



KANSAS CORPORATION COMMISSION 1072795  
OIL & GAS CONSERVATION DIVISION

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

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33190  
Name: Noble Energy, Inc.  
Address 1: 1625 Broadway, Ste 2200  
Address 2:  
City: DENVER State: CO Zip: 80202 +  
Contact Person: Cheryl Johnson  
Phone: (303) 228-4437  
CONTRACTOR: License # 8273  
Name: Excell Services, LLC  
Wellsite Geologist: NA  
Purchaser:

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

If Workover/Re-entry: Old Well Info as follows:  
Operator:  
Well Name:  
Original Comp. Date: Original Total Depth:  
 Deepening  Re-perf.  Conv. to ENHR  Conv. to SWD  
 Conv. to GSW  
 Plug Back: Plug Back Total Depth  
 Commingled Permit #:  
 Dual Completion Permit #:  
 SWD Permit #:  
 ENHR Permit #:  
 GSW Permit #:  
12/28/2011 12/29/2011 12/29/2011  
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 15-023-21336-00-00  
Spot Description:  
N2 NE SE SW Sec. 28 Twp. 5 S. R. 40  East  West  
1209 Feet from  North /  South Line of Section  
2310 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Cheyenne  
Lease Name: Krien Well #: 24-28  
Field Name:  
Producing Formation: Niobrara  
Elevation: Ground: 3652 Kelly-Bushing: 3658  
Total Depth: 1633 Plug Back Total Depth: 1562  
Amount of Surface Pipe Set and Cemented at: 388 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: Feet  
If Alternate II completion, cement circulated from:  
feet depth to: w/ sx cmt.

Drilling Fluid Management Plan  
(Data must be collected from the Reserve Pit)  
Chloride content: 0 ppm Fluid volume: 0 bbls  
Dewatering method used: Evaporated  
Location of fluid disposal if hauled offsite:  
Operator Name:  
Lease Name: License #:  
Quarter Sec. Twp. S. R.  East  West  
County: Permit #:

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: Deanna Garlock Date: 01/27/2012



1072795

Operator Name: Noble Energy, Inc. Lease Name: Krien Well #: 24-28  
 Sec. 28 Twp. 5 S. R. 40  East  West County: Cheyenne

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

|  |   |       |     |       |          |      |  |
|--|---|-------|-----|-------|----------|------|--|
| Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><i>(Attach Additional Sheets)</i><br><br>Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><br>Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><i>(If no, Submit Copy)</i><br><br>List All E. Logs Run:<br><br>Triple Combo | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample<br><br><table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Niobrara</td> <td>1376</td> <td></td> </tr> </table> | Name  | Top | Datum | Niobrara | 1376 |  |
| Name   | Top   | Datum |     |       |          |      |  |
| Niobrara   | 1376  |       |     |       |          |      |  |

| CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used |                   |                           |                   |               |                |              |                            |
|---|-------------------|---------------------------|-------------------|---------------|----------------|--------------|----------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc.           |                   |                           |                   |               |                |              |                            |
| Purpose of String   | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| Surface   | 9.875             | 7                         | 17                | 387.8         | 50/50 POZ      | 190          | 3%CaCl 2% gel              |
| Production  | 6.25              | 4.5                       | 10.5              | 1603.4        | 50/50 POZ      | 143          | 12% gel 2% CaCl            |
|   |                   |                           |                   |               |                |              |                            |

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

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

|                |       |         |            |   |
|----------------|-------|---------|------------|---|
| TUBING RECORD: | Size: | Set At: | Packer At: | Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No |
|----------------|-------|---------|------------|---|

|   |   |         |             |               |         |
|---|---|---------|-------------|---------------|---------|
| Date of First, Resumed Production, SWD or ENHR. | Producing Method:<br><input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____ |         |             |               |         |
| Estimated Production Per 24 Hours               | Oil Bbbs.   | Gas Mcf | Water Bbbs. | Gas-Oil Ratio | Gravity |

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



# BISON

Bison Oil Well Cementing Inc.  
 1738 Wynkoop St.  
 Suite 102  
 Denver, CO 80202  
 303-296-3010

## Invoice

DC  
PV

|            |           |
|------------|-----------|
| Date       | Invoice # |
| 12/18/2011 | 10801     |

|  |
|--|
| Bill To  |
| Excell Services, LLC<br>36629 US HIGHWAY 385<br>Wray, CO 80758 |

| Location         | Well Name & No.                 | Terms  | Job Type |          |          |
|------------------|---------------------------------|--------|----------|----------|----------|
| Cheyenne KS      | Krion 24-28                     | Net 30 | Surface  |          |          |
| Item             | Description                     | Qty    | U/M      | Rate     | Amount   |
| Pump surface     | PUMP Change surface pipe        | 1      |          | 1,400.00 | 1,400.00 |
| MILEAGE          | Mileage charge 2 trucks x 60 mi | 120    |          | 4.00     | 480.00   |
| MILEAGE          | Mileage charge/ Pick up         | 85     |          | 1.50     | 127.50   |
| Data Acquisition | Data Acquisition Charge         | 1      |          | 225.00   | 225.00   |
|                  | Subtotal of Services            |        |          |          | 2,332.50 |
| B3-Lite Summit   | 50/50 Poz (1%)                  | 190    | Sack     | 16.50    | 3,135.00 |
| Discount 10%     | Discount 10%                    |        |          | -10.00%  | 313.50   |
| Wood Plug 7"     | Wood Plug 7"                    | 1      |          | 79.95    | 79.95    |
|                  | Subtotal of Materials           |        |          |          | 2,901.45 |

Please Remit Payment To:

Bison Oil Well Cementing, Inc.  
 P.O. Box 29674  
 Thornton, CO 80229

|                  |                   |
|------------------|-------------------|
| Subtotal:        | \$5,132.95        |
| Sales Tax (8.3%) | \$240.82          |
| <b>Total</b>     | <b>\$5,373.77</b> |
| Balance Due      | \$5,373.77        |

Billing Category # 1015  
 Unit # or Rig # R2  
 AFE # \_\_\_\_\_  
 Addl. Info for Desc SURFCHG, Krion 24-28

x 110%  
 \$5,912.25

RECEIVED

Approved By [Signature]

JAN 04 2012

**BISON OIL WELL CEMENTING, INC.**



1738 Wynkoop St., Ste. 102  
 Denver, Colorado 80202  
 Phone: 303-298-3010  
 Fax: 303-298-8143  
 E-mail: bisonoil@qwestoffice.net

REF. INVOICE # 12801  
 LOCATION Wheeler  
 FOREMAN Travis

**TREATMENT REPORT**

|                                      |                                 |                      |                                      |                   |                           |           |
|--------------------------------------|---------------------------------|----------------------|--------------------------------------|-------------------|---------------------------|-----------|
| DATE<br><u>12-28-11</u>              | WELL NAME<br><u>Krion 24-28</u> | SECTION<br><u>28</u> | TWP<br><u>5S</u>                     | RGE<br><u>40W</u> | COUNTY<br><u>Cheyenne</u> | FORMATION |
| CHARGE TO <u>Excell</u>              |                                 |                      | OWNER <u>Noble</u>                   |                   |                           |           |
| MAILING ADDRESS                      |                                 |                      | OPERATOR                             |                   |                           |           |
| CITY                                 |                                 |                      | CONTRACTOR <u>Excell rig 2</u>       |                   |                           |           |
| STATE ZIP CODE                       |                                 |                      | DISTANCE TO LOCATION <u>85 miles</u> |                   |                           |           |
| TIME ARRIVED ON LOCATION <u>2 pm</u> |                                 |                      | TIME LEFT LOCATION <u>4 pm</u>       |                   |                           |           |

| WELL DATA                     |                  |               | PRESSURE LIMITATIONS                             |  |                                |  |
|-------------------------------|------------------|---------------|--|--|--------------------------------|--|
| HOLE SIZE                     | TUBING SIZE      | PERFORATIONS  | THEORETICAL                                      |  | DISTRICTED                     |  |
| <u>9 7/8</u>                  |                  |               |  |  |                                |  |
| TOTAL DEPTH <u>393</u>        | TUBING DEPTH     | SHUT-IN       | SURFACE PIPE ANNULUS LONG                        |  |                                |  |
| <u>PBTD 325</u>               | TUBING WEIGHT    | OPEN HOLE     | STING  |  |                                |  |
| CASING SIZE <u>7"</u>         | TUBING CONDITION |               | TUBING   |  |                                |  |
| CASING DEPTH <u>387</u>       |                  | TREATMENT VIA | TYPE OF TREATMENT                                |  | TREATMENT RATE                 |  |
| CASING WEIGHT <u>17</u>       | PACKER DEPTH     |               | <input checked="" type="checkbox"/> SURFACE PIPE |  | BREAKDOWN BPM                  |  |
| CASING CONDITION <u>good</u>  |                  |               | <input type="checkbox"/> PRODUCTION CASING       |  | RYTAL BPM                      |  |
| PRESSURE SUMMARY              |                  |               | <input type="checkbox"/> SQUEEZE CEMENT          |  | FINAL BPM                      |  |
| BREAKDOWN at DISPLACEMENT psi | AVERAGE psi      |               | <input type="checkbox"/> ACID BREAKDOWN          |  | MINIMUM BPM                    |  |
| FINAL DISPLACEMENT psi        | ESP psi          |               | <input type="checkbox"/> ACID STIMULATION        |  | MAXIMUM BPM                    |  |
| ANNULUS psi                   | 5 MIN SP psi     |               | <input type="checkbox"/> ACID SPOTTING           |  | AVERAGE BPM                    |  |
| ACCUMUL psi                   | 15 MIN SP psi    |               | <input type="checkbox"/> MISC PUMP               |  |                                |  |
| TRAMM psi                     |                  |               | <input type="checkbox"/> OTHER                   |  | HYD MP = RATE X PRESSURE X 4.2 |  |

INSTRUCTIONS PRIOR TO JOB MTW Safety Circ. M&P 1906Ks of 83-lite 15.2lb/gal  
lot # 4.2 gal/sk 19 bbls of mix water drop plug and displace 14.3 bbls  
set plug shot well in clean up move off location

8 SUMMARY

DESCRIPTION OF JOB EVENTS

|                        |                |              |                    |
|------------------------|----------------|--------------|--------------------|
| <u>MTW Safety Circ</u> | <u>M&amp;P</u> | <u>drop</u>  | <u>displace</u>    |
| <u>2pm</u>             | <u>305pm</u>   | <u>310pm</u> | <u>312pm</u>       |
|                        |                | <u>328pm</u> | <u>328pm</u>       |
|                        |                | <u>333pm</u> | <u>10 260psi</u>   |
|                        |                | <u>335pm</u> | <u>14.6 200psi</u> |

8 bbls to the pit



# BISON

Bison Oil Well Cementing Inc.  
 1738 Wynkoop St.  
 Suite 102  
 Denver, CO 80202  
 303-296-3010

## Invoice

100

| Date       | Invoice # |
|------------|-----------|
| 12/29/2011 | 10802     |

|   |
|---|
| <b>Bill To</b>  |
| Excel Services, LLC<br>36629 U.S. HIGHWAY 385<br>Wray, CO 80758 |

| Location          | Well Name & No.                 | Terms  | Job Type   |          |          |
|-------------------|---------------------------------|--------|------------|----------|----------|
| Cheyenne KS       | Krien 24-28                     | Net 30 | Production |          |          |
| Item              | Description                     | Qty    | U/M        | Rate     | Amount   |
| Pump Charge       | Pump Charge - Production Pipe   | 1      |            | 2,000.00 | 2,000.00 |
| MILEAGE           | Mileage charge 2 trucks x 60 mi | 120    |            | 4.00     | 480.00   |
| MILEAGE           | Mileage charge/Pick up          | 85     |            | 1.50     | 127.50   |
| Data Acquisition  | Data Acquisition Charge         | 1      |            | 225.00   | 225.00   |
|                   | <b>Subtotal of Services</b>     |        |            |          | 2,832.50 |
| N-Gel 12          | Lead 12lb                       | 87     | Sack       | 16.50    | 1,435.50 |
| Discount 10%      | Discount 10%                    |        |            | -10.00%  | -143.55  |
| BG-Lite           | Tail 1348 lb/gal 50/50 Pac      | 56     | Sack       | 16.50    | 924.00   |
| Discount 10%      | Discount 10%                    |        |            | -10.00%  | -92.40   |
| Float Shoe 4 1/2" | Float Shoe 4 1/2"               | 1      |            | 321.85   | 321.85   |
| LD Plug 4 1/2"    | LD Plug & Baffle 4 1/2"         | 1      |            | 229.60   | 229.60   |
| KCL               | KCL Displacement                | 1      |            | 25.00    | 25.00    |
| Dye -4880         | Dye (Hot Pink-4880)             | 1      | oz         | 14.00    | 28.00    |
| Mud Flush (bag)   | Mud Flush                       | 1      | lb         | 125.00   | 250.00   |
|                   | <b>Subtotal of Materials</b>    |        |            |          | 3,078.00 |
|                   |                                 |        |            |          | 5,910.50 |

|  |                         |            |
|--|-------------------------|------------|
| Please Remit Payment To:   | <b>Subtotal</b>         | \$5,910.50 |
| Bison Oil Well Cementing, Inc.<br>P.O. Box 29671<br>Thornton, CO 80229 | <b>Sales Tax (8.3%)</b> | \$255.47   |
|  | <b>Total</b>            | \$6,165.97 |
|  | <b>Balance Due</b>      | \$6,165.97 |

Billing Category #1015  
 Unit # or Rig # R2  
 AFE #  
 Addl. Info for Desc. LSCMT, Krien 24-28

Approved By

x 11090  
 \$ 6,782.97

RECEIVED

JAN 04 2012

# BISON OIL WELL CEMENTING, INC.



1738 Wynkoop St., Ste. 102  
 Denver, Colorado 80202  
 Phone: 303-296-3010  
 Fax: 303-299-8143  
 E-mail: bisonoil1@qwestoffice.net

REF. INVOICE # 10802

LOCATION Wheeler

FOREMAN Travis

## TREATMENT REPORT

| DATE                            | WELL NAME   | SECTION                         | TWP | RGE | COUNTY                      | FORMATION |
|---------------------------------|-------------|---------------------------------|-----|-----|-----------------------------|-----------|
| 12-27-11                        | Krien 24-28 | 28                              | 55  | 42D | Cheyenne                    |           |
| CHARGE TO: Excell               |             | OWNER: Noble                    |     |     |                             |           |
| MAILING ADDRESS:                |             | OPERATOR:                       |     |     |                             |           |
| CITY:                           |             | CONTRACTOR: Excell Inc. 2       |     |     |                             |           |
| STATE ZIP CODE:                 |             | DISTANCE TO LOCATION: 8.5 miles |     |     |                             |           |
| TIME ARRIVED ON LOCATION: 12 pm |             | 3 pm                            |     |     | TIME LEFT LOCATION: 4:30 pm |           |

| WELL DATA             |                   |                   | PRESSURE LIMITATIONS        |            |
|-----------------------|-------------------|-------------------|-----------------------------|------------|
| HOLE SIZE             | TUBING SIZE       | PERFORATIONS      | THEORETICAL                 | DISTRUCTED |
| 6 1/4                 |                   |                   |                             |            |
| TOTAL DEPTH: 1633     | TUBING DEPTH:     | SHOTS/FT:         | SURFACE PIPE ANNULLUS LONG: |            |
| PBTP: 1562            | TUBING WEIGHT:    | OPEN HOLE:        | STRING:                     |            |
| CASING SIZE: 4 1/2    | TUBING CONDITION: | TREATMENT VOLUME: | TUBING:                     |            |
| CASING DEPTH: 1603    |                   |                   |                             |            |
| CASING WEIGHT: 10.5   | PACKED DEPTH:     |                   |                             |            |
| CASING CONDITION: 93% |                   |                   |                             |            |

| PRESSURE SUMMARY              |                 | TREATMENT RATE  |                                  |
|-------------------------------|-----------------|---|----------------------------------|
| BREAKDOWN OF CIRCULATING: gal | AVERAGE: gal    | <input type="checkbox"/> SURFACE PIPE                 | DOWNHOLE BPM                     |
| FINAL DISPLACEMENT: gal       | LSP: psi        | <input checked="" type="checkbox"/> PRODUCTION CASING | INITIAL BPM                      |
| ANNULLUS: gal                 | 5 MIN BPM: gal  | <input type="checkbox"/> SOOZE CEMENT                 | FINAL BPM                        |
| MAXIMUM: gal                  | 15 MIN LSP: psi | <input type="checkbox"/> ACID BREAKDOWN               | MINIMUM BPM                      |
| ANNULLUS: gal                 |                 | <input type="checkbox"/> ACID STIMULATION             | MAXIMUM BPM                      |
|                               |                 | <input type="checkbox"/> ACID SPOTTING                | AVERAGE BPM                      |
|                               |                 | <input type="checkbox"/> MISC FLOPP                   |                                  |
|                               |                 | <input type="checkbox"/> OTHER                        | HYDTRIP = RATE X PRESSURE X 40.1 |

INSTRUCTIONS PRIOR TO JOB: MTRU safety circ pump 5 bbls of polymer with 296 KCL 75 bbl mud flush with 28 KCL M4P Est. 9) sks of Ngel-12 12.01 bbl gal 2.21 yd 12.09 gal/sk 23 bbls of mix. # of water/dye is seen M4P 5.6 sks of Bq-lite 13.8 bbl gal 1.33 yd 6.79 gal/sk 8 bbls mix water, drop plug displace 298 bbls set plug shot well in clean up move off location.

JOB SUMMARY

| DESCRIPTION OF JOB EVENTS | TIME   | TIME   | TIME   | TIME   | TIME   | TIME   | TIME     | TIME |
|---------------------------|--------|--------|--------|--------|--------|--------|----------|------|
| MTRU safety               | 115 pm | 320 pm | 330 pm | 340 pm | 358 pm | 368 pm |          |      |
| Circ                      |        |        |        |        | 402 pm | 10     | 300 psi  |      |
| M4P                       |        |        |        |        | 405 pm | 20     | 500 psi  |      |
| drop dog                  |        |        |        |        | 407 pm | 24.8   | 1200 psi |      |
| displace                  |        |        |        |        |        |        |          |      |

11 bbls to the pit

*[Signature]*  
 AUTHORIZATION TO PROCEED

*[Signature]*  
 DATE: 12/29/11

TITLE:

DATE

KB 6 Ft

Casing: 7 inch

Well Name: Krien 24-28

Location: Sec 28, 5S, 40W, Cheyenne Co.

| Joint No. | Joint Length, Ft | Total Footage, Ft | Depth KB, Ft (base of ft) | Depth KB, Ft (top of ft) | WU Grade | Description                |
|-----------|------------------|-------------------|---------------------------|--------------------------|----------|----------------------------|
|           | 0.00             | 0.00              |                           |                          |          |                            |
| 1         | 42.46            | 42.46             | -387.80                   | -345.34                  | 17#ST&LC | Centralizer & Baffle Plate |
| 2         | 42.44            | 84.90             | -345.34                   | -302.90                  | 17#ST&LC |                            |
| 3         | 42.47            | 127.37            | -302.90                   | -260.43                  | 17#ST&LC |                            |
| 4         | 42.49            | 169.86            | -260.43                   | -217.94                  | 17#ST&LC |                            |
| 5         | 42.25            | 212.11            | -217.94                   | -175.69                  | 17#ST&LC |                            |
| 6         | 42.28            | 254.39            | -175.69                   | -133.41                  | 17#ST&LC |                            |
| 7         | 42.44            | 296.83            | -133.41                   | -90.97                   | 17#ST&LC |                            |
| 8         | 42.49            | 339.32            | -90.97                    | -48.48                   | 17#ST&LC |                            |
| 9         | 42.48            | 381.80            | -48.48                    | -6.00                    | 17#ST&LC |                            |
| 10        |                  |                   |                           |                          |          |                            |
| 11        |                  |                   |                           |                          |          |                            |
| 12        |                  |                   |                           |                          |          |                            |
| 13        |                  |                   |                           |                          |          |                            |
| 14        |                  |                   |                           |                          |          |                            |
| 15        |                  |                   |                           |                          |          |                            |
| 16        |                  |                   |                           |                          |          |                            |
| 17        |                  |                   |                           |                          |          |                            |
| 18        |                  |                   |                           |                          |          |                            |
| 19        |                  |                   |                           |                          |          |                            |
| 20        |                  |                   |                           |                          |          |                            |
| 21        |                  |                   |                           |                          |          |                            |
| 22        |                  |                   |                           |                          |          |                            |
| 23        |                  |                   |                           |                          |          |                            |
| 24        |                  |                   |                           |                          |          |                            |
| 25        |                  |                   |                           |                          |          |                            |
| 26        |                  |                   |                           |                          |          |                            |
| 27        |                  |                   |                           |                          |          |                            |
| 28        |                  |                   |                           |                          |          |                            |
| 29        |                  |                   |                           |                          |          |                            |
| 30        |                  |                   |                           |                          |          |                            |
| 31        |                  |                   |                           |                          |          |                            |
| TOTAL     |                  | 381.80            |                           |                          |          |                            |

# Jts/Ran 9  
 Meas 381.80  
 Set @ 387.80  
 Aprox TD @ 393  
 PBD @ 345.34  
 Threads on 383.58

Well Name: Krlen 24-2B Location: Sec 28, 5S, 40W, Cheyenne Co., KS

| Joint No. | Joint Length, Ft | Total Footage, Ft | Depth KB, Ft (base of J) | Depth KB, Ft (top of J) | WU Grade  | Description         |
|-----------|------------------|-------------------|--------------------------|-------------------------|-----------|---------------------|
|           | 0.92             | 0.92              | -1603.39                 | -1602.47                |           | AFU SHOE            |
| 1         | 40.20            | 41.12             | -1602.47                 | -1562.27                | 10.5#J-55 | Centralizer & Latch |
| 2         | 39.76            | 80.87             | -1562.27                 | -1522.52                |           | Centralizer         |
| 3         | 39.84            | 120.71            | -1522.52                 | -1482.68                |           | Centralizer         |
| 4         | 40.18            | 160.89            | -1482.68                 | -1442.50                |           | Centralizer         |
| 5         | 40.20            | 201.09            | -1442.50                 | -1402.30                |           | Centralizer         |
| 6         | 40.21            | 241.30            | -1402.30                 | -1362.09                |           | Centralizer         |
| 7         | 31.23            | 272.53            | -1362.09                 | -1330.88                |           | Centralizer         |
| 8         | 40.16            | 312.69            | -1330.88                 | -1290.70                |           | Centralizer         |
| 9         | 40.17            | 352.86            | -1290.70                 | -1250.53                |           |                     |
| 10        | 40.23            | 393.09            | -1250.53                 | -1210.30                |           |                     |
| 11        | 40.23            | 433.32            | -1210.30                 | -1170.07                |           |                     |
| 12        | 40.19            | 473.51            | -1170.07                 | -1129.88                |           |                     |
| 13        | 40.22            | 513.73            | -1129.88                 | -1089.68                |           |                     |
| 14        | 40.21            | 553.94            | -1089.68                 | -1049.45                |           |                     |
| 15        | 40.23            | 594.17            | -1049.45                 | -1009.22                |           |                     |
| 16        | 40.18            | 634.35            | -1009.22                 | -969.04                 |           |                     |
| 17        | 40.15            | 674.50            | -969.04                  | -928.89                 |           |                     |
| 18        | 40.18            | 714.68            | -928.89                  | -888.71                 |           |                     |
| 19        | 40.17            | 754.85            | -888.71                  | -848.54                 |           |                     |
| 20        | 40.15            | 795.00            | -848.54                  | -808.39                 |           |                     |
| 21        | 40.16            | 835.16            | -808.39                  | -768.23                 |           |                     |
| 22        | 40.17            | 875.33            | -768.23                  | -728.08                 |           |                     |
| 23        | 40.16            | 915.49            | -728.08                  | -687.90                 |           |                     |
| 24        | 40.20            | 955.69            | -687.90                  | -647.70                 |           |                     |
| 25        | 39.85            | 995.54            | -647.70                  | -607.85                 |           |                     |
| 26        | 40.17            | 1035.71           | -607.85                  | -567.88                 |           |                     |
| 27        | 40.15            | 1075.86           | -567.88                  | -527.63                 |           |                     |
| 28        | 40.20            | 1116.06           | -527.63                  | -487.33                 |           |                     |
| 29        | 40.18            | 1156.22           | -487.33                  | -447.17                 |           |                     |
| 30        | 39.78            | 1195.88           | -447.17                  | -407.41                 |           |                     |
| 31        | 40.15            | 1236.13           | -407.41                  | -367.28                 |           |                     |
| 32        | 40.18            | 1276.31           | -367.28                  | -327.08                 |           |                     |
| 33        | 40.16            | 1316.49           | -327.08                  | -286.90                 |           |                     |
| 34        | 40.13            | 1356.62           | -286.90                  | -246.77                 |           |                     |
| 35        | 40.19            | 1396.81           | -246.77                  | -206.58                 |           |                     |
| 36        | 40.22            | 1437.03           | -206.58                  | -166.36                 |           |                     |
| 37        | 40.19            | 1477.22           | -166.36                  | -126.17                 |           |                     |
| 38        | 40.21            | 1517.43           | -126.17                  | -85.96                  |           |                     |
| 39        | 39.78            | 1557.19           | -85.96                   | -46.20                  |           |                     |
| 40        | 40.20            | 1597.39           | -46.20                   | -6.00                   |           |                     |
| 41        |                  |                   |                          |                         |           |                     |
| 42        |                  |                   |                          |                         |           |                     |
| 43        |                  |                   |                          |                         |           |                     |
| 44        |                  |                   |                          |                         |           |                     |
| 45        |                  |                   |                          |                         |           |                     |
| 46        |                  |                   |                          |                         |           |                     |
| 47        |                  |                   |                          |                         |           |                     |
| 48        |                  |                   |                          |                         |           |                     |
| 49        |                  |                   |                          |                         |           |                     |
| 50        |                  |                   |                          |                         |           |                     |
| 51        |                  |                   |                          |                         |           |                     |
| 52        |                  |                   |                          |                         |           |                     |
| 53        |                  |                   |                          |                         |           |                     |
| 54        |                  |                   |                          |                         |           |                     |
| 55        |                  |                   |                          |                         |           |                     |
| 56        |                  |                   |                          |                         |           |                     |
| 57        |                  |                   |                          |                         |           |                     |
| 58        |                  |                   |                          |                         |           |                     |
| 59        |                  |                   |                          |                         |           |                     |
| 60        |                  |                   |                          |                         |           |                     |
| 61        |                  |                   |                          |                         |           |                     |
| 62        |                  |                   |                          |                         |           |                     |
| 63        |                  |                   |                          |                         |           |                     |
| 64        |                  |                   |                          |                         |           |                     |
| 65        |                  |                   |                          |                         |           |                     |
| 66        |                  |                   |                          |                         |           |                     |
| 67        |                  |                   |                          |                         |           |                     |
| 68        |                  |                   |                          |                         |           |                     |
| 69        |                  |                   |                          |                         |           |                     |
| 70        |                  |                   |                          |                         |           |                     |
| 71        |                  |                   |                          |                         |           |                     |
| 72        |                  |                   |                          |                         |           |                     |
| 73        |                  |                   |                          |                         |           |                     |
| 74        |                  |                   |                          |                         |           |                     |
| 75        |                  |                   |                          |                         |           |                     |
| 76        |                  |                   |                          |                         |           |                     |
| 77        |                  |                   |                          |                         |           |                     |
| 78        |                  |                   |                          |                         |           |                     |
| 79        |                  |                   |                          |                         |           |                     |
| 80        |                  |                   |                          |                         |           |                     |
| 81        |                  |                   |                          |                         |           |                     |
| 82        |                  |                   |                          |                         |           |                     |
| 83        |                  |                   |                          |                         |           |                     |
| 84        |                  |                   |                          |                         |           |                     |
| 85        |                  |                   |                          |                         |           |                     |
| TOTAL     |                  | 1597.39           |                          |                         |           |                     |

JTs Ran 40  
 Meas w/shoe 1597.39  
 Set @ 1603.39  
 PBTD @ 1562.27  
 Threads On 1606.22