Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1245112

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 # 34445
Name: Keen Energy Services LLC
Wellsite Geologist: Kathy Gentry
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 #:

| 11/28/2014 | 1/12/2015 | 2/14/2015 |
|---|---|---|
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |

API No. 15 - 15-033-21772-02-00
Spot Description:
NW SW SW SW Sec. 1 Twp. 33 S. R. 18 ☐ East ☑ West
350 Feet from ☐ North / ☑ South Line of Section
180 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: Comanche
Lease Name: Wanda 3318 Well #: 1-2H 2L
Field Name:
Producing Formation: Mississippian
Elevation: Ground: 1927 Kelly Bushing: 1950
Total Vertical Depth: 5151 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 797 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: 12000 ppm Fluid volume: 370 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: SandRidge Expl and Prod LLC
Lease Name: Boyce 2816 3-20H License #: 99999
Quarter NE Sec. 29 Twp. 28 S. R. 16 ☐ East ☑ West
County: Woods, OK Permit #: 151 24322

**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: 03/30/2015
☐ **Confidential Release Date:**
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
**ALT** ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 03/30/2015

1245112

Operator Name: SandRidge Exploration and Production LLC Lease Name: Wanda 3318 Well #: 1-2H 2L

Sec. 1 Twp. 33 S. R. 18 ☐ East ☑ West County: Comanche

**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 Induction Gamma Ray Memory Log
Dual Spaced Neutron Spectral Density Memory Log

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

| Name | Top | Datum |
|---|---|---|
| Base Anhydrite | 2455 | |
| Base Heebner Shale Marker | 4218 | |
| Top Lansing Limestone Group | 4413 | |
| Top Chrokee Shale Marker | 5160 | |
| Top Mississippi/Morrow Unconformity | 5300 | |
| Top Mississippi 'Solid' Limestones (top Meramec Ls) | 5312 | |

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: |
|---|---|---|---|---|
| | 2.87 | 5708 | | ☐ 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 | Wanda 3318 1-2H 2L |
| Doc ID | 1245112 |

Perforations

| Shots Per Foot | Perforation Record | Material Record | Depth |
|---|---|---|---|
| 1 | 10406-10408 | 1000 gals 15% HCL Acid, 2270 bbls Fresh Slickwater, 2445 bbls running TLTR | |
| 1 | 10250-10252 | 1000 gals 15% HCL Acid, 2939 bbls Fresh Slickwater, 5384 bbls running TLTR | |
| 1 | 10105-10107 | 1000 gals 15% HCL Acid, 2301 bbls Fresh Slickwater, 7685 bbls running TLTR | |
| 1 | 9967-9969 | 1000 gals 15% HCL Acid, 2661 bbls Fresh Slickwater, 10346 bbls running TLTR | |
| 1 | 9823-9825 | 1000 gals 15% HCL Acid, 2210 bbls Fresh Slickwater, 12556 bbls running TLTR | |
| 1 | 9661-9663 | 1000 gals 15% HCL Acid, 2206 bbls Fresh Slickwater, 14762 bbls running TLTR | |
| 1 | 9543-9545 | 1000 gals 15% HCL Acid, 2317 bbls Fresh Slickwater, 17079 bbls running TLTR | |
| 1 | 9425-9427 | 1000 gals 15% HCL Acid, 2410 bbls Fresh Slickwater, 19489 bbls running TLTR | |

| | |
|---|---|
| Form | ACO1 - Well Completion |
| Operator | SandRidge Exploration and Production LLC |
| Well Name | Wanda 3318 1-2H 2L |
| Doc ID | 1245112 |

Perforations

| Shots Per Foot | Perforation Record | Material Record | Depth |
|---|---|---|---|
| 1 | 9287-9289 | 1000 gals 15% HCL Acid, 2377 bbls Fresh Slickwater, 21866 bbls running TLTR | |
| 1 | 9146-9148 | 1000 gals 15% HCL Acid, 2422 bbls Fresh Slickwater, 24288 bbls running TLTR | |
| 1 | 9001-9003 | 1000 gals 15% HCL Acid, 2522 bbls Fresh Slickwater, 26810 bbls running TLTR | |
| 1 | 8889-8891 | 1000 gals 15% HCL Acid, 2522 bbls Fresh Slickwater, 29140 bbls running TLTR | |
| 1 | 8780-8782 | 1000 gals 15% HCL Acid, 2684 bbls Fresh Slickwater, 31848 bbls running TLTR | |
| 1 | 8614-8616 | 1000 gals 15% HCL Acid, 2280 bbls Fresh Slickwater, 34152 bbls running TLTR | |
| 1 | 8447-8449 | 1000 gals 15% HCL Acid, 2684 bbls Fresh Slickwater, 36860 bbls running TLTR | |
| 1 | 8282-8284 | 1000 gals 15% HCL Acid, 2684 bbls Fresh Slickwater, 39568 bbls running TLTR | |

| | |
|---|---|
| Form | ACO1 - Well Completion |
| Operator | SandRidge Exploration and Production LLC |
| Well Name | Wanda 3318 1-2H 2L |
| Doc ID | 1245112 |

Perforations

| Shots Per Foot | Perforation Record | Material Record | Depth |
|---|---|---|---|
| 1 | 8155-8157 | 1000 gals 15% HCL Acid, 2394 bbls Fresh Slickwater, 41962 bbls running TLTR | |
| 1 | 8029-8031 | 1000 gals 15% HCL Acid, 2322 bbls Fresh Slickwater, 44284 bbls running TLTR | |
| 1 | 7850-7852 | 1000 gals 15% HCL Acid, 2522 bbls Fresh Slickwater, 46806 bbls running TLTR | |
| 1 | 7670-7672 | 1000 gals 15% HCL Acid, 2531 bbls Fresh Slickwater, 49337 bbls running TLTR | |
| 1 | 7495-7497 | 1000 gals 15% HCL Acid, 2360 bbls Fresh Slickwater, 51697 bbls running TLTR | |
| 1 | 7376-7378 | 1000 gals 15% HCL Acid, 1269 bbls Fresh Slickwater, 52966 bbls running TLTR | |
| 1 | 7257-7259 | 1000 gals 15% HCL Acid, 2283 bbls Fresh Slickwater, 55249 bbls running TLTR | |
| 1 | 7090-7092 | 1000 gals 15% HCL Acid, 2501 bbls Fresh Slickwater, 57750 bbls running TLTR | |

| | |
|---|---|
| Form | ACO1 - Well Completion |
| Operator | SandRidge Exploration and Production LLC |
| Well Name | Wanda 3318 1-2H 2L |
| Doc ID | 1245112 |

Perforations

| Shots Per Foot | Perforation Record | Material Record | Depth |
|---|---|---|---|
| 1 | 6914-6916 | 1000 gals 15% HCL Acid, 2564 bbls Fresh Slickwater, 60314 bbls running TLTR | |

| | |
|---|---|
| Form | ACO1 - Well Completion |
| Operator | SandRidge Exploration and Production LLC |
| Well Name | Wanda 3318 1-2H 2L |
| Doc ID | 1245112 |

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 | 90 | Edge Services 10 Sack Grout | 15 | none |
| Surface | 12.25 | 9.63 | 36 | 797 | Class C | 550 | 2% Calcium Chloride, 1/4 pps Cello-Flake |
| Intermediate | 8.75 | 7 | 26 | 5740 | Class A | 250 | 4% Bentonite, .3% C-20, .1% C-37, .1% C-51, .2% FL-17, .2% X-Air |
| Production | 6.125 | 4.5 | 11.6 | 10424 | N/A | 0 | N/A |

EDGE SERVICES
580-254-9210
Woodward, OK

# INVOICE

| DATE | INVOICE # |
|---|---|
| 11/30/2014 | 5311 |

| BILL TO |
|---|
| SANDRIDGE ENERGY, INC.<br>ATTN: PURCHASING MANAGER<br>123 ROBERT S. KERR AVENUE<br>OKLAHOMA CITY, OK 73102 |

| REMIT TO |
|---|
| EDGE SERVICES, INC.<br>PO BOX 609<br>WOODWARD, OK 73802 |

| COUNTY | Start Date | End Date | Work Order | Rig Number | LEASE NAME | Terms |
|---|---|---|---|---|---|---|
| COMANCHE, ... | 11/29/2014 | | 3872 | LATSHAW 27 | WANDA 3318 1-2H | Due on rec... |

| Description |
|---|
| DRILLED 150' OF 30" CONDUCTOR HOLE<br>DRILLED 6' OF 76" HOLE<br>FURNISHED AND SET 6' X 6' TINHORN CELLAR<br>FURNISHED 150' OF 20" CONDUCTOR PIPE<br>FURNISHED MUD, WATER, AND TRUCKING<br>FURNISHED WELDER AND MATERIALS<br>FURNISHED15 YARDS OF 10 SACK GROUT FOR CONDUCTOR HOLE<br>FURNISHED 4 YARDS OF 10 SACK GROUT FOR CONDUCTOR HOLE<br>FURNISHED GROUT PUMP<br>DRILL MOUSE HOLE<br>FURNISHED 85' OF 16" CONDUCTOR PIPE<br><br>TOTAL BID $26,000.00 |

AFE Number: DC 14323
Well Name: Wanda 3318 1-2H
Code: 230.010
Amount: $26,374.97
Co. Man: John Fortune
Co. Man Sig.:
Notes:

| | |
|---|---|
| Sales Tax (6.15%) | $374.97 |
| **TOTAL** | $26,374.97 |

# JOB SUMMARY

| PROJECT NUMBER | TICKET DATE |
|---|---|
| SOK 4600 | 12/11/14 |

| COUNTY | State | COMPANY | CUSTOMER REP |
|---|---|---|---|
| Comanche | Kansas | dridge Exploration & Produc | 281-617-4391 |

| LEASE NAME | Well No. | JOB TYPE | EMPLOYEE NAME |
|---|---|---|---|
| Wanda 3318 | 1-2H | Surface | Bryan Douglas |

| EMP NAME | | | | | | | |
|---|---|---|---|---|---|---|---|
| Bryan Douglas | | 0 | | | | | |
| Dustin Odom | | | | | | | |
| Evan Ratcliff | | | | | | | |
| Blake Hayworth | | | | | | | |

Form. Name _____ Type: _____

Packer Type _____ Set At 0

Bottom Hole Temp. 80 Pressure _____

Retainer Depth _____ Total Depth 803

| | Called Out | On Location | Job Started | Job Completed |
|---|---|---|---|---|
| Date | 12/10/2014 | 12/10/2014 | 12/10/2014 | 12/10/2014 |
| Time | 1400 | 1700 | 0200 | 0500 |

## Tools and Accessories

| Type and Size | Qty | Make |
|---|---|---|
| Auto Fill Tube | 0 | IR |
| Insert Float Val | 0 | IR |
| Centralizers | 0 | IR |
| Top Plug | 0 | IR |
| HEAD | 0 | IR |
| Limit clamp | 0 | IR |
| Weld-A | 0 | IR |
| Texas Pattern Guide Shoe | 0 | IR |
| Cement Basket | 0 | IR |

## Well Data

| | New/Used | Weight | Size Grade | From | To | Max. Allow |
|---|---|---|---|---|---|---|
| Casing | | 36# | 9 5/8" | Surface | 803 | 1,500 |
| Liner | | | | | | |
| Liner | | | | | | |
| Tubing | | | 0 | | | |
| Drill Pipe | | | | | | |
| Open Hole | | | 12¼" | Surface | 796 | Shots/Ft. |
| Perforations | | | | | | |
| Perforations | | | | | | |
| Perforations | | | | | | |

## Materials

| | | | | |
|---|---|---|---|---|
| Mud Type | WBM | Density 9 | | Lb/Gal |
| Disp. Fluid | Fresh Water | Density 8.33 | | Lb/Gal |
| Spacer type | resh Wate | BBL. 10 | | 8.33 |
| Spacer type | | BBL. | | |
| Acid Type | | Gal. | % | |
| Acid Type | | Gal. | % | |
| Surfactant | | Gal. | In | |
| NE Agent | | Gal. | In | |
| Fluid Loss | | Gal/Lb | In | |
| Gelling Agent | | Gal/Lb | In | |
| Fric. Red. | | Gal/Lb | In | |
| MISC. | | Gal/Lb | In | |

Perfpac Balls _____ Qty. _____

Other _____

Other _____

Other _____

Other _____

Other _____

## Hours On Location

| Date | Hours |
|---|---|
| 12/10 | 7.0 |
| 12/11 | 5.0 |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| Total | 12.0 |

## Operating Hours

| Date | Hours |
|---|---|
| 12/11 | 3.0 |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| Total | 3.0 |

## Description of Job

Surface

FLOATS HELD

1/2 BBL BACK

58 BBLS CEMENT BACK

## Pressures

MAX 1,500 PSI AVG 100

## Average Rates in BPM

MAX 6 BPM AVG 4

## Cement Left in Pipe

Feet 43 Reason SHOE JOINT

## Cement Data

| Stage | Sacks | Cement | Additives | W/Rq. | Yield | Lbs/Gal |
|---|---|---|---|---|---|---|
| 1 | 550 | Premium Plus (Class C) | 2% Calcium Chloride - ¼pps Cello-Flake | 6.32 | 1.32 | 14.80 |
| 2 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| 3 | *100 | Premium Plus (Class C) | *2% Calcium Chloride on side to use if necessary | *6.32 | *1.32 | *14.8 |
| | | | | | | |
| | | | | | | |

## Summary

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Preflush | 10 | Type: | Fresh Water | Preflush: | BBl | 10.00 | Type: Fresh Water |
| Breakdown | | MAXIMUM | 1,500 PSI | Load & Bkdn: | Gal - BBl | N/A | Pad:Bbl -Gal N/A |
| | | Lost Returns-N | NO/FULL | Excess /Return | BBl | 58 | Calc.Disp Bbl 59 |
| | | Actual TOC | SURFACE | Calc. TOC: | | SURFACE | Actual Disp. 58.71 |
| Average | | Bump Plug PSI: | 900 | Final Circ. | PSI: | 400 | Disp:Bbl 58.71 |
| ISIP | 5 Min. | 10 Min | 15 Min | Cement Slurry: | BBl | 129.3 | |
| | | | | Total Volume | BBl | 198.01 | |

CUSTOMER REPRESENTATIVE _____ SIGNATURE

# JOB SUMMARY

| PROJECT NUMBER | TICKET DATE |
|---|---|
| SOK 4638 | 12/18/14 |

| COUNTY | State | COMPANY | CUSTOMER REP |
|---|---|---|---|
| Comanche | Kansas | Sandridge Exploration & Production | Vince Brown |

| LEASE NAME | Well No. | JOB TYPE | EMPLOYEE NAME |
|---|---|---|---|
| Wanda 3318 | 1-2H | Intermediate | John Hall |

EMP NAME

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| John Hall | | Wallace Berry | | | | | |
| Roy Morris | | | | | | | |
| Joe Colonnese | | | | | | | |
| Kevin Canada | | | | | | | |

Form. Name _____ Type: _____

Packer Type _____ Set At 0

Bottom Hole Temp. 155 Pressure _____

Retainer Depth _____ Total Depth 5,720'

| | Called Out | On Location | Job Started | Job Completed |
|---|---|---|---|---|
| Date | 12/18/2014 | 12/18/2014 | 12/18/2014 | 12/18/2014 |
| Time | 400am | 830am | 215pm | 430 |

## Tools and Accessories

| Type and Size | Qty | Make |
|---|---|---|
| Auto Fill Tube | 0 | IR |
| Insert Float Va | 0 | IR |
| Centralizers | 0 | IR |
| Top Plug | 0 | IR |
| HEAD | 0 | IR |
| Limit clamp | 0 | IR |
| Weld-A | 0 | IR |
| Texas Pattern Guide Shoe | 0 | IR |
| Cement Basket | 0 | IR |

## Well Data

| | New/Used | Weight | Size | Grade | From | To | Max. Allow |
|---|---|---|---|---|---|---|---|
| Casing | | 26# | 7" | | Surface | | 5,000 |
| Liner | | | | | | | |
| Liner | | | | | | | |
| Tubing | | | 0 | | | | |
| Drill Pipe | | | | | | | |
| Open Hole | | | 8¾" | | Surface | 5,720' | Shots/Ft. |
| Perforations | | | | | | | |
| Perforations | | | | | | | |
| Perforations | | | | | | | |

## Materials

| | | | | |
|---|---|---|---|---|
| Mud Type | WBM | Density 9 | Lb/Gal | |
| Disp. Fluid | Fresh Water | Density 8.33 | Lb/Gal | |
| Spacer type | Fresh Wate | BBL. 20 | | 8.33 |
| Spacer type | Caustic | BBL. 10 | | 8.40 |
| Acid Type | | Gal. | % | |
| Acid Type | | Gal. | % | |
| Surfactant | | Gal. | In | |
| NE Agent | | Gal. | In | |
| Fluid Loss | | Gal/Lb | In | |
| Gelling Agent | | Gal/Lb | In | |
| Fric. Red. | | Gal/Lb | In | |
| MISC. | | Gal/Lb | In | |

Perfpac Balls _____ Qty. _____

Other _____

Other _____

Other _____

Other _____

Other _____

## Hours On Location

| Date | Hours |
|---|---|
| 12/18 | 8.0 |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| Total | 8.0 |

## Operating Hours

| Date | Hours |
|---|---|
| 12/18 | 2.0 |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| Total | 2.0 |

## Description of Job

Intermediate

## Pressures

MAX 5,000 PSI AVG. 600PSI

## Average Rates in BPM

MAX 8 AVG 6 BBLS

## Cement Left in Pipe

Feet 44 Reason SHOE JOINT

## Cement Data

| Stage | Sacks | Cement | Additives | W/Rq. | Yield | Lbs/Gal |
|---|---|---|---|---|---|---|
| 1 | 150 | 50/50 POZ PREMIUM | 4% Gel - 0.2% FL-17 - 0.1% C-51 - 0.3% C-20 - 0.1% C-37 - 0.2% X-Air | 6.93 | 1.43 | 13.60 |
| 2 | 100 | Premium | 0.2% FL-17 - 0.1% C-51 - 0.15% C-20 - 0.2% X-Air | 5.19 | 1.19 | 15.60 |
| 3 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| | | | | | | |
| | | | | | | |

## Summary

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Preflush | 10 | Type: | Caustic | Preflush: | BBl | 30.00 | Type: Gel Spacer |
| Breakdown | | MAXIMUM | 5,000 PSI | Load & Bkdn: | Gal - BBl | N/A | Pad:Bbl -Gal N/A |
| | | Lost Returns-N | PARTIAL | Excess /Return | BBl | N/A | Calc.Disp Bbl 218 |
| | | Actual TOC | 3,613 | Calc. TOC: | | 3,613 | Actual Disp. 218.00 |
| Average | | Bump Plug PSI: | 1,200 | Final Circ. | PSI: | 800 | Disp:Bbl 218.00 |
| ISIP _____ | 5 Min. _____ | 10 Min _____ | 15 Min _____ | Cement Slurry | BBl | 59.4 | |
| | | | | Total Volume | BBl | 307.39 | |

CUSTOMER REPRESENTATIVE _____ SIGNATURE

# Sandridge Energy

**Comanche County (NAD-27)**
**Sec 01-T33S-R18W**
**Wanda 3318 1-2H 2L**

**Wellbore #1**

**Survey: Drillright MWD Surveys**

# Standard Survey Report

**26 January, 2015**

# DrillRight

## Survey Report

| | | | |
|---|---|---|---|
| **Company:** | Sandridge Energy | **Local Co-ordinate Reference:** | Well Wanda 3318 1-2H 2L |
| **Project:** | Comanche County (NAD-27) | **TVD Reference:** | KB @ 1948.0usft |
| **Site:** | Sec 01-T33S-R18W | **MD Reference:** | KB @ 1948.0usft |
| **Well:** | Wanda 3318 1-2H 2L | **North Reference:** | Grid |
| **Wellbore:** | Wellbore #1 | **Survey Calculation Method:** | Minimum Curvature |
| **Design:** | Wellbore #1 | **Database:** | EDM 5000.1 Single User Db |

**Project** Comanche County (NAD-27)

| | | | |
|---|---|---|---|
| **Map System:** | US State Plane 1927 (Exact solution) | **System Datum:** | Mean Sea Level |
| **Geo Datum:** | NAD 1927 (NADCON CONUS) | | |
| **Map Zone:** | Kansas South 1502 | | |

**Site** Sec 01-T33S-R18W

| | | | | | |
|---|---|---|---|---|---|
| **Site Position:** | | **Northing:** | 192,861.00 usft | **Latitude:** | 37° 11' 38.421 N |
| **From:** | Map | **Easting:** | 1,785,458.00 usft | **Longitude:** | 99° 14' 11.419 W |
| **Position Uncertainty:** | 0.0 usft | **Slot Radius:** | 13-3/16 " | **Grid Convergence:** | -0.45 ° |

**Well** Wanda 3318 1-2H 2L

| | | | | | | |
|---|---|---|---|---|---|---|
| **Well Position** | **+N/-S** | 0.0 usft | **Northing:** | 193,212.00 usft | **Latitude:** | 37° 11' 41.905 N |
| | **+E/-W** | 0.0 usft | **Easting:** | 1,785,632.40 usft | **Longitude:** | 99° 14' 9.298 W |
| **Position Uncertainty** | | 0.0 usft | **Wellhead Elevation:** | 0.0 usft | **Ground Level:** | 1,927.0 usft |

**Wellbore** Wellbore #1

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|---|---|---|---|---|---|
| | IGRF2010 | 11/12/2014 | 5.04 | 65.08 | 51,553 |

**Design** Wellbore #1

**Audit Notes:**

| | | | | | |
|---|---|---|---|---|---|
| **Version:** | 1.0 | **Phase:** | ACTUAL | **Tie On Depth:** | 0.0 |

| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
|---|---|---|---|---|
| | 0.0 | 0.0 | 0.0 | 280.51 |

**Survey Program** **Date** 1/26/2015

| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description |
|---|---|---|---|---|
| 6,018.0 | 10,450.0 | Drillright MWD Surveys (Wellbore #1) | MWD | MWD - Standard |

**Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---|---|---|---|---|---|---|---|---|---|
| 5,940.0 | 88.94 | 310.32 | 5,140.6 | 677.4 | -675.6 | 787.8 | 0.00 | 0.00 | 0.00 |
| 6,018.0 | 86.10 | 302.10 | 5,144.0 | 723.4 | -738.4 | 858.0 | 11.14 | -3.64 | -10.54 |
| **First Drillright MWD Survey** | | | | | | | | | |
| 6,113.0 | 88.10 | 301.00 | 5,148.8 | 773.1 | -819.3 | 946.5 | 2.40 | 2.11 | -1.16 |
| 6,208.0 | 89.30 | 299.40 | 5,150.9 | 820.8 | -901.3 | 1,036.0 | 2.10 | 1.26 | -1.68 |
| 6,299.0 | 90.60 | 295.80 | 5,151.0 | 863.0 | -982.0 | 1,122.9 | 4.21 | 1.43 | -3.96 |
| 6,390.0 | 90.50 | 288.60 | 5,150.1 | 897.3 | -1,066.2 | 1,212.0 | 7.91 | -0.11 | -7.91 |
| 6,482.0 | 90.30 | 284.30 | 5,149.5 | 923.4 | -1,154.4 | 1,303.4 | 4.68 | -0.22 | -4.67 |
| 6,573.0 | 90.90 | 280.30 | 5,148.6 | 942.8 | -1,243.3 | 1,394.4 | 4.44 | 0.66 | -4.40 |
| 6,664.0 | 90.90 | 276.10 | 5,147.1 | 955.7 | -1,333.3 | 1,485.3 | 4.61 | 0.00 | -4.62 |
| 6,755.0 | 90.60 | 270.50 | 5,145.9 | 961.0 | -1,424.1 | 1,575.5 | 6.16 | -0.33 | -6.15 |

| | | | |
|---|---|---|---|
| **Company:** | Sandridge Energy | **Local Co-ordinate Reference:** | Well Wanda 3318 1-2H 2L |
| **Project:** | Comanche County (NAD-27) | **TVD Reference:** | KB @ 1948.0usft |
| **Site:** | Sec 01-T33S-R18W | **MD Reference:** | KB @ 1948.0usft |
| **Well:** | Wanda 3318 1-2H 2L | **North Reference:** | Grid |
| **Wellbore:** | Wellbore #1 | **Survey Calculation Method:** | Minimum Curvature |
| **Design:** | Wellbore #1 | **Database:** | EDM 5000.1 Single User Db |

**Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---|---|---|---|---|---|---|---|---|---|
| 6,846.0 | 92.20 | 268.20 | 5,143.7 | 959.9 | -1,515.1 | 1,664.8 | 3.08 | 1.76 | -2.53 |
| 6,937.0 | 92.00 | 268.50 | 5,140.4 | 957.3 | -1,606.0 | 1,753.7 | 0.40 | -0.22 | 0.33 |
| 7,028.0 | 91.60 | 269.20 | 5,137.5 | 955.5 | -1,696.9 | 1,842.7 | 0.89 | -0.44 | 0.77 |
| 7,119.0 | 91.10 | 269.10 | 5,135.4 | 954.2 | -1,787.9 | 1,931.9 | 0.56 | -0.55 | -0.11 |
| 7,210.0 | 90.80 | 269.10 | 5,133.9 | 952.7 | -1,878.8 | 2,021.1 | 0.33 | -0.33 | 0.00 |
| 7,302.0 | 90.50 | 269.40 | 5,132.8 | 951.5 | -1,970.8 | 2,111.3 | 0.46 | -0.33 | 0.33 |
| 7,394.0 | 90.50 | 269.20 | 5,132.0 | 950.4 | -2,062.8 | 2,201.6 | 0.22 | 0.00 | -0.22 |
| 7,486.0 | 89.80 | 268.20 | 5,131.8 | 948.3 | -2,154.8 | 2,291.6 | 1.33 | -0.76 | -1.09 |
| 7,576.0 | 92.10 | 268.80 | 5,130.3 | 946.0 | -2,244.7 | 2,379.6 | 2.64 | 2.56 | 0.67 |
| 7,671.0 | 91.40 | 268.70 | 5,127.4 | 943.9 | -2,339.7 | 2,472.6 | 0.74 | -0.74 | -0.11 |
| 7,765.0 | 90.80 | 269.20 | 5,125.6 | 942.2 | -2,433.6 | 2,564.7 | 0.83 | -0.64 | 0.53 |
| 7,860.0 | 90.50 | 270.10 | 5,124.5 | 941.6 | -2,528.6 | 2,658.0 | 1.00 | -0.32 | 0.95 |
| 7,954.0 | 90.40 | 271.30 | 5,123.8 | 942.7 | -2,622.6 | 2,750.6 | 1.28 | -0.11 | 1.28 |
| 8,048.0 | 90.20 | 271.20 | 5,123.3 | 944.8 | -2,716.6 | 2,843.4 | 0.24 | -0.21 | -0.11 |
| 8,143.0 | 89.40 | 270.60 | 5,123.6 | 946.3 | -2,811.6 | 2,937.0 | 1.05 | -0.84 | -0.63 |
| 8,238.0 | 90.30 | 269.80 | 5,123.8 | 946.6 | -2,906.6 | 3,030.5 | 1.27 | 0.95 | -0.84 |
| 8,332.0 | 89.90 | 270.40 | 5,123.7 | 946.8 | -3,000.6 | 3,122.9 | 0.77 | -0.43 | 0.64 |
| 8,426.0 | 89.60 | 270.50 | 5,124.1 | 947.5 | -3,094.6 | 3,215.5 | 0.34 | -0.32 | 0.11 |
| 8,521.0 | 90.90 | 269.20 | 5,123.7 | 947.3 | -3,189.6 | 3,308.9 | 1.94 | 1.37 | -1.37 |
| 8,616.0 | 90.50 | 269.40 | 5,122.5 | 946.1 | -3,284.6 | 3,402.0 | 0.47 | -0.42 | 0.21 |
| 8,710.0 | 90.60 | 269.50 | 5,121.6 | 945.2 | -3,378.5 | 3,494.3 | 0.15 | 0.11 | 0.11 |
| 8,805.0 | 90.70 | 269.20 | 5,120.5 | 944.1 | -3,473.5 | 3,587.5 | 0.33 | 0.11 | -0.32 |
| 8,899.0 | 90.00 | 269.20 | 5,120.0 | 942.8 | -3,567.5 | 3,679.6 | 0.74 | -0.74 | 0.00 |
| 8,994.0 | 88.80 | 268.80 | 5,121.0 | 941.1 | -3,662.5 | 3,772.7 | 1.33 | -1.26 | -0.42 |
| 9,089.0 | 90.20 | 268.70 | 5,121.8 | 939.1 | -3,757.5 | 3,865.7 | 1.48 | 1.47 | -0.11 |
| 9,182.0 | 90.10 | 268.60 | 5,121.5 | 936.9 | -3,850.4 | 3,956.7 | 0.15 | -0.11 | -0.11 |
| 9,276.0 | 91.60 | 269.50 | 5,120.1 | 935.3 | -3,944.4 | 4,048.9 | 1.86 | 1.60 | 0.96 |
| 9,371.0 | 91.40 | 271.30 | 5,117.7 | 936.0 | -4,039.4 | 4,142.3 | 1.91 | -0.21 | 1.89 |
| 9,465.0 | 90.90 | 271.10 | 5,115.8 | 938.0 | -4,133.3 | 4,235.1 | 0.57 | -0.53 | -0.21 |
| 9,559.0 | 90.20 | 271.10 | 5,114.9 | 939.8 | -4,227.3 | 4,327.8 | 0.74 | -0.74 | 0.00 |
| 9,653.0 | 89.90 | 271.00 | 5,114.8 | 941.5 | -4,321.3 | 4,420.5 | 0.34 | -0.32 | -0.11 |
| 9,747.0 | 89.80 | 270.60 | 5,115.0 | 942.8 | -4,415.3 | 4,513.2 | 0.44 | -0.11 | -0.43 |
| 9,842.0 | 89.60 | 270.20 | 5,115.5 | 943.5 | -4,510.3 | 4,606.7 | 0.47 | -0.21 | -0.42 |
| 9,936.0 | 91.20 | 269.60 | 5,114.9 | 943.3 | -4,604.3 | 4,699.1 | 1.82 | 1.70 | -0.64 |
| 10,031.0 | 91.20 | 269.60 | 5,112.9 | 942.6 | -4,699.3 | 4,792.4 | 0.00 | 0.00 | 0.00 |
| 10,125.0 | 91.30 | 269.20 | 5,110.8 | 941.6 | -4,793.2 | 4,884.6 | 0.44 | 0.11 | -0.43 |
| 10,220.0 | 90.90 | 268.80 | 5,109.0 | 940.0 | -4,888.2 | 4,977.7 | 0.60 | -0.42 | -0.42 |
| 10,315.0 | 90.70 | 269.20 | 5,107.7 | 938.3 | -4,983.2 | 5,070.7 | 0.47 | -0.21 | 0.42 |
| 10,387.0 | 90.30 | 270.10 | 5,107.1 | 937.9 | -5,055.2 | 5,141.4 | 1.37 | -0.56 | 1.25 |
| **Last Drillright MWD Survey** | | | | | | | | | |
| 10,450.0 | 90.30 | 270.10 | 5,106.7 | 938.0 | -5,118.2 | 5,203.4 | 0.00 | 0.00 | 0.00 |
| **Projection at TD** | | | | | | | | | |

# DrillRight

## Survey Report

| | | | |
|---|---|---|---|
| **Company:** | Sandridge Energy | **Local Co-ordinate Reference:** | Well Wanda 3318 1-2H 2L |
| **Project:** | Comanche County (NAD-27) | **TVD Reference:** | KB @ 1948.0usft |
| **Site:** | Sec 01-T33S-R18W | **MD Reference:** | KB @ 1948.0usft |
| **Well:** | Wanda 3318 1-2H 2L | **North Reference:** | Grid |
| **Wellbore:** | Wellbore #1 | **Survey Calculation Method:** | Minimum Curvature |
| **Design:** | Wellbore #1 | **Database:** | EDM 5000.1 Single User Db |

**Survey Annotations**

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates +N/-S (usft) | Local Coordinates +E/-W (usft) | Comment |
|---|---|---|---|---|
| 6,018.0 | 5,144.0 | 723.4 | -738.4 | First Drillright MWD Survey |
| 10,387.0 | 5,107.1 | 937.9 | -5,055.2 | Last Drillright MWD Survey |
| 10,450.0 | 5,106.7 | 938.0 | -5,118.2 | Projection at TD |

Checked By: _____ Approved By: _____ Date: _____

# Hydraulic Fracturing Fluid Product Component Information Disclosure

| | |
|---|---|
| Job Start Date: | 1/14/2015 |
| Job End Date: | 1/16/2015 |
| State: | Kansas |
| County: | Comanche |
| API Number: | 15-033-21772-02-00 |
| Operator Name: | SandRidge Energy |
| Well Name and Number: | Wanda 3318 1-2H 2L |
| Longitude: | -99.23591600 |
| Latitude: | 37.19497400 |
| Datum: | NAD27 |
| Federal/Tribal Well: | NO |
| True Vertical Depth: | 5,151 |
| Total Base Water Volume (gal): | 3,045,588 |
| Total Base Non Water Volume: | 0 |

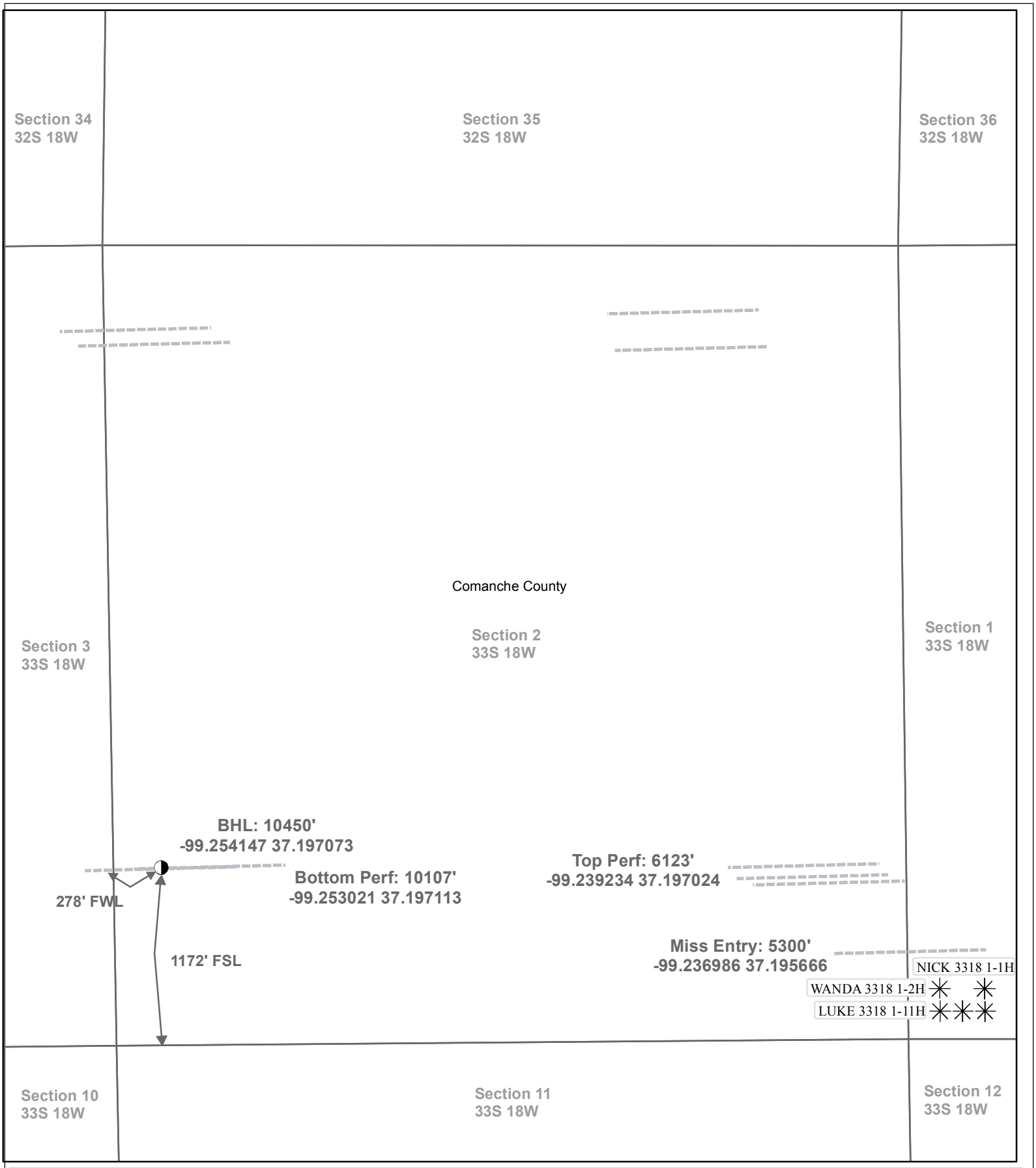
**Hydraulic Fracturing Fluid Composition:**

| Trade Name | Supplier | Purpose | Ingredients | Chemical Abstract Service Number (CAS #) | Maximum Ingredient Concentration in Additive (% by mass)** | Maximum Ingredient Concentration in HF Fluid (% by mass)** | Comments |
|---|---|---|---|---|---|---|---|
| Water | Archer | Carrier/Base Fluid | | | | | |
| | | | Water | 7732-18-5 | 100.00000 | 95.31791 | None |
| Sand (Proppant) | Archer | Proppant | | | | | |
| | | | Silica Substrate | NA | 100.00000 | 3.30410 | None |
| C102 | Bosque Disposal Systems, LLC | Oxidizer | | | | | |
| | | | Chlorine Dioxide | 10049-04-4 | 15.00000 | 0.26833 | |
| Hydrochloric Acid (15%) | Archer | Acidizing | | | | | |
| | | | Hydrochloric Acid | 7647-01-0 | 15.00000 | 0.15251 | None |
| | | | Methyl Alcohol | 67-56-1 | 80.00000 | 0.00125 | None |
| | | | thiourea-formaldehyde copolymer | 68527-49-1 | 15.00000 | 0.00023 | None |
| AIC | Archer | Liquid Acid Iron Control | | | | | |
| | | | Acetic Acid | 64-19-7 | 50.00000 | 0.00277 | None |
| | | | Citric Acid | 77-92-9 | 30.00000 | 0.00166 | None |
| Chemflush | Archer | Enviro-Friendly Chemical Flush | | | | | |
| | | | Hydrotreated Petroleum Distillate | 64742-47-8 | 99.00000 | 0.00206 | None |
| | | | Alcohol Ethoxylate Surfactants | NA | 10.00000 | 0.00021 | None |

| Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS. | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Other Chemicals | | | | | |
| | | | Water | 7732-18-5 | | 0.04505 | |
| | | | Aliphatic Hydrocarbon | 64742-47-8 | | 0.02252 | |
| | | | Anionic Polymer | N/A | | 0.02252 | |
| | | | Water | 7732-18-5 | | 0.00779 | |
| | | | Polyol Ester | N/A | | 0.00375 | |
| | | | Oxyalkylated Alcohol | 68002-97-1 | | 0.00375 | |
| | | | Water | 7732-18-5 | | 0.00194 | |
| | | | Acrylic Polymer | 28205-96-1 | | 0.00130 | |
| | | | Sodium Salt of Phosphate Ester | 68131-72-6 | | 0.00130 | |
| | | | Polyglycol Ester | N/A | | 0.00075 | |
| | | | Alcohol Ethoxylate Surfactants | N/A | | 0.00023 | |
| | | | n-olefins | N/A | | 0.00012 | |
| | | | Propargyl Alcohol | 107-19-7 | | 0.00009 | |
| | | | Tetrasodium Ethylenediaminetetraacetate | 64-02-8 | | 0.00008 | |
| | | | Water | 7732-18-5 | | | |
| | | | Cinnamic Aldehyde | 104-55-2 | | | |
| | | | METHANOL | 67-56-1 | | | |
| | | | ISOPROPANOL | 67-63-0 | | | |
| | | | WATER | 7732-18-5 | | | |
| | | | TRADE SECRET | N/A | | | |
| | | | Acetic Acid | 64-19-7 | | | |
| | | | Buffer | N/A | | | |
| | | | Surfactant | N/A | | | |

* Total Water Volume sources may include fresh water, produced water, and/or recycled water
** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)




SANDRIDGE
THE POWER OF US

Actual BH Location

SandRidge Wells

Perf

Sections

**Actual Bottom-Hole Location ofWanda 3318 1-2H 2L**
**T&R: 33S 18W**
**Section: 2, 278' FWL & 1172' FSL**
**-99.254147 37.197073**

1 in = 833 ft

0 650 1,300 2,600 Feet

N

| | |
|---|---|
| Draftsman: Dory Deines | Draft Date: 3/24/2015 |
| Drawing Name/Number: Addendum_Wanda 3318 1-2H 2L.mxd | |
| Coordinate System: NAD 1927 State Plane Kansas South FIPS: 1502 | |

Additional Perforation Records

| Shots Per Foot | Perforation Record | Material Record |
|---|---|---|
| 1 | 6736-6738 | 1000 gals 15% HCL Acid, 2124 bbls fresh slickwater, 62438 bbls running TLTR |
| 1 | 6607-6609 | 1000 gals 15% HCL Acid, 1914 bbls fresh slickwater, 64352 bbls running TLTR |
| 1 | 6470-6472 | 1000 gals 15% HCL Acid, 1979 bbls fresh slickwater, 66331 bbls running TLTR |
| 1 | 6332-6334 | 1000 gals 15% HCL Acid, 3083 bbls fresh slickwater, 69414 bbls running TLTR |
| 1 | 6123-6125 | 1000 gals 15% HCL Acid, 2275 bbls fresh slickwater, 71689 bbls running TLTR |

Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513

Kansas
Corporation Commission

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



March 30, 2015

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

Re: ACO-1
API 15-033-21772-02-00
Wanda 3318 1-2H 2L
SW/4 Sec.01-33S-18W
Comanche County, Kansas

Dear Tiffany Golay:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 11/28/2014 and the ACO-1 was received on March 30, 2015 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department