Kansas Corporation Commission OIL & GAS CONSERVATION DIVISION

Form ACO-1 August 2013 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:  | SecTwpS. R East West                                     |
| Address 2:  | Feet from North / South Line of Section                  |
| City:   | Feet from _ East / _ West Line of Section                |
| Contact Person:                                       | Footages Calculated from Nearest Outside Section Corner: |
| Phone: ()   | □NE □NW □SE □SW  |
| CONTRACTOR: License #                                 | GPS Location: Lat:, Long:                                |
| Name:   | (e.g. xx.xxxxx) (e.gxxx.xxxxx)                           |
| Wellsite Geologist:                                   | Datum: NAD27 NAD83 WGS84                                 |
| Purchaser:  | County:  |
| Designate Type of Completion:                         | Lease Name: Well #:                                      |
| ☐ New Well ☐ Re-Entry ☐ Workover                      | Field Name:  |
| ☐ Oil ☐ WSW ☐ SWD ☐ SIOW                              | Producing Formation:                                     |
| Gas D&A ENHR SIGW                                     | Elevation: Ground: Kelly Bushing:                        |
| ☐ OG ☐ GSW ☐ Temp. Abd.                               | Total Vertical Depth: Plug Back Total Depth:             |
| CM (Coal Bed Methane)                                 | Amount of Surface Pipe Set and Cemented at: Feet         |
| Cathodic Other (Core, Expl., etc.):                   | Multiple Stage Cementing Collar Used?                    |
| If Workover/Re-entry: Old Well Info as follows:       | If yes, show depth set: Feet                             |
| Operator:   | If Alternate II completion, cement circulated from:      |
| Well Name:  | feet depth to: w/ sx cmt.                                |
| Original Comp. Date: Original Total Depth:            |  |
| ☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD | Drilling Fluid Management Plan                           |
| ☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer        | (Data must be collected from the Reserve Pit)            |
| Commingled Permit #:                                  | Chloride content:ppm Fluid volume: bbls                  |
| Dual Completion Permit #:                             | Dewatering method used:                                  |
| SWD Permit #:   | Location of fluid disposal if hauled offsite:            |
| ENHR Permit #:  |  |
| GSW Permit #:   | Operator Name:   |
|   | Lease Name: License #:                                   |
| Spud Date or Date Reached TD Completion Date or       | QuarterSecTwpS. R East West                              |
| Recompletion Date Recompletion Date                   | 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

Confidentiality Requested:

Yes No

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

1100420 CORRECTION #1

| Operator Name:   |  |                                 |                                  | Lease N                     | Name: _                |                                     |                           | Well #:           |                         |           |
|--|--|---------------------------------|----------------------------------|-----------------------------|------------------------|-------------------------------------|---------------------------|-------------------|-------------------------|-----------|
| Sec Twp  | S. R   | East                            | West                             | County                      | :                      |                                     |                           |                   |                         |           |
| INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to | ring and shut-in pres<br>o surface test, along | sures, whethe<br>with final cha | er shut-in pre<br>art(s). Attach | essure reac<br>n extra shee | hed stati<br>t if more | c level, hydrosta<br>space is neede | itic pressures, bot<br>d. | tom hole temp     | erature, fluid re       | ecovery,  |
| Final Radioactivity Lo files must be submitte                  |  |                                 |                                  |                             |                        | ogs must be ema                     | ailed to kcc-well-lo      | gs@kcc.ks.go      | v. Digital electr       | ronic log |
| Drill Stem Tests Taker<br>(Attach Additional                   |  | Yes                             | ☐ No                             |                             |                        |                                     | on (Top), Depth ar        |                   | Sampl                   |           |
| Samples Sent to Geo  | logical Survey                                 | Yes                             | □No                              |                             | Nam                    | е                                   |                           | Тор               | Datum                   | 1         |
| Cores Taken<br>Electric Log Run                                |  | ☐ Yes<br>☐ Yes                  | ☐ No<br>☐ No                     |                             |                        |                                     |                           |                   |                         |           |
| List All E. Logs Run:  |  |                                 |                                  |                             |                        |                                     |                           |                   |                         |           |
|  |  |                                 |                                  | RECORD                      | Ne                     |                                     |                           |                   |                         |           |
|  | 2  | 1                               |                                  |                             |                        | ermediate, product                  |                           | T                 | I                       |           |
| Purpose of String  | Size Hole<br>Drilled                           |                                 | Casing<br>n O.D.)                | Weig<br>Lbs. /              |                        | Setting<br>Depth                    | Type of<br>Cement         | # Sacks<br>Used   | Type and Pe<br>Additive |           |
|  |  |                                 |                                  |                             |                        |                                     |                           |                   |                         |           |
|  |  |                                 |                                  |                             |                        |                                     |                           |                   |                         |           |
|  |  |                                 |                                  |                             |                        |                                     |                           |                   |                         |           |
|  |  |                                 |                                  |                             |                        |                                     |                           |                   |                         |           |
|  |  |                                 | ADDITIONAL                       | CEMENTIN                    | NG / SQL               | JEEZE RECORD                        |                           |                   |                         |           |
| Purpose:   | Depth<br>Top Bottom                            | Type of                         | Cement                           | # Sacks                     | Used                   |                                     | Type and F                | ercent Additives  |                         |           |
| Perforate Protect Casing                                       | 100 20111111                                   |                                 |                                  |                             |                        |                                     |                           |                   |                         |           |
| Plug Back TD<br>Plug Off Zone                                  |  |                                 |                                  |                             |                        |                                     |                           |                   |                         |           |
| 1 lug 0 li 20 lio  |  |                                 |                                  |                             |                        |                                     |                           |                   |                         |           |
| Did you perform a hydrau                                       | ulic fracturing treatment                      | on this well?                   |                                  |                             |                        | Yes                                 | No (If No, ski            | ip questions 2 ar | nd 3)                   |           |
| Does the volume of the t                                       |  |                                 |                                  |                             |                        |                                     | = :                       | p question 3)     |                         |           |
| Was the hydraulic fractur                                      | ring treatment information                     | on submitted to                 | the chemical                     | disclosure re               | gistry?                | Yes                                 | No (If No, fill           | out Page Three    | of the ACO-1)           |           |
| Shots Per Foot   |  | ION RECORD<br>Footage of Eac    |                                  |                             |                        |                                     | cture, Shot, Cement       |                   |                         | epth      |
|  | open,  |                                 |                                  |                             |                        | ,,                                  |                           |                   |                         |           |
|  |  |                                 |                                  |                             |                        |                                     |                           |                   |                         |           |
|  |  |                                 |                                  |                             |                        |                                     |                           |                   |                         |           |
|  |  |                                 |                                  |                             |                        |                                     |                           |                   |                         |           |
|  |  |                                 |                                  |                             |                        |                                     |                           |                   |                         |           |
|  |  |                                 |                                  |                             |                        |                                     |                           |                   |                         |           |
| TUBING RECORD:   | Size:  | Set At:                         |                                  | Packer A                    | t:                     | Liner Run:                          |                           |                   |                         |           |
|  |  |                                 |                                  |                             |                        |                                     | Yes No                    |                   |                         |           |
| Date of First, Resumed   | Production, SWD or Ef                          | NHR.   F                        | Producing Met                    | hod:<br>Pumpin              | a                      | Gas Lift 0                          | Other (Explain)           |                   |                         |           |
| Estimated Production<br>Per 24 Hours                           | Oil  | Bbls.                           | Gas                              | Mcf                         | Wat                    |                                     |                           | Gas-Oil Ratio     | Gra                     | avity     |
|  | 1  |                                 |                                  |                             |                        |                                     |                           |                   |                         |           |
|  | ON OF GAS:                                     |                                 | en Hole                          | METHOD OF                   |                        |                                     | mmingled                  | PRODUCTION        | ON INTERVAL:            | ļ         |
| Vented Solo  | I Used on Lease bmit ACO-18.)                  |                                 | en noie _                        | Perf.                       | (Submit                |                                     | mmingled<br>mit ACO-4)    |                   |                         |           |

| SHELL GULF OF MEXICO, INC. (34574)               | Heimerman 3104-25  |   |  |  |  |
|--|--|---|--|--|--|
| PETE MARTIN DRILLING (34645) (SET THE CONDUCTOR) | SWD conductor  | SWD Mouse Hole  |  |  |  |
| Call in DATE OF SPUD                             |  |   |  |  |  |
| spud in date                                     | 7/3/2012   | 7/5/2012  |  |  |  |
| T.D date   | 7/3/2012   | 7/5/2012  |  |  |  |
| Size Hole Drilled                                | 26"  | 20"   |  |  |  |
| Size Casing Set (in O.D )                        | 18"  | 14"   |  |  |  |
| conductor wall thickness                         | 250  | 188   |  |  |  |
| Weight Lbs./Ft.                                  | 47.76  | 27.76   |  |  |  |
| Setting Depth                                    | 59.6'  | 76'   |  |  |  |
| Type of Cement                                   | TYPE 1/2 PORTLAND CEMENT                                     |   |  |  |  |
| Cubic yards of cement                            | 6су  | 6су   |  |  |  |
| 2500 PSI Grout Mix                               | yes  | yes   |  |  |  |
| Type and Percent of Additives                    | 15% fly ash  | 15% fly ash   |  |  |  |
| Comments   | 0-15' sand 15-22' Clay 22'-<br>32' Water 32 Blue Shale 32-TD | 0-15' sand 15-22' Clay 22'-<br>32' Water 32'-76' Blue Shale |  |  |  |

### **CEMENT JOB REPORT**



|  | SHELL W  |  |                           |                                      | 00 021 12 1001000000                                |  |   |   |  |   |   | SERV. SUPV. JONATHAN M SCHULZ III                        |                                  |                      |               |          |  |
|--|--|--|---------------------------|--------------------------------------|---|--|---|---|--|---|---|--|----------------------------------|----------------------|---------------|----------|--|
|  | <b>WELL NAME</b> RMAN FARMS 3104 #25-1 - API 15191226550  LOCATION 25-31S-4W |  |                           |                                      |   |  | COUNTY-PARISH-BLOCK Sumner Kansas                                   |   |  |   |   |  |                                  |                      |               |          |  |
| DISTRICT<br>McAlester  |  |  |                           | DRILLING CONTRACTOR Nabors 102       |   |  |   |   |  |   |   |  |                                  |                      |               |          |  |
| SIZE &   | TYPE OF  | PLUG   | 3S                        | LIS                                  | T-CSG   | -HARDWA  | RE  | MEC   | CHANICAL   | BARRIE  | RS  | MD   | TVD   I                          | HANGE                | R TYPES       | MD TVI   |  |
| 9-5/8" Top Cei   | m Plua. N  | trile c                                      | vr. Phe                   | Provided b                           | ov Cust   | tomer  |   |   |  |   |   |  |                                  |                      |               |          |  |
|  | 3, 1   |  | 1                         |                                      | ,   |  |   |   |  | PI  | HYSIC/  | L SLU  | IRRY PROI                        | PERTIES              | <u> </u><br>S |          |  |
| MATERIAL   | MATERIALS FURNISHED BY BJ  |  |                           |                                      |   | LAB F  | REPORT NO   | 0   | )F \   | LURRY<br>WGT<br>PPG   | SLU<br>YLI<br>FT  | <b>)</b>   | WATER<br>GPS                     | PUM<br>TIME<br>HR:MI | Вы            |          |  |
| water  |  |  |                           |                                      |   |  |   |   |  | 8.34  |   |  |                                  |                      |               | 19       |  |
| Class C + .25  | pps Cello  | lakc +                                       | - 2% CaCl2                | 2                                    |   |  |   |   | 250  | 14.8  |   | 1.35   | 6.34                             | 03:08                | 3             | 63 39.   |  |
| Water  |  |  |                           |                                      |   |  |   |   |  | 8.34  |   |  |                                  |                      | 26            | .9       |  |
| Available Mix  | Water  |  | 500                       |                                      | 3bl.  | Available  | Displ. Fluid  |   | 430  | Bb  | ol.   |  | тот                              | AL                   | 108           | .9 39.   |  |
|  | HOLE   |  |                           |                                      |   |  | TBG-CSG   | -D.P.   |  |   |   |  |                                  | COLL                 | AR DEPTHS     | 3        |  |
| SIZE   | % EXCE   | SS   | DEPTH                     | ID                                   | OD  | WGT.   |   | PE  | MD   | TVD   | GRAD  | E  | SHOE                             |                      | FLOAT         | STAGE    |  |
| 12.25  |  |  | 398                       | 8.921                                | 9.62  |  | 36 CSG  |   | 389  | 389   | J-55  |  |                                  |                      |               |          |  |
|  | AST CASI<br>VGT T<br>84  | NG<br>YPE                                    | MD                        | <b>TVD</b> 64                        |   | R-CMT RE   | T-BR PL-LIN<br>PE   | IER<br>DEPTH  |  | DEPTH<br>BTM  |   |  | THREAD                           | TYPE                 | WELL FLU      | WGT      |  |
| 17.1   |  |  |                           |                                      |   |  |   |   |  |   | 9   | .023   | SKD                              | WAILI                | N DAGED IVI   |          |  |
|  |  |  | DIGE                      | PL. FLUID                            |   | CAL. PS  | I CAL. M.   | AX PSI  | OP. MAX  | M.A   | MAX TBG PSI MAX CSG PSI                                       |  |                                  | MIX                  |               |          |  |
| DISPL. VOL   | 1  |  |                           |                                      |   |  |   |   |  |   |   |  |                                  |                      |               | WATER    |  |
| DISPL. VOL   | UOM  |  | TYPE                      | W                                    | /GT.  | BUMP PL  | UG TO F   | EV.   | SQ. PSI  | RATE  | D C   | perato   | or RAT                           | ED                   | Operator      | WATER    |  |
| <b>VOLUME</b> 26.9   | BBLS   | Water<br>LE SE                               | ТҮРЕ                      |                                      | 8.34  | 1  | 15  |   |  |   |   |  | 3                                | 3060                 | 1000          | Rig Tank |  |
| <b>VOLUME</b> 26.9   | BBLS   | LE SE  | ТҮРЕ                      | OL, RUNNI                            | 8.34<br>NG CS                                       | 1  | 15  |   |  |   |   | ill to T   | 3                                | Run Cas              | 1000          |          |  |
| <b>VOLUME</b> 26.9   | BBLS N: TROUB  | LE SE  | TYPE                      | OL, RUNNI                            | 8.34 NG CS  | 1  | RIOR TO CE  | MENTIN  | VG: skid r   | ig, spud  | well, di  | ill to T   | D, POOH,                         | Run Cas              | 1000          |          |  |
| VOLUME 26.9  EXPLANATION                                     | BBLS N: TROUB  | LE SE<br>P<br>SURE                           | TYPE                      | OL, RUNNI                            | 8.34  NG CS   | f, ETC. P  | 15  | MENTIN<br>SAF<br>TES  | NG: skid r<br>ETY MEE<br>T LINES   | ig, spud  | well, di  | ill to T   | D, POOH,  XPLANATI  CO. REP.     | Run Cas              | 1000          |          |  |
| VOLUME 26.9  EXPLANATION  TIME HR:MIN.                       | BBLS N: TROUB PRES   | LE SE  | TYPE  TTING TOO  RESSURE/ | OL, RUNNI<br>RATE DET<br>RATE        | 8.34  NG CS   | G, ETC. P  | RIOR TO CE  | SAF<br>TES  | NG: skid r<br>ETY MEE<br>T LINES<br>CULATING   | ig, spud<br>TING: B.  | well, di  | ill to T   | D, POOH,                         | Run Cas              | 1000          |          |  |
| VOLUME 26.9  EXPLANATION TIME HR:MIN.  00:09                 | N: TROUB PRES PIPE   | LE SE PI SURE A                              | TYPE  TTING TOO  RESSURE/ | OL, RUNNI<br>RATE DET<br>RATE        | 8.34  NG CS  AIL  Bbb PI                            | G, ETC. P  | RIOR TO CE  | SAF<br>TES<br>CIRC  | NG: skid r<br>ETY MEE<br>T LINES<br>CULATING<br>DUMPS & lii  | ig, spud  TING: B.  WELL -  | J CREV<br>2200 F  | ill to T   | D, POOH,  XPLANATI  CO. REP.     | Run Cas              | 1000          |          |  |
| Z6.9  EXPLANATION  TIME HR:MIN.  00:09 00:10                 | PRES PIPE  | SURE A                                       | TYPE  TTING TOO  RESSURE/ | OL, RUNNI<br>RATE DET<br>RATE        | 8.34  NG CS  AIL  Bbb PI  3                         | G, ETC. P  | FLUID TYPE WATER  | SAF<br>TES'<br>CIRC<br>test p   | NG: skid r<br>ETY MEE<br>T LINES<br>CULATING<br>bumps & li<br>well/start   | ig, spud  FING: B.  WELL - nes water sp.  | J CREV<br>2200 F<br>RIG                                       | E X  | D, POOH,  XPLANATI  CO. REP.     | Run Cas              | 1000          |          |  |
| 26.9  EXPLANATION  TIME HR:MIN.  00:09 00:10 00:16           | PRES PIPE  220   | SURE A 100                                   | TYPE  TTING TOO  RESSURE/ | OL, RUNNI<br>RATE DET<br>RATE        | 8.34  NG CS  AIL  Bb PI  3                          | G, ETC. P  | FLUID<br>TYPE<br>WATER<br>WATER                                     | SAF<br>TES<br>CIRC<br>test p  | NG: skid r ETY MEE T LINES CULATING bumps & lii well/start spacer/star   | ig, spud  FING: B.  WELL - nes water spi  | J CREV<br>2200 F<br>RIG<br>acer                               | E X  | D, POOH,  XPLANATI  CO. REP.     | Run Cas              | 1000          |          |  |
| TIME HR:MIN. 00:09 00:10 00:16 00:33                         | PRES PIPE  220 14  | SURE A 00 72 11                              | TYPE  TTING TOO  RESSURE/ | OL, RUNNI<br>RATE DET<br>RATE        | 8.34  NG CS  AIL  Bbb PI  3   4   3                 | G, ETC. POLITION OF THE PROPERTY OF THE PROPER | FLUID<br>TYPE  WATER WATER SLURRY                                   | SAF<br>TES'<br>CIRC<br>test p<br>open<br>end s  | NG: skid r FETY MEE T LINES CULATING Dumps & lii well/start spacer/star we cement  | FING: B.  WELL - nes water sport slurry ( to surface  | J CREV<br>2200 F<br>RIG<br>acer                               | E X  | D, POOH,  XPLANATI  CO. REP.     | Run Cas              | 1000          |          |  |
| 26.9  EXPLANATION  TIME HR:MIN.  00:09 00:10 00:16           | PRES PIPE  220 11 11   | SURE A 100                                   | TYPE  TTING TOO  RESSURE/ | OL, RUNNI<br>RATE DET<br>RATE        | 8.34  NG CS  AIL  Bb PI  3                          | G, ETC. P  | FLUID<br>TYPE  WATER WATER SLURRY SLURRY                            | SAF<br>TES'<br>CIRC<br>test p<br>open<br>end s<br>receiv<br>end s                           | NG: skid r FETY MEE T LINES CULATING Dumps & lii well/start spacer/star ve cement  | ig, spud  FING: B.  WELL - nes water sp. t slurry ( to surfact down   | J CREV<br>2200 F<br>RIG<br>acer<br>2 14.8pce                  | E X SI X   | D, POOH,  XPLANATI CO. REP.  BJ  | Run Cas              | 1000          |          |  |
| TIME HR:MIN. 00:09 00:10 00:16 00:33 00:34                   | PRES PIPE  220 11 11   | P SURE A 00   72   11   3   2   19           | TYPE  TTING TOO  RESSURE/ | OL, RUNNI<br>RATE DET<br>RATE<br>BPM | 8.34  NG CS  AIL  Bbb PI  3   4   3   3   3         | G, ETC. POLITION OF THE PROPERTY OF THE PROPER | FLUID<br>TYPE  WATER WATER SLURRY                                   | SAF TES: CIRC test p open end s receive   | NG: skid r FETY MEE T LINES CULATING Dumps & lii well/start spacer/star we cement  | ig, spud  FING: B.  WELL - nes water spart slurry ( to surface down ord TRP/  | J CREV<br>2200 F<br>RIG<br>acer<br>2 14.8pce                  | E X SI X   | D, POOH,  XPLANATI CO. REP.  BJ  | Run Cas              | 1000          |          |  |
| TIME HR:MIN. 00:09 00:10 00:16 00:33 00:34 00:36             | PRES PIPE  220 14 11 11  | SURE A 00   72   11   3   2   09   31        | TYPE  TTING TOO  RESSURE/ | OL, RUNNI<br>RATE DET<br>RATE<br>BPM | 8.34  NG CS  AIL  Bbb PI  3   4   3   3   4         | 19<br>60<br>63   | FLUID<br>TYPE  WATER WATER SLURRY SLURRY WATER                      | SAF TES CIRC test p open end s receiv end s Drop slow                                       | NG: skid r ETY MEE T LINES CULATING DUMPS & lii well/start spacer/start ve cement slurry/shute Weatherfor  | ig, spud  FING: B.  WELL - nes water spart slurry ( to surfact down ord TRP/s   | J CREV<br>2200 F<br>RIG<br>acer<br>2 14.8pce                  | E X SI X   | D, POOH,  XPLANATI CO. REP.  BJ  | Run Cas              | 1000          |          |  |
| TIME HR:MIN. 00:09 00:10 00:16 00:33 00:34 00:36 00:41       | PRES PIPE  220 11 11 11 10 18  | SURE A 00   72   11   3   2   09   31        | TYPE  TTING TOO  RESSURE/ | OL, RUNNI<br>RATE DET<br>RATE<br>BPM | 8.34  NG CS  AIL  Bbb PI  3   4   3   3   4   3   3 | 19<br>60<br>63   | FLUID TYPE  WATER WATER SLURRY SLURRY WATER WATER WATER WATER WATER | SAF TES CIRC test p open end s receiv end s Drop slow bump                                  | NG: skid r ETY MEE T LINES CULATING DUMPS & li well/start spacer/start ve cement slurry/shute Weatherforate to bur   | ig, spud  FING: B.  WELL - nes water spa t slurry ( to surfact down ord TRP/s mp  | J CREV<br>2200 F<br>RIG<br>accer<br>2 14.8pce                 | E X X DDDD   | D, POOH,  XPLANATI CO. REP.  BJ  | Run Cas              | 1000          |          |  |
| TIME HR:MIN. 00:09 00:10 00:16 00:33 00:34 00:36 00:41 00:46 | PRES PIPE  220 11 11 11 10 18  | P SURE A A B B B B B B B B B B B B B B B B B | TYPE  TTING TOO  RESSURE/ | OL, RUNNI<br>RATE DET<br>RATE<br>BPM | 8.34  NG CS  AIL  Bbb PI  3   4   3   3   4   3   3 | 19<br>60<br>63<br>16<br>26.9   | FLUID TYPE  WATER WATER SLURRY SLURRY WATER WATER WATER WATER WATER | MENTIN  SAF TES' CIRC test p open end s receiv end s Drop slow bump check 29 bb             | TETY MEET LINES CULATING bumps & line well/start spacer/start ve cement slurry/shute Weatherfor rate to built by plug shute k float/ hole of cements of cements. | ig, spud  FING: B.  WELL nes water spir t slurry ( to surface down ord TRP/s mp tdown/ he dding/ .25 ent return                   | J CREV<br>2200 F<br>RIG<br>acer<br>2 14.8p<br>be<br>start dis | E X X Splacer  | TD, POOH,  XPLANATI CO. REP.  BJ | Run Cas              | 1000          |          |  |
| TIME HR:MIN. 00:09 00:10 00:16 00:33 00:34 00:36 00:41 00:46 | PRES PIPE  220 11 11 11 10 18  | P SURE A A B B B B B B B B B B B B B B B B B | TYPE  TTING TOO  RESSURE/ | OL, RUNNI<br>RATE DET<br>RATE<br>BPM | 8.34  NG CS  AIL  Bbb PI  3   4   3   3   4   3   3 | 19<br>60<br>63<br>16<br>26.9   | FLUID TYPE  WATER WATER SLURRY SLURRY WATER WATER WATER WATER WATER | MENTIN  SAF TES CIRC test p open end s receiv end s Drop slow bump check 29 bb Than         | T LINES CULATING DUMPS & li well/start spacer/start spacer/start Weatherfor rate to bur o plug shut k float/ hol   | ig, spud  FING: B.  WELL - nes water spir t slurry ( to surfact down ord TRP/s mp tdown/ ho dding/ .25 ent returr g BHI Pr        | J CREV<br>2200 F<br>RIG<br>acer<br>2 14.8pce<br>start dis     | E X X Splacer  | TD, POOH,  XPLANATI CO. REP.  BJ | Run Cas              | 1000          |          |  |
| TIME HR:MIN. 00:09 00:10 00:16 00:33 00:34 00:36 00:41 00:46 | PRES PIPE  220 11 11 11 10 18  | P SURE A A B B B B B B B B B B B B B B B B B | TYPE  TTING TOO  RESSURE/ | OL, RUNNI<br>RATE DET<br>RATE<br>BPM | 8.34  NG CS  AIL  Bbp  1 3 4 3 3 4 3 3 7 S/         | 19<br>60<br>63<br>16<br>26.9   | FLUID TYPE  WATER WATER SLURRY SLURRY WATER WATER WATER WATER WATER | MENTIN  SAF TES' CIRC test p open end s receiv end s Drop slow bump check 29 bb Thani Jonat | TETY MEET LINES CULATING Dumps & line well/start spacer/start ve cement slurry/shute Weatherforate to bur to plug shute k float/ hol ols of cement ks for usir   | ig, spud  FING: B.  WELL nes water spir t slurry ( to surfact down ord TRP/s mp tdown/ hc ding/ .25 ent returr g BHI Pr Iz & Crev | J CREV<br>2200 F<br>RIG<br>acer<br>2 14.8pce<br>start dis     | Epileto T  E  / X  SI  X  DPG  Splacer  urn  race  Pumpi | TD, POOH,  XPLANATI CO. REP.  BJ | Run Ca:              | 1000          |          |  |

### **CEMENT JOB REPORT**



| CUSTOMER              | SHELL W  | EST)      | ERN E & P INC                         | ;                          | DAT         | E 13-S                | EP-12         | F.R                               | . #            | 1001934              | 739                  |             | SEI             | RV. SUPV     | ъ в   | ruce Ste              | ele       |              |                     |
|-----------------------|--|-----------|---------------------------------------|----------------------------|-------------|-----------------------|---------------|-----------------------------------|----------------|----------------------|----------------------|-------------|-----------------|--------------|-------|-----------------------|-----------|--------------|---------------------|
|                       | <b>&amp; WELL NAME</b> #ERMAN FARMS 3104 #25-1 SWD - API 151912  LOCATION  25-31S-4W |           |                                       |                            |             |                       |               | COUNTY-PARISH-BLOCK Sumner Kansas |                |                      |                      |             |                 |              |       |                       |           |              |                     |
| DISTRICT<br>McAlester | RICT DRILLING CONTRACTOR   |           |                                       |                            |             | TOR                   |               |                                   |                |                      |                      |             |                 |              |       |                       |           |              |                     |
| SIZE 8                | TYPE OI  | F PL      | UGS                                   | LIS                        | ST-CSG-I    | IARDWA                | ARE           |                                   | MEC            | CHANICA              | L BARRI              | ERS         | MD              | TVD          | IAH   | NGER T                | YPES      | ME           | TVD                 |
| Cement Plug,          |  |           |                                       | Float Sho                  |             |                       |               |                                   |                |                      |                      |             | _               | Ιİ           |       |                       |           |              |                     |
| - Comon rug,          |  |           | (. 20                                 | Float Coll                 |             |                       | rd FBO        |                                   |                |                      |                      |             |                 |              |       |                       |           |              |                     |
|                       |  |           |                                       |                            |             | Ť                     |               |                                   |                |                      | F                    | HYSIC       | CAL SL          | URRY PR      | OPEF  | RTIES                 |           |              | <u> </u>            |
| MATERIAL              | MATERIALS FURNISHED BY BJ  |           |                                       |                            |             | LAB I                 | REPORT        | NO.                               | SA<br>O<br>CEM | F                    | SLURRY<br>WGT<br>PPG | Y           | URRY<br>LD<br>T | WATER<br>GPS | `     | PUMP<br>TIME<br>R:MIN | B<br>SLUR | bl<br>RY     | BbI<br>MIX<br>WATER |
| C50:50:2 + A          | dditives   |           |                                       |                            |             | +                     |               |                                   |                | 80                   | 14.2                 |             | 1.32            | 5.0          | 66 (  | 03:45                 |           | 19           | 10.91               |
| Displacement          | t  |           |                                       |                            |             |                       |               |                                   |                |                      | 8.34                 |             |                 |              |       |                       |           | 180          |                     |
| SealBond Sp           |  | v/ 45     | olb bag)                              |                            |             | +                     |               |                                   |                |                      | 8.45                 |             |                 |              |       |                       |           | 0            |                     |
| C15:85:8 + A          | •  |           | · · · · · · · · · · · · · · · · · · · |                            |             | +                     |               |                                   |                | 1,055                | 12.4                 |             | 2.45            | 13.5         | 52 (  | 05:00                 |           | 398          | 293.78              |
|                       |  |           | 500                                   |                            | Bbl. A      | vailable              | Displ. Fl     | uid                               |                | 500                  |                      | bl.         | 10              |              |       |                       | 1         | 597 <b> </b> | 304.69              |
| Available Mix         |  |           | 500                                   |                            | JUI. F      | vanable               |               |                                   |                | 500                  |                      | <b>ν</b> ι. |                 | 10           | OTAL  |                       |           |              | 304.09              |
| SIZE                  | HOLE<br>% EXCE   | SS        | DEPTH                                 | ID                         | OD          | WGT.                  | TBG-C         | SG-L                              |                | MD                   | TVD                  | GR/         | DE              | SHOE         |       |                       | DEPTH     |              | STAGE               |
| 8.75                  | ,, _,,,  |           | 4621                                  | 6.366                      | 7           |                       | 23 CSG        |                                   |                | 4616                 |                      | L-80        |                 |              | 616   | <u> </u>              | 4579      |              |                     |
| L                     | AST CAS  | ING       |                                       |                            | PKR-        | CMT RE                | T-BR PL-      | LINE                              | R              | PER                  | F. DEPTH             |             | TOP             | CONN         |       | <u> </u>              | VELL FI   | UID          |                     |
| ID OD V               |  | TYPE      |                                       |                            | BRAN        | ID & TYI              | PE            | DI                                | EPTH           |                      | BTN                  | 1           |                 | THREAD       | T     | ГҮРЕ                  |           |              | WGT.                |
| 8.9   9.625           | 36   |           | 38                                    | 2 382                      |             |                       |               |                                   |                | 4600                 | 460                  | 00          | 7               | 8RD          | WA    | ATER B                | BASEDI    | MU           | 9.3                 |
| DISPL. VOI            | LUME   |           | DISI                                  | PL. FLUID                  |             | CAL. PS               | SI CAL.       | MAX.                              | K PSI          | OP. MA               | х М                  | AX TB       | G PSI           |              | MAX   | CSG P                 | SI        |              | MIX                 |
| VOLUME                | UOM  |           | TYPE                                  | V                          | VGT. E      | UMP PL                | .UG T         | O RE                              | v.             | SQ. PS               | I RAT                | ED          | Operat          | or RA        | TED   | Or                    | perator   |              | WATER               |
| 180                   | BBLS   | Dis       | placement                             |                            | 8.34        | 11                    | 00            |                                   |                |                      |                      |             |                 |              | 500   | 0                     | 2500      | RIG          | i                   |
| EXPLANATIO            | N: TROUE   | BLE       | SETTING TO                            |                            |             | , ETC. P              | RIOR TO       | CEM                               | ENTIN          | IG:                  |                      |             | ı               | EXPLANA      | TION  |                       |           |              |                     |
| TIME                  | PRES   | SSUI      | RE - PSI                              | RATE                       | Bbl.        | FLUID                 | FLUI          | )                                 | SAF            | ETY ME               | ETING: B             | J CRE       | w X             | CO. REF      | . X   | 1                     |           |              |                     |
| HR:MIN.               | PIPE   |           | ANNULUS                               | BPM                        | PU          | MPED                  | TYPE          | •                                 |                | T LINES              | _                    | 3800        |                 |              |       |                       |           |              |                     |
|                       |  |           |                                       |                            |             |                       |               |                                   |                |                      | G WELL               |             | X               | BJ           |       |                       |           |              |                     |
| 07:45                 |  | 0         | 0                                     |                            | 0           |                       | 0             |                                   | IS SS          | SC .                 |                      |             |                 | SAFETY       |       |                       |           |              |                     |
| 11:10                 |  | 0         | 0                                     |                            | 0           |                       | SPACE         | ₹                                 |                |                      | SEAL BO              | OND S       | SPACE           | R AHEAD      | TOT   | AL OF 4               | 40 BBL    | S            |                     |
| 11:30                 | 380  | -         | 0                                     |                            | 1           |                       | H20           |                                   |                | LINES                | OF1 :=: =            | _           |                 |              |       |                       |           |              |                     |
| 11:33                 |  | 20        | 0                                     |                            | .3          | 1                     | CMT           |                                   |                |                      | CEMENT               |             |                 |              |       |                       |           |              |                     |
| 12:10                 |  | 20        | 0                                     |                            | .3          | 182                   | CMT           |                                   |                | ENT @ S              | SHOE<br>CEMENT       |             |                 |              |       |                       |           |              |                     |
| 12:47<br>12:53        | 5  | 90  <br>0 | 0                                     | 3                          | 0           | 216<br>19             | 1             | <br>                              | _              |                      | DROP P               |             |                 |              |       |                       |           |              |                     |
| 12:53                 | ٦,   | 00        | 0                                     |                            | .1          | 0                     | H20           |                                   |                |                      | ACEMEN               |             |                 |              |       |                       |           |              |                     |
| 13:40                 | 15   | -+        | 0                                     |                            | .8          | 180                   | H20           |                                   |                | 3 DOWN               |                      | ••          |                 |              |       |                       |           |              |                     |
| 13:40                 | 220  | -+        | 0                                     |                            | 0           | 0                     | 0             |                                   |                |                      | ON PLUG              |             |                 |              |       |                       |           |              |                     |
| 13:41                 |  | 0         | 0                                     |                            | 0           |                       | 0             | İ                                 | BLED           | PRESS                | URE OF               | - AND       | FLOAT           | S ARE H      | OLDI  | NG                    |           |              |                     |
| BUMPED<br>PLUG        | PSI TO<br>BUMP<br>PLUG   | ٠         | TEST<br>FLOAT<br>EQUIP.               | BBL.CM<br>RETURN<br>REVERS | IS/<br>ED P | OTAL<br>BBL.<br>JMPED | PSI<br>LEFT ( | ON                                | TOI            | POT<br>P OUT<br>MENT | SERVI                | CE SU       | PERVI           | SOR SIGN     | IATUI | RE:                   |           |              |                     |
| Y N                   | 2200   |           | Y N                                   | 220                        | 597         |                       | 0             |                                   | Υ              | N                    |                      |             |                 |              |       |                       |           |              |                     |

### **Summary of Changes**

Lease Name and Number: HEIMERMAN FARMS 3104 25-1

API/Permit #: 15-191-22655-00-00

Doc ID: 1100420

Correction Number: 1

Approved By: NAOMI JAMES

| Field Name                                    | Previous Value  | New Value    |
|---|-----------------|--------------|
| Amount of Surface Pipe<br>Set and Cemented at | 0               | 389          |
| Approved By                                   | Deanna Garrison | NAOMI JAMES  |
| Approved Date                                 | 08/21/2012      | 11/13/2012   |
| CasingAdd_Type_PctP<br>DF_2                   |                 | See attacjed |
| CasingAdd_Type_PctP<br>DF_3                   |                 | See attached |
| CasingNumbSacksUse dPDF_2                     |                 | 250          |
| CasingNumbSacksUse dPDF_3                     |                 | 1000         |
| CasingPurposeOfString PDF_2                   |                 | Surface      |
| CasingPurposeOfString PDF_3                   |                 | Intermediate |
| CasingSettingDepthPD F_2                      |                 | 389          |

# Summary of changes for correction 1 continued

| Field Name                             | Previous Value | New Value  |
|--|----------------|------------|
| CasingSettingDepthPD<br>F_3            |                | 4616       |
| CasingSizeCasingSetP<br>DF_2           |                | 9.625      |
| CasingSizeCasingSetP<br>DF_3           |                | 7          |
| CasingSizeHoleDrilledP<br>DF_2         |                | 12.25      |
| CasingSizeHoleDrilledP<br>DF_3         |                | 9.75       |
| CasingTypeOfCementP<br>DF_2            |                | Class C    |
| CasingTypeOfCementP<br>DF_3            |                | Class C    |
| CasingWeightPDF_2                      |                | 36         |
| CasingWeightPDF_3                      |                | 23         |
| Completion Or<br>Recompletion Date     | 07/03/2012     | 10/21/2012 |
| Date Reached TD                        | 07/03/2012     | 09/26/2012 |
| Electric Log Run?                      | No             | Yes        |
| Electric Log Submitted Electronically? |                | Yes        |

# Summary of changes for correction 1 continued

| Field Name                    | Previous Value  | New Value   |
|-------------------------------|---|---|
| Elogs_PDF                     |   | Triple Combo  |
| Formation Top Source -<br>Log | No  | Yes   |
| Liner Run?                    |   | No  |
| Producing Formation           | CONDUCTOR ONLY  | N/A   |
| Purchaser's Name              | CONDUCTOR ONLY  |   |
| Save Link                     | //kcc/detail/operatorE<br>ditDetail.cfm?docID=10<br>90520 | //kcc/detail/operatorE<br>ditDetail.cfm?docID=11<br>00420 |
| Spud Or Recompletion<br>Date  | 07/03/2012  | 09/06/2012  |
| TopsDepth1                    |   | 4025  |
| TopsDepth2                    |   | 4382  |
| TopsDepth3                    |   | 4393  |
| TopsDepth4                    |   | 4452  |
| TopsDepth5                    |   | 4485  |
| TopsDepth6                    |   | 4590  |

# Summary of changes for correction 1 continued

| Field Name             | Previous Value | New Value   |
|------------------------|----------------|-------------|
| TopsName1              | CONDUCTOR ONLY | Mississippi |
| TopsName2              |                | Compton     |
| TopsName3              |                | Kinderhook  |
| TopsName4              |                | Woodford    |
| TopsName5              |                | Simpson     |
| TopsName6              |                | Arbuckle    |
| Total Depth            | 60             | 5125        |
| Tubing Packer At       |                | 4570        |
| Tubing Record - Set At |                | 4583        |
| Tubing Size            |                | 4.5         |

### **Summary of Attachments**

Lease Name and Number: HEIMERMAN FARMS 3104 25-1

API: 15-191-22655-00-00

Doc ID: 1100420

Correction Number: 1

**Attachment Name** 

HEIMERMAN FARMS 3104 #25-1 conductor record

HEIMERMAN FARMS 3104 #25-1 Surface cement

HEIMERMAN FARMS 3104 #25-1 Intermediate cement



CONFIDENTIAL KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION WELL COMPLETION FORM

#### 1090520

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:   | SecTwpS. R  |
| Address 2:   | Feet from North / South Line of Section   |
| City: State: Zip: +  | Feet from East / West Line of Section   |
| Contact Person:  | Footages Calculated from Nearest Outside Section Corner:  |
| Phone: ()  | □NE □NW □SE □SW   |
| CONTRACTOR: License #  | County:   |
| Name:  | Lease Name: Well #:   |
| Wellsite Geologist:  | Field Name:   |
| Purchaser:   | Producing Formation:  |
| Designate Type of Completion:  | Elevation: Ground: Kelly Bushing:   |
| New Well Re-Entry Workover   | Total Depth: Plug Back Total Depth:   |
| □ Oil         □ WSW         □ SHOW           □ 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: | Amount of Surface Pipe Set and Cemented at: Feet  Multiple Stage Cementing Collar Used?   |
| Operator:  | Drilling Child Management Plan  |
| Well Name:   | Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)  |
| 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 #:   | Chloride content: ppm Fluid volume: bbls  Dewatering method used:  Location of fluid disposal if hauled offsite:  Operator Name:  Lease Name: License #:  Quarter Sec TwpS. R |
| GSW Permit #:  | County: Permit #:   |
| Spud Date or Date Reached TD Completion Date or Recompletion Date  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 III Approved by: Date:       |