Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1105184

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 # 34192
Name: SandRidge Exploration and Production LLC
Address 1: 123 ROBERT S. KERR AVE
Address 2:
City: OKLAHOMA CITY State: OK Zip: 73102 + 6406
Contact Person: Wanda Ledbeter
Phone: ( 405 ) 429-6474
CONTRACTOR: License # 34127
Name: Tomcat Drilling LLC
Wellsite Geologist: Jaclyn Clark
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
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

| 8/20/2012 | 9/26/2012 | 9/27/2012 |
|---|---|---|
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |

API No. 15 - 15-057-20835-00-00
Spot Description:
NW SW SW SW Sec. 1 Twp. 29 S. R. 22 ☐ East ☑ West
499 Feet from ☐ North / ☑ South Line of Section
152 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Ford
Lease Name: Karla SWD Well #: 2922 1-1
Field Name:
Producing Formation: Arbuckle
Elevation: Ground: 2431 Kelly Bushing: 2451
Total Vertical Depth: 7042 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 1006 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: 32000 ppm Fluid volume: 560 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: LoJo Disposal
Lease Name: Pit #1 License #: 99999
Quarter SW Sec. 10 Twp. 26 S. R. 15 ☐ East ☑ West
County: Woods, OK Permit #: 563714

**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**

☑ **Confidentiality Requested**
Date: 12/18/2012
☑ **Confidential Release Date:** 12/18/2014
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☑ **UIC Distribution**
**ALT** ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 12/19/2012

1105184

Operator Name: SandRidge Exploration and Production LLC Lease Name: Karla SWD Well #: 2922 1-1

Sec. 1 Twp. 29 S. R. 22 ☐ East ☑ West County: Ford

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken ☐ Yes ☑ No
*(Attach Additional Sheets)*

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Array Compensate True Resisitivity Log
Spectral Density Dual Spaced Neutron Microlog

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

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ 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 |
|---|---|---|---|---|---|---|---|
| Conductor | 30 | 20 | 75 | 146 | 4500PSI Concrete | 12 | none |
| Surface | 12.25 | 9.63 | 36 | 1006 | Haliburton Extendacem (TA) | 445 | 3% Calcium Chloride |
| Intermeidate | 8.75 | 7 | 26 | 6251 | Halliburton Econocem | 270 | 04% Halad (R)-9, |

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 | - | | | |
| | - | | | |

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☐ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No *(If No, fill out Page Three of the ACO-1)*

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

TUBING RECORD: Size: 4.5 Set At: 6231 Packer At: 6231 Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR.

Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|---|---|---|---|---|---|
| | | | | | |

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
*(If vented, Submit ACO-18.)*

METHOD OF COMPLETION:
☑ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:

**Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202**

| | |
|---|---|
| Form | ACO1 - Well Completion |
| Operator | SandRidge Exploration and Production LLC |
| Well Name | Karla SWD 2922 1-1 |
| Doc ID | 1105184 |

Tops

| Name | Top | Datum |
|---|---|---|
| Base Heebner | 4330 | |
| Lansing | 4488 | |
| Cherokee | 5080 | |
| Mississippian | 5201 | |
| Warsaw | 5259 | |
| Osage | 5368 | |
| Viola | 5824 | |
| Arbuckle | 6077 | |

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

Kansas
Corporation Commission

Phone: 316-337-6200
Fax: 316-337-6211
http://kcc.ks.gov/



December 18, 2012

Wanda Ledbeter
SandRidge Exploration and Production LLC
123 ROBERT S. KERR AVE
OKLAHOMA CITY, OK 73102-6406

Re: ACO1
API 15-057-20835-01-00
Karla SWD 2922 1-1
SW/4 Sec.01-29S-22W
Ford County, Kansas

Dear Production Department:

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

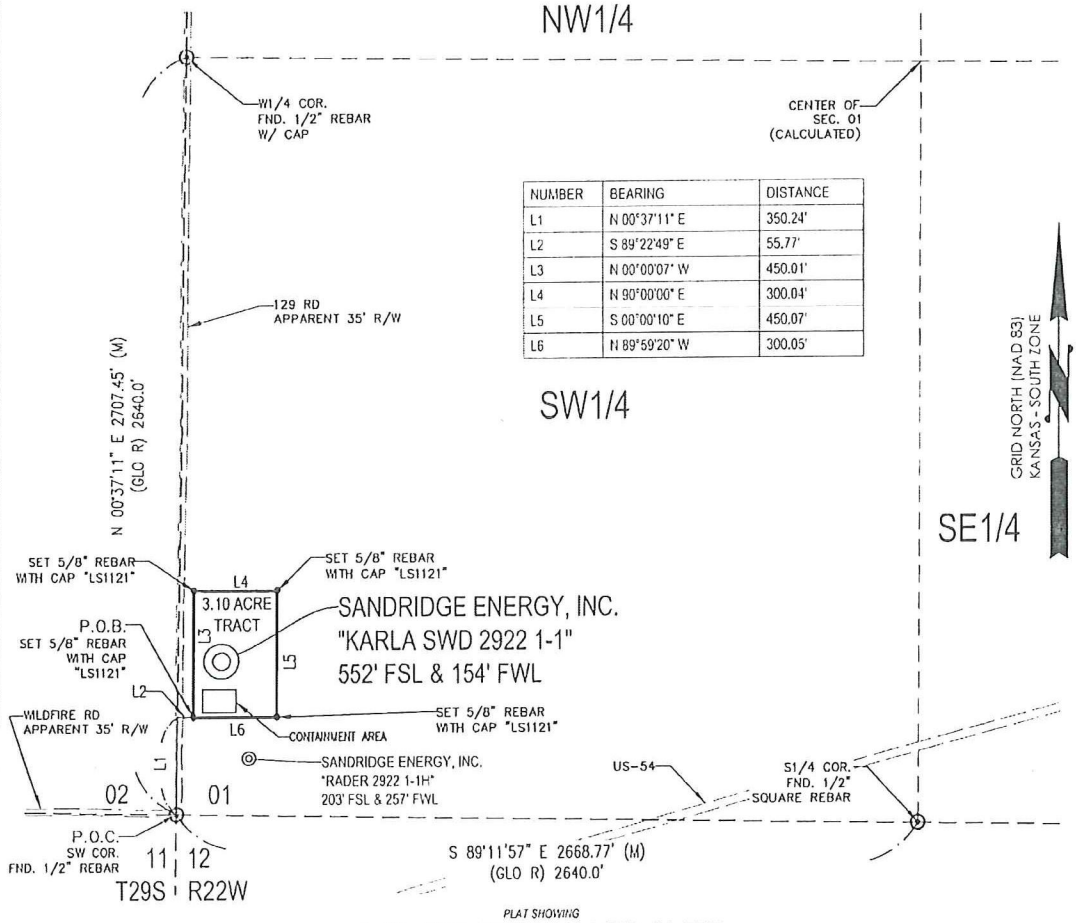
Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Wanda Ledbeter

170 Commerce Road, Building 201
Conway, Arkansas 72032
501.328.3316 t 501.328.3325 f
www.craftontull.com
Crafton Tull
SURVEYING

FORD COUNTY, KANSAS

# T 29 S - R 22 W




| NUMBER | BEARING | DISTANCE |
|---|---|---|
| L1 | N 00°37'11" E | 350.24' |
| L2 | S 89°22'49" E | 55.77' |
| L3 | N 00°00'07" W | 450.01' |
| L4 | N 90°00'00" E | 300.04' |
| L5 | S 00°00'10" E | 450.07' |
| L6 | N 89°59'20" W | 300.05' |

*PLAT SHOWING*

## 3.10 ACRE TRACT OF LAND IN THE SW1/4 OF SECTION 01, T29S-R22W, FORD COUNTY, KANSAS

### METES AND BOUNDS DESCRIPTION (3.10 ACRE TRACT)

PART OF THE SW1/4 OF SECTION 01, TOWNSHIP 29 SOUTH, RANGE 22 WEST, FORD COUNTY, KANSAS, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A FOUND 1/2" REBAR AT THE SOUTHWEST CORNER OF SAID SECTION 01;
THENCE N 00°37'11" E ALONG THE WEST LINE OF SAID SECTION 01, A DISTANCE OF 350.24 FEET TO A POINT;
THENCE S 89°22'49" E, A DISTANCE OF 55.77 FEET TO A SET 5/8" REBAR WITH CAP MARKED "LS1121", SAID POINT BEING THE POINT OF BEGINNING;
THENCE N 00°00'07" W, A DISTANCE OF 450.01 FEET TO A SET 5/8" REBAR WITH CAP MARKED "LS1121";
THENCE N 90°00'00" E, A DISTANCE OF 300.04 FEET TO A SET 5/8" REBAR WITH CAP MARKED "LS1121";
THENCE S 00°00'10" E, A DISTANCE OF 450.07 FEET TO A SET 5/8" REBAR WITH CAP MARKED "LS1121";
THENCE N 89°59'20" W, A DISTANCE OF 300.05 FEET TO THE POINT OF BEGINNING.

SAID TRACT CONTAINING 3.10 ACRES OF LAND AS SURVEYED, MORE OR LESS.

BASIS OF BEARINGS:
KANSAS STATE PLANE COORDINATE SYSTEM NAD-1983 SOUTH ZONE
BEARINGS: GRID
DISTANCES: US SURVEY FOOT AT GRID
COORDINATES: US SURVEY FOOT AT GRID

SURVEYOR'S CERTIFICATE:
I, JAMES GERARD TEMPLE, KANSAS LICENSED PROFESSIONAL LAND SURVEYOR, NO. 1121, DO HEREBY CERTIFY THAT THIS PLAT REPRESENTS THE RESULTS OF A SURVEY MADE ON THE GROUND UNDER MY SUPERVISION ON THE DATE OF 07-13-2012 AND THAT THIS SURVEY MEETS THE REQUIREMENTS OF KANSAS MINIMUM STANDARDS FOR LAND SURVEYING. NO EASEMENTS OR OTHER TITLE DOCUMENTS WERE PROVIDED TO THE SURVEYOR FOR THIS PROPERTY.

JAMES GERARD TEMPLE
LICENSED
1121
KANSAS
LAND SURVEYOR

7/13/2012

(GLO R)- GENERAL LAND OFFICE RECORD
(PERM R)- PERMANENT SURVEY RECORD
(M)- MEASURED DATA

GRAPHIC SCALE IN FEET
500 250 0 500

| REVISION | |
|---|---|
| 1 | MOVED SHL (07-13-2012) |
| | |
| | |
| | |
| | |
| | |

SandRidge

"KARLA SWD 2922 1-1"
PART OF THE SW1/4 OF SECTION 01, T-29-S, R-22-W
PROPOSED DRILL SITE
FORD COUNTY, KANSAS

SCALE: 1" = 500'
PLOT DATE: 07-13-2012 | DRAWN BY: S.ANDERSON | SHEET NO.: 1 OF 1

G:\102009-00 (SANDRIDGE ENERGY)\SUR\DWG (WELL-PLATS)\KARLA_SWD_2922_1-1\KARLA SWD 2922 1-1.DWG 7/13/2012 3:11:15 PM SA1236

PRO OILFIELD SERVICES, LLC

***Conductor, Rat and Mouse Hole Drilling Services***

# Ticket

Company: Date: 8/21/2012

**Sandridge**

| Drill Rig: | Location: | Lease Name: |
|---|---|---|
| Tomcat 3 | Ford County | ~~Kerla~~ #1-1SWD |

120' of 30" Drilled Conductor Hole
120' of 20" Conductor Pipe(.250 wall) 82ppf
6'x6' Cellar Tinhorn W/Protective Ring
Drill & Install cellar
20' of 20" Drilled Moushole
20' of 16" Moushole Pipe
40' of 20" Drilled Rathole
40' of 16" Pipe
Mobilization of Equipment & Road Permitting Fee
Welding Services for Pipe & Lids
Provided Equipment & Labor for Dirt Removal
Provided Personal to Facilitate Diggtess(One Call)
Provide Metal for Lids(1 for the Conductor and 2 for the Mouse hole pipe)
12 Yards of 4500PSI concrete Poured down the back side of Conductor Pipe

Karla #1 AFE DC12133

AFE Number: DC12133
Well Name: Karla 1-1
Code: 850.010
Amount: 21,500.00
Co. Man:
Co. Man Sig.:
Notes:

Comments:)
Thank You For Your Business
If a caving formation and (or) water is found addition fee(s) will be add to cover the cost of tank trucks, vacuum trucks, and cement pump trucks. Prices figured on non-rocky soil conditions, If rock is present then there will be a surcharge.

Total $21,500.00

HALLIBURTON

# Cementing Job Summary

*The Road to Excellence Starts with Safety*

| | | | |
|---|---|---|---|
| **Sold To #:** 305021 | **Ship To #:** 2949664 | **Quote #:** | **Sales Order #:** 9795880 |
| **Customer:** SANDRIDGE ENERGY INC EBUSINESS | | **Customer Rep:** Solis, Lu | |
| **Well Name:** Karla 2922 1 | **Well #:** 1 SWD | | **API/UWI #:** |
| **Field:** | **City (SAP):** FORD | **County/Parish:** Finney | **State:** Kansas |
| **Contractor:** TOMCAT | **Rig/Platform Name/Num:** 3 | | |
| **Job Purpose:** Cement Surface Casing | | | |
| **Well Type:** Development Well | **Job Type:** Cement Surface Casing | | |
| **Sales Person:** NGUYEN, VINH | **Srvc Supervisor:** JIMENEZ, JESUS | **MBU ID Emp #:** 221813 | |

## Job Personnel

| HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # |
|---|---|---|---|---|---|---|---|---|
| JIMENEZ, JESUS Medrano | 6.8 | 221813 | LAYNE, OLANDIS | 6.8 | 517538 | THOMPSON, RAYLAND | 6.8 | 476826 |
| TREJO, NOE | 6.8 | 456243 | | | | | | |

## Equipment

| HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

## Job Hours

| Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours |
|---|---|---|---|---|---|---|---|---|
| 9-6-12 | 7 | 2 | | | | | | |
| TOTAL | | | *Total is the sum of each column separately* | | | | | |

## Job

| | | | |
|---|---|---|---|
| **Formation Name** | | | |
| **Formation Depth (MD)** | **Top** | | **Bottom** |
| **Form Type** | | **BHST** | |
| **Job depth MD** | 1105. ft | **Job Depth TVD** | 1105. ft |
| **Water Depth** | | **Wk Ht Above Floor** | |
| **Perforation Depth (MD)** | **From** | | **To** |

## Job Times

| | Date | Time | Time Zone |
|---|---|---|---|
| Called Out | 05 - Sep - 2012 | 16:00 | CST |
| On Location | 06 - Sep - 2012 | 00:10 | CST |
| Job Started | 06 - Sep - 2012 | 03:00 | CST |
| Job Completed | 06 - Sep - 2012 | 04:00 | CST |
| Departed Loc | 06 - Sep - 2012 | 07:00 | CST |

## Well Data

| Description | New / Used | Max pressure psig | Size in | ID in | Weight lbm/ft | Thread | Grade | Top MD ft | Bottom MD ft | Top TVD ft | Bottom TVD ft |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12.25" Open Hole | | | | 12.25 | | | | . | 1106. | | |
| 9.625" Surface Casing | Unknown | | 9.625 | 8.921 | 36. | LTC | J-55 | . | 1105. | | |

## Sales/Rental/3rd Party (HES)

| Description | Qty | Qty uom | Depth | Supplier |
|---|---|---|---|---|
| PLUG,CMTG,TOP,9 5/8,HWE,8.16 MIN/9.06 MA | 1 | EA | | |
| SUGAR - GRANULATED | 100 | LB | | |

## Tools and Accessories

| Type | Size | Qty | Make | Depth | Type | Size | Qty | Make | Depth | Type | Size | Qty | Make |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Guide Shoe | | | | | Packer | | | | | Top Plug | | 1 | |
| Float Shoe | | | | | Bridge Plug | | | | | Bottom Plug | | | |
| Float Collar | | | | | Retainer | | | | | SSR plug set | | | |
| Insert Float | | | | | | | | | | Plug Container | | | |
| Stage Tool | | | | | | | | | | Centralizers | | | |

## Miscellaneous Materials

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gelling Agt | | Conc | | Surfactant | | Conc | | Acid Type | | Qty | | Conc | % |
| Treatment Fld | | Conc | | Inhibitor | | Conc | | Sand Type | | Size | | Qty | |

## Fluid Data

**Stage/Plug #: 1**

HALLIBURTON

# *Cementing Job Summary*

| Fluid # | Stage Type | Fluid Name | Qty | Qty uom | Mixing Density lbm/gal | Yield ft3/sk | Mix Fluid Gal/sk | Rate bbl/min | Total Mix Fluid Gal/sk |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Fresh Water | | 10.00 | bbl | 8.33 | .0 | .0 | 4 | |
| 2 | Lead Cement | EXTENDACEM (TM) SYSTEM (452981) | 285.0 | sacks | 12.4 | 2.12 | 11.68 | 5 | 11.68 |
| | 3 % | CALCIUM CHLORIDE, PELLET, 50 LB (101509387) | | | | | | | |
| | 0.25 lbm | POLY-E-FLAKE (101216940) | | | | | | | |
| | 11.676 Gal | FRESH WATER | | | | | | | |
| 3 | Tail Cement | SWIFTCEM (TM) SYSTEM (452990) | 160.0 | sacks | 15.6 | 1.2 | 5.32 | 5 | 5.32 |
| | 2 % | CALCIUM CHLORIDE, PELLET, 50 LB (101509387) | | | | | | | |
| | 0.125 lbm | POLY-E-FLAKE (101216940) | | | | | | | |
| | 5.319 Gal | FRESH WATER | | | | | | | |
| 4 | Displacement (TBC) | | 75.00 | bbl | 8.33 | .0 | .0 | 5 | |

| Calculated Values | | Pressures | | Volumes | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Displacement | 75 | Shut In: Instant | | Lost Returns | 0 | Cement Slurry | 142 | Pad | |
| Top Of Cement | SURFACE | 5 Min | | Cement Returns | 30 | Actual Displacement | 75 | Treatment | |
| Frac Gradient | | 15 Min | | Spacers | 10 | Load and Breakdown | | Total Job | |

**Rates**

| Circulating | | Mixing | 5 | Displacement | 5 | Avg. Job | 5 |
|---|---|---|---|---|---|---|---|

| Cement Left In Pipe | Amount | 42 ft | Reason | Shoe Joint |
|---|---|---|---|---|

| Frac Ring # 1 @ | | ID | | Frac ring # 2 @ | | ID | | Frac Ring # 3 @ | | ID | | Frac Ring # 4 @ | | ID | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| The Information Stated Herein Is Correct | Customer Representative Signature |
|---|---|

HALLIBURTON

# *Cementing Job Summary*

*The Road to Excellence Starts with Safety*

| | | | |
|---|---|---|---|
| **Sold To #:** 305021 | **Ship To #:** 2949664 | **Quote #:** | **Sales Order #:** 9826257 |
| **Customer:** SANDRIDGE ENERGY INC EBUSINESS | | **Customer Rep:** Robles, Ricky | |
| **Well Name:** Karla 2922 SWD | **Well #:** 1-1 | | **API/UWI #:** 15-057-20835 |
| **Field:** | **City (SAP):** FORD | **County/Parish:** Ford | **State:** Kansas |
| **Legal Description:** Section 1 Township 29S Range 22W | | | |
| **Contractor:** TOMCAT | **Rig/Platform Name/Num:** 3 | | |
| **Job Purpose:** Cement Intermediate Casing | | | |
| **Well Type:** Development Well | **Job Type:** Cement Intermediate Casing | | |
| **Sales Person:** NGUYEN, VINH | **Srvc Supervisor:** KLAUSE, JOHN | **MBU ID Emp #:** 456246 | |

**Job Personnel**

| HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # |
|---|---|---|---|---|---|---|---|---|
| KLAUSE, JOHN David | 11 | 456246 | NASH, JONATHAN Clark | 11 | 524600 | WIFA, HENRY Neniebari | 11 | 491916 |

**Equipment**

| HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way |
|---|---|---|---|---|---|---|---|
| 11706683 | 85 | 10995019 | 85 | 10990703 | 85 | 11019295 | 85 |

**Job Hours**

| Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours |
|---|---|---|---|---|---|---|---|---|
| 9-22/23 | 11 | 5 | | | | | | |
| TOTAL | | | *Total is the sum of each column separately* | | | | | |

**Job**

| | | | |
|---|---|---|---|
| Formation Name | | | |
| Formation Depth (MD) | Top | Bottom | |
| Form Type | | BHST | |
| Job depth MD | 6236. m | Job Depth TVD | 6236. m |
| Water Depth | | Wk Ht Above Floor | |
| Perforation Depth (MD) | From | To | |

**Job Times**

| | Date | Time | Time Zone |
|---|---|---|---|
| Called Out | 9-22 | 1200 | |
| On Location | 9-22 | 2100 | |
| Job Started | 9-23 | 0500 | |
| Job Completed | 9-23 | 0700 | GMT |
| Departed Loc | 9-23 | 0900 | |

**Well Data**

| Description | New / Used | Max pressure MPa | Size mm | ID mm | Weight kg/m | Thread | Grade | Top MD m | Bottom MD m | Top TVD m | Bottom TVD m |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8.75" Open Hole | | | | 8.75 | | | | 1000. | 6236. | | |
| 7" Intermediate Casing Lower | Unknown | | 7. | 6.314 | 24.8 | | | 6196. | 6236. | | |
| 7" Intermediate Casing Upper | Unknown | | 7. | 6.276 | 26. | BTC | J-55 | . | 6196. | | |
| 9.625" Surface Casing | Unknown | | 9.625 | 8.921 | 36. | LTC | J-55 | . | 1000. | | |

**Sales/Rental/3rd Party (HES)**

| Description | Qty | Qty uom | Depth | Supplier |
|---|---|---|---|---|
| PLUG,CMTG,TOP,7,HWE,5.66 MIN/6.54 MAX CS | 1 | EA | | |

**Tools and Accessories**

| Type | Size | Qty | Make | Depth | Type | Size | Qty | Make | Depth | Type | Size | Qty | Make |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Guide Shoe | | | | | Packer | | | | | Top Plug | | | |
| Float Shoe | | | | | Bridge Plug | | | | | Bottom Plug | | | |
| Float Collar | | | | | Retainer | | | | | SSR plug set | | | |
| Insert Float | | | | | | | | | | Plug Container | | | |
| Stage Tool | | | | | | | | | | Centralizers | | | |

**Miscellaneous Materials**

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gelling Agt | | Conc | | Surfactant | | Conc | | Acid Type | | Qty | | Conc | % |
| Treatment Fld | | Conc | | Inhibitor | | Conc | | Sand Type | | Size | | Qty | |

**Fluid Data**

**Stage/Plug #: 1**

HALLIBURTON

# *Cementing Job Summary*

| Fluid # | Stage Type | Fluid Name | Qty | Qty uom | Mixing Density kg/m3 | Yield m3/sk | Mix Fluid m3/ tonne | Rate m3/min | Total Mix Fluid m3/ tonne |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Fresh Water | | 10.00 | bbl | 8.33 | .0 | .0 | .0 | |
| 2 | Lead Cement | ECONOCEM (TM) SYSTEM (452992) | 190.0 | sacks | 13.6 | 1.54 | 7.36 | | 7.36 |
| | 0.4 % | HALAD(R)-9, 50 LB (100001617) | | | | | | | |
| | 2 lbm | KOL-SEAL, BULK (100064233) | | | | | | | |
| | 2 % | BENTONITE, BULK (100003682) | | | | | | | |
| | 7.356 Gal | FRESH WATER | | | | | | | |
| 3 | Tail Cement | HALCEM (TM) SYSTEM (452986) | 80.0 | sacks | 15.6 | 1.19 | 5.08 | | 5.08 |
| | 0.4 % | HALAD(R)-9, 50 LB (100001617) | | | | | | | |
| | 2 lbm | KOL-SEAL, BULK (100064233) | | | | | | | |
| | 5.076 Gal | FRESH WATER | | | | | | | |
| 4 | Displacement (TBC) | | 236.00 | bbl | 8.33 | .0 | .0 | .0 | |

| Calculated Values | | Pressures | | Volumes | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Displacement | 236 | Shut In: Instant | 1748 | Lost Returns | 0 | Cement Slurry | 52/17 | Pad | |
| Top Of Cement | 3783 | 5 Min | | Cement Returns | 0 | Actual Displacement | 236 | Treatment | |
| Frac Gradient | | 15 Min | | Spacers | 10 | Load and Breakdown | 0 | Total Job | |

**Rates**

| Circulating | 5 | Mixing | 6 | Displacement | 7 | Avg. Job | 7 |
|---|---|---|---|---|---|---|---|

| Cement Left In Pipe | Amount | 84 ft | Reason | Shoe Joint |
|---|---|---|---|---|

| Frac Ring # 1 @ | | ID | | Frac ring # 2 @ | | ID | | Frac Ring # 3 @ | | ID | | Frac Ring # 4 @ | | ID | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| The Information Stated Herein Is Correct | Customer Representative Signature |
|---|---|