Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1083140

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: Tiffany Golay
Phone: ( 405 ) 429-6543
CONTRACTOR: License # 33596
Name: Unit Petroleum Company
Wellsite Geologist: Tammy Alcorn
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 #:

| 5/17/2012 | 6/2/2012 | 6/4/2012 |
|---|---|---|
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |

API No. 15 - 15-007-23877-01-00
Spot Description:
NE - NE - NW - SW Sec. 1 Twp. 35 S. R. 10 ☐ East ☑ West
2440 Feet from ☐ North / ☑ South Line of Section
1245 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: Barber
Lease Name: JoAnn Well #: 1-1H
Field Name:
Producing Formation: Mississippian
Elevation: Ground: 1320 Kelly Bushing: 1340
Total Vertical Depth: 8729 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 920 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: 8400 ppm Fluid volume: 2060 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. 1 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: 09/13/2012
☑ **Confidential Release Date:** 09/13/2014
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
**ALT** ☑ I ☐ II ☐ III **Approved by:** NAOMI JAMES **Date:** 09/14/2012

1083140

Operator Name: SandRidge Exploration and Production LLC Lease Name: JoAnn Well #: 1-1H

Sec. 1 Twp. 35 S. R. 10 ☐ East ☑ West County: Barber

**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:

Resistivity
Porosity

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

| Name | Top | Datum |
|---|---|---|
| Base Heebner | 3615 | |
| Tonkawa | 3958 | |
| Cottage Grove | 4213 | |
| Oswego Limestone | 4520 | |
| Cherokee Group | 4620 | |
| Verdigris Limestone | 4648 | |
| Mississippi Lime | 4750 | |

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 |
|---|---|---|---|---|---|---|---|
| Attached | Attached | Attached | Attached | Attached | Attached | Attached | Attached |
| | | | | | | | |
| | | | | | | | |

ADDITIONAL CEMENTING / SQUEEZE RECORD

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

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 |
|---|---|---|---|
| Attached | Attached | Attached | Attached |
| | | | |
| | | | |
| | | | |
| | | | |

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

Date of First, Resumed Production, SWD or ENHR. 6/26/2012

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 | JoAnn 1-1H |
| Doc ID | 1083140 |

Perforations

| Shots Per Foot | Perforation Record | Material Record | Depth |
|---|---|---|---|
| 5 | 8238-8620 | 4263 bbls of water, 36 bbls acid, 75M lbs sand, 4299 TLTR | |
| 5 | 7568-7890 | 4295 bbls of water, 36 bbls acid, 75M lbs sand, 8775 TLTR | |
| 5 | 7174-7480 | 4289 bbls of water, 36 bbls acid, 75M lbs sand, 13296 TLTR | |
| 5 | 6788-7100 | 4285 bbls of water, 36 bbls acid, 75m lbs sand, 17629 TLTR | |
| 5 | 6540-6752 | 4299 bbls of water, 36 bbls acid, 75M lbs sand, 22046 TLTR | |
| 5 | 6208-6472 | 4250 bbls of water, 36 bbls acid, 75M lbs sand, 26404 TLTR | |
| 5 | 5850-6082 | 4283 bbls water, 36 bbls aicd, 75M lbs sand, 30781 TLTR | |
| 5 | 5514-5788 | 4250 bbls water, 36 bbls aicd, 75M lbs sand, 35103 TLTR | |

| | |
|---|---|
| Form | ACO1 - Well Completion |
| Operator | SandRidge Exploration and Production LLC |
| Well Name | JoAnn 1-1H |
| Doc ID | 1083140 |

Casing

| Purpose Of String | Size Hole Drilled | Size Casing Set | Weight | Setting Depth | Type Of Cement | Number of Sacks Used | Type and Percent Additives |
|---|---|---|---|---|---|---|---|
| Conductor | 24 | 20 | 75 | 105 | Mid-Continent Conductor 8 sack grout | 10 | none |
| Surface | 12.25 | 9.63 | 36 | 920 | Halliburtion Extandacem and Swiftcem Systems | 440 | 3% Calcium Chloride, .25 Poly-E-Flake |
| Intermediate | 8.75 | 7 | 26 | 5274 | 50/50 Poz Standard/ Premium | 310 | .4% Halad(R)-9, 2 lbm Kol-Seal, 2 % Bentontinte |
| Liner | 6.125 | 4.5 | 11.6 | 8729 | 50/50 Poz Standard | 225 | .4% halad(R)-9, 2 lbm Kol-Seal, 2% Bentonite |

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/



August 21, 2012

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

Re: ACO1
API 15-007-23877-01-00
JoAnn 1-1H
SW/4 Sec.01-35S-10W
Barber 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,
Tiffany Golay

Wellbores - Step #2
Actual Deviation Survey: JoAnn 1-1H, Proposed? No
Deviation Surveys - Step #1
Des: JoAnn 1-1H
Tie-in Data
Azm North Typ:
Survey Data

Wellbore Name: Original Hole

Date: 2012/05/19 VS Dir (°): Com:

Convergence (°): Decl (°): MD Tie In (ftKB): Azimuth Tie In (°): Inclination Tie In (°): TVDTie In (ftKB): NSTie In (ft): EWTie In (ft):

| MD (ftKB) | Incl (°) | Azm (°) | Survey Company | Method | TVD (ftKB) | VS (ft) | NS (ft) | EW (ft) | DLS (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 1,150 | 0.3 | 238.93 | Baker Hughes INTEQ | MWD | 1,150 | 2 | -1.35 | -2.23 | 0.02 |
| 1,333 | 0.3 | 272.79 | Baker Hughes INTEQ | MWD | 1,333 | 2 | -1.54 | -3.04 | 0.09 |
| 1,364 | 0.6 | 294.99 | Baker Hughes INTEQ | MWD | 1,364 | 2 | -1.46 | -3.26 | 1.21 |
| 1,394 | 0.9 | 287.92 | Baker Hughes INTEQ | MWD | 1,394 | 2 | -1.33 | -3.63 | 0.85 |
| 1,425 | 1.2 | 287.98 | Baker Hughes INTEQ | MWD | 1,425 | 2 | -1.16 | -4.15 | 0.97 |
| 1,456 | 1.5 | 290.09 | Baker Hughes INTEQ | MWD | 1,456 | 1 | -0.93 | -4.81 | 0.95 |
| 1,486 | 2.1 | 291.73 | Baker Hughes INTEQ | MWD | 1,486 | 1 | -0.59 | -5.69 | 2.31 |
| 1,517 | 2.9 | 286.21 | Baker Hughes INTEQ | MWD | 1,517 | 1 | -0.16 | -6.98 | 2.57 |
| 1,548 | 4 | 285.58 | Baker Hughes INTEQ | MWD | 1,548 | 1 | 0.35 | -8.76 | 3.39 |
| 1,608 | 5.6 | 281.63 | Baker Hughes INTEQ | MWD | 1,608 | 0 | 1.5 | -13.63 | 2.84 |
| 1,639 | 6.5 | 278.05 | Baker Hughes INTEQ | MWD | 1,638 | 0 | 2.05 | -16.85 | 3.09 |
| 1,669 | 7.2 | 277.87 | Baker Hughes INTEQ | MWD | 1,668 | 0 | 2.54 | -20.4 | 2.37 |
| 1,700 | 8.2 | 277.62 | Baker Hughes INTEQ | MWD | 1,699 | 0 | 3.1 | -24.51 | 3.1 |
| 1,730 | 8.8 | 274.51 | Baker Hughes INTEQ | MWD | 1,729 | 0 | 3.57 | -28.9 | 2.49 |
| 1,761 | 9.4 | 270.64 | Baker Hughes INTEQ | MWD | 1,759 | 0 | 3.78 | -33.8 | 2.95 |
| 1,792 | 10.7 | 271.4 | Baker Hughes INTEQ | MWD | 1,790 | 0 | 3.88 | -39.21 | 4.02 |
| 1,823 | 11.2 | 269.6 | Baker Hughes INTEQ | MWD | 1,820 | 1 | 3.93 | -45.1 | 2.12 |
| 1,853 | 10.8 | 269.36 | Baker Hughes INTEQ | MWD | 1,850 | 2 | 3.88 | -50.84 | 1.51 |
| 1,884 | 10.7 | 269.49 | Baker Hughes INTEQ | MWD | 1,880 | 2 | 3.82 | -56.62 | 0.21 |
| 1,915 | 11.4 | 267.58 | Baker Hughes INTEQ | MWD | 1,911 | 3 | 3.66 | -62.56 | 2.32 |
| 1,947 | 12.3 | 265.64 | Baker Hughes INTEQ | MWD | 1,942 | 4 | 3.27 | -69.1 | 3.22 |
| 1,979 | 12.8 | 263.77 | Baker Hughes INTEQ | MWD | 1,973 | 6 | 2.63 | -76.03 | 2.04 |
| 2,042 | 13.2 | 262.11 | Baker Hughes INTEQ | MWD | 2,035 | 9 | 0.88 | -90.08 | 0.82 |
| 2,074 | 12.9 | 260.72 | Baker Hughes INTEQ | MWD | 2,066 | 11 | -0.19 | -97.22 | 1.23 |
| 2,168 | 11.9 | 263.99 | Baker Hughes INTEQ | MWD | 2,157 | 16 | -2.9 | -117.23 | 1.33 |
| 2,263 | 11.7 | 266.32 | Baker Hughes INTEQ | MWD | 2,250 | 20 | -4.55 | -136.56 | 0.55 |
| 2,295 | 12.1 | 268.45 | Baker Hughes INTEQ | MWD | 2,282 | 21 | -4.84 | -143.14 | 1.85 |
| 2,327 | 12.1 | 268.36 | Baker Hughes INTEQ | MWD | 2,313 | 22 | -5.03 | -149.84 | 0.09 |
| 2,358 | 12.5 | 268.44 | Baker Hughes INTEQ | MWD | 2,343 | 22 | -5.22 | -156.43 | 1.13 |
| 2,453 | 12.1 | 268.35 | Baker Hughes INTEQ | MWD | 2,436 | 25 | -5.78 | -176.6 | 0.39 |
| 2,549 | 11.9 | 270.72 | Baker Hughes INTEQ | MWD | 2,530 | 28 | -5.95 | -196.5 | 0.57 |
| 2,645 | 11.2 | 270.94 | Baker Hughes INTEQ | MWD | 2,624 | 29 | -5.67 | -215.71 | 0.64 |
| 2,740 | 11.4 | 267.84 | Baker Hughes INTEQ | MWD | 2,717 | 32 | -5.87 | -234.38 | 0.67 |
| 2,835 | 11.1 | 265.47 | Baker Hughes INTEQ | MWD | 2,811 | 35 | -6.95 | -252.87 | 0.62 |
| 2,930 | 12.5 | 264.94 | Baker Hughes INTEQ | MWD | 2,904 | 39 | -8.57 | -272.2 | 1.5 |
| 3,025 | 13 | 268.8 | Baker Hughes INTEQ | MWD | 2,996 | 42 | -9.7 | -293.08 | 1.02 |
| 3,120 | 13.5 | 270.32 | Baker Hughes INTEQ | MWD | 3,089 | 45 | -9.86 | -314.85 | 0.7 |
| 3,215 | 13.6 | 271.97 | Baker Hughes INTEQ | MWD | 3,181 | 47 | -9.42 | -337.14 | 0.42 |
| 3,310 | 12.3 | 269.89 | Baker Hughes INTEQ | MWD | 3,274 | 49 | -9.05 | -358.45 | 1.46 |
| 3,404 | 10.8 | 271.92 | Baker Hughes INTEQ | MWD | 3,366 | 50 | -8.78 | -377.25 | 1.68 |
| 3,500 | 10.9 | 267.78 | Baker Hughes INTEQ | MWD | 3,460 | 52 | -8.83 | -395.25 | 0.81 |
| 3,595 | 12.1 | 269.56 | Baker Hughes INTEQ | MWD | 3,553 | 55 | -9.25 | -414.15 | 1.37 |
| 3,690 | 11.6 | 267.09 | Baker Hughes INTEQ | MWD | 3,646 | 58 | -9.81 | -433.63 | 0.76 |
| 3,787 | 11.7 | 262.77 | Baker Hughes INTEQ | MWD | 3,741 | 61 | -11.54 | -453.13 | 0.91 |
| 3,850 | 11.8 | 260.17 | Baker Hughes INTEQ | MWD | 3,803 | 65 | -13.44 | -465.8 | 0.84 |
| 3,914 | 11.9 | 245.81 | Baker Hughes INTEQ | MWD | 3,865 | 70 | -17.27 | -478.26 | 4.6 |
| 3,945 | 13.2 | 233.87 | Baker Hughes INTEQ | MWD | 3,896 | 74 | -20.67 | -484.05 | 9.3 |
| 3,977 | 15.3 | 224.93 | Baker Hughes INTEQ | MWD | 3,927 | 80 | -25.81 | -489.97 | 9.4 |
| 4,008 | 17.5 | 223.01 | Baker Hughes INTEQ | MWD | 3,956 | 87 | -32.1 | -496.03 | 7.43 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 4,040 | 19.7 | 220.67 | Baker Hughes INTEQ | MWD | 3,987 | 95 | -39.7 | -502.82 | 7.11 |
| 4,072 | 22.2 | 221.27 | Baker Hughes INTEQ | MWD | 4,017 | 104 | -48.32 | -510.31 | 7.9 |
| 4,104 | 23.6 | 215.64 | Baker Hughes INTEQ | MWD | 4,046 | 115 | -58.07 | -518.03 | 8.13 |
| 4,136 | 24 | 209.15 | Baker Hughes INTEQ | MWD | 4,075 | 126 | -68.96 | -524.93 | 8.3 |
| 4,167 | 24.2 | 203.41 | Baker Hughes INTEQ | MWD | 4,104 | 138 | -80.31 | -530.53 | 7.59 |
| 4,199 | 24.2 | 198.33 | Baker Hughes INTEQ | MWD | 4,133 | 151 | -92.55 | -535.2 | 6.51 |
| 4,231 | 23.9 | 193.31 | Baker Hughes INTEQ | MWD | 4,162 | 164 | -105.08 | -538.75 | 6.46 |
| 4,263 | 24 | 190.37 | Baker Hughes INTEQ | MWD | 4,191 | 177 | -117.78 | -541.42 | 3.73 |
| 4,295 | 25.4 | 187.05 | Baker Hughes INTEQ | MWD | 4,220 | 190 | -130.99 | -543.43 | 6.31 |
| 4,326 | 27.6 | 185.14 | Baker Hughes INTEQ | MWD | 4,248 | 204 | -144.74 | -544.89 | 7.4 |
| 4,358 | 29.9 | 185.59 | Baker Hughes INTEQ | MWD | 4,276 | 219 | -160.06 | -546.33 | 7.47 |
| 4,390 | 31.9 | 182.46 | Baker Hughes INTEQ | MWD | 4,304 | 236 | -176.47 | -547.47 | 7.97 |
| 4,421 | 33.9 | 181.37 | Baker Hughes INTEQ | MWD | 4,330 | 253 | -193.31 | -548.03 | 6.76 |
| 4,453 | 35.8 | 180.46 | Baker Hughes INTEQ | MWD | 4,356 | 271 | -211.6 | -548.32 | 6.16 |
| 4,485 | 37.3 | 180.13 | Baker Hughes INTEQ | MWD | 4,382 | 290 | -230.67 | -548.42 | 4.76 |
| 4,517 | 39.6 | 179.34 | Baker Hughes INTEQ | MWD | 4,407 | 310 | -250.59 | -548.32 | 7.35 |
| 4,549 | 42.2 | 178.99 | Baker Hughes INTEQ | MWD | 4,431 | 330 | -271.55 | -548.01 | 8.06 |
| 4,580 | 43.9 | 179.5 | Baker Hughes INTEQ | MWD | 4,454 | 351 | -292.7 | -547.74 | 5.53 |
| 4,612 | 44.9 | 180.39 | Baker Hughes INTEQ | MWD | 4,476 | 374 | -315.1 | -547.72 | 3.82 |
| 4,644 | 46.6 | 180.9 | Baker Hughes INTEQ | MWD | 4,499 | 396 | -338.02 | -547.97 | 5.19 |
| 4,689 | 49.4 | 180.9 | Baker Hughes INTEQ | MWD | 4,529 | 430 | -371.43 | -548.5 | 6.24 |
| 4,740 | 50.2 | 179.77 | Baker Hughes INTEQ | MWD | 4,562 | 468 | -410.37 | -548.72 | 2.32 |
| 4,785 | 49.7 | 179.08 | Baker Hughes INTEQ | MWD | 4,591 | 503 | -444.81 | -548.38 | 1.57 |
| 4,836 | 50 | 178.94 | Baker Hughes INTEQ | MWD | 4,624 | 541 | -483.79 | -547.71 | 0.59 |
| 4,868 | 50.2 | 178.64 | Baker Hughes INTEQ | MWD | 4,644 | 566 | -508.33 | -547.19 | 0.93 |
| 4,900 | 51.9 | 178.78 | Baker Hughes INTEQ | MWD | 4,664 | 590 | -533.21 | -546.63 | 5.42 |
| 4,932 | 53.2 | 181.62 | Baker Hughes INTEQ | MWD | 4,684 | 615 | -558.6 | -546.72 | 8.1 |
| 4,963 | 56.2 | 182.43 | Baker Hughes INTEQ | MWD | 4,702 | 641 | -583.88 | -547.62 | 9.88 |
| 4,995 | 59.1 | 182.78 | Baker Hughes INTEQ | MWD | 4,719 | 668 | -610.89 | -548.85 | 9.3 |
| 5,027 | 62.4 | 182.42 | Baker Hughes INTEQ | MWD | 4,734 | 696 | -638.78 | -550.11 | 10.17 |
| 5,058 | 66.2 | 66.17 | Baker Hughes INTEQ | MWD | 4,753 | 705 | -649.68 | -533.21 | 322.12 |
| 5,090 | 69.3 | 181.62 | Baker Hughes INTEQ | MWD | 4,770 | 715 | -662.34 | -515.08 | 321.88 |
| 5,123 | 73.2 | 180.5 | Baker Hughes INTEQ | MWD | 4,780 | 746 | -693.57 | -515.65 | 12.07 |
| 5,154 | 75.8 | 180.8 | Baker Hughes INTEQ | MWD | 4,789 | 776 | -723.43 | -515.99 | 8.47 |
| 5,186 | 78.2 | 180.64 | Baker Hughes INTEQ | MWD | 4,796 | 807 | -754.6 | -516.38 | 7.64 |
| 5,217 | 80.6 | 180.19 | Baker Hughes INTEQ | MWD | 4,802 | 837 | -785.07 | -516.6 | 7.84 |
| 5,249 | 83.7 | 179.53 | Baker Hughes INTEQ | MWD | 4,806 | 869 | -816.76 | -516.53 | 9.78 |
| 5,312 | 89 | 178.95 | Baker Hughes INTEQ | MWD | 4,810 | 931 | -879.61 | -515.69 | 8.6 |
| 5,382 | 89.6 | 179.18 | Baker Hughes INTEQ | MWD | 4,811 | 1,001 | -949.59 | -514.55 | 0.9 |
| 5,443 | 89.6 | 179.96 | Baker Hughes INTEQ | MWD | 4,811 | 1,061 | -1,010.59 | -514.09 | 1.28 |
| 5,535 | 88.6 | 179.56 | Baker Hughes INTEQ | MWD | 4,813 | 1,153 | -1,102.58 | -513.71 | 1.19 |
| 5,626 | 89.4 | 179.53 | Baker Hughes INTEQ | MWD | 4,814 | 1,243 | -1,193.56 | -512.98 | 0.88 |
| 5,718 | 88.4 | 179.33 | Baker Hughes INTEQ | MWD | 4,816 | 1,334 | -1,285.53 | -512.07 | 1.06 |
| 5,810 | 90.5 | 179.62 | Baker Hughes INTEQ | MWD | 4,817 | 1,425 | -1,377.52 | -511.23 | 2.23 |
| 5,901 | 91.2 | 179.21 | Baker Hughes INTEQ | MWD | 4,816 | 1,516 | -1,468.51 | -510.3 | 0.9 |
| 5,993 | 90.8 | 179.16 | Baker Hughes INTEQ | MWD | 4,814 | 1,607 | -1,560.48 | -508.99 | 0.37 |
| 6,085 | 91.2 | 179.15 | Baker Hughes INTEQ | MWD | 4,812 | 1,698 | -1,652.46 | -507.63 | 0.4 |
| 6,177 | 91.5 | 178.51 | Baker Hughes INTEQ | MWD | 4,810 | 1,790 | -1,744.41 | -505.75 | 0.79 |
| 6,272 | 90.6 | 178.38 | Baker Hughes INTEQ | MWD | 4,808 | 1,884 | -1,839.36 | -503.18 | 0.96 |
| 6,366 | 91.2 | 180.91 | Baker Hughes INTEQ | MWD | 4,807 | 1,977 | -1,933.34 | -502.59 | 2.76 |
| 6,463 | 90.2 | 181.35 | Baker Hughes INTEQ | MWD | 4,806 | 2,074 | -2,030.31 | -504.51 | 1.19 |
| 6,559 | 88.4 | 180.95 | Baker Hughes INTEQ | MWD | 4,807 | 2,169 | -2,126.28 | -506.43 | 1.91 |
| 6,654 | 89.3 | 180.29 | Baker Hughes INTEQ | MWD | 4,809 | 2,264 | -2,221.25 | -507.46 | 1.23 |
| 6,749 | 89 | 180 | Baker Hughes INTEQ | MWD | 4,810 | 2,358 | -2,316.24 | -507.7 | 0.46 |
| 6,845 | 88.8 | 180.81 | Baker Hughes INTEQ | MWD | 4,812 | 2,454 | -2,412.22 | -508.38 | 0.87 |
| 6,941 | 89 | 180.44 | Baker Hughes INTEQ | MWD | 4,814 | 2,549 | -2,508.20 | -509.43 | 0.44 |
| 7,037 | 88.7 | 183.17 | Baker Hughes INTEQ | MWD | 4,816 | 2,645 | -2,604.12 | -512.45 | 2.87 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 7,133 | 89 | 179.11 | Baker Hughes INTEQ | MWD | 4,818 | 2,740 | -2,700.06 | -514.36 | 4.24 |
| 7,229 | 89 | 180.45 | Baker Hughes INTEQ | MWD | 4,819 | 2,836 | -2,796.04 | -513.99 | 1.4 |
| 7,324 | 88.7 | 180.86 | Baker Hughes INTEQ | MWD | 4,821 | 2,930 | -2,891.02 | -515.08 | 0.52 |
| 7,419 | 88.9 | 181.94 | Baker Hughes INTEQ | MWD | 4,823 | 3,025 | -2,985.97 | -517.4 | 1.15 |
| 7,514 | 87.8 | 179.19 | Baker Hughes INTEQ | MWD | 4,826 | 3,119 | -3,080.91 | -518.33 | 3.1 |
| 7,610 | 89.6 | 179.17 | Baker Hughes INTEQ | MWD | 4,828 | 3,215 | -3,176.88 | -516.96 | 1.86 |
| 7,706 | 90 | 178.25 | Baker Hughes INTEQ | MWD | 4,828 | 3,310 | -3,272.85 | -514.8 | 1.04 |
| 7,801 | 90.2 | 177.86 | Baker Hughes INTEQ | MWD | 4,828 | 3,404 | -3,367.80 | -511.57 | 0.47 |
| 7,897 | 90.7 | 177.98 | Baker Hughes INTEQ | MWD | 4,827 | 3,499 | -3,463.73 | -508.09 | 0.5 |
| 7,992 | 91 | 177.67 | Baker Hughes INTEQ | MWD | 4,826 | 3,593 | -3,558.65 | -504.49 | 0.48 |
| 8,088 | 91.1 | 177.29 | Baker Hughes INTEQ | MWD | 4,824 | 3,687 | -3,654.54 | -500.26 | 0.41 |
| 8,183 | 89.8 | 178.8 | Baker Hughes INTEQ | MWD | 4,824 | 3,781 | -3,749.48 | -497.02 | 2.14 |
| 8,279 | 89.7 | 178.19 | Baker Hughes INTEQ | MWD | 4,824 | 3,877 | -3,845.44 | -494.5 | 0.64 |
| 8,375 | 90.4 | 177.99 | Baker Hughes INTEQ | MWD | 4,824 | 3,972 | -3,941.39 | -491.3 | 0.75 |
| 8,470 | 91 | 177.14 | Baker Hughes INTEQ | MWD | 4,823 | 4,065 | -4,036.29 | -487.27 | 1.14 |
| 8,565 | 90.8 | 177.78 | Baker Hughes INTEQ | MWD | 4,821 | 4,159 | -4,131.19 | -483.06 | 0.7 |
| 8,661 | 89 | 178.75 | Baker Hughes INTEQ | MWD | 4,822 | 4,254 | -4,227.14 | -480.15 | 2.15 |
| 8,729 | 89 | 178.75 | Baker Hughes INTEQ | MWD | 4,823 | 4,322 | -4,295.11 | -478.67 | 0 |

# Mid-Continent Conductor, LLC

# Invoice

| Date | Invoice # |
|---|---|
| 5/17/2012 | 1328 |

P.O. Box 1570
Woodward, OK 73802

Phone: (580)254-5400
Fax: (580)254-3242

| Bill To |
|---|
| SandRidge Energy, Inc.<br>Attn: Purchasing Mgr.<br>123 Robert S. Kerr Avenue<br>Oklahoma City, OK. 73102 |

| Ordered By | Terms | Date of Service | Lease Name/Legal Desc. | Drilling Rig |
|---|---|---|---|---|
| Felix | Net 45 | 5/17/2012 | JoAnn 1-1H, Barber Cnty, KS | Unit 310 |

| Item | Quantity | Description |
|---|---|---|
| Conductor Hole | 105 | Drilled 105 ft. conductor hole |
| 20" Pipe | 105 | Furnished 105 ft. of 20 inch conductor pipe |
| Mouse Hole | 80 | Drilled 80 ft. mouse hole |
| 16" Pipe | 80 | Furnished 80 ft. of 16 inch mouse hole pipe |
| Cellar Hole | 1 | Drilled 6' X 6' cellar hole |
| 6' X 6' Tinhorn | 1 | Furnished and set 6' X 6' tinhorn |
| Mud and Water | 1 | Furnished mud and water |
| Transport Truck - Conductor | 1 | Transport mud and water to location |
| Grout & Trucking | 10 | Furnished grout and trucking to location |
| Grout Pump | 1 | Furnished grout pump |
| Welder & Materials | 1 | Furnished welder and materials |
| Dirt Removal | 1 | Furnished labor and equipment for dirt removal |
| Cover Plate | 1 | Furnished cover plates |
| Permits | 1 | Permits |

| | |
|---|---|
| **Subtotal** | $24,420.00 |
| **Sales Tax (0.0%)** | $0.00 |
| **Total** | $24,420.00 |

HALLIBURTON

# *Cementing Job Summary*

*The Road to Excellence Starts with Safety*

| | | | |
|---|---|---|---|
| **Sold To #:** 305021 | **Ship To #:** 2928637 | **Quote #:** | **Sales Order #:** 9533248 |
| **Customer:** SANDRIDGE ENERGY INC EBUSINESS | | **Customer Rep:** Edwards, Tripp | |
| **Well Name:** JoAnn | **Well #:** 1-1H | | **API/UWI #:** |
| **Field:** | **City (SAP):** KIOWA | **County/Parish:** Barber | **State:** Kansas |
| **Legal Description:** Section 01 Township 35W Range 10W | | | |
| **Contractor:** Unit Drilling * | **Rig/Platform Name/Num:** 310 | | |
| **Job Purpose:** Cement Surface Casing | | | |
| **Well Type:** Development Well | **Job Type:** Cement Surface Casing | | |
| **Sales Person:** NGUYEN, VINH | **Srvc Supervisor:** BURGESS, JONATHAN | **MBU ID Emp #:** 492943 | |

## Job Personnel

| HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # |
|---|---|---|---|---|---|---|---|---|
| BURGESS, JONATHAN Jesse | 5.5 | 492943 | LONDAGIN, DEVIN Dwain | 5.5 | 500561 | MILLER, ELWOOD W | 5.5 | 459317 |
| TOPE, GEOFFREY Daniel | 5.5 | 489420 | | | | | | |

## 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 |
|---|---|---|---|---|---|---|---|---|
| 5/22/12 | 5.5 | 0.75 | | | | | | |
| TOTAL | | | *Total is the sum of each column separately* | | | | | |

## Job

| | | | |
|---|---|---|---|
| **Formation Name** | | | |
| **Formation Depth (MD)** | **Top** | | **Bottom** |
| **Form Type** | | **BHST** | |
| **Job depth MD** | 920. ft | **Job Depth TVD** | 920. ft |
| **Water Depth** | | **Wk Ht Above Floor** | 6. ft |
| **Perforation Depth (MD)** | **From** | | **To** |

## Job Times

| | Date | Time | Time Zone |
|---|---|---|---|
| **Called Out** | 22 - May - 2012 | 00:30 | CST |
| **On Location** | 22 - May - 2012 | 06:30 | CST |
| **Job Started** | 22 - May - 2012 | 10:00 | CST |
| **Job Completed** | 22 - May - 2012 | 10:45 | CST |
| **Departed Loc** | 22 - May - 2012 | 12:00 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Surface Open Hole | | | | 12.25 | | | | . | 950. | | |
| Surface Casing | Unknown | | 9.625 | 8.921 | 36. | | J-55 | . | 950. | | |

## Tools and Accessories

| Type | Size | Qty | Make | Depth | Type | Size | Qty | Make | Depth | Type | Size | Qty | Make |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Guide Shoe | | | | | Packer | | | | | Top Plug | 9.625 | 1 | HES |
| Float Shoe | | | | | Bridge Plug | | | | | Bottom Plug | | | |
| Float Collar | | | | | Retainer | | | | | SSR plug set | | | |
| Insert Float | | | | | | | | | | Plug Container | 9.625 | 1 | HES |
| 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 | Water Spacer | | 10.00 | bbl | . | .0 | .0 | 3.0 | |
| 2 | Halliburton Light Standard | EXTENDACEM (TM) SYSTEM (452981) | 250.0 | sacks | 12.4 | 2.12 | 11.68 | 6.0 | 11.68 |
| 3 % | | CALCIUM CHLORIDE, PELLET, 50 LB (101509387) | | | | | | | |
| 0.25 lbm | | POLY-E-FLAKE (101216940) | | | | | | | |
| 11.676 Gal | | FRESH WATER | | | | | | | |
| 3 | Standard | SWIFTCEM (TM) SYSTEM (452990) | 190.0 | sacks | 15.6 | 1.2 | 5.32 | 6.0 | 5.32 |
| 2 % | | CALCIUM CHLORIDE, PELLET, 50 LB (101509387) | | | | | | | |
| 0.125 lbm | | POLY-E-FLAKE (101216940) | | | | | | | |
| 5.319 Gal | | FRESH WATER | | | | | | | |
| 4 | Displacement | | 68.00 | bbl | 8.33 | .0 | .0 | 6.0 | |
| 5 | Mud | | 0.0 | bbl | . | .0 | .0 | .0 | |
| 6 | Standard Top Out Cement **With CC on the side** | CMT - STANDARD CEMENT (100003684) | 0.0 | sacks | 15.6 | 1.2 | 5.28 | | 5.28 |
| 94 lbm | | CMT - STANDARD - CLASS A REG OR TYPE I, BULK (100003684) | | | | | | | |
| 2 % | | CALCIUM CHLORIDE, PELLET, 50 LB (101509387) | | | | | | | |
| 5.278 Gal | | FRESH WATER | | | | | | | |

| Calculated Values | | Pressures | | Volumes | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Displacement | 68 | Shut In: Instant | | Lost Returns | 0 | Cement Slurry | 135 | Pad | |
| Top Of Cement | 0 | 5 Min | | Cement Returns | 30 | Actual Displacement | 68 | Treatment | |
| Frac Gradient | | 15 Min | | Spacers | 10 | Load and Breakdown | | Total Job | 213 |

| Rates | | | | | | | |
|---|---|---|---|---|---|---|---|
| Circulating | 3 | Mixing | 6 | Displacement | 6 | Avg. Job | 5 |

| Cement Left In Pipe | Amount | 46 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 #:** 2928637 | **Quote #:** | **Sales Order #:** 9553601 |
| **Customer:** SANDRIDGE ENERGY INC EBUSINESS | | **Customer Rep:** Edwards, Tripp | |
| **Well Name:** JoAnn | **Well #:** 1-1H | | **API/UWI #:** |
| **Field:** | **City (SAP):** KIOWA | **County/Parish:** Barber | **State:** Kansas |
| **Legal Description:** Section 01 Township 35W Range 10W | | | |
| **Contractor:** Unit Drilling * | **Rig/Platform Name/Num:** Unit 310 | | |
| **Job Purpose:** Cement Intermediate Casing | | | |
| **Well Type:** Development Well | **Job Type:** Cement Intermediate Casing | | |
| **Sales Person:** NGUYEN, VINH | **Srvc Supervisor:** WALTON, SCOTTY | **MBU ID Emp #:** 478229 | |

## Job Personnel

| HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # |
|---|---|---|---|---|---|---|---|---|
| DAVIS, CHANCE Colburn | 16 | 519480 | TURNER, DANIEL J | 16 | 461812 | WALTON, SCOTTY Dwayne | 16 | 478229 |

## 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 |
|---|---|---|---|---|---|---|---|---|
| 5-30-12 | 16 | 2 | | | | | | |
| TOTAL | | | *Total is the sum of each column separately* | | | | | |

## Job

| | | | |
|---|---|---|---|
| **Formation Name** | | | |
| **Formation Depth (MD)** | **Top** | | **Bottom** |
| **Form Type** | | **BHST** | |
| **Job depth MD** | 5734. ft | **Job Depth TVD** | |
| **Water Depth** | | **Wk Ht Above Floor** | |
| **Perforation Depth (MD)** | **From** | | **To** |

## Job Times

| | Date | Time | Time Zone |
|---|---|---|---|
| **Called Out** | 30 - May - 2012 | 02:00 | CST |
| **On Location** | 30 - May - 2012 | 05:30 | CST |
| **Job Started** | 30 - May - 2012 | 19:25 | CST |
| **Job Completed** | 30 - May - 2012 | 20:17 | CST |
| **Departed Loc** | 30 - May - 2012 | 21:30 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Intermediate Open Hole | | | | 8.75 | | | | 950. | 5221. | 800. | 5310. |
| Intermediate Casing | Unknown | | 7. | 6.184 | 29. | LTC | N-80 | . | 4220. | . | 4420. |
| Intermediate Casing 2 | Unknown | | 7. | 6.184 | 29. | LTC | P-110 | 4220. | 5221. | 4420. | 5310. |
| Surface Casing | Unknown | | 9.625 | 8.921 | 36. | | J-55 | . | 950. | | |

## 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 lbm/gal | Yield ft3/sk | Mix Fluid Gal/sk | Rate bbl/min | Total Mix Fluid Gal/sk |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Water Spacer | | 10.00 | bbl | 8.33 | .0 | .0 | .0 | |
| 2 | 50/50 Poz Standard | ECONOCEM (TM) SYSTEM (452992) | 100.0 | 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 | Premium | HALCEM (TM) SYSTEM (452986) | 210.0 | 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 | Water Spacer | | 200.00 | bbl | . | .0 | .0 | .0 | |

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

**Rates**

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

| Cement Left In Pipe | Amount | 40 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 #:** 2928637 | **Quote #:** | **Sales Order #:** 9565401 |
| **Customer:** SANDRIDGE ENERGY INC EBUSINESS | | **Customer Rep:** Edwards, Tripp | |
| **Well Name:** JoAnn | **Well #:** 1-1H | | **API/UWI #:** |
| **Field:** | **City (SAP):** KIOWA | **County/Parish:** Barber | **State:** Kansas |
| **Legal Description:** Section 01 Township 35W Range 10W | | | |
| **Contractor:** Unit Drilling * | **Rig/Platform Name/Num:** Unit 310 | | |
| **Job Purpose:** Cement Production Liner | | | |
| **Well Type:** Development Well | **Job Type:** Cement Production Liner | | |
| **Sales Person:** NGUYEN, VINH | **Srvc Supervisor:** DURAN, EDUR | **MBU ID Emp #:** 445769 | |

## Job Personnel

| HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # |
|---|---|---|---|---|---|---|---|---|
| DURAN, EDUR | 0.0 | 445769 | FINDLEY, GARED A | 0.0 | 520137 | LOPEZ, CRISTIAN Adrian | 0.0 | 488085 |

## Equipment

| HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way |
|---|---|---|---|---|---|---|---|
| 10804565 | 60 mile | 10826273 | 60 mile | 10866495 | 60 mile | 10995007 | 60 mile |
| 11256865 | 60 mile | | | | | | |

## Job Hours

| Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| TOTAL | | | *Total is the sum of each column separately* | | | | | |

## Job

| | | | | | |
|---|---|---|---|---|---|
| **Formation Name** | | | | | |
| **Formation Depth (MD)** | **Top** | | **Bottom** | | |
| **Form Type** | | **BHST** | | | |
| **Job depth MD** | 8657. ft | **Job Depth TVD** | 8657. ft | | |
| **Water Depth** | | **Wk Ht Above Floor** | 2. ft | | |
| **Perforation Depth (MD)** | **From** | | **To** | | |

## Job Times

| | Date | Time | Time Zone |
|---|---|---|---|
| **Called Out** | 03 - Jun - 2012 | 17:15 | CST |
| **On Location** | 03 - Jun - 2012 | 23:50 | CST |
| **Job Started** | 04 - Jun - 2012 | 01:51 | CST |
| **Job Completed** | 04 - Jun - 2012 | 02:50 | CST |
| **Departed Loc** | 04 - Jun - 2012 | 05:00 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Production Liner Open Hole | | | | 6.125 | | | | 5288. | 9223. | | |
| Intermediate Casing | Unknown | | 7. | 6.184 | 29. | LTC | N-80 | . | 4220. | . | 4420. |
| Production Liner | Unknown | | 4.5 | 4. | 11.6 | | P-110 | 4890. | 9223. | | |
| Drill Pipe | Unknown | | 4. | 3.34 | 14. | Unknown | | . | 4935. | | |

## 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

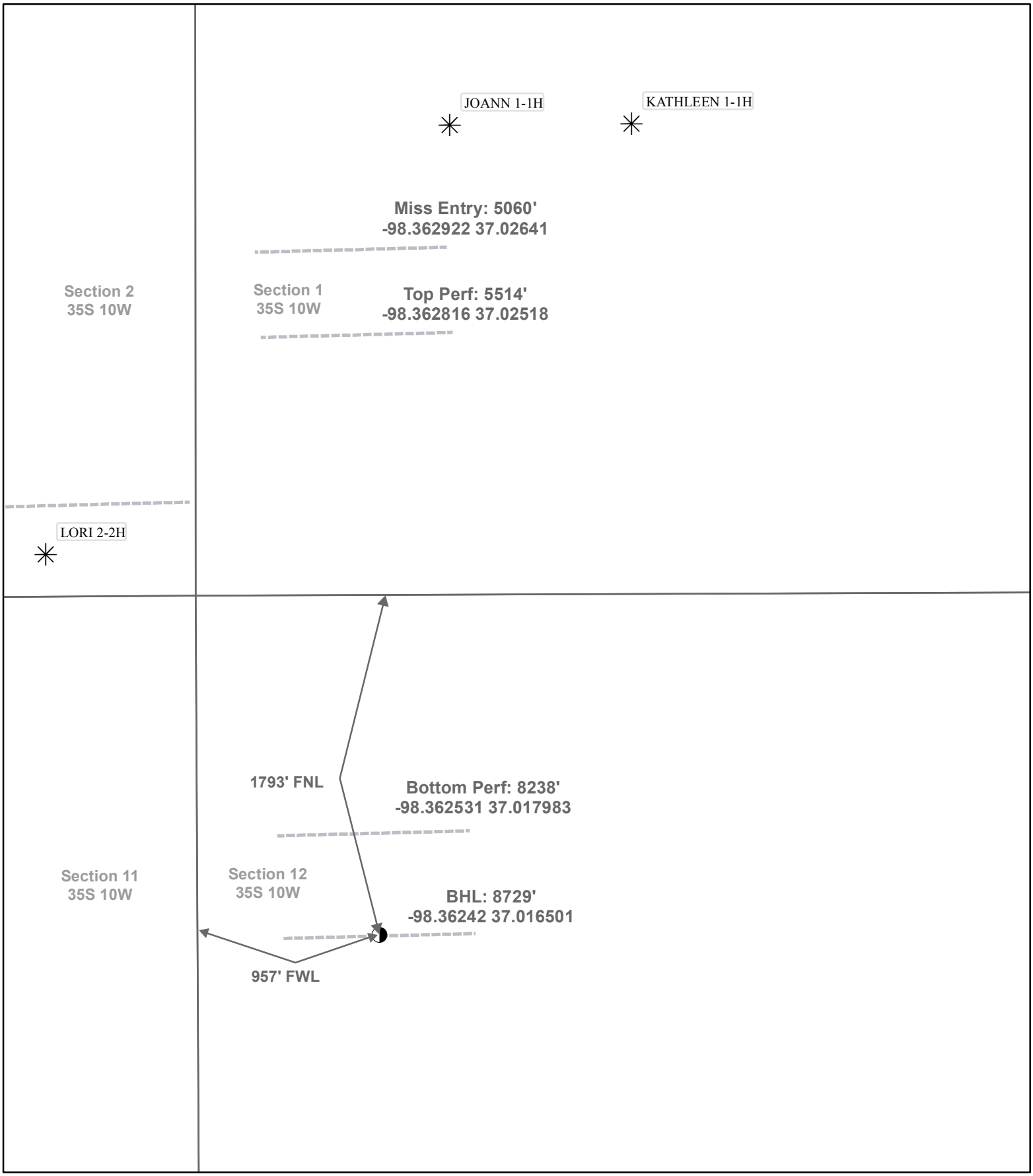
# *Cementing Job Summary*

| Fluid # | Stage Type | Fluid Name | Qty | Qty uom | Mixing Density lbm/gal | Yield ft3/sk | Mix Fluid Gal/sk | Rate bbl/min | Total Mix Fluid Gal/sk |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Gel Spacer | | 30.00 | bbl | 8.5 | .0 | .0 | .0 | |
| 2 | 50/50 POZ STANDARD ( w/ 2% extra gel) | ECONOCEM (TM) SYSTEM (452992) | 225.0 | 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 | | | | | | | |

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

| Rates | | | | | | | |
|---|---|---|---|---|---|---|---|
| Circulating | | Mixing | | Displacement | | Avg. Job | |
| Cement Left In Pipe | Amount | 80 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 |
|---|---|




SANDRIDGE
THE POWER OF US

Actual BH Location

SandRidge Wells

Perf

Sections

**Actual Bottom-Hole Location of JoAnn 1-1H**
**Barber County, Kansas**
**T&R: 35S 10W**
**Section: 12, 957' FWL & 1793' FNL**
**Long/Lat: -98.36242 37.016501**

1 in = 667 ft

0 500 1,000 2,000 Feet

N

| | |
|---|---|
| Draftsman: Aaron Birk | Draft Date: 9/12/2012 |
| Drawing Name/Number: Addendum_JoAnn_1-1H.mxd | |
| Coordinate System: NAD 1927 State Plane Kansas South FIPS: 1502 | |