | | |
|---------------------------|--------------------|-----------------------|-------------------|------------------------|-------------|
| Drill Pipe: | Length: 4159.00 ft | Diameter: 3.80 inches | Volume: 58.34 bbl | Tool Weight: | 2200.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: | 25000.00 lb |
| Drill Collar: | Length: 248.00 ft | Diameter: 2.25 inches | Volume: 1.22 bbl | Weight to Pull Loose: | 85000.00 lb |
| | | Total Volume: | 59.56 bbl | Tool Chased | 0.00 ft |
| Drill Pipe Above KB: | 29.50 ft | | | String Weight: Initial | 68000.00 lb |
| Depth to Top Packer: | 4400.00 ft | | | Final | 68000.00 lb |
| Depth to Bottom Packer: | ft | | | | |
| Interval between Packers: | 82.00 ft | | | | |
| Tool Length: | 104.50 ft | | | | |
| Number of Packers: | 2 | Diameter: | 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Change Over Sub | 1.00 | | | 4378.50 | |
| Shut In Tool | 5.00 | | | 4383.50 | |
| Hydraulic tool | 5.00 | | | 4388.50 | |
| Safety Joint | 2.50 | | | 4391.00 | |
| Packer | 5.00 | | | 4396.00 | 22.50 Bottom Of Top Packer |
| Packer | 4.00 | | | 4400.00 | |
| Stubb | 1.00 | | | 4401.00 | |
| Perforations | 3.00 | | | 4404.00 | |
| Recorder | 0.00 | 8357 | Inside | 4404.00 | |
| Recorder | 0.00 | 6751 | Outside | 4404.00 | |
| Perforations | 10.00 | | | 4414.00 | |
| Change Over Sub | 1.00 | | | 4415.00 | |
| Drill Pipe | 63.00 | | | 4478.00 | |
| Change Over Sub | 1.00 | | | 4479.00 | |
| Bullnose | 3.00 | | | 4482.00 | 82.00 Bottom Packers & Anchor |

Total Tool Length: 104.50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Cramer-Sharp Unit 1-12X

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Robert Hendrix

12-18s30w Lane, KS
Job Ticket: 040569 DST#: 3
Test Start: 2010.12.14 @ 16:43:00

Mud and Cushion Information

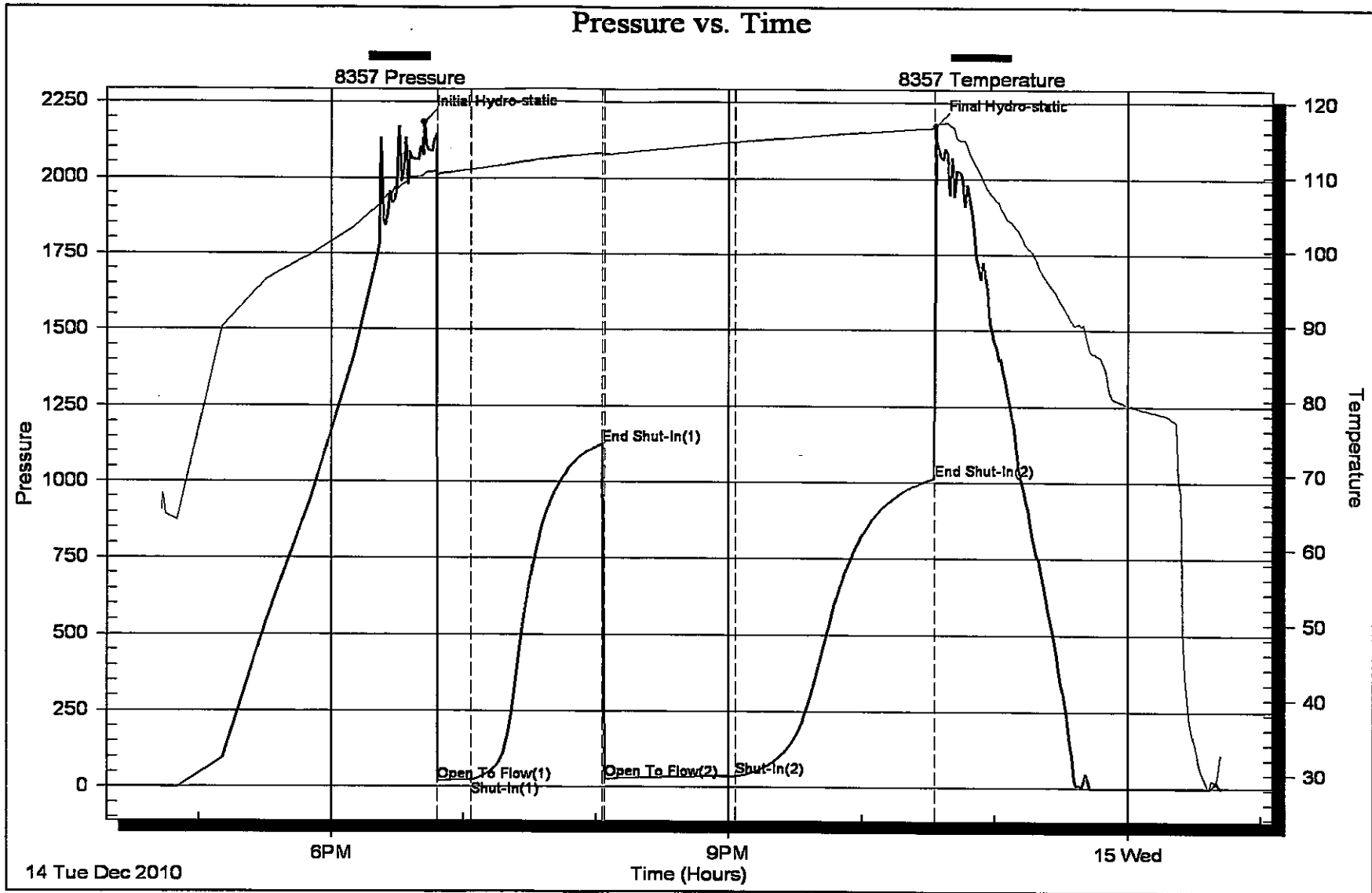
| | | | |
|----------------------------------|----------------------------|-----------------|-----------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | 0 deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | 0 ppm |
| Viscosity: 52.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 6.78 in ³ | Gas Cushion Type: | | |
| Resistivity: 0.00 ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 1800.00 ppm | | | |
| Filter Cake: 2.00 inches | | | |

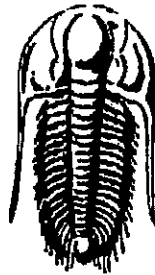
Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------|---------------|
| 20.00 | VSOCM 1o 99m | 0.098 |

Total Length: 20.00 ft Total Volume: 0.098 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water
Suite 300
Wichita, KS 67202

ATTN: Robert Hendrix

12-18s30w Lane, KS

Cramer-Sharp Unit 1-12X

Start Date: 2010.12.15 @ 13:05:00

End Date: 2010.12.15 @ 20:18:15

Job Ticket #: 040570 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Murfin Drilling Co Inc

Cramer-Sharp Unit 1-12X

12-18s30w Lane, KS

DST # 4

Cherokee/Johnson

2010.12.15



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Robert Hendrix

Cramer-Sharp Unit 1-12X

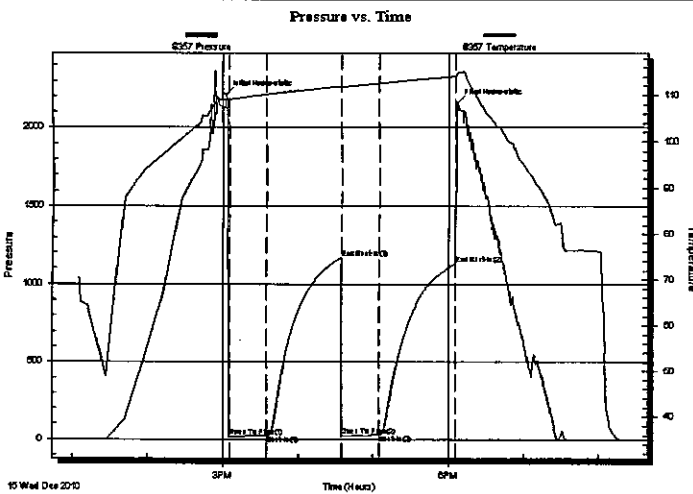
12-18s30w Lane, KS
Job Ticket: 040570 **DST#: 4**
Test Start: 2010.12.15 @ 13:05:00

GENERAL INFORMATION:

Formation: **Cherokee/Johnson**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 15:04:45
Time Test Ended: 20:18:15
Interval: **4470.00 ft (KB) To 4534.00 ft (KB) (TVD)**
Total Depth: **4534.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole**
Tester: **Chuck Smith**
Unit No: **37**
Reference Elevations: **2854.00 ft (KB)**
2843.00 ft (CF)
KB to GR/CF: **11.00 ft**

Serial #: 8357 **Inside**
Press@RunDepth: **26.40 psig @ 4474.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.12.15** End Date: **2010.12.15** Last Calib.: **2010.12.15**
Start Time: **13:05:05** End Time: **20:18:14** Time On Btm: **2010.12.15 @ 15:02:45**
Time Off Btm: **2010.12.15 @ 18:06:45**

TEST COMMENT: IF: 1/4" Blow, died @ 25 min.
IST: No return.
FF: No blow.
FSI: No return.



PRESSURE SUMMARY

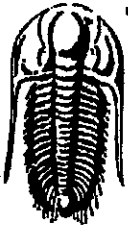
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2210.31 | 108.99 | Initial Hydro-static |
| 2 | 15.63 | 108.85 | Open To Flow (1) |
| 32 | 22.26 | 110.06 | Shut-In(1) |
| 93 | 1164.74 | 111.99 | End Shut-In(1) |
| 93 | 24.58 | 111.71 | Open To Flow (2) |
| 123 | 26.40 | 112.59 | Shut-In(2) |
| 183 | 1128.18 | 114.10 | End Shut-In(2) |
| 184 | 2156.21 | 114.85 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 5.00 | OSM 100m | 0.02 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Robert Hendrix

Cramer-Sharp Unit 1-12X

12-18s30w Lane, KS
Job Ticket: 040570 DST#: 4
Test Start: 2010.12.15 @ 13:05:00

Tool Information

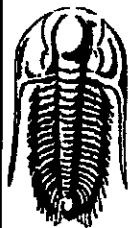
| | | | | |
|---------------------------|--------------------|-----------------------|-------------------|------------------------------------|
| Drill Pipe: | Length: 4222.00 ft | Diameter: 3.80 inches | Volume: 59.22 bbl | Tool Weight: 2200.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 248.00 ft | Diameter: 2.25 inches | Volume: 1.22 bbl | Weight to Pull Loose: 75000.00 lb |
| | | Total Volume: | 60.44 bbl | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 22.50 ft | | | String Weight: Initial 70000.00 lb |
| Depth to Top Packer: | 4470.00 ft | | | Final 70000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 64.00 ft | | | |
| Tool Length: | 86.50 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|------------------------------------|
| Change Over Sub | 1.00 | | | 4448.50 | |
| Shut In Tool | 5.00 | | | 4453.50 | |
| Hydraulic tool | 5.00 | | | 4458.50 | |
| Safety Joint | 2.50 | | | 4461.00 | |
| Packer | 5.00 | | | 4466.00 | 22.50 Bottom Of Top Packer |
| Packer | 4.00 | | | 4470.00 | |
| Stubb | 1.00 | | | 4471.00 | |
| Perforations | 3.00 | | | 4474.00 | |
| Recorder | 0.00 | 8357 | Inside | 4474.00 | |
| Recorder | 0.00 | 6751 | Outside | 4474.00 | |
| Perforations | 24.00 | | | 4498.00 | |
| Change Over Sub | 1.00 | | | 4499.00 | |
| Drill Pipe | 31.00 | | | 4530.00 | |
| Change Over Sub | 1.00 | | | 4531.00 | |
| Bullnose | 3.00 | | | 4534.00 | 64.00 Bottom Packers & Anchor |

Total Tool Length: 86.50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc
250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Robert Hendrix

Cramer-Sharp Unit 1-12X
12-18s30w Lane, KS
Job Ticket: 040570 DST#: 4
Test Start: 2010.12.15 @ 13:05:00

Mud and Cushion Information

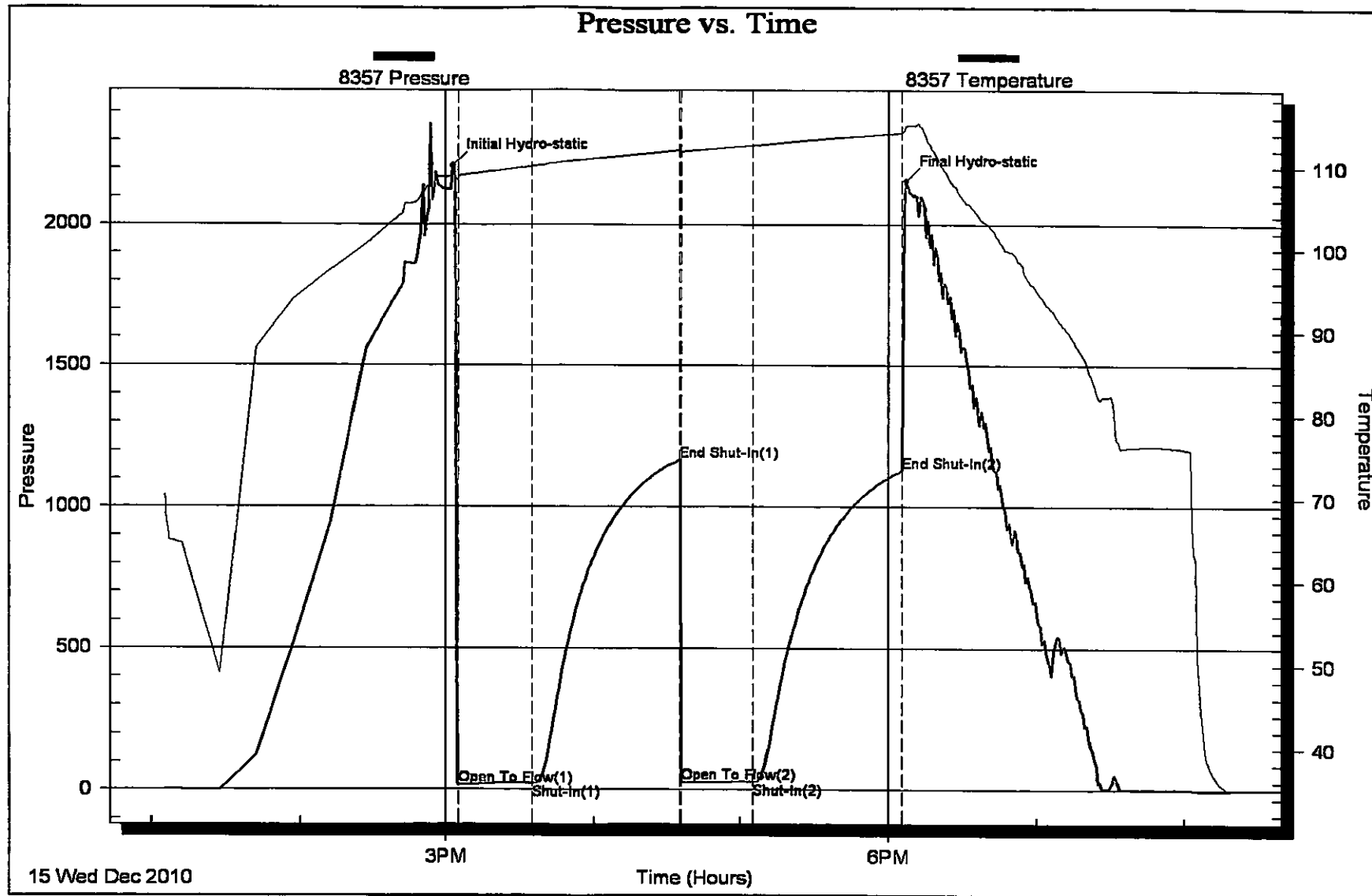
| | | | |
|----------------------------------|----------------------------|-----------------|-----------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | 0 deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | 0 ppm |
| Viscosity: 49.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 6.79 in ³ | Gas Cushion Type: | | |
| Resistivity: 0.00 ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 1800.00 ppm | | | |
| Filter Cake: 2.00 inches | | | |

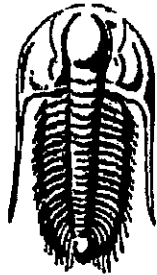
Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 5.00 | OSM 100m | 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:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N. Water
Suite 300
Wichita, KS 67202

ATTN: Robert Hendrix

12-18s30w Lane, KS

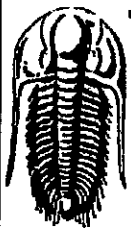
Cramer-Sharp Unit 1-12X

Start Date: 2010.12.16 @ 08:07:00

End Date: 2010.12.16 @ 16:36:30

Job Ticket #: 040571 DST #: 5

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

Cramer-Sharp Unit 1-12X

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Robert Hendrix

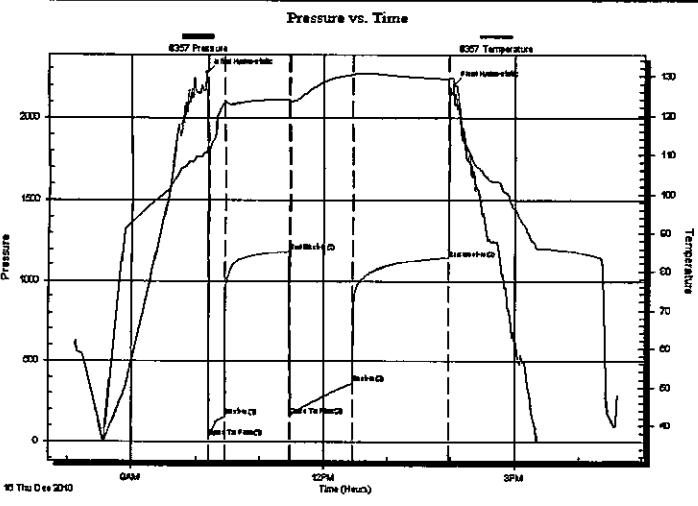
12-18s30w Lane, KS
Job Ticket: 040571 DST#: 5
Test Start: 2010.12.16 @ 08:07:00

GENERAL INFORMATION:

| | |
|--|---------------------------------------|
| Formation: Miss. Dolom ite | Test Type: Conventional Bottom Hole |
| Deviated: No Whipstock ft (KB) | Tester: Chuck Smith |
| Time Tool Opened: 10:11:45 | Unit No: 37 |
| Time Test Ended: 16:36:30 | |
| Interval: 4575.00 ft (KB) To 4608.00 ft (KB) (TVD) | Reference Elevations: 2854.00 ft (KB) |
| Total Depth: 4608.00 ft (KB) (TVD) | 2843.00 ft (CF) |
| Hole Diameter: 7.88 inches | Hole Condition: Good |
| | KB to GR/CF: 11.00 ft |

| | |
|--|-------------------------------------|
| Serial #: 8357 Inside | Capacity: 8000.00 psig |
| Press@RunDepth: 363.29 psig @ 4579.00 ft (KB) | Last Calib.: 2010.12.16 |
| Start Date: 2010.12.16 End Date: 2010.12.16 | Time On Btm: 2010.12.16 @ 10:10:15 |
| Start Time: 08:07:05 End Time: 16:36:29 | Time Off Btm: 2010.12.16 @ 14:02:45 |

TEST COMMENT: IF: B.O.B. @ 10 1/2 min.
IS: No return.
FF: B.O.B. @ 12 1/2min.
FS: No return.



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2272.86 | 111.16 | Initial Hydro-static |
| 2 | 28.93 | 111.04 | Open To Flow (1) |
| 17 | 157.37 | 123.37 | Shut-In(1) |
| 78 | 1183.43 | 123.99 | End Shut-In(1) |
| 78 | 166.99 | 123.65 | Open To Flow (2) |
| 138 | 363.29 | 130.40 | Shut-In(2) |
| 228 | 1140.96 | 129.25 | End Shut-In(2) |
| 233 | 2202.63 | 129.15 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------------|--------------|
| 558.00 | OSMW 10m 90w Popping Gas | 5.57 |
| 124.00 | OCMW 5o 25m 70w | 1.74 |
| 107.00 | OCWM 15o 15w 70m | 1.50 |
| 10.00 | FO 100o | 0.14 |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

Cramer-Sharp Unit 1-12X

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Robert Hendrix

12-18s30w Lane, KS
Job Ticket: 040571 DST#: 5
Test Start: 2010.12.16 @ 08:07:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4315.00 ft | Diameter: 3.80 inches | Volume: 60.53 bbl | Tool Weight: 2200.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 248.00 ft | Diameter: 2.25 inches | Volume: 1.22 bbl | Weight to Pull Loose: 80000.00 lb |
| | | | Total Volume: 61.75 bbl | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 10.50 ft | | | String Weight: Initial 70000.00 lb |
| Depth to Top Packer: | 4575.00 ft | | | Final 73000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 33.00 ft | | | |
| Tool Length: | 55.50 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 | | | 4553.50 | |
| Shut In Tool | 5.00 | | | 4558.50 | |
| Hydraulic tool | 5.00 | | | 4563.50 | |
| Safety Joint | 2.50 | | | 4566.00 | |
| Packer | 5.00 | | | 4571.00 | 22.50 Bottom Of Top Packer |
| Packer | 4.00 | | | 4575.00 | |
| Stubb | 1.00 | | | 4576.00 | |
| Perforations | 3.00 | | | 4579.00 | |
| Recorder | 0.00 | 8357 | Inside | 4579.00 | |
| Recorder | 0.00 | 6751 | Outside | 4579.00 | |
| Perforations | 26.00 | | | 4605.00 | |
| Bullnose | 3.00 | | | 4608.00 | 33.00 Bottom Packers & Anchor |

Total Tool Length: 55.50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

Cramer-Sharp Unit 1-12X

250 N. Water
Suite 300
Wichita, KS 67202
ATTN: Robert Hendrix

12-18s30w Lane, KS
Job Ticket: 040571 DST#: 5
Test Start: 2010.12.16 @ 08:07:00

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: | 24000 ppm |
| Viscosity: 55.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 7.60 in ³ | Gas Cushion Type: | | |
| Resistivity: 0.00 ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 1500.00 ppm | | | |
| Filter Cake: 2.00 inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------------------|---------------|
| 558.00 | OSMV 10m 90w Popping Gas | 5.568 |
| 124.00 | OCMV 5o 25m 70w | 1.739 |
| 107.00 | OCVM 15o 15w 70m | 1.501 |
| 10.00 | FO 100o | 0.140 |

Total Length: 799.00 ft Total Volume: 8.948 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW: .380 @ 54 degrees F

