Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1094948

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: Atlas (gas) Plains marketing, LP (oil)

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 #:

| 8/29/2012 | 9/26/2012 | 9/29/2012 |
|---|---|---|
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |

API No. 15 - 15-007-23920-01-00
Spot Description:
NW NE NW NE Sec. 11 Twp. 35 S. R. 10 ☐ East ☑ West
200 Feet from ☑ North / ☐ South Line of Section
1780 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: William 3510 Well #: 4-11H
Field Name:
Producing Formation: Mississippian
Elevation: Ground: 1303 Kelly Bushing: 1323
Total Vertical Depth: 9248 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: 42000 ppm Fluid volume: 2420 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Gray Mud Disposal
Lease Name: Unnamed License #: 99999
Quarter SW Sec. 15 Twp. 24 S. R. 7 ☐ East ☑ West
County: Garfield, OK Permit #: 323003

**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: 12/26/2012
☑ **Confidential Release Date:** 12/26/2014
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
**ALT** ☑ I ☐ II ☐ III **Approved by:** NAOMI JAMES **Date:** 12/26/2012

1094948

Operator Name: SandRidge Exploration and Production LLC Lease Name: William 3510 Well #: 4-11H

Sec. 11 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:

Attached

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

| Name | Top | Datum |
|---|---|---|
| Base Heebner | 3621 | |
| Tonkawa | 3948 | |
| Cottage Grove | 4220 | |
| Oswego Limestone | 4518 | |
| Cherkee Group | 4618 | |
| Verdigris Limestone | 4644 | |
| Mississppi Lime | 4742 | |

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. 11/3/2012

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 | William 3510 4-11H |
| Doc ID | 1094948 |

All Electric Logs Run

| |
|---|
| Boresight |
| ML 5inMD Final |
| Array Induction Gamma Ray Memory Log |
| Spectral Density Dual Spaced Neutron Gamma Ray Memory Log |
| Borehole Profile Gamma Ray Memory Log |

| | |
|---|---|
| Form | ACO1 - Well Completion |
| Operator | SandRidge Exploration and Production LLC |
| Well Name | William 3510 4-11H |
| Doc ID | 1094948 |

Perforations

| Shots Per Foot | Perforation Record | Material Record | Depth |
|---|---|---|---|
| 5 | 8738-9130 | 4232 bbls water, 36 bbls acid, 75M lbs sd, 4270 TLTR | |
| 5 | 8250-8642 | 4267 bbls water, 36 bbls acid, 76M lbs sd, 8573 TLTR | |
| 5 | 7763-8155 | 4173 bbls water, 36 bbls acid, 75M lbs sd, 12781 TLTR | |
| 5 | 7275-7667 | 5475 bbls water, 36 bbls acid, 75M lbs sd, 18578 TLTR | |
| 5 | 6788-7180 | 4438 bbls water, 36 bbls acid, 75M lbs sd, 23111 TLTR | |
| 5 | 6314-6693 | 4363 bbls water, 36 bbls acid, 76M lbs sd, 27547 TLTR | |
| 5 | 5805-6218 | 4295 bbls water, 36 bbls acid, 75M lbs sd, 31878 TLTR | |
| 5 | 5322-5708 | 4341 bbls water, 36 bbls acid, 77M lbs sd, 36257 TLTR | |

| | |
|---|---|
| Form | ACO1 - Well Completion |
| Operator | SandRidge Exploration and Production LLC |
| Well Name | William 3510 4-11H |
| Doc ID | 1094948 |

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 | 32 | 20 | 75 | 106 | 4500 PSi Concrete | 10 | none |
| Surface | 12.25 | 9.63 | 36 | 920 | O-tex Lite Premium Plus 65/ Premium Plus (Class C) | 550 | (6% gel) 2% Calcium Chloride, 1/4 pps Cello-Flake, .5% C-41P |
| Intermediate | 8.75 | 7 | 26 | 5274 | 50/50 Poz Premium/ Premium | 230 | 4% Gel, .4% C-12, .1% C-37, .5% C-41P, 2 lb/sk Phenoseal |
| Liner | 6.12 | 4.5 | 11.6 | 9247 | 50/50 Premi8um Poz | 290 | (4% Gel) .4% C12, .1% C37, .5% C-41P, 2 lb/sk Phenoseal |

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 03, 2012

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

Re: ACO1
API 15-007-23920-01-00
William 3510 4-11H
NE/4 Sec.11-35S-10W
Barber County, Kansas

Dear KCC:

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

PRO OILFIELD SERVICES, LLC

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

# Ticket

Date: 9/1/2012

Company:

**Sandridge**

| Drill Rig: | Location: | Lease Name: |
|---|---|---|
| Unit 9 | Barber County | Williams 3510 #4-11H DC12099 |

90' of 30" Drilled Conductor Hole
90' of 20" Conductor Pipe(.250 wall) 82ppf
6'x6' Cellar Tinhorn W/Protective Ring
Drill & Install cellar
80' of 20" Drilled Moushole
80' of 16" Moushole 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)
10 Yards of 4500PSI concrete Poured down the back side of Conductor Pipe

AFE Number: DC-12099
Well Name: Williams 3510 11-4H
Code: 850-010
Amount: 18,550.00
Co. Man: Dwayne Burt
Co. Man Sig.: Dwayne Burt
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 $18,550.00

# JOB SUMMARY

| PROJECT NUMBER | TICKET DATE |
|---|---|
| SOK1879 | 09/12/12 |

| COUNTY | State | COMPANY | CUSTOMER REP |
|---|---|---|---|
| Barber | Kansas | dridge Exploration & Produc | Savage/Burt |

| LEASE NAME | Well No. | JOB TYPE | EMPLOYEE NAME |
|---|---|---|---|
| Williams | 1510 4-11 | Surface | Robert Burris |

| EMP NAME | | | | | | | |
|---|---|---|---|---|---|---|---|
| Robert Burris | | Vontrey | | | | | |
| Bryan Douglas | | Dustin Odom | | | | | |
| Jessie McClain | | | | | | | |
| Frank James | | | | | | | |

Form. Name _____ Type: _____

Packer Type _____ Set At 0

Bottom Hole Temp. 80 Pressure _____

Retainer Depth _____ Total Depth 950

| | Called Out | On Location | Job Started | Job Completed |
|---|---|---|---|---|
| Date | 9/14/2012 | 9/14/2012 | 9/15/2012 | 9/15/2012 |
| Time | 22:00 | 23:30 | 05:33 | 06:36 |

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 | 924 | 1,500 |
| Liner | | | | | | |
| Liner | | | | | | |
| Tubing | | | 0 | | | |
| Drill Pipe | | | | | | |
| Open Hole | | | 12 1/4" | Surface | 920 | 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 |
|---|---|
| 9/14 | 5.5 |
| Total | 5.5 |

Operating Hours

| Date | Hours |
|---|---|
| 9/15 | 1.3 |
| Total | 1.3 |

Description of Job

Surface

Pressures

MAX 1,500 PSI AVG. 450

Average Rates in BPM

MAX 6 BPM AVG 5

Cement Left in Pipe

Feet 47 Reason SHOE JOINT

Cement Data

| Stage | Sacks | Cement | Additives | W/Rq. | Yield | Lbs/Gal |
|---|---|---|---|---|---|---|
| 1 | 390 | TEX Lite Premium Plus 65 | (6% Gel) 2% Calcium Chloride - 1/4pps Cello-Flake - .5% C-41P | 10.88 | 1.84 | 12.70 |
| 2 | 160 | Premium Plus (Class C) | 1% Calcium Chloride - 1/4pps Cello-Flake | 6.32 | 1.32 | 14.80 |
| 3 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| | | | | | | |
| | | | | | | |

Summary

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Preflush | | Type: | | 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 | 32 | Calc.Disp Bbl 68 |
| | | Actual TOC | SURFACE | Calc. TOC: | | SURFACE | Actual Disp. 62.50 |
| Average | | Bump Plug PSI: | 1,000 | Final Circ. | PSI: | 450 | Disp:Bbl |
| ISIP | 5 Min. | 10 Min | 15 Min | Cement Slurry: | BBl | 166.0 | |
| | | | | Total Volume | BBl | 238.50 | |

CUSTOMER REPRESENTATIVE _____

SIGNATURE

# JOB SUMMARY

| PROJECT NUMBER | TICKET DATE |
|---|---|
| SOK1970 | 10/08/12 |

| COUNTY | State | COMPANY | CUSTOMER REP |
|---|---|---|---|
| Barber | Kansas | Sandridge Exploration & Production | Dwayne Burt |

| LEASE NAME | Well No. | JOB TYPE | EMPLOYEE NAME |
|---|---|---|---|
| William | 1510 4-11I | Intermediate | Matt Wilson |

| EMP NAME | | | | | | | |
|---|---|---|---|---|---|---|---|
| Matt Wilson | | vontray | | | | | |
| Arthur Setzar | | | | | | | |
| Jared Green | | | | | | | |
| David Thomas | | | | | | | |

Form. Name _____ Type: _____

Packer Type _____ Set At 0

Bottom Hole Temp. 155 Pressure _____

Retainer Depth _____ Total Depth 5288

| | Called Out | On Location | Job Started | Job Completed |
|---|---|---|---|---|
| Date | 10/9/2012 | 10/9/2012 | 10/9/2012 | 10/9/2012 |
| Time | 5:00 am | 9:00 am | 11:41am | 2:00 pm |

Tools and Accessories

| Type and Size | Qty | Make |
|---|---|---|
| Auto Fill Tube | 0 | IR |
| Insert Float Val | 0 | IR |
| Centralizers | 0 | IR |
| Top Plug | 1 | IR |
| HEAD | 1 | 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 | 5,273 | 5,000 |
| Liner | | | | | | | |
| Liner | | | | | | | |
| Tubing | | | 0 | | | | |
| Drill Pipe | | | | | | | |
| Open Hole | | | 8 3/4" | | Surface | 5,288 | 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 |
|---|---|
| 10/9 | 4.0 |
| Total | 4.0 |

Operating Hours

| Date | Hours |
|---|---|
| 10/9 | 4.0 |
| Total | 4.0 |

Description of Job

Intermediate

Pressures

MAX 5,000 PSI AVG. 300

Average Rates in BPM

MAX 8 BPM AVG 5

Cement Left in Pipe

Feet 91 Reason SHOE JOINT

Cement Data

| Stage | Sacks | Cement | Additives | W/Rq. | Yield | Lbs/Gal |
|---|---|---|---|---|---|---|
| 1 | 130 | 50/50 POZ PREMIUM | 4% Gel - 0.4% C-12 - 0.1% C-37 - 0.5% C-41P - 2 lb/sk Phenoseal | 6.77 | 1.44 | 13.60 |
| 2 | 100 | Premium | 0.4% C-12 - 0.1% C-37 | 5.20 | 1.18 | 15.60 |
| 3 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| | | | | | | |
| | | | | | | |

Summary

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Preflush | 10 | Type: | Caustic | Preflush: | BBl | 20.00 | Type: WEIGHTED SP. |
| Breakdown | | MAXIMUM | 5,000 PSI | Load & Bkdn: | Gal - BBl | N/A | Pad:Bbl -Gal N/A |
| | | Lost Returns-N | NO/FULL | Excess /Return | BBl | N/A | Calc.Disp Bbl 199 |
| | | Actual TOC | | Calc. TOC: | | 4,396 | Actual Disp. 199.00 |
| Average | | Bump Plug PSI: | | Final Circ. | PSI: | 960 | Disp:Bbl |
| ISIP _____ 5 Min. _____ | | 10 Min _____ | 15 Min _____ | Cement Slurry: | BBl | 54.0 | |
| | | | | Total Volume | BBl | 273.00 | |

CUSTOMER REPRESENTATIVE Dwayne Burt SIGNATURE

# JOB SUMMARY

| PROJECT NUMBER | TICKET DATE |
|---|---|
| SOK1929 | 09/28/12 |

| COUNTY | State | COMPANY | CUSTOMER REP |
|---|---|---|---|
| Barber | Kansas | dridge Exploration & Produc | Ron Savage |

| LEASE NAME | Well No. | JOB TYPE | EMPLOYEE NAME |
|---|---|---|---|
| William 3510 | 4-11H | Liner | Larry Kirchner Jr. |

| EMP NAME | | EMP NAME | | EMP NAME | | EMP NAME | |
|---|---|---|---|---|---|---|---|
| Larry Kirchner Jr. | | Vontray Watkins | | | | | |
| John Hall | | | | | | | |
| Emmit Brock | | | | | | | |
| Robert Stonehocker | | | | | | | |

Form. Name _____ Type: _____

Packer Type _____ Set At 5,274

Bottom Hole Temp. 150 Pressure _____

Retainer Depth _____ Total Depth 9247

| | Called Out | On Location | Job Started | Job Completed |
|---|---|---|---|---|
| Date | 9/27/2012 | 9/27/2012 | 9/28/2012 | 9/28/2012 |
| Time | 7:00PM | 10:00PM | 12:13AM | 2:30AM |

Tools and Accessories

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

Well Data

| | New/Used | Weight | Size Grade | From | To | Max. Allow |
|---|---|---|---|---|---|---|
| Casing | | 11.6 | 4 1/2 | 4,851 | 9,248' | 3,500 |
| Liner Tool | | | | | | 3,500 |
| HWDP | | | | Surface | 3,456 | 3,500 |
| Drill Pipe | | | 3 1/2" | 3,456 | 4,851' | 3,500 |
| Drill Collars | | | | | | 3,500 |
| Open Hole | | | 6 1/8" | Surface | 9,248 | Shots/Ft. |
| Perforations | | | | | | |
| Perforations | | | | | | |
| Perforations | | | | | | |

Materials

| | | | | |
|---|---|---|---|---|
| Mud Type | WBM | Density | 9.1 | Lb/Gal |
| Disp. Fluid | Fresh Water | Density | 8.33 | Lb/Gal |
| Spacer type | resh 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 |
|---|---|
| 9/27 | 2.0 |
| 9/28 | 2.5 |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| Total | 4.5 |

Operating Hours

| Date | Hours |
|---|---|
| 9/28 | 2.0 |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| Total | 2.0 |

Description of Job

Liner

Pressures

MAX 3,500 PSI AVG. 200

Average Rates in BPM

MAX 6 BPM AVG 4

Cement Left in Pipe

Feet 88 Reason SHOE JOINT

Cement Data

| Stage | Sacks | Cement | Additives | W/Rq. | Yield | Lbs/Gal |
|---|---|---|---|---|---|---|
| 1 | 290 | 50/50 Premium Poz | (4%Gel) - .4% C12 - .1% C37 - 0.5% C-41P - 2 Lb/Sk Phenoseal | 6.77 | 1.44 | 13.60 |
| 2 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| 3 | 0 | 0 | 0 | 0.00 | 0.00 | 0.00 |
| | | | | | | |
| | | | | | | |

Summary

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Preflush | 10- | Type: | Caustic | Preflush: BBl | 20.00 | Type: | 8.59#SPACER |
| Breakdown | | MAXIMUM | 3,500 PSI | Load & Bkdn: Gal - BBl | N/A | Pad:Bbl -Gal | N/A |
| | | Lost Returns-N | NO/FULL | Excess /Return BBl | N/A | Calc.Disp Bbl | 110 |
| | | Actual TOC | 4,697' | Calc. TOC: | 4,697' | Actual Disp. | 110.00 |
| Average | | Bump Plug PSI: | | Final Circ. PSI: | 500 | Disp:Bbl | |
| ISIP _____ 5 Min. _____ | | 10 Min _____ | 15 Min _____ | Cement Slurry: BBl | 120.5 | | |
| | | | | Total Volume BBl | 250.54 | | |

CUSTOMER REPRESENTATIVE _____ SIGNATURE

Standard Wellpath Report
Sandridge
Sec 11 - 35S - 10W, Kansas
Barber County
Wellbore: William 3510 4-11H (Actual)

## Wellbore

| Name | Created | Last Revised |
|---|---|---|
| William 3510 4-11H (Actual) | 10-Sep-2012 | 26-Sep-2012 |

## Well

| Name | Government ID | Last Revised |
|---|---|---|
| William 3510 4-11H | | 10-Sep-2012 |

## Slot

| Name | Grid Northing | Grid Easting | Latitude | Longitude | North | East |
|---|---|---|---|---|---|---|
| William 3510 4-11H | 129009.0000 | 2037518.0000 | N37 1 15.2318 | W98 22 17.4118 | 164.99S | 3558.80E |

## Installation

| Name | Easting | Northing | Coord System Name | North Alignment |
|---|---|---|---|---|
| Barber County | 2033959.0000 | 129174.0001 | KS-S on NORTH AMERICAN DATUM 1927 datum | Grid |

## Field

| Name | Easting | Northing | Coord System Name | North Alignment |
|---|---|---|---|---|
| Sec 11 - 35S - 10W | 2033959.0000 | 129174.0001 | KS-S on NORTH AMERICAN DATUM 1927 datum | Grid |

Created By

Comments

FINAL Surveys
MD 9248 is a projection to bit @ TD

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Slot and TVD's are from Slot ( William 3510 4-11H 0.00ft above Mean Sea Level )
Vertical Section is from 0.00N 0.00E on azimuth 181.810 degrees
Bottom hole distance is 4759.40 Feet on azimuth 181.64 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 26-Sep-2012

Standard Wellpath Report
Sandridge
Sec 11 - 35S - 10W, Kansas
Barber County
Wellbore: William 3510 4-11H (Actual)

## Wellpath (Grid) Report

| MD[ft] | Inc[deg] | Azi[deg] | TVD[ft] | North[ft] | East[ft] | Dogleg [deg/100ft] | Vertical Section[ft] | Easting | Northing |
|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.000 | 0.00 | 0.00N | 0.00E | | 0.00 | 2037518.00 | 129009.00 |
| 966.00 | 0.30 | 310.800 | 966.00 | 1.65N | 1.91W | 0.03 | -1.59 | 2037516.09 | 129010.65 |
| 1151.00 | 0.30 | 271.700 | 1150.99 | 1.98N | 2.77W | 0.11 | -1.90 | 2037515.23 | 129010.98 |
| 1620.00 | 0.80 | 182.300 | 1619.98 | 1.25S | 4.12W | 0.18 | 1.38 | 2037513.88 | 129007.75 |
| 2092.00 | 2.30 | 287.600 | 2091.85 | 1.68S | 13.29W | 0.56 | 2.10 | 2037504.71 | 129007.32 |
| 2568.00 | 3.50 | 269.100 | 2567.24 | 0.98N | 36.92W | 0.32 | 0.18 | 2037481.08 | 129009.98 |
| 3041.00 | 4.10 | 277.600 | 3039.20 | 2.99N | 68.12W | 0.17 | -0.84 | 2037449.88 | 129011.99 |
| 3517.00 | 2.80 | 266.100 | 3514.33 | 4.45N | 96.58W | 0.31 | -1.40 | 2037421.41 | 129013.45 |
| 3870.00 | 2.90 | 244.800 | 3866.90 | 0.06N | 113.27W | 0.30 | 3.51 | 2037404.73 | 129009.06 |
| 3901.00 | 4.40 | 235.800 | 3897.84 | 0.94S | 114.96W | 5.17 | 4.56 | 2037403.03 | 129008.06 |
| 3932.00 | 5.60 | 232.400 | 3928.72 | 2.53S | 117.14W | 3.99 | 6.22 | 2037400.85 | 129006.47 |
| 3964.00 | 6.60 | 234.800 | 3960.54 | 4.55S | 119.88W | 3.22 | 8.32 | 2037398.11 | 129004.45 |
| 3995.00 | 7.80 | 235.400 | 3991.30 | 6.77S | 123.07W | 3.88 | 10.64 | 2037394.92 | 129002.23 |
| 4027.00 | 9.80 | 237.700 | 4022.92 | 9.46S | 127.16W | 6.34 | 13.46 | 2037390.83 | 128999.54 |
| 4059.00 | 11.60 | 241.100 | 4054.36 | 12.47S | 132.28W | 5.96 | 16.63 | 2037385.72 | 128996.53 |
| 4090.00 | 12.90 | 243.400 | 4084.65 | 15.52S | 138.10W | 4.48 | 19.87 | 2037379.89 | 128993.48 |
| 4123.00 | 14.40 | 239.500 | 4116.72 | 19.25S | 144.93W | 5.33 | 23.81 | 2037373.06 | 128989.74 |
| 4155.00 | 16.20 | 236.400 | 4147.59 | 23.74S | 152.08W | 6.18 | 28.52 | 2037365.91 | 128985.25 |
| 4187.00 | 18.00 | 233.500 | 4178.17 | 29.16S | 159.77W | 6.22 | 34.18 | 2037358.22 | 128979.84 |
| 4219.00 | 20.30 | 230.400 | 4208.40 | 35.64S | 168.02W | 7.86 | 40.91 | 2037349.97 | 128973.36 |
| 4251.00 | 22.90 | 228.900 | 4238.15 | 43.27S | 176.99W | 8.31 | 48.82 | 2037341.00 | 128965.73 |
| 4282.00 | 25.40 | 225.900 | 4266.44 | 51.86S | 186.32W | 8.98 | 57.71 | 2037331.67 | 128957.13 |
| 4315.00 | 27.30 | 221.400 | 4296.01 | 62.47S | 196.40W | 8.35 | 68.62 | 2037321.58 | 128946.53 |
| 4346.00 | 29.60 | 216.200 | 4323.27 | 73.98S | 205.63W | 10.90 | 80.42 | 2037312.36 | 128935.02 |
| 4378.00 | 32.30 | 211.600 | 4350.71 | 87.64S | 214.78W | 11.21 | 94.37 | 2037303.21 | 128921.35 |
| 4410.00 | 34.20 | 207.200 | 4377.48 | 102.93S | 223.37W | 9.59 | 109.92 | 2037294.61 | 128906.07 |
| 4442.00 | 35.60 | 201.900 | 4403.73 | 119.57S | 230.96W | 10.43 | 126.79 | 2037287.03 | 128889.42 |
| 4474.00 | 36.80 | 196.600 | 4429.56 | 137.41S | 237.17W | 10.47 | 144.81 | 2037280.81 | 128871.59 |
| 4506.00 | 37.80 | 191.400 | 4455.02 | 156.21S | 241.85W | 10.33 | 163.75 | 2037276.13 | 128852.78 |
| 4537.00 | 38.50 | 185.600 | 4479.40 | 175.13S | 244.67W | 11.77 | 182.75 | 2037273.31 | 128833.86 |
| 4569.00 | 40.40 | 182.600 | 4504.11 | 195.41S | 246.12W | 8.41 | 203.06 | 2037271.87 | 128813.58 |
| 4601.00 | 43.30 | 182.300 | 4527.95 | 216.74S | 247.03W | 9.08 | 224.41 | 2037270.96 | 128792.25 |
| 4632.00 | 46.10 | 182.500 | 4549.98 | 238.52S | 247.94W | 9.04 | 246.21 | 2037270.05 | 128770.47 |
| 4660.00 | 48.60 | 182.400 | 4568.95 | 259.09S | 248.82W | 8.93 | 266.80 | 2037269.17 | 128749.89 |
| 4759.00 | 48.10 | 180.800 | 4634.74 | 333.03S | 250.89W | 1.31 | 340.77 | 2037267.10 | 128675.95 |
| 4822.00 | 47.40 | 180.100 | 4677.10 | 379.67S | 251.26W | 1.38 | 387.39 | 2037266.73 | 128629.31 |
| 4854.00 | 49.00 | 181.500 | 4698.43 | 403.52S | 251.59W | 5.97 | 411.24 | 2037266.39 | 128605.46 |
| 4885.00 | 51.10 | 182.900 | 4718.34 | 427.26S | 252.51W | 7.61 | 435.00 | 2037265.48 | 128581.72 |
| 4917.00 | 54.00 | 184.000 | 4737.79 | 452.62S | 254.04W | 9.46 | 460.39 | 2037263.94 | 128556.36 |
| 4949.00 | 56.30 | 183.800 | 4756.08 | 478.81S | 255.83W | 7.21 | 486.64 | 2037262.16 | 128530.16 |
| 4980.00 | 59.80 | 183.900 | 4772.48 | 505.05S | 257.60W | 11.29 | 512.92 | 2037260.39 | 128503.92 |
| 5011.00 | 63.90 | 183.500 | 4787.10 | 532.32S | 259.36W | 13.27 | 540.23 | 2037258.63 | 128476.65 |
| 5040.00 | 67.60 | 183.400 | 4799.01 | 558.71S | 260.95W | 12.76 | 566.66 | 2037257.04 | 128450.26 |
| 5075.00 | 72.10 | 182.800 | 4811.07 | 591.51S | 262.72W | 12.96 | 599.50 | 2037255.26 | 128417.45 |
| 5107.00 | 75.80 | 181.800 | 4819.91 | 622.24S | 263.95W | 11.95 | 630.24 | 2037254.03 | 128386.73 |
| 5135.00 | 78.90 | 181.800 | 4826.04 | 649.54S | 264.81W | 11.07 | 657.56 | 2037253.17 | 128359.42 |
| 5171.00 | 82.70 | 180.700 | 4831.80 | 685.06S | 265.58W | 10.98 | 693.09 | 2037252.40 | 128323.90 |
| 5202.00 | 86.30 | 179.600 | 4834.77 | 715.91S | 265.66W | 12.14 | 723.93 | 2037252.32 | 128293.05 |
| 5234.00 | 89.40 | 179.100 | 4835.97 | 747.88S | 265.30W | 9.81 | 755.87 | 2037252.68 | 128261.07 |
| 5362.00 | 90.30 | 179.400 | 4836.30 | 875.87S | 263.63W | 0.74 | 883.74 | 2037254.36 | 128133.08 |
| 5455.00 | 90.20 | 176.400 | 4835.90 | 968.80S | 260.22W | 3.23 | 976.52 | 2037257.77 | 128040.15 |
| 5546.00 | 90.60 | 176.500 | 4835.26 | 1059.62S | 254.58W | 0.45 | 1067.12 | 2037263.40 | 127949.32 |
| 5638.00 | 91.00 | 176.200 | 4833.98 | 1151.42S | 248.73W | 0.54 | 1158.69 | 2037269.26 | 127857.51 |
| 5731.00 | 89.70 | 176.200 | 4833.41 | 1244.22S | 242.56W | 1.40 | 1251.24 | 2037275.42 | 127764.71 |
| 5824.00 | 90.30 | 175.600 | 4833.41 | 1336.98S | 235.92W | 0.91 | 1343.75 | 2037282.07 | 127671.95 |
| 5919.00 | 90.30 | 175.800 | 4832.91 | 1431.71S | 228.79W | 0.21 | 1438.21 | 2037289.19 | 127577.21 |
| 6011.00 | 90.70 | 174.900 | 4832.11 | 1523.40S | 221.33W | 1.07 | 1529.62 | 2037296.65 | 127485.51 |
| 6104.00 | 91.20 | 174.300 | 4830.57 | 1615.98S | 212.58W | 0.84 | 1621.87 | 2037305.40 | 127392.94 |
| 6197.00 | 91.10 | 175.600 | 4828.70 | 1708.59S | 204.40W | 1.40 | 1714.19 | 2037313.59 | 127300.31 |
| 6285.00 | 91.30 | 178.300 | 4826.86 | 1796.44S | 199.72W | 3.08 | 1801.84 | 2037318.27 | 127212.46 |
| 6381.00 | 92.00 | 179.500 | 4824.09 | 1892.38S | 197.88W | 1.45 | 1897.68 | 2037320.11 | 127116.51 |
| 6476.00 | 91.60 | 178.500 | 4821.11 | 1987.32S | 196.22W | 1.13 | 1992.51 | 2037321.77 | 127021.57 |
| 6572.00 | 92.00 | 179.100 | 4818.09 | 2083.25S | 194.21W | 0.75 | 2088.33 | 2037323.78 | 126925.63 |
| 6667.00 | 89.70 | 179.200 | 4816.69 | 2178.22S | 192.80W | 2.42 | 2183.22 | 2037325.19 | 126830.66 |
| 6762.00 | 88.50 | 179.100 | 4818.18 | 2273.20S | 191.39W | 1.27 | 2278.10 | 2037326.60 | 126735.68 |
| 6858.00 | 88.70 | 178.700 | 4820.52 | 2369.15S | 189.55W | 0.47 | 2373.95 | 2037328.44 | 126639.72 |
| 6953.00 | 89.20 | 178.900 | 4822.26 | 2464.12S | 187.56W | 0.57 | 2468.80 | 2037330.43 | 126544.75 |
| 7047.00 | 88.90 | 177.800 | 4823.82 | 2558.06S | 184.85W | 1.21 | 2562.62 | 2037333.14 | 126450.80 |
| 7142.00 | 89.60 | 177.600 | 4825.07 | 2652.98S | 181.04W | 0.77 | 2657.36 | 2037336.95 | 126355.88 |
| 7237.00 | 89.80 | 177.400 | 4825.56 | 2747.88S | 176.90W | 0.30 | 2752.09 | 2037341.09 | 126260.96 |

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Slot and TVD's are from Slot ( William 3510 4-11H 0.00ft above Mean Sea Level )
Vertical Section is from 0.00N 0.00E on azimuth 181.810 degrees
Bottom hole distance is 4759.40 Feet on azimuth 181.64 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 26-Sep-2012

Standard Wellpath Report
Sandridge
Sec 11 - 35S - 10W, Kansas
Barber County
Wellbore: William 3510 4-11H (Actual)

## Wellpath (Grid) Report

| MD[ft] | Inc[deg] | Azi[deg] | TVD[ft] | North[ft] | East[ft] | Dogleg [deg/100ft] | Vertical Section[ft] | Easting | Northing |
|---|---|---|---|---|---|---|---|---|---|
| 7334.00 | 91.00 | 177.300 | 4824.89 | 2844.78S | 172.41W | 1.24 | 2848.80 | 2037345.58 | 126164.07 |
| 7428.00 | 91.30 | 176.500 | 4823.00 | 2938.62S | 167.33W | 0.91 | 2942.43 | 2037350.66 | 126070.22 |
| 7523.00 | 90.30 | 177.400 | 4821.67 | 3033.47S | 162.28W | 1.42 | 3037.08 | 2037355.71 | 125975.36 |
| 7619.00 | 90.40 | 180.400 | 4821.09 | 3129.44S | 160.43W | 3.13 | 3132.94 | 2037357.56 | 125879.38 |
| 7713.00 | 90.50 | 179.800 | 4820.35 | 3223.44S | 160.60W | 0.65 | 3226.90 | 2037357.39 | 125785.38 |
| 7808.00 | 90.60 | 179.400 | 4819.44 | 3318.43S | 159.93W | 0.43 | 3321.82 | 2037358.06 | 125690.38 |
| 7902.00 | 88.50 | 178.700 | 4820.17 | 3412.41S | 158.38W | 2.35 | 3415.71 | 2037359.61 | 125596.40 |
| 7997.00 | 88.40 | 179.600 | 4822.74 | 3507.36S | 156.97W | 0.95 | 3510.57 | 2037361.02 | 125501.44 |
| 8091.00 | 88.60 | 180.400 | 4825.20 | 3601.33S | 156.97W | 0.88 | 3604.49 | 2037361.02 | 125407.47 |
| 8186.00 | 88.60 | 180.100 | 4827.53 | 3696.30S | 157.38W | 0.32 | 3699.43 | 2037360.61 | 125312.49 |
| 8281.00 | 88.90 | 179.900 | 4829.60 | 3791.28S | 157.38W | 0.38 | 3794.36 | 2037360.61 | 125217.51 |
| 8376.00 | 88.80 | 178.900 | 4831.50 | 3886.25S | 156.39W | 1.06 | 3889.25 | 2037361.60 | 125122.53 |
| 8473.00 | 90.40 | 179.300 | 4832.18 | 3983.24S | 154.86W | 1.70 | 3986.14 | 2037363.13 | 125025.54 |
| 8568.00 | 90.90 | 178.200 | 4831.10 | 4078.21S | 152.79W | 1.27 | 4080.99 | 2037365.20 | 124930.57 |
| 8664.00 | 91.30 | 177.300 | 4829.26 | 4174.11S | 149.02W | 1.03 | 4176.74 | 2037368.97 | 124834.66 |
| 8759.00 | 91.60 | 177.500 | 4826.86 | 4268.98S | 144.72W | 0.38 | 4271.42 | 2037373.28 | 124739.78 |
| 8854.00 | 90.40 | 179.200 | 4825.20 | 4363.93S | 141.98W | 2.19 | 4366.23 | 2037376.01 | 124644.83 |
| 8949.00 | 90.10 | 180.300 | 4824.78 | 4458.92S | 141.57W | 1.20 | 4461.17 | 2037376.43 | 124549.83 |
| 9044.00 | 89.30 | 179.400 | 4825.28 | 4553.92S | 141.32W | 1.27 | 4556.11 | 2037376.67 | 124454.83 |
| 9139.00 | 85.90 | 178.600 | 4829.26 | 4648.81S | 139.66W | 3.68 | 4650.90 | 2037378.33 | 124359.94 |
| 9200.00 | 85.60 | 178.100 | 4833.78 | 4709.61S | 137.91W | 0.95 | 4711.62 | 2037380.08 | 124299.13 |
| 9248.00 | 85.60 | 178.100 | 4837.46 | 4757.45S | 136.32W | ==> | 4759.38 | 2037381.67 | 124251.29 |

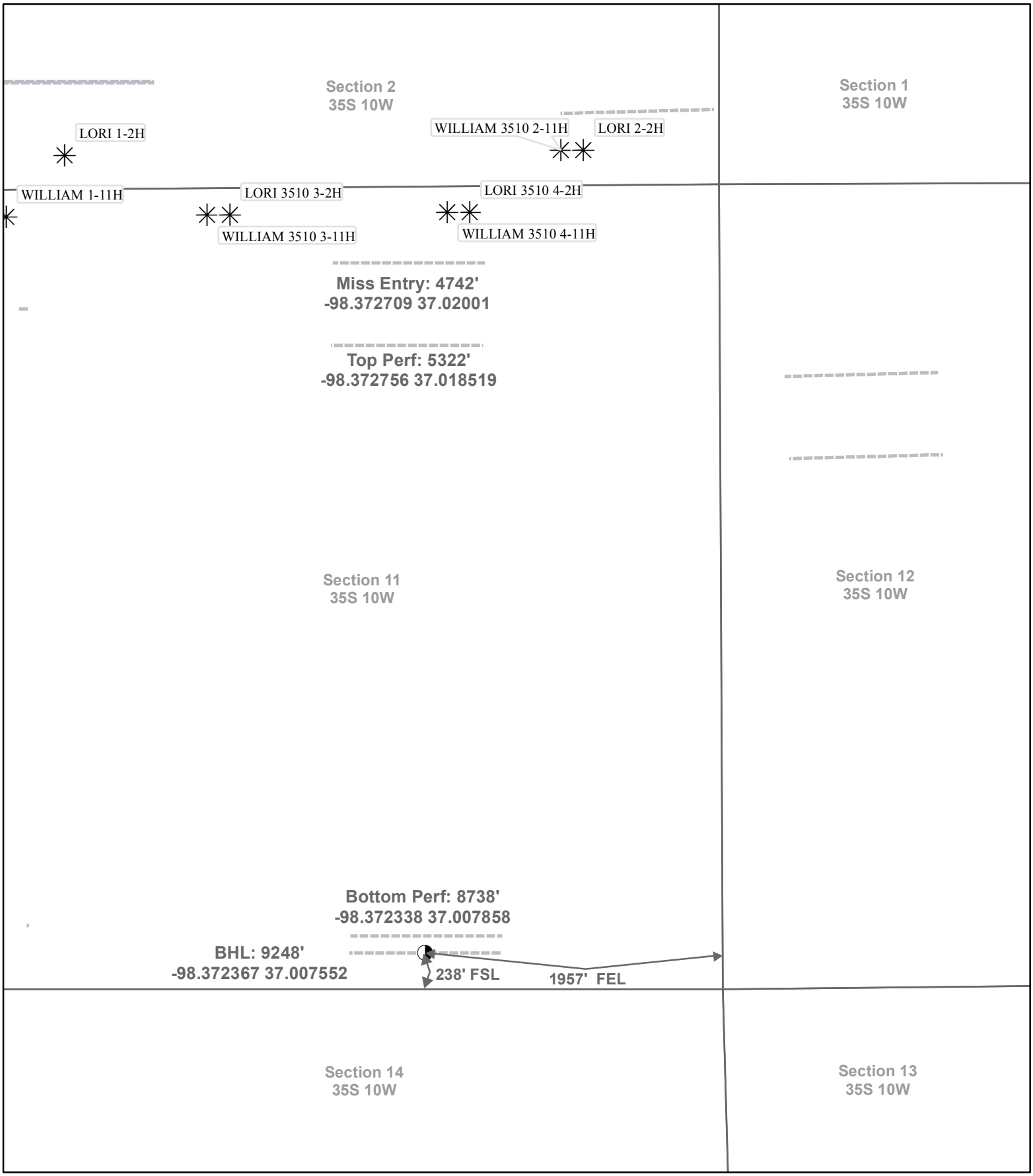
All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Slot and TVD's are from Slot ( William 3510 4-11H 0.00ft above Mean Sea Level )
Vertical Section is from 0.00N 0.00E on azimuth 181.810 degrees
Bottom hole distance is 4759.40 Feet on azimuth 181.64 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 26-Sep-2012

Standard Wellpath Report
Sandridge
Sec 11 - 35S - 10W, Kansas
Barber County
Wellbore: William 3510 4-11H (Actual)

## Comments

| MD[ft] | TVD[ft] | North[ft] | East[ft] | Comment |
|---|---|---|---|---|
| 9248.00 | 4837.46 | 4757.45S | 136.32W | MD 9248 is a projection to bit @ TD |

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Slot and TVD's are from Slot ( William 3510 4-11H 0.00ft above Mean Sea Level )
Vertical Section is from 0.00N 0.00E on azimuth 181.810 degrees
Bottom hole distance is 4759.40 Feet on azimuth 181.64 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 26-Sep-2012




SANDRIDGE
THE POWER OF US

Actual BH Location

SandRidge Wells

Perf

Sections

**Actual Bottom-Hole Location of William 3510 4-11H**
**Barber County, Kansas**
**T&R: 33S 10W**
**Section: 11, 1957' FEL & 238' FSL**
**Long/Lat: -98.372367 37.007552**

1 in = 833 ft

0 625 1,250 2,500 Feet

N

| | |
|---|---|
| Draftsman: Aaron Birk | Draft Date: 12/18/2012 |
| Drawing Name/Number: Addendum_William_4-11H.mxd | |
| Coordinate System: NAD 1927 State Plane Kansas South FIPS: 1502 | |

Logo

Back to Well Completion

# William 3510 4-11H (1094948)

Actions

| |
|---|
| View PDF |
| Delete |
| Edit |
| Certify & Submit |
| Request Confidentiality |

Attachments

| | |
|---|---|
| Two Year Confidentiality<br>OPERATOR | View PDF<br>Delete |
| Cement Reports<br>OPERATOR | View PDF<br>Delete |
| Directional Survey<br>OPERATOR | View PDF<br>Delete |
| As Drilled Plat<br>OPERATOR | View PDF<br>Delete |

Add Attachment

Remarks

| | |
|---|---|
| Remarks to KCC | |

Add Remar

Remarks

| | |
|---|---|
| Tiffany Golay<br>12/03/012 10:48 am | Conductor weight= 75 lbs/ft |