

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1054897

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

## WELL COMPLETION FORM

#### WELL HISTORY - DESCRIPTION OF WELL & LEASE

| OPERATOR: License #  |                                      | API No. 15                      |  |
|--|--------------------------------------|---------------------------------|--|
| Name:  |                                      | Spot Description:               |  |
| Address 1:   |                                      | Sec                             | TwpS. R 🗌 East 🗌 West                  |
| Address 2:   |                                      | Fe                              | eet from North / South Line of Section |
| City: State: Zip:  | +                                    | Fe                              | eet from East / West Line of Section   |
| Contact Person:  |                                      | Footages Calculated from I      | Nearest Outside Section Corner:        |
| Phone: ()  |                                      |                                 |  |
| CONTRACTOR: License #  |                                      |                                 |  |
| Name:  |                                      |                                 | Well #:                                |
| Wellsite Geologist:  |                                      |                                 | vven #                                 |
| -  |                                      |                                 |  |
| Purchaser:   |                                      |                                 |  |
| Designate Type of Completion:  | <b>-</b>                             |                                 | Kelly Bushing:                         |
| New Well Re-Entry  | Workover                             | Total Depth: Plu                | ug Back Total Depth:                   |
| Oil WSW SWD  | SIOW                                 | Amount of Surface Pipe Se       | et and Cemented at: Feet               |
| Gas D&A ENHR   | SIGW                                 | Multiple Stage Cementing        | Collar Used? 🗌 Yes 🗌 No                |
| ☐ OG ☐ GSW   | Temp. Abd.                           | If yes, show depth set:         | Feet                                   |
| CM (Coal Bed Methane)  |                                      | If Alternate II completion, c   | ement circulated from:                 |
| Cathodic Other (Core, Expl., etc.):  |                                      | feet depth to:                  | w/sx cmt.                              |
| If Workover/Re-entry: Old Well Info as follows:  |                                      |                                 |  |
| Operator:  |                                      | Drilling Fluid Managemer        | at Blan                                |
| Well Name:   |                                      | (Data must be collected from th |  |
| Original Comp. Date: Original Tota   | al Depth:                            | Oblarida contenti               | ppm Fluid volume: bbls                 |
| Deepening Re-perf. Conv. to E  | NHR Conv. to SWD                     |                                 |  |
| Conv. to G   | SW                                   | Dewatering method used: _       |  |
| Plug Back: Plug I Plug | Back Total Depth                     | Location of fluid disposal if   | hauled offsite:                        |
| Commingled Permit #:   |                                      | Operator Name                   |  |
| Dual Completion Permit #:  |                                      |                                 | License #:                             |
| SWD Permit #:  |                                      |                                 |  |
| ENHR Permit #:   |                                      |                                 | TwpS. R East West                      |
| GSW Permit #:  |                                      | County:                         | Permit #:                              |
|  | Completion Date or Recompletion Date |                                 |  |

#### AFFIDAVIT

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

#### Submitted Electronically

| KCC Office Use ONLY                |
|------------------------------------|
| Letter of Confidentiality Received |
| Date:                              |
| Confidential Release Date:         |
| Wireline Log Received              |
| Geologist Report Received          |
| UIC Distribution                   |
| ALT I II III Approved by: Date:    |

|                         | Side Two    | 1054897 |
|-------------------------|-------------|---------|
| Operator Name:          | Lease Name: | Well #: |
| Sec TwpS. R East _ West | County:     |         |
|                         |             |         |

**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<br>(Attach Additional She                                    | eets)                | Yes No                       | )                    | ☐ Log<br>Name | Formatior          | n (Top), Depth an |                 | Sample                        |
|---|----------------------|------------------------------|----------------------|---------------|--------------------|-------------------|-----------------|-------------------------------|
| Samples Sent to Geolog  | gical Survey         | Yes No                       | )                    | Name          |                    |                   | Тор             | Datum                         |
| Cores Taken<br>Electric Log Run<br>Electric Log Submitted B<br>(If no, Submit Copy) | Electronically       | Yes No<br>Yes No<br>Yes No   | >                    |               |                    |                   |                 |                               |
| List All E. Logs Run:   |                      |                              |                      |               |                    |                   |                 |                               |
|   |                      | CAS                          | ING RECORD           | New           | Used               |                   |                 |                               |
|   |                      | Report all strings           | set-conductor, surfa | ace, interm   | nediate, productio | on, etc.          |                 |                               |
| Purpose of String   | Size Hole<br>Drilled | Size Casing<br>Set (In O.D.) | Weight<br>Lbs. / F   |               | Setting<br>Depth   | Type of<br>Cement | # Sacks<br>Used | Type and Percent<br>Additives |
|   |                      |                              |                      |               |                    |                   |                 |                               |

#### ADDITIONAL CEMENTING / SQUEEZE RECORD

| Purpose:<br>Perforate       | Depth<br>Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
|-----------------------------|---------------------|----------------|--------------|----------------------------|
| Protect Casing Plug Back TD |                     |                |              |                            |
| Plug Off Zone               |                     |                |              |                            |

| Shots Per Foot                       |        | PERFORATION<br>Specify Fo |            | RD - Bridge F<br>Each Interval |          | e                  | ,        |                              | ement Squeeze Record<br>I of Material Used) | Depth   |
|--------------------------------------|--------|---------------------------|------------|--------------------------------|----------|--------------------|----------|------------------------------|---|---------|
|                                      |        |                           |            |                                |          |                    |          |                              |   |         |
|                                      |        |                           |            |                                |          |                    |          |                              |   |         |
|                                      |        |                           |            |                                |          |                    |          |                              |   |         |
|                                      |        |                           |            |                                |          |                    |          |                              |   |         |
|                                      |        |                           |            |                                |          |                    |          |                              |   |         |
| TUBING RECORD:                       | Siz    | ze:                       | Set At:    |                                | Packer   | At:                | Liner R  | un:                          | No  |         |
| Date of First, Resumed Pr            | oduct  | on, SWD or ENH            | <i>₹</i> . | Producing N                    |          | oing               | Gas Lift | Other (Explain)              |   |         |
| Estimated Production<br>Per 24 Hours |        | Oil Bb                    | ls.        | Gas                            | Mcf      | Wate               | ər       | Bbls.                        | Gas-Oil Ratio                               | Gravity |
|                                      |        |                           |            |                                |          |                    |          |                              | 1   |         |
| DISPOSITION                          | OF     | BAS:                      |            |                                | METHOD ( | OF COMPLE          | TION:    |                              | PRODUCTION INTE                             | RVAL:   |
| Vented Sold                          |        | Jsed on Lease             |            | Open Hole                      | Perf.    | Dually<br>(Submit) |          | Commingled<br>(Submit ACO-4) |   |         |
| (If vented, Subm                     | it ACC | -18.)                     |            | Other (Specify                 | )        |                    |          |                              |   |         |

| Form      | ACO1 - Well Completion |
|-----------|------------------------|
| Operator  | Baird Oil Company LLC  |
| Well Name | Sides/Anna Unit 1-3    |
| Doc ID    | 1054897                |

Tops

| Name             | Тор  | Datum |
|------------------|------|-------|
| Anhydrite        | 1876 | +349  |
| Base Anhydrite   | 1903 | +322  |
| Topeka           | 3217 | -992  |
| Heebner          | 3418 | -1193 |
| Toronto          | 3443 | -1218 |
| Lansing          | 3458 | -1233 |
| Base Kansas City | 3647 | -1422 |
| Marmaton         | 3683 | -1458 |
| Precambrian      | 3718 | -1493 |
| Total Depth      | 3731 | -1506 |

Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802

Thomas E. Wright, Chairman Ward Loyd, Commissioner



phone: 316-337-6200 fax: 316-337-6211 http://kcc.ks.gov/

Corporation Commission

Sam Brownback, Governor

April 28, 2011

Jim R. Baird Baird Oil Company LLC 113 W MAIN PO BOX 428 LOGAN, KS 67646

Re: ACO1 API 15-137-20553-00-00 Sides/Anna Unit 1-3 NE/4 Sec.03-04S-21W

Dear Production Department:

Norton County, Kansas

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

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

Respectfully, Jim R. Baird



# DRILL STEM TEST REPORT

Prepared For:

For: Baird Oil Company, LLC.

Service Service

Ser Busin R

113 W Main Logan, KS 67646

ATTN: Richard Bell

3-4s-21w Norton, KS

#### Sides/Anna Unit #1-3

 Start Date:
 2011.04.11 @ 19:27:00

 End Date:
 2011.04.12 @ 03:03:00

 Job Ticket #:
 041986
 DST #:
 1

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

2011.04.11

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**DST** # 1

|   |  |  |   | •                      |   |   |   |  | 20 Contra<br>20 Contra<br>2 Contra |
|---|--|--|---|------------------------|---|---|---|--|------------------------------------|
| (ON   | RILOBITE   | DRILL S                                | TEM TES   |                        |   |   |   |  |                                    |
| 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | In succession of the second se | Baird Oil Compa                        | ny, LLC.  |                        | Si  | des/Anr   | na Unit #1·   | -3   |                                    |
|   | ESTING , INC   | 113 W Main<br>Logan, KS 6764           | 46  |                        |   | <b>4s-21w I</b><br>o Ticket: 0  | Norton, KS  | B<br>DST#:   | 1                                  |
|   | 0  | ATTN: Richard                          | Bell  |                        |   |   | 011.04.11 @   |  |                                    |
| GENERAL   | INFORMATION:   |  |   |                        |   |   |   |  |                                    |
| Formation:<br>Deviated:<br>Time Tool Ope  | LKC "A"<br>No Whipstock:<br>ened: 22:18:00<br>Jed: 03:03:00  | ft (KB                                 | )   |                        | Tes   | st Type:<br>ster:<br>it No:   | Conventiona<br>Kevin Mack<br>46   | al Bottom Ho                                       | le                                 |
| Interval:<br>Total Depth:<br>Hole Diameter  | 3449.00 ft (KB) To 34<br>3472.00 ft (KB) (Th<br>7.88 inchesHole  |  |   |                        | Ret   | ference E<br>KB   | levations:<br>to GR/CF:   | 2225.00<br>2216.00<br>9.00                         | ft (CF)                            |
| Serial #: 8<br>Press@RunD<br>Start Date:<br>Start Time:                                     |  | @ 3450.00 ft<br>End Date:<br>End Time: | (KB)  | 2011.04.12<br>03:02:59 | Capacity<br>Last Cal<br>Time On<br>Time Off   | ib.:<br>Btm:  | 2011.04.11 (<br>2011.04.12 (  |  | psig                               |
| TEST COM  | MENT: IF:BOB in 7 1/2 N<br>IS: Return built to<br>FF: BOB in 6 3/4<br>FS: Return built to  | 2"<br>Min                              |   |                        |   |   |   |  |                                    |
|   | Pressure vs. T   |  |   |                        | P   | RESSU   | RE SUMM   | ARY  |                                    |
| 1720<br>1220<br>1220<br>720<br>220<br>220<br>11 Mon Apr 2011                                | 005 Pressue  |  | Temponau<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |                        | Pressure<br>(psig)<br>1711.70<br>19.90<br>86.68<br>1267.92<br>95.34<br>133.44<br>1250.84<br>1675.41 | Temp<br>(deg F)<br>94.96<br>94.51<br>98.14<br>99.24<br>98.59<br>99.61<br>100.15 | Annotatio<br>Initial Hydro<br>Open To Fl<br>Shut-In(1)<br>End Shut-Ir<br>Open To Fl<br>Shut-In(2) | on<br>o-static<br>ow (1)<br>n(1)<br>ow (2)<br>n(2) |                                    |
| <b></b>   | Recovery   |  |   |                        |   | Ga  | s Rates   |  |                                    |
| Length (ft)   | Description  |  | ume (bbl)   |                        |   | Choke (i  | nches) Pressur  | e (psig) Gas                                       | s Rate (Mct/d)                     |
| 121.00  | GMCO 20M 30G 500<br>Clean Gassy Oil 25G 750  | 0.6                                    |   |                        |   |   |   |  |                                    |
| 0.00  | 682' GIP   | 1.4                                    |   |                        |   |   |   |  |                                    |
|   |  | 5.0                                    |   |                        |   |   |   |  |                                    |
|   |  |  |   |                        |   |   |   |  |                                    |
|   |  |  |   |                        |   |   |   |  |                                    |
| Trilobite Tes   | ting Inc   | Ref No: 0/                             | 11000   |                        |   |   |   |  |                                    |

| RILOE                              |               | DRI       | LL STE        | MTEST         | REPOR     | T.               | TOOL DIAGRA                              |
|------------------------------------|---------------|-----------|---------------|---------------|-----------|------------------|--|
|                                    |               | Baird O   | il Company, I | LC.           | ali yasaa | Sides/Anna l     | Jnit #1-3                                |
| EST                                | ING , INC     | 113 WI    | Main          |               | 2         | 3-4s-21w Nor     | ton KS                                   |
|                                    |               |           | KS 67646      | *1-123<br>    |           | Job Ticket: 0419 |  |
| 15.0                               |               |           | Richard Bell  |               |           |                  |  |
|                                    |               | ATTN.     | Richard Bell  |               |           | Test Start: 2011 | .04.11 @ 19:27:00                        |
| Tool Information                   | •             |           |               |               |           |                  |  |
| Drill Pipe: Length:                | 3325.00 ft    | Diameter: | 3.80 in       | ches Volume:  | 46.64 bbl | Tool Weight:     | 2000.00 lb                               |
| Heavy Wt. Pipe: Length:            |               | Diameter: |               | ches Volume:  | 0.00 bbl  |                  | Packer: 25000.00 lb                      |
| Drill Collar: Length:              | 120.00 ft     | Diameter: |               | ches Volume:  | 0.59 bbl  |                  | Loose: 48000.00 lb                       |
| Drill Pipe Above KB:               | 16.00 ft      |           |               | Total Volume: | 47.23 bbl | Tool Chased      | 0.00 ft                                  |
| Depth to Top Packer:               | 3449.00 ft    |           |               |               |           | String Weight:   | initial 42000.00 lb<br>Final 44000.00 lb |
| Depth to Bottom Packer:            | ft            |           |               |               |           |                  | 1111al 44000.00 lb                       |
| Interval between Packers:          | 23.00 ft      |           |               |               |           |                  |  |
| Tool Length:<br>Number of Packers: | 43.00 ft<br>2 | Diameter: | 6.75 in       | ahaa          |           |                  |  |
| Tool Comments:                     | 2             | Diameter. | 0.75 11       | cnes          |           |                  |  |
| Tool Description<br>Shut In Tool   |               | 5.00      | Serial No.    | Position      | 3434.00   | ccum. Lengths    |  |
| Hydraulic tool                     |               | 5.00      |               |               | 3439.00   |                  |  |
| Packer                             |               | 5.00      |               |               | 3444.00   | 20.00            | Bottom Of Top Packer                     |
| Packer                             |               | 5.00      |               |               | 3449.00   |                  |  |
| Stubb                              |               | 1.00      |               |               | 3450.00   |                  |  |
| Recorder                           |               | 0.00      | 8366          | Inside        | 3450.00   |                  |  |
| Recorder                           |               | 0.00      | 8320          | Outside       | 3450.00   |                  |  |
| Perforations                       |               | 19.00     |               |               | 3469.00   |                  |  |
| Bullnose                           |               | 3.00      |               |               | 3472.00   | 23.00            | Bottom Packers & Anchor                  |
| Total Tool                         | Length:       | 43.00     |               |               |           |                  |  |
|                                    |               |           |               |               |           |                  |  |
|                                    |               |           |               |               |           |                  |  |
|                                    |               |           |               |               |           |                  |  |
|                                    |               |           |               |               |           |                  |  |
|                                    |               |           |               |               |           |                  |  |
|                                    |               |           |               |               |           |                  |  |
|                                    |               |           |               |               |           |                  |  |
|                                    |               |           |               |               |           |                  |  |
|                                    |               |           |               |               |           |                  |  |
|                                    |               |           |               |               |           | -                |  |
|                                    |               |           |               |               |           |                  |  |
|                                    |               |           |               |               |           |                  |  |

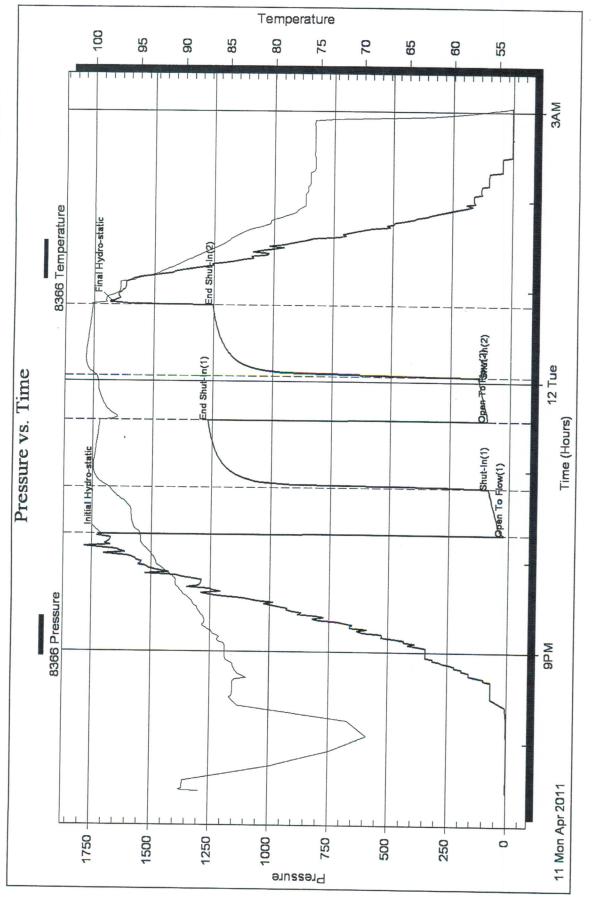
| RILOBIT  |  | STEM TEST REP   | ORT            |   | FLUID                        | SUMMARY           |
|--|--|---|----------------|---|------------------------------|-------------------|
|  | Dalla Oll                              | Company, LLC.   | Side           | asi Anna V  | Unit #1-3                    |                   |
| ESTI   | _                                      | Wain<br>KS 67646<br>Richard Bell  | Jol            | <b>S-21w No</b><br>Ticket: 04 <sup>-</sup><br>st Start: 20 <sup>-</sup> |                              | ST#: 1<br>(:00    |
| Mud and Cushion Info   | ormation                               |   |                |   |                              |                   |
| Mud Type: Gel Chem<br>Mud Weight: 9.00 l<br>Viscosity: 69.00 s<br>Water Loss: 6.38 i<br>Resistivity: 0.00 s<br>Salinity: 1800.00 s | lb/gal<br>sec/qt<br>in³<br>ohm.m       | Cushion Type:<br>Cushion Length:<br>Cushion Volume:<br>Gas Cushion Type:<br>Gas Cushion Pressure: | ft<br>bb<br>ps | V   | Dil A PI:<br>Nater Salinity: | 40 deg API<br>ppm |
| Recovery Information   | n                                      |   |                |   |                              |                   |
|  |  | Recovery Table  |                |   |                              |                   |
|  | Length<br>ft                           | Description   |                | Volume<br>bbl   |                              |                   |
|  | 121.00                                 | GMCO 20M 30G 500  |                | 0.604   |                              |                   |
|  | 101.00                                 | Clean Gassy Oil 25G 75o   |                | 1.417<br>0.000  |                              |                   |
|  | 0.00                                   | 682' GIP<br>2.00 ft Total Volume:   | 2.021 bbl      | 0.000   |                              |                   |
| . N  | um Fluid Samples: 0<br>aboratory Name: | 2.00 ft Total Volume:<br>Num Gas Bombs:<br>Laboratory Location:<br>Nil API 38 @ 40 Degrees= 40    | 0              | Serial #:   |                              |                   |
|  |  |   |                |   |                              |                   |



Baird Oil Company, LLC.

3-4s-21w Norton, KS

DST Test Number: 1



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Ref. No: 041986



## DRILL STEM TEST REPORT

Prepared For: Baird Oil Company, LLC.

1. Wrater

AND BALL

113 W Main Logan, KS 67646

ATTN: Richard Bell

3-4s-21w Norton, KS

Sides/Anna Unit #1-3

Start Date: 2011.04.12 @ 09:14:00 End Date: 2011.04.12 @ 14:45:30 Job Ticket #: 041987 DST #: 2

Trilobite Testing, Inc PO Box 1733 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620 2011.04.12

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**DST # 2** 

|  | DRILL STEM TE  | S       | REPC  | RT   |  |   |   |                 |
|--|--|---------|---|--|--|---|---|-----------------|
| RILOBITE   | Baird Oil Company, LLC.  |         |   | Side   | es/Anna  | Unit #1-3   |   |                 |
| ESTING , I   | 113 W Main<br>Logan, KS 67646<br>ATTN: Richard Bell                              |         |   | Job 7  | Ticket: 041  | 987<br>1.04.12 @ 0  | <b>DST#:2</b><br>9:14:00                |                 |
|  |  |         |   |  |  |   |   |                 |
| GENERAL INFORMATION:<br>Formation: LKC "C"<br>Deviated: No Whipston<br>Time Tool Opened: 10:35:00<br>Time Test Ended: 14:45:30 | k: ft (KB)<br>3502.00 ft (KB) (TVD)  |         |   | Test<br>Unit   | er: K  | -   | 3ottom Hole<br>2225.00                  |                 |
| Total Depth: 3502.00 ft (KB  |  |         |   |  |  | GR/CF:  | 2216.00<br>9.00                         |                 |
| FF: BOB in   | 12 End Date:<br>05 End Time:<br>9 min.<br>eturn started @ 3 min. Did not build ( | or d    | 2011.04.12<br>14:45:29<br>lie                                   | Capacity:<br>Last Calit<br>Time On I<br>Time Off   | o.:<br>Btm: 2  | 20<br>011.04.12 @<br>2011.04.12 @   |   | psig            |
| Pressi   | vs. Time   |         |   | PF   | RESSUR   | E SUMMA   | RY                                      |                 |
|  |  | o o o y | Time<br>(Min.)<br>0<br>1<br>31<br>77<br>77<br>107<br>152<br>154 | Pressure<br>(psig)<br>1728.86<br>16.28<br>64.54<br>1255.38<br>68.58<br>88.85<br>1234.95<br>1696.87 | Temp<br>(deg F)<br>91.86<br>91.43<br>93.89<br>95.19<br>94.72 | Annotation<br>Initial Hydro-<br>Open To Flo<br>Shut-In(1)<br>End Shut-In(2)<br>End Shut-In(2)<br>End Shut-In(2) | -static<br>w (1)<br>(1)<br>w (2)<br>(2) |                 |
| Recove   | У  |         |   |  |  | s Rates   |   |                 |
| Length (ft) Descripti  |  |         |   |  | Choke (  | inches) Pressure  | e (psig) G                              | as Rate (Mcf/d) |
| 60.00 GMCO 30G 50o 20  |  |         |   |  |  |   |   |                 |
| 60.00 GMCO 50G 40o 10  |  |         |   |  |  |   |   |                 |
| 62.00 GMCO 20G 70o 10<br>31.00 MCO 75o 25M   | 0.43   |         |   |  |  |   |   |                 |
| Trilobite Testing, Inc   | Ref. No: 041987  |         |   |  | Printed  | 2011.04.26  | @ 21:32:0                               | 8 Page 2        |

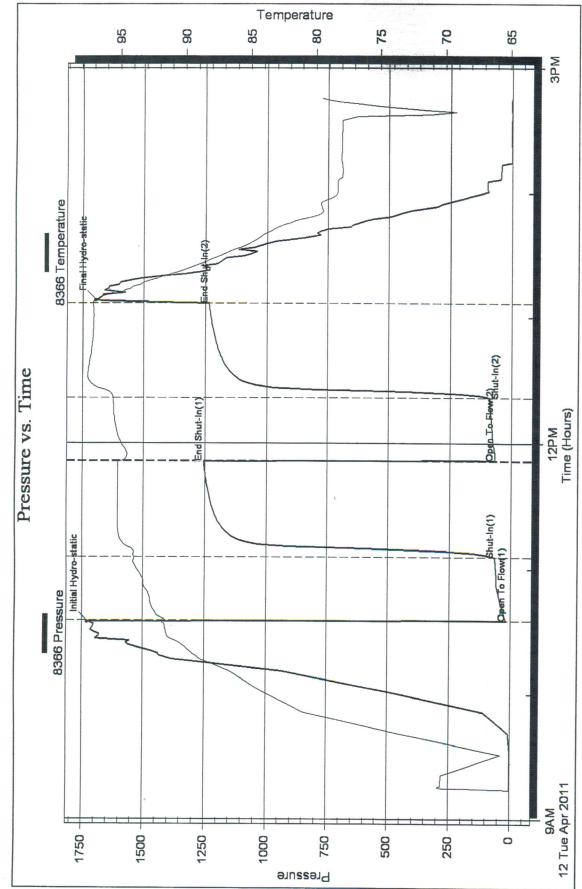
| RILOB   |   | ILL STEM                                 | TEST                                 | REPO  | RT  | TOOL DIAGRA                              |
|---|---|--|--------------------------------------|---|---|--|
|   | Baird   | Oil Company, LLC.                        |                                      | rus station   | Sides/Anna Unit #   | <b>#1-3</b>                              |
| ESTI  |   | / Main<br>, KS 67646<br>Richard Bell     |                                      |   | <b>3-4s-21w Norton,</b> I<br>Job Ticket: 041987<br>Test Start: 2011.04.12 | DST#:2                                   |
| Tool Information  |   |  |                                      |   |   |  |
| Heavy Wt. Pipe: Length:<br>Drill Collar: Length:<br>Drill Pipe Above KB:                            | 3354.00 ft Diameter<br>0.00 ft Diameter<br>120.00 ft Diameter<br>17.00 ft<br>3477.00 ft<br>ft<br>25.00 ft<br>45.00 ft<br>2 Diameter | :: 0.00 inches<br>:: 2.25 inches<br>Tota | s Volume:<br>s Volume:<br>al Volume: | 47.05 bb<br>0.00 bb<br>0.59 bb<br>47.64 bb  | Weight set on Packe   | e: 50000.00 lb<br>0.00 ft<br>42000.00 lb |
|   |   |  |                                      |   |   |  |
| Fool Description  | Length (ft)   | Serial No. Po                            | osition                              | Depth (ft)  | Accum. Lengths  |  |
| Shut In Tool  | Length (ft)<br>5.00   | Serial No. Po                            | osition                              | Depth (ft)<br>3462.00   | Accum. Lengths  |  |
| Shut In Tool<br>Hydraulic tool  | 5.00<br>5.00  | Serial No. Po                            | osition                              | 3462.00<br>3467.00  |   |  |
| Shut In Tool<br>Hydraulic tool<br>Packer  | 5.00<br>5.00<br>5.00  | Serial No. Po                            | osition                              | 3462.00<br>3467.00<br>3472.00   | Accum. Lengths<br>20.00   | Bottom Of Top Packe                      |
| Shut In Tool<br>Hydraulic tool<br>Packer<br>Packer  | 5.00<br>5.00<br>5.00<br>5.00  | Serial No. Po                            | osition                              | 3462.00<br>3467.00<br>3472.00<br>3477.00  |   | Bottom Of Top Packe                      |
| Shut In Tool<br>Hydraulic tool<br>Packer<br>Packer<br>Stubb   | 5.00<br>5.00<br>5.00<br>5.00<br>1.00  |  |                                      | 3462.00<br>3467.00<br>3472.00<br>3477.00<br>3478.00   |   | Bottom Of Top Packe                      |
| Shut In Tool<br>Hydraulic tool<br>Packer<br>Packer<br>Stubb<br>Recorder                             | 5.00<br>5.00<br>5.00<br>5.00<br>1.00<br>0.00  | 8366                                     | Inside                               | 3462.00<br>3467.00<br>3472.00<br>3477.00<br>3478.00<br>3478.00                                  |   | Bottom Of Top Packe                      |
| Shut In Tool<br>Hydraulic tool<br>Packer<br>Packer<br>Stubb<br>Recorder<br>Recorder                 | 5.00<br>5.00<br>5.00<br>5.00<br>1.00<br>0.00<br>0.00  |  |                                      | 3462.00<br>3467.00<br>3472.00<br>3477.00<br>3478.00<br>3478.00<br>3478.00                       |   | Bottom Of Top Packe                      |
| Shut In Tool<br>Hydraulic tool<br>Packer<br>Packer<br>Stubb<br>Recorder<br>Recorder<br>Perforations | 5.00<br>5.00<br>5.00<br>5.00<br>1.00<br>0.00<br>0.00<br>21.00   | 8366                                     | Inside                               | 3462.00<br>3467.00<br>3472.00<br>3477.00<br>3478.00<br>3478.00<br>3478.00<br>3478.00<br>3499.00 | 20.00   | Bottom Of Top Packe                      |
| Shut In Tool<br>Hydraulic tool<br>Packer<br>Packer<br>Stubb<br>Recorder<br>Recorder                 | 5.00<br>5.00<br>5.00<br>5.00<br>1.00<br>0.00<br>0.00<br>21.00<br>3.00   | 8366                                     | Inside                               | 3462.00<br>3467.00<br>3472.00<br>3477.00<br>3478.00<br>3478.00<br>3478.00                       | 20.00   | Bottom Of Top Packer                     |

| as.                       |                        |          | DRI     | LL STEM TEST RE                            | EPORT     |        |            | F              |        | JMMARY  |
|---------------------------|------------------------|----------|---------|--|-----------|--------|------------|----------------|--------|---------|
|                           | RILOBITE               | F        |         | il Company, LLC.                           |           |        | Anna       | Unit #1-3      |        |         |
| が                         | ESTING                 |          |         |  |           |        |            |                | 3      |         |
|                           | EOTING                 | , 1140   | 113 WI  | Main<br>KS 67646                           |           |        |            | rton, KS       |        |         |
|                           |                        |          | Logan,  | K3 07040                                   |           |        | ket: 0419  |                | DST#:2 |         |
| And applied               |                        |          | ATTN:   | Richard Bell                               |           | Test S | tart: 2011 | 1.04.12 @ 09:  | 14:00  |         |
| Mud and (                 | Cushion Informa        | ation    |         |  |           |        |            |                |        |         |
| Mud Type:                 | Gel Chem               |          |         | Cushion Type:                              |           |        |            | API:           |        | deg API |
| Mud Weight:               | 9.00 lb/gal            |          |         | Cushion Length:                            |           | ft     | Wa         | ater Salinity: |        | ppm     |
| Viscosity:                | 61.00 sec/q            | t        |         | Cushion Volume:                            |           | bbl    |            |                |        |         |
| Water Loss:               | 6.39 in³<br>0.00 ohm.n | ~        |         | Gas Cushion Type:<br>Gas Cushion Pressure: |           | psig   |            |                |        |         |
| Resistivity:<br>Salinity: | 1600.00 ppm            | n        |         | Gas Gustion Tressure.                      |           | polg   |            |                |        |         |
| Filter Cake:              | 2.00 inche             | s        |         |  |           |        |            |                |        |         |
| Recovery                  | Information            |          |         |  |           |        |            |                |        |         |
|                           |                        |          |         | Recovery Table                             |           |        |            |                |        |         |
|                           |                        | Lengt    | th      | Description                                |           |        | ume<br>bl  |                |        |         |
|                           |                        | ft       | 60.00   | GMCO 30G 50o 20M                           |           |        | 0.295      |                |        |         |
|                           |                        |          | 60.00   | GMCO 50G 40o 10M                           |           |        | 0.295      |                |        |         |
|                           |                        |          | 62.00   | GMCO 20G 70o 10M                           |           |        | 0.870      |                |        |         |
|                           |                        |          | 31.00   | MCO 750 25M                                |           |        | 0.435      |                |        |         |
|                           | Total Le               | ength:   | 213     | .00 ft Total Volume:                       | 1.895 bbl |        |            |                |        |         |
|                           | Num Flu                | uid Samp | oles: 0 | Num Gas Bombs:                             | 0         | 5      | Serial #:  |                |        |         |
|                           | Laborat                | tory Nan | ne:     | Laboratory Location:                       |           |        |            |                |        |         |
|                           | Recove                 | ery Comr | ments:  |  |           |        |            |                |        |         |
|                           |                        |          |         |  |           |        |            |                |        |         |
|                           |                        |          |         |  |           |        |            |                |        |         |
|                           |                        |          |         |  |           |        |            |                |        |         |
|                           |                        |          |         |  |           |        |            |                |        |         |
|                           |                        |          |         |  |           |        |            |                |        |         |
|                           |                        |          |         |  |           |        |            |                |        |         |
|                           |                        |          |         |  |           |        |            |                |        |         |
|                           |                        |          |         |  |           |        |            |                |        | ×       |
|                           |                        |          |         |  |           |        |            |                |        |         |
|                           |                        |          |         |  |           |        |            |                |        |         |
|                           |                        |          |         |  |           |        |            |                |        |         |
|                           |                        |          |         |  |           |        |            |                |        |         |
|                           |                        |          |         |  |           |        |            |                |        |         |
|                           |                        |          |         |  |           |        |            |                |        |         |
|                           |                        |          |         |  |           |        |            |                |        |         |
|                           |                        |          |         |  |           |        |            |                |        |         |
|                           |                        |          |         |  |           |        |            |                |        |         |
|                           |                        |          |         |  |           |        |            |                |        |         |

Serial #: 8366 Inside Baird Oil Company, LLC.

3-4s-21w Norton, KS





Printed: 2011.04.26 @ 21:32:08 Page 5

Ref. No: 041987

C.L.L. (materia) Fig. gh

#A.Witt 10月 人。



## DRILL STEM TEST REPORT

Prepared For: Baird Oil Company, LLC.

113 W Main Logan, KS 67646

ATTN: Richard Bell

3-4s-21w Norton, KS

#### Sides/Anna Unit #1-3

Start Date: 2011.04.12 @ 21:35:09 End Date: 2011.04.14 @ 21:12:04 Job Ticket #: 041988 DST #: 3

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

| RILOBITE   | DRILL STEM TES<br>Baird Oil Company, LLC. |   |   | Anna Unit #1-  | 2   |
|--|---|---|---|--|---|
| ESTING , INC   |   |   |   |  |   |
|  | 113 W Main<br>Logan, KS 67646             |   |   | w Norton, KS<br>et: 041988   | DST#:3  |
|  | ATTN: Richard Bell                        |   | Test Star   | t: 2011.04.12 @  |   |
| SENERAL INFORMATION:   |   |   |   |  |   |
| ormation: LKC "D"<br>leviated: No Whipstock:<br>ime Tool Opened: 23:43:04<br>ime Test Ended: 21:12:04  | ft (KB)                                   |   | Test Typ<br>Tester:<br>Unit No:   | e: Conventiona<br>Kevin Mack<br>46   | Il Bottom Hole  |
| nterval: 3497.00 ft (KB) To 35<br>Fotal Depth: 3535.00 ft (KB) (The<br>Hole Diameter: 7.88 inchesHole  |   |   | Reference   | ce ⊟evations:<br>KB to GR/CF:  | 2225.00 ft (KB)<br>2216.00 ft (CF)<br>9.00 ft                     |
| Serial #:         8366         Inside           Press@RunDepth:         822.36 psig           Start Date:         2011.04.12   | @ 3498.00 ft (KB)<br>End Date:            | 2011.04.14  | Capacity:<br>Last Calib.:   |  | 8000.00 psig<br>2011.04.14  |
| Start Time: 21:35:09   | End Time:                                 | 21:12:04  | Time On Btm:<br>Time Off Btm  |  | @ 23:40:34<br>@ 02:21:34  |
| TEST COMMENT: IF: BOB in 45 se<br>IS:BOB in 19 mi<br>FF: BOBin 90 se<br>FS: BOB in 43 r  | nutes<br>econds<br>ninutes                |   |   |  |   |
| Pressure vs.   | Time<br>8300 Temperature                  | True  |   | SSURE SUM  |   |
| 100         11 |   | Time<br>(Min.)<br>0<br>3<br>19<br>65<br>66<br>110<br>160<br>161 | (psig) (d<br>1710.78<br>185.29<br>403.17<br>1266.42 1<br>429.63<br>822.36 | Temp     Annotation       leg F)     92.00     Initial Hyd       91.55     Open To       99.93     Shut-In(1       00.56     End Shut       99.71     Open To       99.61     Shut-In(2       99.95     End Shut       99.83     Final Hyd | Iro-static<br>Flow (1)<br>)<br>-In(1)<br>Flow (2)<br>?)<br>-In(2) |
| Recovery   |   |   |   | Gas Rates  |   |
| Length (ft)         Description           2400.00         oil  | Volume (bbl)<br>32.57                     |   |   | Choke (inches) Pres  | ssure (psig) Gas Rate (Mct/d                                      |
|  |   |   |   |  |   |
|  |   |   |   |  |   |

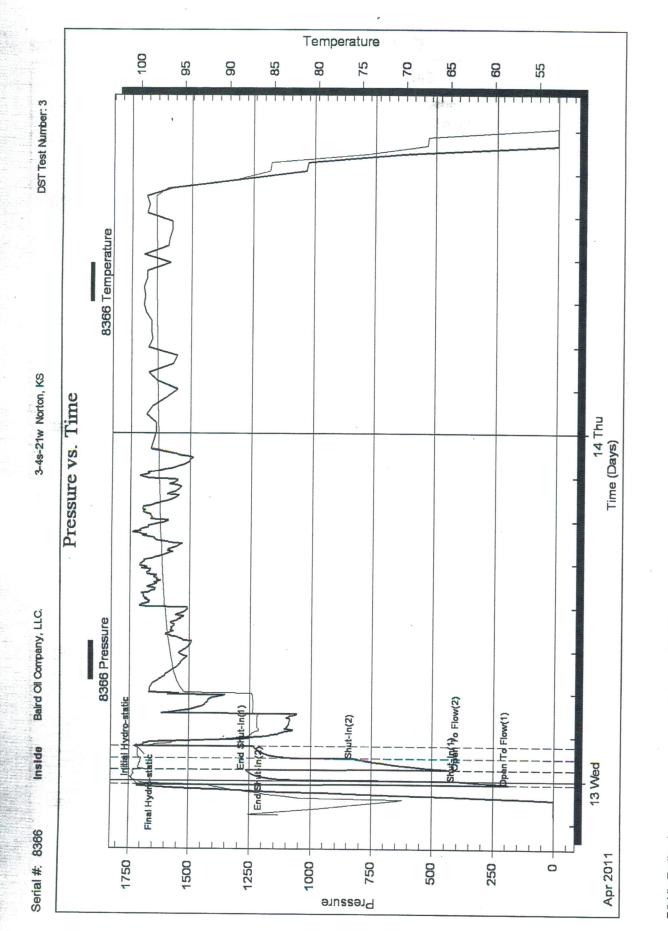
|   | RILOE  | BITE               |  |                                       | MTEST         | NEFC   |              |                  |           | TOOL DIAG          |
|---|--|--------------------|--|---------------------------------------|---------------|--|--------------|------------------|-----------|--------------------|
| Karal I   | Statement of the local division of the local |                    | Baird (  | Dil Company, I                        | LL°C.         |  | Sic          | des/Anna         | Unit #1   | -3                 |
|   | ESI  | TING , INC         | 113 44   | Main<br>KS 67646                      |               |  |              | s-21w Nor        |           | S                  |
|   |  |                    |  |                                       |               |  | Job          | Ticket: 0419     | 988       | DST#:3             |
|   |  |                    | ATTN:  | Richard Bel                           | 1             |  | Tes          | t Start: 2011    | .04.12 @  | 21:35:09           |
| Tool Information  | on   |                    |  |                                       |               |  |              |                  |           |                    |
| Drill Pipe:   | Length:  | 3387.00 ft         | Diameter   | : 3.80 in                             | ches Volume:  | 47.51 bl   | ol -         | Tool Weight:     |           | 2000.00 lb         |
| Heavy Wt. Pipe:   | Length:  | 0.00 ft            | Diameter   | 0.00 in                               | ches Volume:  |  |              | -                | Packer    | : 25000.00 lb      |
| Drill Collar:   | Length:  | 120.00 ft          | Diameter:  | 2.25 in                               | ches Volume:  | 0.59 bl  |              | Neight to Pull   |           | lb                 |
| Drill Pipe Above I  | VD.  | 30.00 ft           |  |                                       | Total Volume: | 48.10 bl   |              | Tool Chased      |           | ft                 |
| Depth to Top Pac  |  | 3497.00 ft         |  |                                       |               |  | 5            | String Weight    | : Initial | 42000.00 lb        |
| Depth to Bottom I   |  | 5497.00 ft         |  |                                       |               |  |              | -                | Final     | lb                 |
| nterval between   |  | 18.00 ft           |  |                                       |               |  |              |                  |           |                    |
|   |  |                    |  |                                       |               |  |              |                  |           |                    |
| Tool Length:  |  | 38.00 ft           |  |                                       |               |  |              |                  |           |                    |
| -   | ers:   | 38.00 ft<br>2      | Diameter:  | 6.75 in                               | ches          |  |              |                  |           |                    |
| Tool Length:<br>Number of Packe<br>Tool Comments:<br>Bevators came o  |  | 2                  |  |                                       |               | but anchor b   | oroke leavir | ng 8' in hole    |           |                    |
| Number of Packe<br>Tool Comments:<br>Bevators came o  | open after r   | 2<br>reversing flu | id, lost tool  | i dow n hole. r                       |               |  |              |                  |           |                    |
| Number of Packe<br>Tool Comments:<br>Bevators came of<br>Tool Description   | open after r   | 2<br>reversing flu | id, lost tool  |                                       | ecovered tool | but anchor b<br>Depth (ft)<br>3482.00  |              |                  |           |                    |
| Number of Packe<br>Tool Comments:   | open after r   | 2<br>reversing flu | id, lost tool<br>n <b>gth (ft)</b>   | i dow n hole. r                       | ecovered tool | Depth (ft)   |              |                  |           |                    |
| Number of Packe<br>Tool Comments:<br>Elevators came of<br>Fool Descriptic<br>Shut In Tool<br>Hydraulic tool   | open after r   | 2<br>reversing flu | id, lost tool<br>ngth (ft)<br>5.00   | i dow n hole. r                       | ecovered tool | Depth (ft)<br>3482.00  |              | Lengths          |           | Bottom Of Top Paol |
| Number of Packe<br>Tool Comments:<br>Bevators came of<br>Fool Descriptic<br>Shut In Tool<br>Hydraulic tool<br>Packer  | open after r   | 2<br>reversing flu | id, lost tool<br>ngth (ft)<br>5.00<br>5.00                                 | i dow n hole. r                       | ecovered tool | Depth (ft)<br>3482.00<br>3487.00<br>3492.00  |              |                  |           | Bottom Of Top Pack |
| Number of Packe<br>Tool Comments:<br>Bevators came of<br>Fool Descriptic<br>Shut In Tool<br>Hydraulic tool<br>Packer<br>Packer  | open after r   | 2<br>reversing flu | ngth (ft)<br>5.00<br>5.00<br>5.00  | i dow n hole. r                       | ecovered tool | Depth (ft)<br>3482.00<br>3487.00<br>3492.00<br>3497.00   |              | Lengths          |           | Bottom Of Top Pack |
| Number of Packe<br>Tool Comments:<br>Bevators came of<br>Tool Descriptic<br>Shut In Tool  | open after r   | 2<br>reversing flu | id, lost tool<br>ngth (ft)<br>5.00<br>5.00<br>5.00<br>5.00                 | i dow n hole. r                       | ecovered tool | Depth (ft)<br>3482.00<br>3487.00<br>3492.00<br>3497.00<br>3498.00                                  |              | Lengths          |           | Bottom Of Top Pack |
| Number of Packe<br>Tool Comments:<br>Bevators came of<br>Tool Descriptic<br>Shut In Tool<br>Hydraulic tool<br>Packer<br>Packer<br>Stubb   | open after r   | 2<br>reversing flu | ngth (ft)<br>5.00<br>5.00<br>5.00<br>5.00<br>1.00                          | l dow n hole. r<br>Serial No.         | Position      | Depth (ft)<br>3482.00<br>3487.00<br>3492.00<br>3497.00<br>3498.00<br>3498.00                       |              | Lengths          |           | Bottom Of Top Pack |
| Number of Packe<br>Tool Comments:<br>Bevators came of<br>Fool Description<br>Shut In Tool<br>Hydraulic tool<br>Packer<br>Packer<br>Stubb<br>Recorder<br>Recorder  | open after r   | 2<br>reversing flu | ngth (ft)<br>5.00<br>5.00<br>5.00<br>5.00<br>1.00<br>0.00                  | l dow n hole. r<br>Serial No.<br>8366 | Position      | Depth (ft)<br>3482.00<br>3487.00<br>3492.00<br>3497.00<br>3498.00                                  |              | Lengths          |           | Bottom Of Top Pack |
| Number of Packe<br>Tool Comments:<br>Elevators came of<br>Fool Description<br>Shut In Tool<br>Hydraulic tool<br>Packer<br>Packer<br>Stubb<br>Recorder<br>Recorder<br>Recorder<br>Recorder                                   | open after r   | 2<br>reversing flu | id, lost tool<br>ngth (ft)<br>5.00<br>5.00<br>5.00<br>1.00<br>0.00<br>0.00 | l dow n hole. r<br>Serial No.<br>8366 | Position      | Depth (ft)<br>3482.00<br>3487.00<br>3492.00<br>3497.00<br>3498.00<br>3498.00<br>3498.00            |              | Lengths          | Bot       |                    |
| Number of Packe<br>Tool Comments:<br>Bevators came of<br>Fool Description<br>Tool Description<br>Shut In Tool<br>Hydraulic tool<br>Packer<br>Packer<br>Stubb<br>Recorder<br>Recorder<br>Recorder<br>Beforations<br>Bullnose | open after r   | 2<br>reversing flu | ngth (ft)<br>5.00<br>5.00<br>5.00<br>1.00<br>0.00<br>0.00<br>14.00         | l dow n hole. r<br>Serial No.<br>8366 | Position      | Depth (ft)<br>3482.00<br>3487.00<br>3492.00<br>3497.00<br>3498.00<br>3498.00<br>3498.00<br>3512.00 |              | Lengths<br>20.00 | Bot       | Bottom Of Top Pack |

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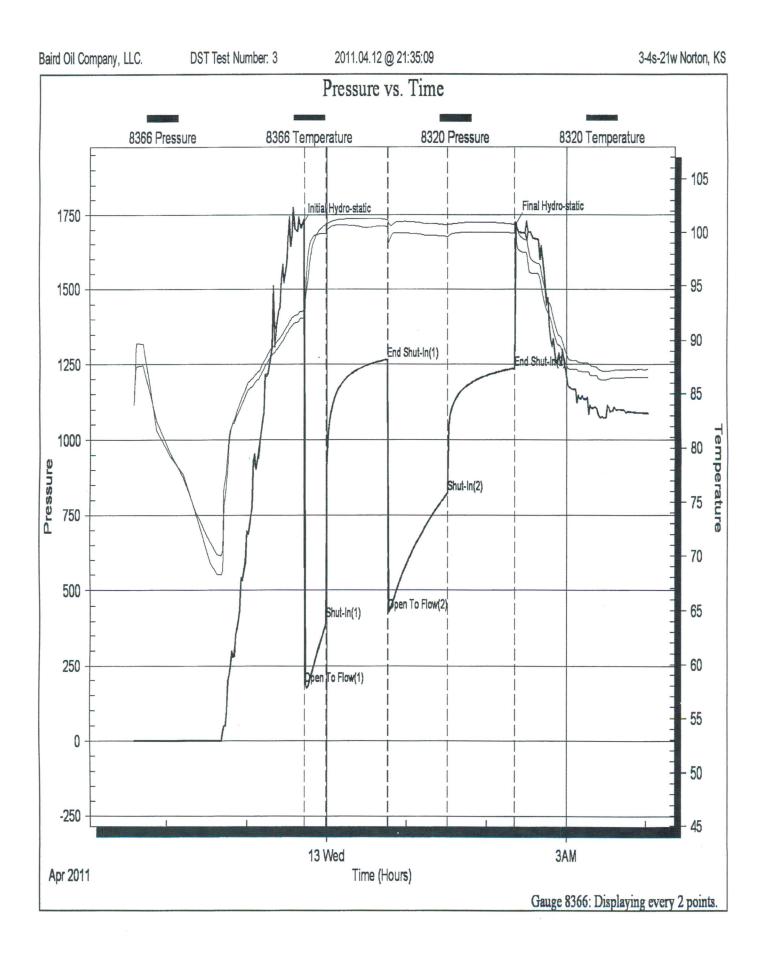
Research B

| 1000                        |                        | DRI       | LL STEM TEST F                            | REPORT     | -             |                 | FLUID S | UMMARY  |
|-----------------------------|------------------------|-----------|---|------------|---------------|-----------------|---------|---------|
|                             | RILOBITE               | Baird C   | Dil Company, LLC.                         |            | Sides/An      | na Unit #1-3    |         |         |
|                             | ESTING , INC           | 113 W     | Main                                      |            | 3-4s-21w      | Norton, KS      |         |         |
|                             | _                      |           | KS 67646                                  |            | Job Ticket: 0 |                 | DST#:3  |         |
|                             |                        | ATTN:     | Richard Bell                              |            | Test Start: 2 | 2011.04.12 @ 2  | 1:35:09 |         |
| Mud and C                   | Ushion Information     |           |   |            |               |                 |         |         |
| Mud Type:                   |                        |           | Cushion Type:                             |            |               | Oil API:        |         | deg API |
| Mud Weight:                 | 9.00 lb/gal            |           | Cushion Length:                           |            | ft            | Water Salinity: |         | ppm     |
| Viscosity:                  | 61.00 sec/qt           |           | Cushion Volume:                           |            | bbl           |                 |         |         |
| Water Loss:<br>Resistivity: | 6.39 in³<br>0.00 ohm.m |           | Gas Cushion Type:<br>Gas Cushion Pressure |            | psig          |                 |         |         |
| Salinity:                   | 1600.00 ppm            |           | Gas Gashion Tressure                      |            | psig          |                 |         |         |
| Filter Cake:                | 2.00 inches            |           |   |            |               |                 |         |         |
| Recovery                    | Information            |           |   |            |               | 2               |         |         |
|                             |                        |           | Recovery Table                            |            |               | Т               |         |         |
| r.                          | Leng<br>ft             | th        | Description                               |            | Volume<br>bbl |                 |         |         |
|                             | 2                      | 400.00    | oil                                       |            | 32.573        | 3               |         |         |
|                             | Total Length:          | 2400      | 0.00 ft Total Volume:                     | 32.573 bbl |               |                 |         |         |
|                             | Num Fluid Samp         |           | Num Gas Bombs:                            | 0          | Serial #      | ŧ               |         |         |
|                             | Laboratory Nan         |           | Laboratory Location                       | n:         |               |                 |         |         |
|                             | Recovery Com           | nents: re | versed into water truck                   |            |               |                 |         |         |
|                             |                        |           |   |            |               |                 |         |         |
|                             |                        |           |   |            |               |                 |         |         |
|                             |                        |           |   |            |               |                 |         |         |
|                             |                        |           |   |            |               |                 |         |         |
|                             |                        |           |   |            |               |                 |         |         |
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|                             |                        |           |   |            |               |                 |         |         |
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|                             |                        |           |   |            |               |                 |         |         |
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|                             |                        |           |   |            |               |                 |         |         |



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Ref. No: 041988



**DST #4** 



## DRILL STEM TEST REPORT

Prepared For: Baird Oil Company, LLC.

113 W Main Logan, KS 67646

ATTN: Richard Bell

3-4s-21w Norton, KS

### Sides/Anna Unit #1-3

Start Date: 2011.04.16 @ 13:07:25 End Date: 2011.04.16 @ 19:04:55 Job Ticket #: 42579 DST #: 4

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

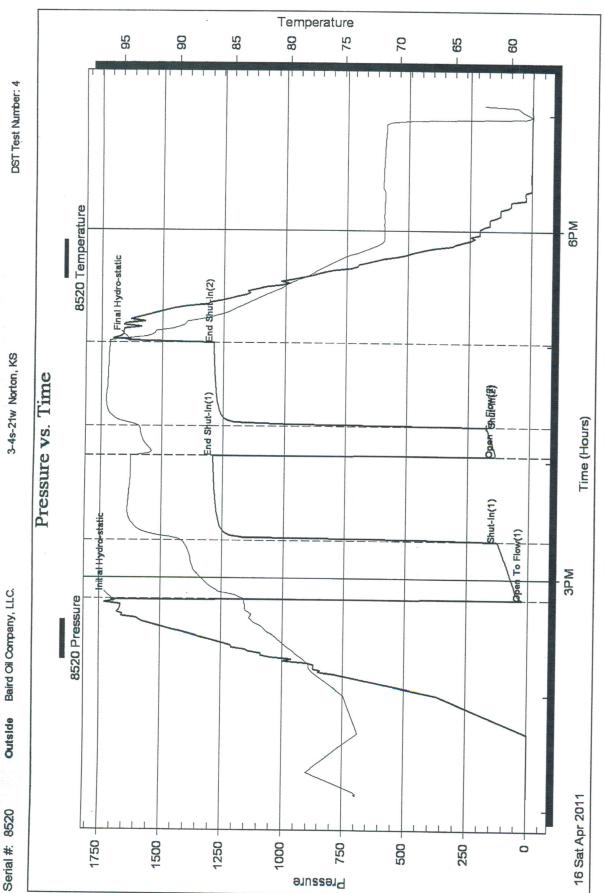
| Bail of Unit Party, LLC.     Sides/Anna Unit #1/3       Sides/Anna Unit #1/3       John Colligany, KS 67846     Job Ticket 42579     DST#: 4       ATTN: Richard Bell     Test Start: 2011.04.16 @ 13:07.25       SENERAL INFORMATION:     Test Start: 2011.04.16 @ 13:07.25       Somation:     LKC "P"       Davidation:     No     Whipstock:     ft (KB)       The Tool Openci:     335.00 ft (KB) (TVD)       Total Deprin:     355.00 ft (KB) (TVD)       Sold Dameter:     7.88 inchearble Condition: Fair     Capacity:     8000 00 psig       Bant Table:     2011.04.16 @ 17:02.25       Test Time:     2011.04.16 @ 17:02.25       Test Comment:     St 8"-64 Min.       FF B.087 Min     SH 8"-64 Min.       SH 8"-64 Min.     FF B.0.87 Min       SH 8"-64 Min.     FF B.0.87 Min.   | RILOBITE   | DRILL STEM TES   | ST REP           | ORT                        |                           |                              | 2                    | <u>, , , , , , , , , , , , , , , , , , , </u> |
|---|--|--|------------------|----------------------------|---------------------------|------------------------------|----------------------|---|
| Logan, K8         Dog Trike         Job Trike <t< td=""><td>And a state of the state of the</td><td>Baird Oil Company, LLC.</td><td></td><td>Si</td><td>des/Anna</td><td>a Unit #1-</td><td>3</td><td></td></t<> | And a state of the | Baird Oil Company, LLC.  |                  | Si                         | des/Anna                  | a Unit #1-                   | 3                    |   |
| ATTN: Richard Bell         Test Start: 2011.04.16 @ 13.07.25           SENERAL INFORMATION:         Formation:         LKC "F"           Deviated:         No         Whipstock:         ft (KB)           The Tool Opencie:         3351.00 ft (KB) (TVD)         Test Type:         Conventional Bottom Hole           The Tool Opencie:         3555.00 ft (KB) (TVD)         Reference Elevations:         2225.00 ft (KB)           Sold Depth:         7.88 inches/ble Condition: Fair         KB to GR/CF:         9.00 ft           Serial #:         2011.04.16         End Date:         2011.04.16         Last Calls::         2011.04.16           Sh & * 45 Min.         FF: B O.B 7 Min.         Sh * 45 Min.         FF: B O.B 7 Min.         FF: B O.B 7 Min.           FF: B O.B 7 Min.         Sh * 45 Min.         FF: B O.B 7 Min.         FF: B O.B 7 Min.         FF: B O.B 7 Min.           FF: B O.B 7 Min.         Sh * 45 Min.         FF: B O.B 7 Min.         FF: B O.B 7 Min.         FF: B O.B 7 Min.           FF: B O.B 7 Min.         Sh * 45 Min.         FF: B O.B 7 Min.         FF: B O.B 7 Min.         FF: B O.B 7 Min.           FF: B O.B 7 Min.         Sh * 45 Min.         FF: B O.B 7 Min.         FF: B O.B 7 Min.         FF: B O.B 7 Min.           Sh * 45 Min.         FF: B O.B.  | ESTING , INC   |  |                  |                            |                           |                              |                      |   |
| Formation:       LKC "F"         Deviated:       No       Winjstock:       ft (KB)         Time Tool Opened:       14/48:55       Test Type:       Conventional Bottom Hole         Time Tool Opened:       19/04:55       Unit No:       38         Interval:       3511.00 ft (KB) To       3535.00 ft (KB) (TVD)       Reference Blevations:       2225.00 ft (KB)         Orall Depth:       7.83 InchesHole Condition:       Fair       KB to GR/CF:       9.00 ft         Serial #:       2011.04.16       End Date:       2011.04.16       Last Callb.:       2011.04.16         Start Time:       13:07:26       End Time:       19:04:55       Time On Birr.       2011.04.16 @ 14:48:25         Time Off Birr.       2011.04.16       End Date:       2011.04.16       Last Callb.:       2011.04.16 @ 14:48:25         Start Time:       13:07:26       End Time:       19:04:55       Time On Birr.       2011.04.16 @ 17:02:25         TEST COMMENT:       F- 8.0.B7 Min.       Start Time       Pressure (resp)       Annotation         Mish #"-46 Min.       FF       Down of the wave viciname       Time On Birr.       2011.04.16 @ 17:02:25         Time Off Birr.       13:13:26       9:3.75       Ninkt-In(1)       13:13:28       9:3.75       Shut-In(1)   |  | ATTN: Richard Bell   |                  |                            |                           |                              |                      |   |
| Deviated:       No       Whipstock:       ft (KB)         Time Test Ended:       19:04:55       Test Type:       Conventional Bottom Hole         Time Test Ended:       19:04:55       Test Type:       Conventional Bottom Hole         Test Ended:       19:04:55       With No:       38         No Whipstock:       Time Test Ended:       19:04:55       Reference Elevations:       2225:00 ft (KB)         Total Depth:       278 inchesHole Condition:       Fair       KB to GRVCF:       9:00 ft         Serial #:       8520       Outside       Capacity:       8000.00 psig         Shart Dele:       2011.04:16       Last Callb:       2011.04:16 @ 14:48:25         Time Of Btm:       2011.04:16 @ 14:48:25       Time Of Btm:       2011.04:16 @ 14:48:25         Time Of Btm:       2011.04:16 @ 17:02:25       Time Of Btm:       2011.04:16 @ 17:02:25         TEST COMMENT:       F.B.O.B7 Min       Sh & "-46 Min.       FF.B.O.B30 Sec.       FSI         FSI- bitew 2'- 45 Min.       FTme       Pressure Norman       Notation         Time Of Btm:       2016.04:16       83:78       Initial Hydro-static         1       12:34       93:78       93:78       Mintu-h(1)         1       12:31:85       95:41  | GENERAL INFORMATION:   |  |                  |                            |                           |                              |                      |   |
| Ordel Depth:         3535.00 ft (KB) (TVD)         2216.00 ft (CF)           hole Diameter:         7.88 inchesHole Condition: Fair         KB to GR/CF:         9.00 ft           Serial #:         8520         Outside         600 District         600 District           Press@RunDepth:         174.34 psig @         3512.00 ft (KB)         Capacity:         8000.00 psig           Start Date:         2011.04.16         End Date:         2011.04.16         Last Calib.:         2011.04.16         2014.448.25           Start Time:         13:07:26         End Time:         19:04:55         Time Off Btm:         2011.04.16 @ 17:02:25           TEST COMMENT:         FF-B.O.B 7 Mn         Sh 8* - 45 Mn.         Sh 8* - 45 Mn.         FF           FF-B.D.B 30 Sec.         FF         FF         Sole.30 Sec.         FF         File New 2*- 45 Mn.           Pressure Time         Time Off Btm:         2011.04.16         B3:78           13:0:0:2         94.18         Sole.30 Sec.         FF         Hole Net Hydro-static           13:0:0:2         94.18         Bd Shut-h(1)         130.62         94.18         Bd Shut-h(1)           13:0:0:2         94.18         Bd Shut-h(2)         96.15         End Shut-h(2)         96.15         End Shut-h(2)  |  | ft (KB)  |                  | Tes                        | ster: C                   | Cody Bloedo                  |                      | Hole  |
| Press@RunDepth:       174.34 psig @       3512.00 ft (KB)       Capacity:       8000.00 psig         Start Date:       2011.04.16       End Date:       2011.04.16       Last Calib.:       2011.04.16       2011.04.16         Start Time:       13:07:26       End Time:       19:04:55       Time On Btm:       2011.04.16 @ 14:48:25         Time:       13:07:26       End Time:       19:04:55       Time On Btm:       2011.04.16 @ 17:02:25         EST COMMENT:       F- B.O.B7 Min       SH 8*- 45 Min.       FF- B.O.B30 Sec.       FSI- blew 2'- 45 Min.         FF- B.O.B 30 Sec.       FSI- blew 2'- 45 Min.       Time       Pressure Temp       Annotation         0       1693.78       183.78       Initial Hydro-static       33.73       Open To Flow (1)         131       130.62       89.57       Shut-h(1)       End Shut-h(2)       90       174.34       Shut-h(2)         90       174.34       133       1290.57       96.15       End Shut-h(2)       Final Hydro-static         133       1290.57       96.15       End Shut-h(2)       133       129.57       95.41       Final Hydro-static         133       1290.57       96.15       End Shut-h(2)       Final Hydro-static       133       129.57       134   | Total Depth: 3535.00 ft (KB) (T  | /D)  |                  | Ref                        |                           |                              | 2216                 | .00 ft (CF)                                   |
| ISI- 8"- 45 Min.         FE- B.O.B 30 Sec.         FSE- blew 2"- 45 Min.         PRESSURE SUMMARY         Time       Time       PRESSURE SUMMARY         Time   | Press@RunDepth: 174.34 psig<br>Start Date: 2011.04.16  | End Date:  |                  | Last Cal<br>Time On        | ib.:<br>Btm: 2            | 2011.04.16 @                 | 2011.04.<br>② 14:48: | .16<br>:25                                    |
| Image: set of the set   | FF- B.O.B 30 S   |  |                  |                            |                           |                              |                      |   |
| Time       Pressure       Temp       Annotation         00       1693.78       83.78       Initial Hydro-static         00       1693.78       83.73       Open To Flow (1)         31       130.62       89.57       Shut-In(1)         74       1291.82       94.18       End Shut-In(1)         75       142.35       93.73       Open To Flow (2)         90       174.34       93.44       Shut-In(2)         90       174.34       93.44       Shut-In(2)         133       1290.57       96.15       End Shut-In(2)         134       1631.85       95.41       Final Hydro-static         Final Hydro-static  |  | me   |                  | PI                         | RESSUR                    |                              | ARY                  |   |
| COD       Contract       74       1291.82       94.18       End Shut-In(1)         90       174.34       93.73       Open To Flow (2)         90       174.34       93.44       Shut-In(2)         90       174.34       96.15       End Shut-In(2)         91       133       1290.57       96.15       End Shut-In(2)         91       134       1631.85       95.41       Final Hydro-static         Gas Rates         Choke (inches) Pressure (psig) Gas Rate (Mct/d)         Choke (inches) Pressure (psig) Gas Rate (Mct/d)   | 8500 Pressure<br>9500  | - 05   | (Min.)<br>0<br>1 | (psig)<br>1693.78<br>24.54 | (deg F)<br>83.78<br>83.73 | Initial Hydro<br>Open To Flo | -static              |   |
| Image: Contract of the second seco   |  | 00 To 100 | 74<br>75         | 1291.82<br>142.35          | 94.18<br>93.73            | End Shut-In<br>Open To Flo   |                      |   |
| Image         Image <th< td=""><td></td><td>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</td><td>133</td><td>1290.57</td><td>96.15</td><td>End Shut-In</td><td></td><td></td></th<>  |  | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~  | 133              | 1290.57                    | 96.15                     | End Shut-In                  |                      |   |
| Length (ft)     Description     Volume (bbl)       434.00     GO 80%O, 20%G     4.96  | 0  |  |                  |                            |                           |                              |                      |   |
| Length (ft)         Description         Volume (bbl)           434.00         GO 80%O, 20%G         4.96  | Recovery   |  |                  |                            | Gas                       | Rates                        |                      |   |
|   |  | Volume (bbl)   |                  |                            | 1                         |                              | e (psig)             | Gas Rate (Mcf/d)                              |
|   |  |  |                  |                            |                           |                              |                      |   |
|   |  |  |                  |                            |                           |                              |                      |   |
|   |  |  |                  |                            |                           |                              |                      |   |
|   |  |  |                  |                            |                           |                              |                      |   |

Trilobite Testing, Inc

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|   | RILOE     | SILE       |   | il Company, |                | and a second | Sides/Anna U      | TOOL DIAGR          |
|---|-----------|------------|---|-------------|----------------|--|-------------------|---------------------|
| THE A   | EST       | TING , INC |   |             |                |  | SidesAina         | ///// #1-0          |
|   | LUI       | 1140, 1140 | 110 441   |             |                |  | 3-4s-21w Nort     | on, KS              |
|   |           |            | Logan,  | KS 67646    |                |  | Job Ticket: 42579 | DST#:4              |
|   |           |            | ATTN:   | Richard Be  | ÷11            |  | Test Start: 2011. | 04.16 @ 13:07:25    |
| Tool Informatio   | n         |            |   |             |                |  |                   |                     |
| Drill Pipe:   | Length:   | 3383.00 ft | Diameter:   | 3.80        | inches Volume: | 47.45 bbl  | Tool Weight:      | 2500.00 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:   | 124.00 ft  | Diameter:   | 2.25        | inches Volume: | 0.61 bbl   | Weight to Pull    | Loose: 48000.00 lb  |
|   | /D.       | 24.00 ft   |   |             | Total Volume:  | 48.06 bbl  | Tool Chased       | 0.00 ft             |
| Drill Pipe Above H<br>Depth to Top Pac  |           | 3511.00 ft |   |             |                |  | String Weight:    | Initial 44000.00 lb |
| Depth to Bottom F   |           | 5511.00 ft |   |             |                |  |                   | Final 46000.00 lb   |
| nterval between   |           | 24.00 ft   |   |             |                |  |                   |                     |
| Tool Length:  | racitoro. | 52.00 ft   |   |             |                |  |                   |                     |
| Number of Packe   | rs:       | 2          | Diameter:   | 6.75        | nches          |  |                   |                     |
| Fool Comments:  |           |            |   |             |                |  |                   |                     |
|   |           |            |   |             |                |  |                   |                     |
|   |           | Lei        |   | Serial No.  | Position       |  | Accum. Lengths    |                     |
| Change Over Sub   |           | Lei        | 1.00  | Serial No.  | Position       | 3484.00  | Accum. Lengths    |                     |
| Change Over Sub<br>Shut In Tool   |           | Lei        | 1.00<br>5.00  | Serial No   | Position       | 3484.00<br>3489.00   | Accum. Lengths    |                     |
| Change Over Sub<br>Shut in Tool<br>Hydraulic tool   |           | Lei        | 1.00<br>5.00<br>5.00  | Serial No.  | Position       | 3484.00<br>3489.00<br>3494.00  | Accum. Lengths    |                     |
| Change Over Sub<br>Shut In Tool<br>Hydraulic tool<br>Jars   |           | Le         | 1.00<br>5.00<br>5.00<br>5.00  | Serial No.  | Position       | 3484.00<br>3489.00<br>3494.00<br>3499.00   | Accum. Lengths    |                     |
| Change Over Sut<br>Shut In Tool<br>Hydraulic tool<br>Jars<br>Safety Joint   |           | Lei        | 1.00<br>5.00<br>5.00  | Serial No.  | Position       | 3484.00<br>3489.00<br>3494.00  | Accum. Lengths    | Bottom Of Top Pack  |
| Change Over Sut<br>Shut In Tool<br>Hydraulic tool<br>Jars<br>Safety Joint<br>Packer   |           | Lei        | 1.00<br>5.00<br>5.00<br>5.00<br>3.00  | Serial No.  | Position       | 3484.00<br>3489.00<br>3494.00<br>3499.00<br>3502.00  |                   | Bottom Of Top Pack  |
| Change Over Sut<br>Shut In Tool<br>Hydraulic tool<br>Jars<br>Safety Joint<br>Packer<br>Packer   |           | Le         | 1.00<br>5.00<br>5.00<br>5.00<br>3.00<br>5.00  | Serial No.  | Position       | 3484.00<br>3489.00<br>3494.00<br>3499.00<br>3502.00<br>3507.00   |                   | Bottom Of Top Pack  |
| Change Over Sut<br>Shut <b>In</b> Tool<br>Hydraulic tool<br>Jars<br>Safety Joint<br>Packer<br>Packer<br>Stubb   |           | Lei        | 1.00<br>5.00<br>5.00<br>5.00<br>3.00<br>5.00<br>4.00                                  | Serial No.  | Position       | 3484.00<br>3489.00<br>3494.00<br>3499.00<br>3502.00<br>3507.00<br>3511.00                                      |                   | Bottom Of Top Pack  |
| Change Over Sut<br>Shut In Tool<br>Hydraulic tool<br>Jars<br>Safety Joint<br>Packer<br>Packer<br>Stubb<br>Recorder  |           | Lei        | 1.00<br>5.00<br>5.00<br>5.00<br>3.00<br>5.00<br>4.00<br>1.00                          |             |                | 3484.00<br>3489.00<br>3494.00<br>3502.00<br>3507.00<br>3511.00<br>3512.00                                      |                   | Bottom Of Top Pack  |
| Tool Descriptic<br>Change Over Sut<br>Shut In Tool<br>Hydraulic tool<br>Jars<br>Safety Joint<br>Packer<br>Packer<br>Stubb<br>Recorder<br>Recorder<br>Perforations |           | Lei        | 1.00<br>5.00<br>5.00<br>3.00<br>5.00<br>4.00<br>1.00<br>0.00                          | 8354        | Inside         | 3484.00<br>3489.00<br>3499.00<br>3502.00<br>3507.00<br>3511.00<br>3512.00<br>3512.00                           |                   | Bottom Of Top Pack  |
| Change Over Sut<br>Shut In Tool<br>Hydraulic tool<br>Jars<br>Safety Joint<br>Packer<br>Packer<br>Stubb<br>Recorder<br>Recorder                                    |           | Lei        | 1.00<br>5.00<br>5.00<br>3.00<br>5.00<br>4.00<br>1.00<br>0.00<br>0.00                  | 8354        | Inside         | 3484.00<br>3489.00<br>3494.00<br>3502.00<br>3507.00<br>3511.00<br>3512.00<br>3512.00<br>3512.00                |                   | Bottom Of Top Pack  |
| Change Over Sut<br>Shut In Tool<br>Hydraulic tool<br>Jars<br>Safety Joint<br>Packer<br>Packer<br>Stubb<br>Recorder<br>Recorder<br>Perforations<br>Bullnose        | D         | Ler        | 1.00<br>5.00<br>5.00<br>5.00<br>5.00<br>4.00<br>1.00<br>0.00<br>0.00<br>20.00         | 8354        | Inside         | 3484.00<br>3489.00<br>3499.00<br>3502.00<br>3507.00<br>3511.00<br>3512.00<br>3512.00<br>3512.00<br>3532.00     | 28.00             |                     |
| Change Over Sut<br>Shut In Tool<br>Hydraulic tool<br>Jars<br>Safety Joint<br>Packer<br>Packer<br>Stubb<br>Recorder<br>Recorder<br>Perforations<br>Bullnose        | D         |            | 1.00<br>5.00<br>5.00<br>3.00<br>5.00<br>4.00<br>1.00<br>0.00<br>0.00<br>20.00<br>3.00 | 8354        | Inside         | 3484.00<br>3489.00<br>3499.00<br>3502.00<br>3507.00<br>3511.00<br>3512.00<br>3512.00<br>3512.00<br>3532.00     | 28.00             |                     |
| Change Over Sut<br>Shut In Tool<br>Hydraulic tool<br>Jars<br>Safety Joint<br>Packer<br>Packer<br>Stubb<br>Recorder<br>Recorder<br>Perforations<br>Bullnose        | D         |            | 1.00<br>5.00<br>5.00<br>3.00<br>5.00<br>4.00<br>1.00<br>0.00<br>0.00<br>20.00<br>3.00 | 8354        | Inside         | 3484.00<br>3489.00<br>3499.00<br>3502.00<br>3507.00<br>3511.00<br>3512.00<br>3512.00<br>3512.00<br>3532.00     | 28.00             |                     |
| change Over Sub<br>hut In Tool<br>lydraulic tool<br>ars<br>afety Joint<br>acker<br>tubb<br>ecorder<br>ecorder<br>erforations<br>ullnose                           | D         |            | 1.00<br>5.00<br>5.00<br>3.00<br>5.00<br>4.00<br>1.00<br>0.00<br>0.00<br>20.00<br>3.00 | 8354        | Inside         | 3484.00<br>3489.00<br>3499.00<br>3502.00<br>3507.00<br>3511.00<br>3512.00<br>3512.00<br>3512.00<br>3532.00     | 28.00             |                     |
| Change Over Sub<br>Shut In Tool<br>Hydraulic tool<br>lars<br>Safety Joint<br>Packer<br>Packer<br>Stubb<br>Recorder<br>Recorder<br>Perforations<br>Bullnose        | D         |            | 1.00<br>5.00<br>5.00<br>3.00<br>5.00<br>4.00<br>1.00<br>0.00<br>0.00<br>20.00<br>3.00 | 8354        | Inside         | 3484.00<br>3489.00<br>3499.00<br>3502.00<br>3507.00<br>3511.00<br>3512.00<br>3512.00<br>3512.00<br>3532.00     | 28.00             |                     |

| (On-   | RILOBITE  | DRI           | LL STEM TEST F   | REPORT    | Г                              | F                           |                   |
|--|---|---------------|--|-----------|--------------------------------|-----------------------------|-------------------|
|  | Contraction of the second s | Baird C       | Dil Company, LLC.  |           | Sides/An                       | na Unit #1-3                |                   |
|  | ESTING , INC  |               | Main<br>KS 67646   |           | <b>3-4s-21w</b><br>Job Ticket: | Norton, KS<br>42579         | DST#:4            |
|  |   | ATTN:         | Richard Bell   |           | Test Start:                    | 2011.04.16 @ 13             | :07:25            |
| Mud and Cu   | shion Information   |               |  |           |                                |                             |                   |
| <i>fl</i> ud Type: Ge<br><i>fl</i> ud Weight:<br>/iscosity:<br>Vater Lcss: | el Chem<br>9.00 lb/gal<br>51.00 sec/qt<br>in <sup>s</sup>   |               | Cushion Type:<br>Cushion Length:<br>Cushion Volume:<br>Gas Cushion Type: |           | ft<br>bbl                      | Oil API:<br>Water Salinity: | 29 deg API<br>ppm |
| Resistivity:<br>Salinity:<br>Filter Cake:                                  | ohm.m<br>1200.00 ppm<br>inches  |               | Gas Cushion Pressure   |           | psig                           |                             |                   |
| Recovery In  | formation   |               |  |           |                                |                             |                   |
|  |   |               | Recovery Table   |           |                                | -                           |                   |
|  | Leng<br>ft  | th            | Description  |           | Volume<br>bbl                  |                             |                   |
|  |   | 434.00        | GO 80%O, 20%G  |           | 4.95                           |                             |                   |
|  | Total Length:   | 15.00         | GOCM 60%M, 20%G, 20%O<br>.00 ft Total Volume:                            | 5.168 bbl | 0.21                           | <u>o</u>                    |                   |
|  | Num Fluid Sam<br>Laboratory Nan<br>Recovery Com   | oles:0<br>ne: | Num Gas Bombs:<br>Laboratory Locatior                                    | 0         | Serial #                       | ŧ                           |                   |
|  |   |               |  |           |                                |                             |                   |
|  |   |               |  |           |                                |                             |                   |
|  |   |               |  |           |                                |                             |                   |
|  |   |               |  |           |                                |                             |                   |
|  |   |               |  |           |                                |                             |                   |
|  |   |               |  |           |                                |                             |                   |
|  |   |               |  |           |                                |                             |                   |
|  |   |               |  |           |                                |                             |                   |
|  |   |               |  |           |                                |                             |                   |
|  |   |               |  |           |                                |                             |                   |
|  |   |               |  |           |                                |                             |                   |
|  |   |               |  |           |                                |                             |                   |
|  |   |               |  |           |                                |                             |                   |
|  |   |               |  |           |                                |                             |                   |



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42579 Ref. No:



## DRILL STEM TEST REPORT

Prepared For:

Baird Oil Company, LLC.

113 W Main Logan, KS 67646

ATTN: Richard Bell

3-4s-21w Norton, KS

## Sides/Anna Unit #1-3

 Start Date:
 2011.04.17 @ 00:36:25

 End Date:
 2011.04.17 @ 07:54:25

 Job Ticket #:
 42580
 DST #: 5

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

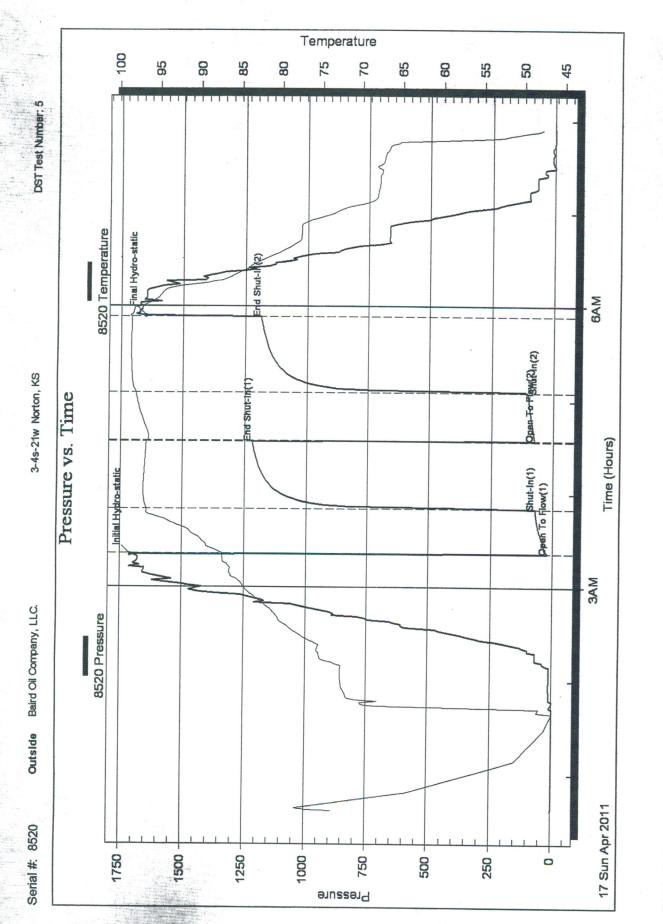
2011.04.17

**DST # 5** 

|  | DRILL STEM TES  |                        | OPT   | -                                 |                                  |                      |              |
|--|---|------------------------|---|-----------------------------------|----------------------------------|----------------------|--------------|
| RILOBITE   | Baird Oil Company, LLC.   | SIKEP                  |   |                                   |                                  |                      |              |
| TESTING, INC   |   |                        | SIC   | des/Ann                           | a Unit #1                        | -3                   |              |
|  | 113 W Main<br>Logan, KS 67646   |                        | 3-4   | s-21w N                           | lorton, KS                       | 5                    |              |
|  |   |                        | Job   | Ticket: 4                         | 2580                             | DST#: 5              | ;            |
|  | ATTN: Richard Bell  |                        | Tes   | t Start: 2                        | 011.04.17 @                      | 00:36:25             |              |
| GENERAL INFORMATION:   |   |                        |   |                                   |                                  |                      |              |
| Formation:       LKC "G"         Deviated:       No       Whipstock:         Time Tool Opened:       03:21:25         Time Test Ended:       07:54:25  | ft (KB)   |                        | Tes   | ter:                              | Conventiona<br>Cody Bloede<br>38 | al Bottom Hol<br>orn | 9            |
| Interval:         3535.00 ft (KB) To         35           Total Depth:         3550.00 ft (KB) (TV   | D)  |                        | Ref   | erence E                          | evations:                        | 2225.00<br>2216.00   |              |
| Hole Diameter: 7.88 inches Hole  | Condition: Fair   |                        |   | KB                                | to GR/CF:                        | 9.00                 | ft           |
| Serial #:         8520         Outside           Press@RunDepth:         104.72 psig         0           Start Date:         2011.04.17         00:36:26           Start Time:         00:36:26         0           TEST COMMENT:         IF-6 1/2'' - 30 Min         ISF Surface Blow | End Date:<br>End Time:  | 2011.04.17<br>07:54:25 | Capacity<br>Last Calil<br>Time On<br>Time Off | o.:<br>Btm:                       | 2011.04.17<br>2011.04.17         |                      | psig         |
| FF- 5" - 30 Min.<br>FSI- Surface blow  |   |                        |   |                                   |                                  |                      |              |
| Pressure vs. Tit   | ne  |                        | PF  | RESSUF                            | RE SUMM                          | ARY                  |              |
| 9520 Presure<br>1900   | 000 Temperture<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>10 | Time<br>(Min.)<br>0    | Pressure<br>(psig)<br>1709.74<br>19.29        | Temp<br>(deg F)<br>87.21<br>87.09 |                                  | o-static             |              |
| 200  | New Martin  | 30                     | 72.03   | 96.49                             | Shut-In(1)                       | .,                   |              |
|  |   | 73<br>74               | 1220.24<br>77.10                              | 96.60<br>96.37                    | End Shut-Ir<br>Open To Fl        |                      |              |
| 700  | 75 77 77 77 77 77 77 77 77 77 77 77 77 7                              | 105                    | 104.72  |                                   | Shut-In(2)                       | 000 (2)              |              |
| 200  |   | 153<br>153             | 1185.82<br>1651.50                            | 98.46<br>98.63                    |                                  |                      |              |
|  |   |                        |   |                                   |                                  |                      |              |
| San Apr 2011 SAM Time (House)  | 54M   |                        |   |                                   |                                  |                      |              |
| Recovery   |   |                        |   | Gas                               | Rates                            |                      |              |
| Length (ft) Description  | Volume (bbl)  |                        |   | Choke (in                         |                                  | e (psig) Gas         | Rate (Mcf/d) |
| 186.00 MCO 60%M, 30%W, 10%C  | ) 1.48  | L                      |   |                                   |                                  |                      |              |
| 30.00 Free oil   | 0.42  |                        |   |                                   |                                  |                      |              |
|  |   |                        |   |                                   |                                  |                      |              |
|  |   |                        |   |                                   |                                  |                      |              |
|  |   |                        |   |                                   |                                  |                      |              |

| ADAT               | RILOE                        | RITE       | DRI       | LL ST      | EM TEST        | REPC       | DRT             |             | TOOL D        | IAGRA   |
|--------------------|------------------------------|------------|-----------|------------|----------------|------------|-----------------|-------------|---------------|---------|
|                    | Supply and the supply is not |            |           | il Company | , LLC.         |            | Sides/Anna      | Unit #1     | -3            |         |
|                    | ES1                          | TING , INC | 113 W     | Main       |                |            | 3-4s-21w No     | orton, K    | S             |         |
|                    |                              |            | Logan,    | KS 67646   |                |            | Job Ticket: 425 | 580         | DST#:5        |         |
|                    |                              |            | ATTN:     | Richard Be | ell            |            | Test Start: 201 | 1.04.17 @   | 00:36:25      |         |
| Tool Informatio    | on                           |            |           |            |                |            |                 |             |               |         |
| Drill Pipe:        | Length:                      | 3417.00 ft | Diameter: | 3.80       | inches Volume: | 47.93 b    | bl Tool Weight  | :           | 2500.00 lb    |         |
| Heavy Wt. Pipe:    | Length:                      | 0.00 ft    | Diameter: | 0.00       | inches Volume: | 0.00 b     |                 |             | 25000.00 lb   |         |
| Drill Collar:      | Length:                      | 124.00 ft  | Diameter: | 2.25       | inches Volume: | 0.61 b     |                 |             | 48000.00 lb   |         |
| Drill Pipe Above H | (B·                          | 34.00 ft   |           |            | Total Volume:  | 48.54 b    | bl Tool Chase   | d           | 0.00 ft       |         |
| Depth to Top Pac   |                              | 3535.00 ft |           |            |                |            | String Weig     | ht: Initial | 42000.00 lb   |         |
| Depth to Bottom I  |                              | 5555.00 ft |           |            |                |            |                 | Final       | 44000.00 lb   |         |
| nterval between    |                              | 15.00 ft   |           |            |                |            |                 |             |               |         |
| Tool Length:       |                              | 43.00 ft   |           |            |                |            |                 |             |               |         |
| Number of Packe    | rs:                          | 2          | Diameter: | 6.75       | inches         |            |                 |             |               |         |
| Tool Comments:     |                              |            |           |            |                |            |                 |             |               |         |
|                    |                              |            |           |            |                |            |                 |             |               |         |
| Tool Descriptic    | on                           | Lei        | ngth (ft) | Serial No. | Position       | Depth (ft) | Accum. Lengths  |             |               |         |
| Change Over Sul    | 0                            |            | 1.00      |            |                | 3508.00    |                 |             |               |         |
| Shut In Tool       |                              |            | 5.00      |            |                | 3513.00    |                 |             |               |         |
| hydraulic tool     |                              |            | 5.00      |            |                | 3518.00    |                 |             |               |         |
| lars               |                              |            | 5.00      |            |                | 3523.00    |                 |             |               |         |
| Safety Joint       |                              |            | 3.00      |            |                | 3526.00    |                 |             |               |         |
| Packer             |                              |            | 5.00      |            |                | 3531.00    | 28.00           |             | Bottom Of Top | n Packa |
| Packer             |                              |            | 4.00      |            |                | 3535.00    | 20.00           |             | Doctori Or TO | Taure   |
| Stubb              |                              |            | 1.00      |            |                | 3536.00    |                 |             |               |         |
| erforations        |                              |            | 1.00      |            |                | 3537.00    |                 |             |               |         |
| ecorder            |                              |            | 0.00      | 8354       | Inside         | 3537.00    |                 |             |               |         |
| Recorder           |                              |            | 0.00      | 8520       | Outside        | 3537.00    |                 |             |               |         |
| erforations        |                              |            | 10.00     |            |                | 3547.00    |                 |             |               |         |
| Bulinose           |                              |            | 3.00      |            |                | 3550.00    | 15.00           | Rot         | tom Packers & | Ancher  |
| Τ.                 | otal Tool                    | Length:    | 43.00     |            |                |            | 10.00           | 200         |               |         |

| 10A7                      | RILOBITE              | DR     | ILL STEM TEST REPOR            | Г             | FLU                | JID SUMMARY |
|---------------------------|-----------------------|--------|--------------------------------|---------------|--------------------|-------------|
|                           | THEODITE              | Baird  | Oil Company, LLC.              | Sides/An      | na Unit #1-3       |             |
|                           | ESTING , INC          | 113 W  | Main                           | 3-4s-21w      | Norton, KS         |             |
|                           |                       | Logan  | , KS 67646                     | Job Ticket:   |                    | ST#: 5      |
|                           |                       | ATTN:  | Richard Bell                   | Test Start: 2 | 2011.04.17 @ 00:36 | :25         |
| Mud and Cus               | hion Information      |        |                                |               |                    |             |
| Mud Type: Gel             | Chem                  |        | Cushion Type:                  |               | Oil API:           | 22 deg API  |
| Mud Weight:               | 9.00 lb/gal           |        | Cushion Length:                | ft            | Water Salinity:    | ppm         |
| Viscosity:                | 51.00 sec/qt          |        | Cushion Volume:                | bbl           |                    |             |
| Water Loss:               | in³                   |        | Gas Cushion Type:              |               |                    |             |
| Resistivity:              | ohm.m                 |        | Gas Cushion Pressure:          | psig          |                    |             |
| Salinity:<br>Filter Cake: | 1200.00 ppm<br>inches |        |                                |               |                    |             |
| Recovery Info             | ormation              |        |                                |               |                    |             |
|                           |                       |        | Recovery Table                 |               | _                  |             |
|                           | Leng<br>ft            | th     | Description                    | Volume<br>bbl |                    |             |
|                           |                       | 186.00 | MCO 60%M, 30%W, 10%O           | 1.48          | D                  |             |
|                           |                       | 30.00  | Free oil                       | 0.42          | 1                  |             |
|                           | Total Length:         | 216    | .00 ft Total Volume: 1.901 bbl |               |                    |             |
|                           | Num Fluid Samp        | les: 0 | Num Gas Bombs: 0               | Serial #      | ÷.                 |             |
|                           | Laboratory Nan        | ne:    | Laboratory Location:           |               |                    |             |
|                           | Recovery Com          | nents: |                                |               |                    |             |
|                           |                       |        |                                |               |                    |             |
|                           |                       |        |                                |               |                    |             |
|                           |                       |        |                                |               |                    |             |
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|                           |                       |        |                                |               |                    | 1           |

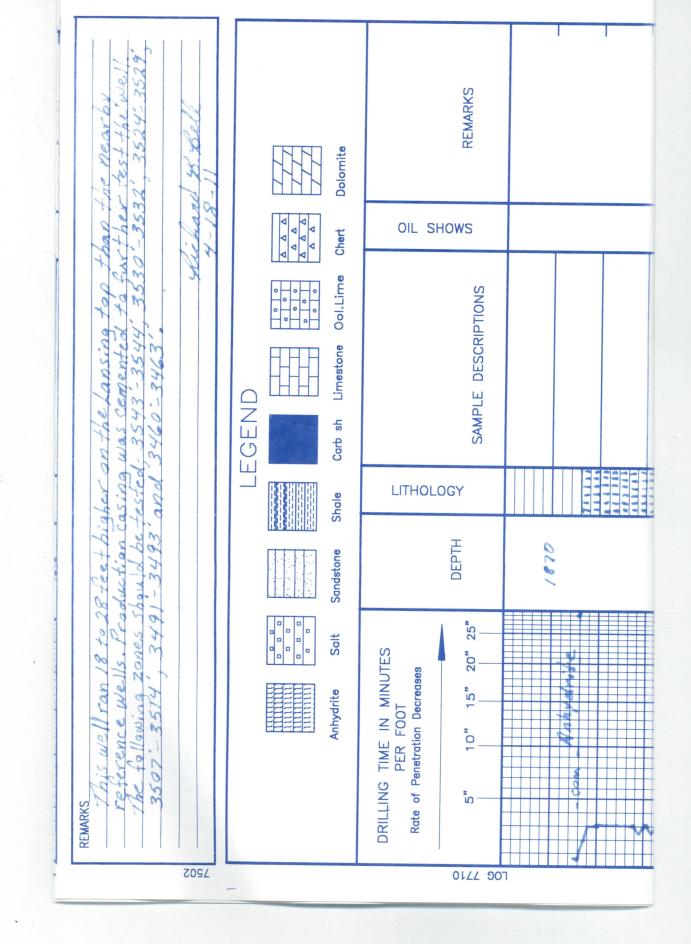


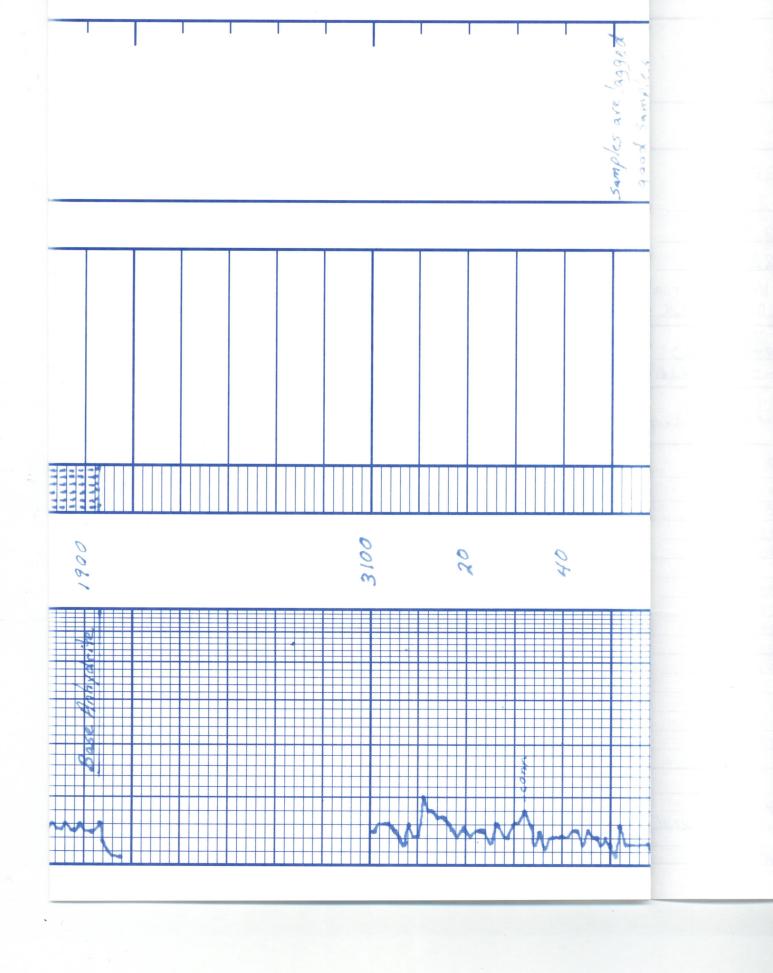
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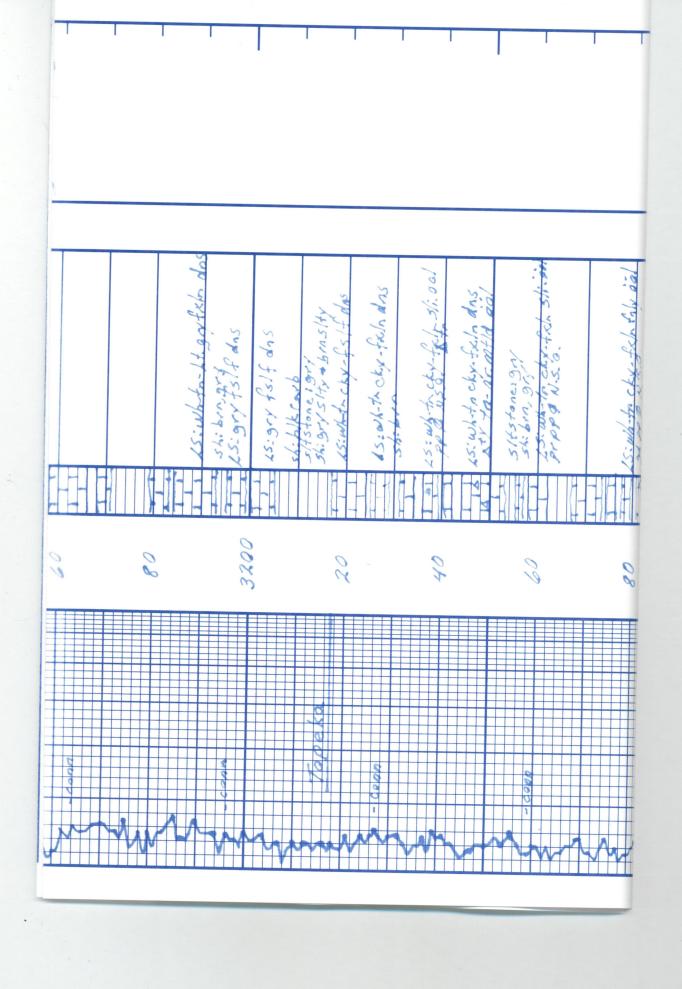
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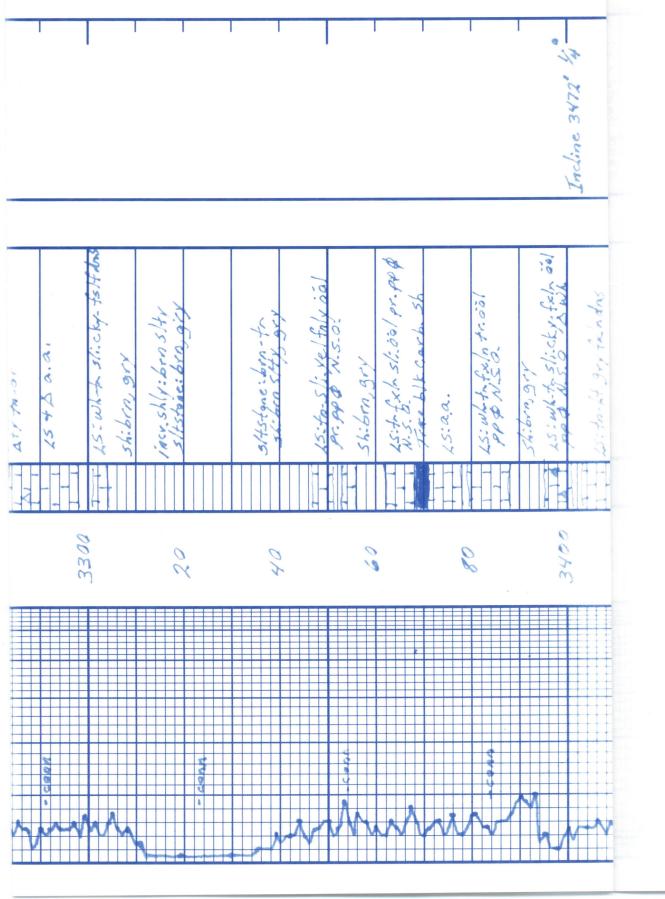
Ref. No: 42580

A.P.I. # 15-137-20553-00-00 GEOLOGICAL REPORT DRILLING TIME AND SAMPLE LOG COMPANY Baird Oil Company, LLC ELEVATION LEASE Sides/Anna Unit #/-3 KB 2225 FIELD Wildcat DF 2223 LOCATION 2585 FNL+1450 FEL 222 GI SEC <u>3</u> TWSP <u>45</u> RGE <u>21</u> Depths Measured From COUNTY Norton STATE Kansas Log<u>KB.</u>Drilling<u>KB.</u> CASING Surface CONTRACTOR WWDrilling Rig # 8 Production 51/2 @3730 SPUD 4-8-11 COMP 4-18-11 ELECTRIC LOGS SAMPLES SAVED FROM 3200' TO R.T.D. Superior Wall Sarvises FORMATION TOPS AND STRUCTURAL POSITION В С D E. LOG DATUM A SAMPLE FORMATION -0--8-1876 1876 + 349 Anhydrite + 338 + 331 Base Anhydrite 1903 + 322 + 398 + 301 1903 3217 - 992 -1019-1008 Topeka 3212 3418 3418 - 1193 -1218-1299 Heepner -1243-1235 3443 - 1218 3443 Toronto 3458-1233 -1261-1251 ansing 3458 -1451-1440 Base Kansas Cit 3647-1422 3646 Marmaton 3683 3683-1458 -1490 3718 -1493 3718 Precambrian -1550-1534 TotalDeoth 3731-1506 3730 REFERENCE WELLS Nat 1, Assoc. Peter Ray Sides#1, C. NW-SW Sec. 3-45-21W Baird Gillo, 11C. Annatt 1-10, 2160 FSI +1870 FWL Sec. 10-45-21W С Port Callar @ 1847' D





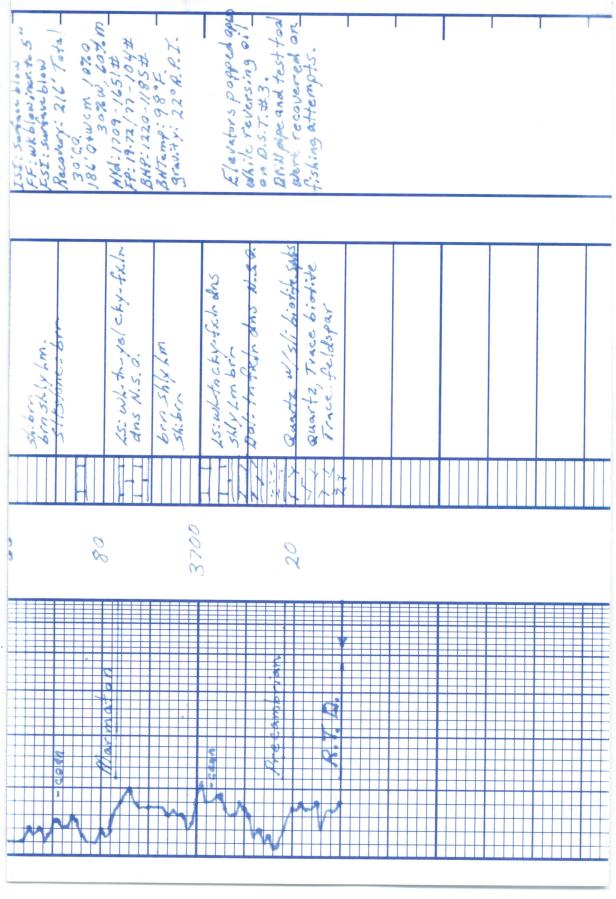




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| Board 3481.22<br>Strap 3479.06<br>Diff 2.16 | 15741 3449-3472<br>DST41 3449-3472<br>30-45-30-45<br>IF: B.O.B. in 7'2 MOIN.<br>IST: 2" 61000 back | FSE: 7" Washerch<br>Recevery: 682 6 T.P.<br>222 Total fluid<br>121 6 Mcc 3= 7.6 50 70<br>121 6 Mcc 3= 7.6 50 70<br>HVX: 1711 - 1675 4 | FP: 19-86/ 95-133# -<br>BHP: 1267-1250#<br>BHTEMP: 1000 F<br>Bravity: 400 N.P.L. | DST#2 3477, 3502 -<br>30-45.30-45<br>IF.B.O.B. in 19 min.<br>IST: Swrface blow                  | 851: 1" 610 "<br>Recovery: 213 Total<br>31 MCD 7580 252 M<br>62 GMC0 2026, 702 D<br>60 GMC0 5076, 407 0 | NYA: 1728- 1696 2026, 507.00  |
|---|--|---|--|---|---|---|
|   |  | <i>Z</i>  |  | 2   |   | 77  |
| 45: a.a.<br>54: 61<br>15: 452               | stratone: 3ry<br>stratone: 3ry<br>15: wh-th chydral, stipa   | 2 4   | 25: whith chy-falle dus<br>used the shicky-falle dus<br>Shi bron                 | 15: 14 to tale 20 Africable<br>2014 to 40 40 50 Arrisole<br>21- 20 24 ador: 54 t.<br>21- 60 5/4 | A 1940 for galance of galand  | LS: Whith full ool of the sol of |
|   |  |   |  |   |   |   |
| 20  | 40   | н.<br>С<br>С  | 80   | .CC.  | 20 C  | i vi  |
|   | 0  |   |  |   |   |   |
|   | Antan () A   |   |  |   |   | . AA  |

| BHP: 1255 -1235 E<br>BHTEMP: 97°F.<br>BHTEMP: 97°F.<br>33-45-30-45<br>FF: B.O.B. in 1972min.<br>FF: B.O.B. in 1972min.<br>FF: B.O.B. in 1972min.<br>FST: B.O.B. in 43min. | 2400'0:)<br>2400'0:)<br>180'C.O. dumped<br>180'C.O. dumped<br>180': 1711-1718#<br>84P: 1266-1236#<br>84P: 1266-1236# | DST#4 3511-3535<br>30-45-15-45<br>TF.B.Q.B.in 7 min.<br>TST: 8" 6/04<br>FF:B.0.B.in 30 Sec.<br>FST: 2" 6/04<br>Resvery: 449 70:44   | 434 6.0. 2076 8070<br>15 60cm 2026, 8070<br>15 60cm 2026, 2070<br>692 M<br>692 24-130/142-174#<br>847cmp 96 F.<br>372014, 29° A.P.I.                                 | DST#5 3535 - 3550'<br>30.45-30-45<br>IF: Whole initia 6 12" |
|---|--|---|--|---|
| LE Con 37<br>LE LS: Whytelp ad fr ppp<br>LS: Whytelp ad Str ppp<br>Arodot Duh, Argay<br>LS: Whytelp ans<br>LS: Whytelp ans<br>Duh, Argry<br>Shibrn, 3ry                   | 5/757000 3/7<br>14 1 25:40:5ry mt/4f5/f dns<br>14 1 24.0.3ry<br>14 1 25:0/fk/n dns<br>56:6rn, 3ry                    | Les whith slicky-fully<br>Les whith slicky-fully<br>a sth wheal was aday<br>Shibin slty gry<br>shibilk sorta a str<br>fribilk sorta a str<br>fribilk sorta a str<br>fribilk sorta a str | Shiben, 3ry<br>15: wh-trift an chy the<br>15: wh-trift an chy the<br>81k thick Stat 35tr<br>7. usphastick 1. f.a.<br>15: why trift yel fich<br>51:: chy das N. s. a. | shibinsly   |
|   | .H. 08   | 36007   | A C X X  |   |
|   |  |   |  |   |





## BILL TO

Baird Oil Company LLC PO Box 428 Logan, KS 67646

- Acidizing
- Cement
- Tool Rental

| We Ap  | preo   | ciate Your I   | Business  | 5!                            |    |         |                           | Total  |  | \$4,158.33   |
|--|--------|--|-----------|-------------------------------|----|---------|---------------------------|--|--|--|
|  |        | Cemen  | t surface |                               | mp | to      | e,                        |  |  |  |
|  |        | Sidest   |           | 2/2011<br>2/2011<br>10402 415 | 83 | 3       |                           |  |  |  |
|  |        | Subtotal<br>Sales Tax Norton Co  | unty      |                               |    |         |                           |  | 7.05%  | 4,013.80<br>144.53   |
| 575D<br>576D-S<br>290<br>325<br>278<br>279<br>581D<br>583D |        | Mileage - 1 Way<br>Pump Charge - Shall<br>D-Air<br>Standard Cement<br>Calcium Chloride<br>Bentonite Gel<br>Service Charge Cem<br>Drayage |           | 500 Ft.)                      |    | 5       | 1<br>150<br>4<br>3<br>150 | Miles<br>Job<br>Gallon(s)<br>Sacks<br>Sack(s)<br>Sack(s)<br>Sacks<br>Ton Miles | 5.00<br>750.00<br>35.00<br>12.00<br>35.00<br>25.00<br>1.50<br>1.00 | 400.00<br>750.00<br>35.00T<br>1,800.00T<br>140.00T<br>75.00T<br>225.00<br>588.80 |
| PRICE  |        |  | DESCRIPT  | ION                           |    | QTY     | ſ                         | UM   | UNIT PRICE   | AMOUNT   |
| Net 30   | #1-3   | Sides/Anna   | Norton    | WW Drilling #8                |    | Oil     | D                         | evelopment   | Surface  | Dave   |
| TERMS  | Well N | lo. Lease  | County    | Contractor                    | We | II Туре | W                         | ell Category   | Job Purpose  | e Operator   |

| Thank You! |                        |   |   |   |                                      | A SH   |  |
|------------|------------------------|---|---|---|--------------------------------------|--|--|
|            |                        | terials and services listed on this ticket. | ledges receipt of the mail  | CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket. | R ACCEPTANCE OF MAT                  |  | SWIFT OPERATOR   |
| 4158 33    | TOTAL                  | CUSTOMER DID NOT WISH TO RESPOND            |   | 100-7-06-700  | 9                                    | Not  | 00000  |
|            |                        | THOUR SERVICE?                              | ARE YOU SATISFIED W   |   | A.M.                                 | TIME SIGNED  | DATE SIGNED  |
| 144 53     | norton<br>TAX<br>7.05% | UIPMENT                                     | WE OPERATED THE EQUIPMENT<br>AND PERFORMED JOB<br>CALCULATIONS<br>SATISFACTORILY? |   | č                                    | START OF WORK OR DELIVERY OF GOODS   | START OF WORK OR DELIV   |
|            |                        | DELAY?                                      | MET YOUR NEEDS?<br>OUR SERVICE WAS  | SWIFT SERVICES, INC.  |                                      | TY provisions.   | LIMITED WARRANTY provisions  |
| 4013 80    | PAGE TOTAL             | ORMED AGREE DECIDED AGREE                   | SURVEY<br>OUR EQUIPMENT PERFORMED<br>WITHOUT BREAKDOWN?                           | REMIT PAYMENT TO:   | s and agrees to<br>of which include, | LEGAL TERMS: Customer hereby acknowledges and agrees to<br>the terms and conditions on the reverse side hereof which include,<br>but are not limited to <b>DAYMENT DELEASE INDEMNITY</b> and | LEGAL TERMS: Cu<br>the terms and condition<br>but are not limited to |
|            |                        |   |   |   |                                      |  |  |
|            |                        |   |   |   |                                      |  |  |
| 08 885     | (100                   | S87.8 Zm                                    | S   | SHANALS   | Q.                                   |  | 8  |
| 225 00     | 150                    | 50 54                                       |   | Selvice CHC Cont  |                                      |  | 29/<br>1/82  |
|            | 25 60                  | 200   |   | BENYON YE GEL   | , e                                  |  | 520  |
|            | L'_                    | 4 54  |   | CALCIUM CHOOLIS   | r                                    |  | 820  |
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| 35 00      |                        | 1 GAz                                       |   | Ohia  |                                      |  | 290  |
| -+         | na ax                  |   |   | fung SERVICE  | ~                                    |  | 5765   |
| 400 00     | Soo                    | 80 m  |   | MILEAGE #//2  |                                      |  | 575  |
| AMOUNT     | UNIT                   | QTY. UM QTY. UM                             |   | DESCRIPTION   | LOC ACCT DF                          | SECONDARY REFERENCE/<br>PART NUMBER  | PRICE  |
|            |                        |   |   |   | IONS                                 | INVOICE INSTRUCTIONS   | REFERRAL LUCATION  |
|            | WELL LOCATION          | KS-WZ-20553                                 | × WEL   | DEELOP SURACE   |                                      | OK   | 4.   |
|            | ORDER NO.              | SMORE                                       | VIA 1   | WEIL CATEGORY LIGB DUBDORE  |                                      |  | 3.   |
| OWNER      | 2-1                    |   |   | KS / ANNAUNIN   |                                      |  | 1. HAS   |
| OF         | PAGE 1                 |   |   |   | CITY, STA                            |  | Services   |
| 42         | 19642                  |   |   |   | ADDRESS                              |  |  |
| -          | TICKET                 |   |   | BAIRD Die   |                                      | VIFT   | 1S   |
|            |                        |   |   |   |                                      |  |  |

| JOB L                                 | OG      |               |                       |              | SWIFT S       | ervices      | Inc.                | DATE 04-08-11 PAGE NO |
|---------------------------------------|---------|---------------|-----------------------|--------------|---------------|--------------|---------------------|-----------------------|
| CUSTOMER                              | BAIRDON | L             | WELL NO.              |              | LEASE SADES/A | NA ANIT      | 100 50/05           | тіскет NO. 19642      |
| CHART<br>NO.                          | TIME    | RATE<br>(BPM) | VOLUME<br>(BBD) (GAL) | PUMPS<br>T C | PRESSURE (PS  | SI)<br>ASING | DESCRIPTION OF OPER |                       |
|                                       | ISDO    |               |                       |              |               |              | ONLOCATION          |                       |
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|                                       | 1615    |               |                       |              |               | BRE          | AUCIRC              |                       |
|                                       |         |               |                       |              |               |              |                     |                       |
|                                       | 16BO    |               | 2                     |              | -             | Ha           | US PACER            |                       |
|                                       |         |               |                       |              |               |              |                     |                       |
|                                       |         |               | 36.5                  | 1            |               | Cn           | 17                  |                       |
|                                       |         |               |                       |              |               |              |                     |                       |
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|                                       | luce    |               | 12.0                  |              |               |              |                     | ~                     |
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| · · · · · · · · · · · · · · · · · · · |         |               |                       |              |               | 0            | OB COMPLETE         |                       |
|                                       |         |               |                       |              |               |              |                     |                       |
|                                       |         |               |                       |              |               |              | THAN INT            | 1!                    |
|                                       |         |               |                       |              |               |              | DAVE, JOSAB         |                       |
|                                       |         |               |                       |              |               |              | JAVE, VERD          | VAUD                  |
|                                       |         |               |                       |              |               |              |                     |                       |
|                                       |         |               |                       |              |               |              |                     |                       |
|                                       |         |               |                       |              |               |              |                     |                       |
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|                                       |         |               |                       |              |               |              |                     |                       |
|                                       |         |               |                       |              |               |              |                     |                       |



- Acidizing
- Cement
- Tool Rental

Baird Oil Company LLC PO Box 428 Logan, KS 67646

BILL TO

| TERMS   | Well N | lo. Lease   | County  | Contractor   | We          | II Туре                          | W   | ell Category  | Job Purpose  | Operator   |
|---|--------|---|---|--|-------------|----------------------------------|---|---|--|--|
| Net 30  | #1-13  | 3 Sides/Anna  | Norton  | WW Drilling #8   |             | Oil                              | D   | evelopment  | LongString   | Dave   |
| PRICE   | REF.   |   | DESCRIPT  | ION  |             | QTY                              | Y   | UM  | UNIT PRICE   | AMOUNT   |
| 575D<br>578D-L<br>221<br>280<br>290<br>402-5<br>403-5<br>404-5<br>406-5<br>407-5<br>411-5<br>325<br>326<br>276<br>277<br>283<br>285<br>581D<br>583D |        | Mileage - 1 Way<br>Pump Charge - Long<br>Liquid KCL (Clayfix<br>Flocheck 21<br>D-Air<br>5 1/2" Centralizer<br>5 1/2" Centralizer<br>5 1/2" Port Collar<br>5 1/2" Port Collar<br>5 1/2" Insert Float SI<br>5 1/2" Insert Float SI<br>5 1/2" Recipo Scratc<br>Standard Cement<br>60/40 Pozmix (2% C<br>Flocele<br>Gilsonite (Coal Seal<br>Salt<br>CFR-1<br>Service Charge Cem<br>Drayage<br>Subtotal<br>Sales Tax Norton Co | et<br>Plug & Baffle<br>noe With Auto<br>her<br>Gel)<br>)<br>ent<br>Sides Phr<br>Sides Phr<br>Cement 3 | Fill<br>Ry/20/204<br>Py/20/2011<br>190402<br>mg Unit 1-3-<br>+ other misc c<br>nt production | Ru<br>Kpen: | 1,02<br>29.7:<br>Mp Ch<br>Ses us | 1<br>2<br>500<br>2<br>11<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>30<br>200<br>40<br>50<br>280<br>,550<br>100<br>240<br>23.06 | Gallon(s)<br>Gallon(s)<br>Each<br>Each<br>Each<br>Each<br>Each<br>Sacks<br>Sacks<br>Lb(s)<br>Lb(s)<br>Lb(s)<br>Sacks<br>Ton Miles | 5.00<br>1,400.00<br>25.00<br>2.50<br>35.00<br>65.00<br>230.00<br>2,100.00<br>225.00<br>300.00<br>45.00<br>12.00<br>9.50<br>1.50<br>0.60<br>0.15<br>4.00<br>1.50<br>1.00<br>7.05% | 400.00<br>1,400.00<br>50.00T<br>1,250.00T<br>70.00T<br>715.00T<br>2,100.00T<br>2,100.00T<br>1,350.00T<br>2,400.00T<br>380.00T<br>75.00T<br>168.00T<br>232.50T<br>400.00T<br>360.00<br>1,023.06 |
| We A  | ppre   | ciate Your  | Busines   | s!   |             | 1                                |   | Tota  | I ,  | \$13,829.72  |

|               |               |  |   | -  |  | MORINA  | 4                                 |
|---------------|---------------|--|---|--|--|---|-----------------------------------|
| Thank You!    |               |  |   | OVAL   | APPROVAL                                 | A. C.A.H.   | SWIFT OPERATOR                    |
|               | et.           | aterials and services listed on this ticke | nowledges receipt of the ma   | CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket | OMER ACCEPTANCE OF                       | CUST  |                                   |
| 01 120 101    |               | CUSTOMER DID NOT WISH TO RESPOND           |   | 100-1-00-1-000   |  |   | 11-81-40                          |
|               | TOTAL         |  | ARE YOU SATISFIED W   | 705 700 3200   | A.M.                                     | TIME SIGNED   | DATE SIGNED                       |
| 2 701 16      | 1.05%         |  | WE OPEKALED THE ECUIPMENT<br>AND PERFORMED JOB<br>CALCULATIONS<br>SATISFACTORILY? | P.O. BOX 466   |  | START OF WORK OR DELIVERY OF GOODS  | START OF WORK OR D                |
| ACT AS A LONG | Toth          | DELAY?                                     | PERFORMED WITHOUT   | SWIFT SERVICES, INC.   | DRIOP TO                                 | LIMITED WARRANTY provisions.  | LIMITED WARF                      |
|               | 305           |  | MET YOUR NEEDS?   |  | E, INDEMNITY, and                        | but are not limited to, PAYMENT, RELEASE, INDEMNITY, and  | but are not limite                |
| 5038 56       | PAGE TOTAL    | DECIDED                                    | OUR EQUIPMENT PERF  | <b>REMIT PAYMENT TO:</b>   | edges and agrees to ereof which include, | LEGAL TERMS: Customer hereby acknowledges and agrees to<br>the terms and conditions on the reverse side hereof which include, | LEGAL TERMS:<br>the terms and cor |
| Rogo          |               | ACREE UN- DIS-                             | SUBVEY  |  |  |   |                                   |
| a) USO a      | 45 6          | 30 60                                      |   | RECIPSSCUTCHERS  | \<br>                                    |   | 114                               |
| 0 300 00      | 500 W         | 1 64                                       |   | THERE FORT SHOE  | \<br>\                                   |   | 407                               |
| 215           | 225 00        | 1 64                                       |   | LATCHDOWNING & BAFFIE  | ~  |   | 104                               |
| <i>a</i> /00  | 2/00 00       | 1 64                                       | 1347151   | Poer Count   | >  |   | 404                               |
| a) a/0 00     | 230 6         | 1 64                                       |   | BASHET   | >  |   | 403                               |
| 00 7/5 a      | 650           | 11 En 5/2 10                               |   | CENTIA KIZER   | >  |   | Yea                               |
| 0 70 W        | 35 00         | 2 612                                      |   | J-AIR  | 1  |   | 088                               |
| 0 1250 00     | 2 50          | SOO 6M                                     | 6   | FLOCHECH21   |  |   | 086                               |
| 0 50 00       | 25 00         | 2 Conc                                     |   | LIQUIDHEL  | /  |   | 221                               |
| 1             | 1400 00       | 1 61                                       |   | Amp Service  | /  |   | 578                               |
| 400 00        | 5 00          | 80 mi                                      |   | MILEAGE #112   | \<br>\                                   |   | 518                               |
| AMOUNT        | PRICE         | QTY. UM QTY. UM                            | 0   | DESCRIPTION  | LOC ACCT DF                              | SECONDARY REFERENCE/<br>PART NUMBER   | PRICE                             |
| -             |               | -  | -   |  |  | INVOICE INSTRUCTIONS  | REFERRAL LOCATION                 |
|               | 53 + 4/121    | 15-15- 22553                               | 15  |  | DE                                       | DIL   | 4.                                |
|               | WELL LOCATION | PERMIT NO.                                 |   | WELL CATEGORY JOB PURPOSE  | WELL C                                   | SALES WELL TYPE   |                                   |
|               | ORDER NO.     | ERED TO                                    | VIA VIA   | RIG NAME/NO.   | CONTRACTOR                               |   | 2. NESS                           |
| OWNER         | 1-18-11       | DATE                                       | STATE CITY  | S ANNA LINT NORY I   | NO. LEASE                                | WELL/PROJECT NO   | SERVICE LOCATIONS                 |
|               | PAGE          |  |   | ODE  | CITY, STATE, ZIP CODE                    | Services, Inc.  | Serv                              |
| 2             |               |  |   |  |  |   |                                   |
| 49            | 19649         |  |   | BAIRODIL   | *  | VIFI  | S                                 |
| T             | TICKET        |  |   |  | CHARGE TO:                               | A A A A A A A A A A A A A A A A A A A   |                                   |

|                                  |                |      |       |  |       |      |  |      | SES         | 531           | 295       | Sec.   | 077       | 276     | Ja6             | 305     | PRICE                               | Service                                  | MS                  |
|----------------------------------|----------------|------|-------|--|-------|------|--|------|-------------|---------------|-----------|--------|-----------|---------|-----------------|---------|-------------------------------------|--|---------------------|
|                                  |                |      |       |  |       |      |  |      |             |               |           |        |           |         |                 |         | SECONDARY REFERENCE/<br>PART NUMBER | Ne O                                     | IFT                 |
|                                  |                |      |       |  |       |      |  |      | 2           |               | <u>کی</u> | X      |           | &       | <u>لا</u>       |         | LOC ACCT DF TIME                    | Ness City, KS 67560<br>Off: 785-798-2300 | PO Box 466.         |
| CHARGE TOTAL WEIGHT LOADED MILES | SERVICE CHARGE |      |       |  |       |      |  |      | MANACE      | SELUCECHECONT | CF2+      | SP     | GUSSOLITE | FLOCELE | to-10 Jx 2 Jase | SED CM7 | E                                   | CUSTOMER BAIROUL                         | TICKET CONTINUATION |
| TON MILES                        | CUBIC FEET     |      |       |  |       |      |  |      | 1023.06 711 | 42 CY6        | 100 46    | 150 13 | 30 16     | 54      | 42 54           | dw 54   | QTY. U/M QTY. U/M                   | WELL / K3 / SIDES / ANNA UNIT            |                     |
|                                  |                |      | <br>- |  | <br>_ | <br> |  | <br> | 100         | 1 50          | 4 00      | 2      | 60        | 150     | 3 S             | 12 00   | UNIT                                | DATE 4-18-11                             | TICKET No. 19649    |
|                                  |                | <br> | <br>  |  |       |      |  | <br> | 1023 06     | 360 00        | 400 00    | 232 50 | 168 00    | 00 52   | 00 06V          | 24000   | AMOUNT                              | PAGE OF                                  |                     |

| JOB LO   | G       |  |                       |              | SWIFI             | Servi      | ces, Inc.  | DATE OH-18-11 PAGE,NO. |
|--|---------|--|-----------------------|--------------|-------------------|------------|--|------------------------|
| CUSTOMER   | BAIRDON | 1  | WELL NO.              | }            | LEASE<br>SLOES/AN | INA LOW    | JOB TYPE<br>LONGSTRING   | TICKET NO. 19649       |
| CHART<br>NO.   | TIME    | RATE<br>(BPM)                                | VOLUME<br>(BBD) (GAL) | PUMPS<br>T C | PRESSUR           |            | DESCRIPTION OF OPERATIO  |                        |
| Construction of the local distance of the lo | 095     |  |                       |              |                   |            | ONCOCATION   |                        |
|  |         |  |                       |              |                   |            | CMT ! 40500 60-40 2%   | SE, TEROMITE           |
|  |         |  |                       |              |                   |            | 200515 500 181   | SMT /LCFR, HAFLO       |
|  |         |  |                       |              |                   |            |  |                        |
|  |         |  |                       |              |                   |            | RED 3730, SETTIGEO 372   | 9, 57 23.35, 7.3517372 |
|  |         |  |                       |              |                   |            | RTD 3730, SETPIPEO 372<br>51/214# PORT COUSROWT<br>CENT 1-10, BASAT 41 | Sp#41, DAFFI           |
| -  |         |  |                       |              |                   |            | CENT 1-10, BASIST 41   | 1847)                  |
|  |         |  |                       |              |                   |            | RECIPISCUTTURES 1-10   | 3EA                    |
|  |         |  |                       |              |                   |            |  |                        |
|  | 1230    |  |                       |              |                   |            | START OSL & FROMT EQU  |                        |
|  | 1225    |  |                       |              |                   |            | TAL BOTTEM - DROP BAC  |                        |
|  | 1230    |  |                       |              |                   |            | Bleau Ciac & Pecipeane Pipe  |                        |
|  | 1335    |  | 7.                    |              |                   |            | PLUG RH 30 Sus 60-40   |                        |
|  | 1340    | 5.0  | 15                    | ~            |                   | 200        | UKI FLUDH  |                        |
|  |         | $\square$                                    | 12                    | -            |                   | $\bigcap$  | FLOCHECH - 21 SOUCHS   |                        |
|  |         |  | 5                     |              |                   | (          | Mi Fush  |                        |
|  | 1362    | <u>├                                    </u> | 4.0                   | -            |                   | }          | 60.40 CM7  |                        |
|  | 1355    | ,  | 43.5                  |              |                   | /          | STO CAT  |                        |
|  |         |  |                       |              |                   |            | Do peo pur, wasit,   |                        |
|  | 1400    | 6.0  | 0                     |              |                   | 206        | STARTDIS   |                        |
|  |         |  | 40.5                  | -            |                   | 200<br>650 | CM7 ONBERM   |                        |
|  |         |  | 75                    |              |                   |            |  |                        |
|  |         |  | 80                    |              |                   | 750        |  |                        |
|  |         |  | 85                    | -            |                   | 850        | 10 0 12.0  |                        |
|  | 1415    | 4.5  | 90,5                  |              |                   | 1400       | LAND PLUC<br>NELEME- DRY   |                        |
|  |         |  |                       |              |                   |            | VICIENSE - DRY   |                        |
|  |         |  |                       |              |                   |            |  |                        |
|  |         |  |                       |              |                   |            |  |                        |
|  |         |  |                       |              |                   |            |  |                        |
|  | 100     |  |                       |              |                   |            | Tot on horse   |                        |
|  | 1500    |  |                       |              |                   |            | JOB COMPLETE   | x el                   |
|  |         |  |                       |              |                   |            | DAVE, JOSH B. M.   | ho                     |
|  |         |  |                       |              |                   |            | DAR, USH DIR   | 035                    |
|  |         |  |                       |              |                   |            |  |                        |
|  |         |  |                       |              |                   |            |  |                        |
|  |         |  |                       |              |                   |            |  |                        |
|  |         |  |                       |              |                   |            |  |                        |



## BILL TO

Baird Oil Company LLC PO Box 428 Logan, KS 67646

- Acidizing
- Cement
- Tool Rental

| TERMS  | Well N | lo. Lease                   | County   | Contractor        | We                   | II Туре               | W                             | ell Category                | Job Purpose   | Operator  |
|--|--------|-----------------------------|--|-------------------|----------------------|-----------------------|-------------------------------|-----------------------------|---|---|
| Net 30   | #1-13  | 3 Sides-Anna                | Norton   | Alliance Well Ser |                      | Oil                   | D                             | evelopment                  | Cement Port Colla   | Dave  |
| PRICE  | REF.   |                             | DESCRIPT   | ION               |                      | QTY                   | Y                             | UM                          | UNIT PRICE  | AMOUNT  |
| 575D<br>576D-D<br>290<br>105<br>330<br>276<br>581D<br>583D |        | Ceme<br>USe<br>Side<br>Side | pol Rental With<br>Standard (MIE<br>ent<br>punty<br>RY/a<br>PY/a<br>SAnn<br>SAnn<br>SAnn<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna<br>SAnna $SAnnaSAnnaSAnnaSAnna$ $SAnna$ $SAnnaSAnna$ $SAnna$ $S$ |                   | xper<br>21.1<br>21.1 | 2 chan<br>ses<br>5 of | 1<br>200<br>50<br>225<br>98.4 | Lb(s)<br>Sacks<br>Ton Miles | 5.00<br>1,100.00<br>35.00<br>300.00<br>15.00<br>1.50<br>1.00<br>7.05% | 400.00<br>1,100.00<br>70.00T<br>3,000.00T<br>75.00T<br>337.50<br>898.40<br>6,180.90<br>242.87 |
| We A   | ppre   | ciate Your                  | Busines  | s!                |                      |                       |                               | Tota                        | I   | \$6,423.77  |

| Inang Iou: |               |                            |   |  |   | APPROVAL              |                            | helt   | SWIFT OPERATOR  |
|------------|---------------|----------------------------|---|--|---|-----------------------|----------------------------|--|---|
|            |               | ces listed on this ticket. | lges receipt of the materials and services listed on this ticket                  | owledges receipt of  | CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowled | ANCE OF MATERIA       | R ACCEPT.                  | CUSTOME  |   |
| 6423 T-    | TOTAL         | TO RESPOND                 | CUSTOMER DID NOT WISH TO RESPOND  | ARE YOU SATIS  |   | P.M.                  |                            | TIME SIGNED  | DATE SIGNED   |
| 242 87     | Tax gz        | 5<br>                      | WE OPERATED THE EQUIPMENT<br>AND PERFORMED JOB<br>CALCULATIONS<br>SATISFACTORILY? | WE OPERATED<br>AND PERFORME<br>CALCULATIONS<br>SATISFACTORIL |   | 7                     | R TO                       | MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO<br>START OF WORK OR DELIVERY OF GOODS                              | MUST BE SIGNED BY CU<br>START OF WORK OR DE                             |
|            |               |                            | DD AND<br>DS?<br>THOUT DELAY?   | WE UNDERSTOC<br>MET YOUR NEEL<br>OUR SERVICE WI              | SWIFT SERVICES, INC.  |                       | DEMNITY                    | but are not limited to, <b>PAYMENT</b> , <b>RELEASE</b> , <b>INDEMNITY</b> , and <b>LIMITED WARRANTY</b> provisions.       | but are not limited to, <b>PAYMENT</b> ,<br>LIMITED WARRANTY provisions |
| 6180 80    | PAGE TOTAL    | DECIDED AGREE              | SURVEY AGREE<br>MENT PERFORMED<br>REAKDOWN?                                       | OUR EQUIPMEN<br>WITHOUT BREAK                                | REMIT PAYMENT TO:   |                       | s and agroups of which inv | LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, | <b>LEGAL TERMS:</b> (<br>the terms and conc                             |
| +          |               |                            |   |  |   |                       |                            |  |   |
|            |               |                            |   |  |   |                       |                            |  |   |
| 0/ 620     | 100           |                            | 892,4 Tm  |  | DANKE   | - CP                  | ه                          |  | \$2   |
|            | 1 50          |                            | obs su  |  | Sauce CHE CAT   | Sa                    | r                          |  | 18  |
| 200        | 201           |                            | 50 60   |  | FLOCELE   | Ru                    | æ                          |  | 276   |
| 3000 00    | 1500          |                            | aloc Su   |  | SAU CAT   | 5                     | e                          |  | S30   |
| 300 00     | 300 W         | 5/2 m                      | 13  |  | BITCER HATON  | A                     | /                          |  | 105   |
| 70 00      | 35 00         |                            | 2 GAR   |  | O AVE   | D,                    | /                          |  | 290   |
| 1100 00    | 110000        |                            | A3 1  |  | 2   | D                     |                            |  | 576.1   |
| 400 a      | S a           |                            | 14 08   |  | (GE #///)   | MILEAGE               | ~                          |  | 225   |
| AMOUNT     | PRICE         | QTY. U/M                   | QTY. UM   |  | DESCRIPTION   | CT DF                 | ACCOUNTING                 | SECONDARY REFERENCE/<br>PART NUMBER  | PRICE   |
|            |               |                            |   |  |   |                       | SN                         | INVOICE INSTRUCTIONS   | REFERRAL LOCATION   |
|            |               |                            |   | M  | 0   | DEVELOP               |                            | WELL IFFE  | 4.  |
|            | WELL LOCATION | 1C WELL                    | NE RASADO   | KIT.   | LIOB PURPOSE  | WELL CATEGORY         |                            | CE   | 3.  |
|            | R NO.         | ORDER NO.                  | DELIVERED TO  | SHIPPED  | NUES ANDA CADIT NOR TOP   | N/Samo                | CONTRACTOR                 | TICKET TYPE CON  |   |
| R          | E OWNER       | DATE                       | CITY  | STATE  | COUN  | LEASE                 |                            | WELL/PROJECT NO.   | SERVICE LOCATIONS   |
|            | PAGE 1        |                            |   |  |   | CITY, STATE, ZIP CODE | CITY, ST                   | ices, Inc.   | Services  |
| 4          | 19654         |                            |   |  | OIL   | S DATACK              | ADDRESS                    |  |   |
|            | TICKET        |                            |   |  | 2   |                       | CHARGE TO:                 | VIET   | CI  |

| JOBLO                   | ĴG      |               |          |     |   | SWIFT   | Servi      | ces, Inc.             |                | DATE OSI-21-11 PAGE NO. |
|-------------------------|---------|---------------|----------|-----|---|---------|------------|-----------------------|----------------|-------------------------|
| CUSTOMER                | AIRDDIC |               | WELL NO. | 3   |   | LEASE   | -ANNA      | UNIT JOB TYPE PORTCOL | ith            | TICKET NO. 19654        |
| CHART<br>NO.            | TIME    | RATE<br>(BPM) | VOLUME   | PUM |   | PRESSUR |            |                       | OF OPERATION A | ND MATERIALS            |
|                         | 0830    |               |          |     |   |         |            | ONLOCATION            |                |                         |
|                         |         |               |          |     |   |         |            | CM7: 225              | sus SM         | 0 14# Fro               |
|                         |         |               |          |     |   |         |            | 2318x51/2             |                |                         |
|                         |         |               |          |     |   |         |            | Potraine              | 1847           |                         |
|                         |         |               |          |     |   |         |            |                       |                |                         |
|                         | 0845    |               |          |     |   |         |            | START TELETON         | -12            |                         |
|                         | 0850    |               |          |     |   |         |            | LOCATE P.C.           |                |                         |
|                         | 1000    |               |          | ~   | - | 1000    | 1000       | PSZ TAST              |                |                         |
|                         |         |               |          |     |   |         |            | Open PC               | -              |                         |
|                         | 1010    | 2.0           | 30       | /   |   | 300     |            | InJRATE, GOOD.        | BLOW           |                         |
|                         |         | 45            | 0        | /   |   | 450     |            | START CM7             |                |                         |
|                         |         |               | 5.0      | -   |   | C       |            | CIEC-MUD              |                |                         |
| No. of Concession, Name |         |               | 97       | -   |   |         |            | CIPC. CMT TO P.       |                |                         |
|                         |         |               | 105      | -   |   |         |            | MIX DOSUSE KI#        | -              |                         |
|                         | 1035    | /             | 6.0      | -   |   | Sou     |            | START DISP            |                |                         |
|                         |         | -             |          |     |   |         |            | CLOSER                |                |                         |
|                         | 1010    |               |          | -   | - | 1100    | 1100       | PST TEST              |                |                         |
|                         |         |               |          |     |   |         |            | RUN IN SOOM           | 5              |                         |
|                         | 1055    | 2.5           | D        |     | 1 |         | 20         | REUDUT                |                |                         |
|                         |         | $\square$     | 6        |     | - |         | C          | ISTFLAG               |                |                         |
|                         |         |               | 10       |     | - |         | <u>}</u> . | 200 Fiki              |                |                         |
|                         | 1125    |               | 20       |     | - |         |            | ALICIEAN              |                |                         |
|                         |         |               |          |     |   |         |            |                       | Tom            | RCMT 20055              |
|                         |         |               |          |     |   |         |            |                       | CM7.           | TO p17: > 15515         |
|                         |         |               |          |     |   |         |            | Pur 7368 7002         |                |                         |
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