



**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

Confidentiality Requested:

Yes  No

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

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 #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE     NW     SE     SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_

(e.g. xx.xxxxx)

(e.g. -xxx.xxxxx)

Datum:  NAD27     NAD83     WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ 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: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1234639

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*  
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*  
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

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

TUBING RECORD: Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Perth 3302 2-1H
Doc ID	1234639

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	4082-4084	Slickwater & HEFE HCL 15% Acid Frac	4082-8168
5	4279-4281		
5	4341-4343		
5	4734-4736		
5	4806-4808		
5	4867-4869		
5	4916-4918		
5	4964-4966		
5	5029-5031		
5	5101-5103		
5	5150-5152		
5	5221-5223		
5	5298-5300		
5	5358-5360		
5	5436-5438		
5	5508-5510		
5	5573-5575		
5	5652-5654		
5	5730-5732		
5	5778-5780		
5	5858-5860		
5	5933-5935		
5	6000-6002		

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Perth 3302 2-1H
Doc ID	1234639

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	6061-6063		
5	6104-6106		
5	6236-6238		
5	6285-6287		
5	6349-6351		
5	6428-6430		
5	6495-6497		
5	6582-6584		
5	6647-6649		
5	6718-6720		
5	6811-6813		
5	6898-6900		
5	6942-6944		
5	7001-7003		
5	7087-7089		
5	7152-7154		
5	7224-7226		
5	7304-7306		
5	7372-7374		
5	7454-7456		
5	7522-7524		
5	7605-7607		
5	7670-7672		
5	7751-7753		

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Perth 3302 2-1H
Doc ID	1234639

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	7821-7823		
5	7882-7884		
5	7948-7950		
5	8018-8020		
5	8098-8100		
5	8166-8168		



# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	4/26/2014
Job End Date:	4/28/2014
State:	Kansas
County:	Sumner
API Number:	15-191-22718-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Perth 3302 #2-1H
Longitude:	-97.47702560
Latitude:	37.20148800
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	3,966
Total Base Water Volume (gal):	2,462,446
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	Well Operator	Carrier/Base Fluid	Water	7732-18-5	100.00000	95.63472	None
40/70 Premium Preferred Sand	Cimarron Acid	Proppant, Scouring, Fill	Crystalline Silica (quartz)	14808-60-7	100.00000	3.12746	None
15% Unihibited HCl Acid	Cimarron Acid	Etching, Dissolving, Cleaning	Water	7732-18-5	85.00000	0.63878	None
			Hydrochloric Acid	7647-01-0	15.00000	0.11273	None
			Water	7732-18-5	24.00000	0.00015	None
			Methanol	67-56-1	9.00000	0.00006	None
			Triethyl Phosphate	78-40-0	8.40000	0.00005	None
			Ethoxylated Nonylphenol	68412-54-4	8.40000	0.00005	None
			Isopropyl Alcohol	67-63-0	8.40000	0.00005	None
			2-Butoxyethanol	111-76-2	8.40000	0.00005	None
			Tar Bases-quinoline derivs-benzyl chloride/quaternized	72480-70-7	8.40000	0.00005	None
			Cinnamaldehyde	104-55-2	8.40000	0.00005	None
			N-Dimethylformamide	68-12-2	8.40000	0.00005	None
			Ethylene Glycol	107-21-1	8.40000	0.00005	None

40/70 Resin Coated Sand	Cimarron Acid	Proppant, Scouring, Fill					
			Crystalline Silica (quartz)	14808-60-7	97.00000	0.34751	None
Iron Control, Sodium Erythorbate	Cimarron Acid	Iron Control					
			Water	7732-18-5	55.50000	0.02530	None
			Methanol	67-56-1	12.70000	0.00581	None
			Dinanylphenyl Polyoxyethylene	201602-88-2	9.10000	0.00415	None
			Poly(ethylene Oxide)	25322-68-3	9.10000	0.00415	None
			Nonylphenal Polyethylene Glycol Ether	127087-87-0	9.10000	0.00415	None
			Isopropanol	67-63-0	4.60000	0.00208	None
			Sodium Erythorbate	6381-77-7	100.00000	0.00025	None
			Water	7732-18-5	54.50000	0.00018	None
			Polyglycol Ethers	52624-57-4	13.60000	0.00005	None
			Isopropanol	67-63-0	13.60000	0.00005	None
			Methanol	67-56-1	9.00000	0.00003	None
			Glycol Ether EB	111-76-2	9.00000	0.00003	None
FR-986, Cationic Friction Reducer	Cimarron Acid	Friction Reducer					
			Water	7732-18-5	50.00000	0.00492	None
			Petroleum Hydrotreated Light Distillate	64742-47-8	2.50000	0.00178	None
			Phosphoric Acid	7664-38-2	16.80000	0.00165	None
			Hydrochloric Acid	7647-01-0	16.80000	0.00165	None
			Ethylene Glycol	107-21-1	12.70000	0.00125	None
			Methanol	67-56-1	3.60000	0.00036	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.

\* 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)



## Summary of Changes

Lease Name and Number: Perth 3302 2-1H

API/Permit #: 15-191-22718-01-00

Doc ID: 1234639

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	06/04/2014	12/10/2014
Date of First or Resumed Production or SWD or Enhr		07/27/2014
Disposition Of Gas - Vented	No	Yes
Fracturing Question 2	No	Yes
Fracturing Question 3		Yes
Method Of Completion - Perf	No	Yes
Producing Method Other	No	Yes
Producing Method Other Detail		ESP
Producing Method Pumping	No	Yes
Production - Barrels Oil		41

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Production - Barrels of Water		4232
Production - MCF Gas		260
Production Interval #1		4082-8168
Purchaser's Name		Oil = CVR Gas = Flare
Save Link	../../../../kcc/detail/operatorEditDetail.cfm?docID=1207910	../../../../kcc/detail/operatorEditDetail.cfm?docID=1234639
Total Depth	8262	4620
Well Type	SIGW	OIL

## Summary of Attachments

Lease Name and Number: Perth 3302 2-1H

API: 15-191-22718-01-00

Doc ID: 1234639

Correction Number: 1

Attachment Name



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1207910  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

**CONFIDENTIAL** WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

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 #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27     NAD83     WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ 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: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**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](mailto: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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Perth 3302 2-1H
Doc ID	1207910

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	4082-4084		
5	4279-4281		
5	4341-4343		
5	4734-4736		
5	4806-4808		
5	4867-4869		
5	4916-4918		
5	4964-4966		
5	5029-5031		
5	5101-5103		
5	5150-5152		
5	5221-5223		
5	5298-5300		
5	5358-5360		
5	5436-5438		
5	5508-5510		
5	5573-5575		
5	5652-5654		
5	5730-5732		
5	5778-5780		
5	5858-5860		
5	5933-5935		
5	6000-6002		
5	6061-6063		

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Perth 3302 2-1H
Doc ID	1207910

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	6104-6106		
5	6236-6238		
5	6285-6287		
5	6349-6351		
5	6428-6430		
5	6495-6497		
5	6582-6584		
5	6647-6649		
5	6718-6720		
5	6811-6813		
5	6898-6900		
5	6942-6944		
5	7001-7003		
5	7087-7089		
5	7152-7154		
5	7224-7226		
5	7304-7306		
5	7372-7374		
5	7454-7456		
5	7522-7524		
5	7605-7607		
5	7670-7672		
5	7751-7753		
5	7821-7823		

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Perth 3302 2-1H
Doc ID	1207910

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	7882-7884		
5	7948-7950		
5	8018-8020		
5	8098-8100		
5	8166-8168		







SandRidge Energy  
Perth 3302 #2-1H surface  
Sumner County, KS.

## 1.0 Executive Summary

Allied Oil & Gas Services would like to thank you for the award of the provision of cementing products and services on the well Perth 3302 #2-1H Surface Casing.

A pre-job meeting was held to discuss job details, review the safety hazards, potential environmental impact and established emergency procedures.

Allied started the job testing lines to 2000 psi. After a successful test we began the job by pumping 5 bbls of preflush spacer. We then mixed and pumped the following cements:

39 Bbls (180 sacks) of 15.6 ppg slurry:  
Class A - 1.20 Yield  
2.0% cc  
1/4# floreal

The top plug was then released and displaced with 16Bbls of fresh water. The plug bumped and pressured up to 1000 psi. Pressure was released and floats held.

All real time data is shown on the graph in the attachment section.

Allied Oil & Gas Services remains committed to provide operational excellence and superior product performance. All comments and suggestions are greatly appreciated and help us to continue to provide this level of service.

Again we want to thank you for the opportunity to perform these and your future cementing & acidizing service needs.



SandRidge Energy  
Perth #3302 2-1H  
Sumner County, KS.

## 1.0 Executive Summary

Allied Oil & Gas Services would like to thank you for the award of the provision of cementing products and services on the well Perth #3302 2-1H Intermediate Casing.

A pre-job meeting was held to discuss job details, review the safety hazards, potential environmental impact and established emergency procedures.

Allied started the job testing lines to 3000 psi. After a successful test we began the job by pumping 30 bbls of preflush spacer. We then mixed and pumped the following cements:

60 Bbls (240 sacks) of 13.6 ppg Lead slurry:  
50:50 Class A:Poz Blend - 1.4 Yield  
2.0% Gel  
0.4% FL-160  
0.1% SA-51

21Bbls (100 sacks) of 15.6 ppg Tail slurry:  
Class A - 1.18 Yield  
0.8% FL-160  
0.2% CD-31

The top plug was then released and displaced with 176.5 Bbls of fresh water. The plug bumped and pressured up to 1250 psi. Pressure was released and floats held.

All real time data is shown on the graph in the attachment section.

Allied Oil & Gas Services remains committed to provide operational excellence and superior product performance. All comments and suggestions are greatly appreciated and help us to continue to provide this level of service.

Again we want to thank you for the opportunity to perform these and your future cementing & acidizing service needs.



**BASIN SERVICES, LLC**  
 P O BOX 4268  
 ABILENE, TX 79608-4268  
 Phone # (325)690-0053  
 Fax # (325)698-0055

# TICKET

TICKET NUMBER: WY-228-1  
 TICKET DATE: 02/01/2014

**ELECTRONIC**

SANDRIDGE ENERGY  
 \*\*\*\*\* BILL IN ADP!! \*\*\*\*\*  
 123 ROBERT S KERR AVE  
 OKLAHOMA CITY, OK 73102-6406

YARD: WY WAYNOKA OK  
 LEASE: Perth 3302  
 WELL#: 2-1H  
 RIG #: Nomac 52  
 Co/St: SUMNER, KS

DESCRIPTION	QUANTITY	RATE	AMOUNT
1/30-2/1/2014 DRILLED 30" CONDUCTOR HOLE			
1/30-2/1/2014 20" CONDUCTOR PIPE (.250 WALL)			
1/30-2/1/2014 6' X 6' CELLAR TINHORN WITH PROTECTIVE RING			
1/30-2/1/2014 DRILL & INSTALL 6' X 6' CELLAR TINHORN			
1/30-2/1/2014 MOBILIZATION OF EQUIPMENT & ROAD PERMITTING FEE			
1/30-2/1/2014 WELDING SERVICES FOR PIPE & LIDS			
1/30-2/1/2014 PROVIDED EQUIPMENT & LABOR TO ASSIST IN PUMPING CONCRETE			
1/30-2/1/2014 PROVIDED METAL LIDS (1 FOR CONDUCTOR & 2 FOR MOUSEHOLE PIPE)			
1/30-2/1/2014 9 YDS OF 10 SACK GROUT			
1/30-2/1/2014 TAXABLE ITEMS			4,440.00
1/30-2/1/2014 BID - TAXABLE ITEMS			12,810.00
		Sub Total:	17,250.00
		Tax SUMNER COUNTY (6.65 %):	295.26
		TICKET TOTAL:	<u>\$ 17,545.26</u>

I, the undersigned, acknowledge the acceptance of the above listed goods and/or services.

Approved Signature \_\_\_\_\_



Perth 3302 2-1H

Company Name : SandRidge Energy

Map Units : US ft

Vertical Reference Datum (VRD) : Mean Sea Level

Projected Coordinate System : NAD27 / Kansas South

Comment :

Field Name

SandRidge Energy -  
Sumner County, KS S  
NAD 27 US FT

Units : US ft

North Reference : Grid

Convergence Angle : 0.63

Northing : 196373.00 US ft

Latitude : 37° 12' 5.36"

Easting : 2297956.00 US ft

Longitude : -97° 28' 37.30"

Position

Elevation above Mean Sea Level:1234.00 US ft

Comment :

Site Name

Perth 3302 2-1H

+N / -S : 0.00 US ft

Northing :196373.00 US ft

Position (Offsets relative to Site Centre)

Latitude : 37°12'5.36"

+E / -W : 0.00 US ft

Easting :2297956.00 US ft

Longitude : -97°28'37.30"

Slot TVD Reference : Ground Elevation

Elevation above Mean Sea Level : 1234.00 US ft

Comment :

Slot Name

Perth 3302 2-1H

Type : Main well

Rig Height *Drill Floor* : 19.00 US ft

Relative to Mean Sea Level: 1253.00 US ft

Closure Distance : 4620.22 US ft

UWI :

Comment :

Closure Azimuth : 357.159°

Well Name

Perth 3302 2-1H

**Vertical Section (Position of Origin Relative to Site )**

+N / -S : 0.00 US ft      +E / -W : 0.00 US ft      Az :357.30°

**Target Set**

Name : Perth 3302 2-H - T1      Number of Targets : 1

**Comment :**

<b>TargetName:</b> PBHL	<b>Position (Relative to Site centre)</b> Latitude : 37°12'51.11" Longitude : -97°28'39.37"
<b>Shape:</b> Cuboid	<b>Northing :</b> 200998.00 US ft <b>Easting :</b> 2297738.00US ft
	<b>TVD (Drill Floor) :</b> 3973.00 US ft
	<b>SS :</b> -2720.00 US ft
<b>Orientation</b>	<b>Inclination :</b> 0.00°
<b>Dimensions</b>	<b>Breadth :</b> 0.00 US ft
	<b>Height :</b> 0.00 US ft
	<b>Length :</b> 0.00 US ft
	<b>Azimuth :</b> 0.00°

**Survey Name :Definitive Survey**

Date : 13/Feb/2014      Survey Tool :      Comment :      Company :

**Magnetic Model**

Model Name: IGRF      Date: 07/Jan/2014      Field Strength: 51774.1 nT      Declination: 4.03°      Dip: 65.32°

**Survey Tool Ranges**

Name      Start MD (usft)      End MD (us ft)      Source Survey

MWD	0.00	8262.00	WFT MWD Surveys
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**Well path created using minimum curvature**

MD (US ft)	Inc (°)	centre, TVD relative to Drill Floor)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Comment
0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	
250.00	0.40		168.42	250.00	-0.85	0.18	-0.86	0.16	
477.00	0.35		168.42	476.99	-2.31	0.47	-2.33	0.02	
1044.00	0.36		220.95	1043.98	-5.35	-0.35	-5.33	0.06	
1589.00	0.38		120.95	1588.98	-7.57	0.08	-7.57	0.10	
2016.00	0.60		141.35	2015.96	-10.05	2.69	-10.16	0.06	
2390.00	0.58		166.92	2389.94	-13.42	4.34	-13.61	0.07	
2767.00	0.88		337.82	2766.93	-12.60	3.68	-12.76	0.39	
3145.00	0.43		319.56	3144.91	-8.83	1.67	-8.90	0.13	
3177.00	0.35		321.46	3176.90	-8.66	1.53	-8.73	0.25	First WFT MWD Survey

5D Survey Report

Survey Points (Relative to Site centre, TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	US (US ft)	DLS (%100 US ft)	DLS (%100 US ft)	Comment	
3209.00	1.99	338.84	3208.90	-8.07	1.27	-8.12	5.19			
3241.00	4.24	351.45	3240.85	-6.38	0.89	-6.42	7.31			
3272.00	6.35	354.16	3271.71	-3.54	0.54	-3.56	6.85			
3303.00	8.58	354.24	3302.45	0.46	0.14	0.46	7.19			
3335.00	11.13	355.21	3333.97	5.92	-0.36	5.93	7.99			
3366.00	13.64	355.67	3364.25	12.54	-0.89	12.57	8.10			
3398.00	15.91	355.94	3395.19	20.68	-1.48	20.73	7.10			
3430.00	18.29	354.53	3425.77	30.06	-2.27	30.13	7.55			
3461.00	20.84	351.14	3454.98	40.35	-3.58	40.47	9.00			
3493.00	23.27	349.94	3484.64	52.20	-5.56	52.40	7.72			
3525.00	25.96	349.75	3513.73	65.32	-7.92	65.62	8.41			
3556.00	28.31	349.52	3541.31	79.23	-10.46	79.63	7.59			
3588.00	30.39	349.57	3569.20	94.65	-13.31	95.17	6.50			
3620.00	32.14	350.35	3596.56	111.00	-16.20	111.64	5.61			
3651.00	34.07	351.31	3622.52	127.72	-18.89	128.46	6.45			
3682.00	35.90	352.30	3647.92	145.31	-21.42	146.16	6.18			
3714.00	38.45	352.27	3673.42	164.47	-24.02	165.42	7.97			
3746.00	40.53	353.13	3698.11	184.65	-26.60	185.70	6.72			
3777.00	43.25	352.79	3721.19	205.19	-29.14	206.34	8.80			
3809.00	46.31	352.47	3743.90	227.54	-32.03	228.80	9.59			
3840.00	48.10	351.65	3764.96	250.07	-35.18	251.45	6.09			
3873.00	50.15	351.18	3786.55	274.74	-38.90	276.27	6.30			
3904.00	52.49	350.57	3805.92	298.63	-42.74	300.32	7.70			
3935.00	54.83	350.64	3824.29	323.27	-46.82	325.12	7.55			
3967.00	57.46	351.08	3842.12	349.50	-51.04	351.52	8.30			
3998.00	60.21	351.33	3858.16	375.72	-55.09	377.89	8.90			
4030.00	63.49	351.99	3873.25	403.63	-59.18	405.97	10.41			
4061.00	66.65	352.01	3886.32	431.46	-63.09	433.96	10.19			
4093.00	69.13	351.90	3898.36	460.82	-67.24	463.47	7.76			
4124.00	71.35	352.18	3908.84	489.71	-71.28	492.52	7.21			
4156.00	72.83	351.65	3918.68	519.85	-75.56	522.84	4.89			
4187.00	74.58	351.73	3927.38	549.29	-79.86	552.45	5.65			
4219.00	76.59	351.64	3935.35	579.96	-84.35	583.29	6.29			
4251.00	78.96	352.13	3942.12	610.92	-88.76	614.42	7.56			
4282.00	80.94	352.47	3947.53	641.17	-92.85	644.83	6.48			
4314.00	83.13	352.84	3951.97	672.60	-96.90	676.41	6.94			
4345.00	85.80	353.06	3954.96	703.21	-100.69	707.18	8.64			
4376.00	86.85	353.45	3956.94	733.94	-104.32	738.04	3.61			
4408.00	87.13	353.85	3958.62	765.70	-107.85	769.93	1.52			
4439.00	87.55	353.76	3960.06	796.48	-111.20	800.84	1.39			
4471.00	87.76	353.72	3961.37	828.26	-114.68	832.75	0.67			

5D Survey Report

Survey Points (Relative to Site centre, TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (%100 US ft)	Comment		
4502.00	87.97	353.79	3962.53	859.06	-118.05	863.67	0.71			
4534.00	88.18	353.70	3963.60	890.85	-121.54	895.59	0.71			
4565.00	88.53	353.84	3964.49	921.65	-124.90	926.52	1.22			
4597.00	88.95	353.98	3965.19	953.47	-128.29	958.45	1.38			
4628.00	89.09	353.71	3965.73	984.28	-131.62	989.39	0.98			
4660.00	89.51	354.45	3966.12	1016.11	-134.92	1021.34	2.66			
4757.00	90.07	354.14	3966.47	1112.63	-144.56	1118.20	0.66			
4789.00	89.79	354.00	3966.51	1144.46	-147.87	1150.15	0.98			
4853.00	90.35	353.87	3966.43	1208.10	-154.63	1214.04	0.90			
4916.00	90.07	354.03	3966.20	1270.75	-161.27	1276.93	0.51			
4979.00	90.35	354.32	3965.97	1333.42	-167.66	1339.84	0.64			
5042.00	90.00	355.66	3965.78	1396.18	-173.16	1402.79	2.20			
5104.00	89.30	356.47	3966.16	1458.03	-177.42	1464.77	1.73			
5167.00	88.67	358.03	3967.27	1520.95	-180.44	1527.76	2.67			
5230.00	89.02	0.15	3968.54	1583.92	-181.44	1590.71	3.41			
5293.00	89.23	0.04	3969.51	1646.91	-181.34	1653.63	0.38			
5356.00	89.23	1.24	3970.35	1709.90	-180.63	1716.51	1.90			
5420.00	89.72	1.52	3970.94	1773.88	-179.09	1780.35	0.88			
5483.00	89.02	1.28	3971.63	1836.86	-177.55	1843.18	1.17			
5546.00	89.51	1.73	3972.44	1899.83	-175.90	1906.01	1.06			
5609.00	90.14	2.34	3972.63	1962.79	-173.66	1968.79	1.39			
5672.00	89.02	1.14	3973.09	2025.76	-171.75	2031.60	2.61			
5735.00	89.23	0.80	3974.06	2088.74	-170.68	2094.46	0.63			
5798.00	88.74	0.71	3975.17	2151.73	-169.85	2157.34	0.79			
5861.00	89.58	359.96	3976.10	2214.72	-169.48	2220.24	1.79			
5924.00	90.56	359.19	3976.02	2277.71	-169.95	2283.19	1.98			
5988.00	90.77	359.43	3975.28	2341.70	-170.72	2347.15	0.50			
6051.00	90.42	359.57	3974.62	2404.70	-171.27	2410.10	0.60			
6113.00	90.56	359.60	3974.09	2466.69	-171.72	2472.05	0.23			
6176.00	90.28	359.22	3973.63	2529.69	-172.37	2535.00	0.75			
6239.00	90.63	359.79	3973.13	2592.68	-172.91	2597.95	1.06			
6301.00	89.58	358.48	3973.02	2654.68	-173.85	2659.92	2.71			
6365.00	90.21	358.76	3973.13	2718.66	-175.39	2723.90	1.08			
6428.00	88.81	358.36	3973.67	2781.63	-176.97	2786.88	2.31			
6491.00	91.12	358.03	3973.71	2844.60	-178.96	2849.87	3.70			
6553.00	91.47	357.51	3972.31	2906.53	-181.37	2911.85	1.01			
6616.00	90.98	357.31	3970.96	2969.45	-184.21	2974.84	0.84			
6679.00	89.72	357.17	3970.58	3032.38	-187.25	3037.83	2.01			
6742.00	90.70	356.88	3970.35	3095.29	-190.52	3100.83	1.62			
6805.00	91.40	356.63	3969.19	3158.18	-194.08	3163.82	1.18			
6868.00	91.05	357.59	3967.84	3221.09	-197.26	3226.80	1.62			

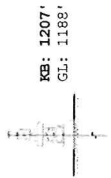


5D Survey Report

Survey Points (Relative to Site centre, TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	AZ (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	DLS (°/100 US ft)	Comment	
6930.00	90.84	358.17	3966.82	3283.03	-199.55	3288.79	0.99			
6993.00	88.88	357.58	3966.98	3345.99	-201.89	3351.78	3.25			
7055.00	89.30	358.09	3967.96	3407.94	-204.23	3413.77	1.07			
7118.00	90.42	359.17	3968.11	3470.92	-205.74	3476.75	2.47			
7182.00	90.42	359.35	3967.65	3534.91	-206.56	3540.71	0.28			
7245.00	90.00	358.68	3967.41	3597.90	-207.65	3603.69	1.26			
7308.00	90.00	359.34	3967.41	3660.89	-208.73	3666.66	1.05			
7371.00	88.46	359.67	3968.26	3723.88	-209.28	3729.60	2.50			
7434.00	89.93	359.90	3969.15	3786.87	-209.51	3792.54	2.36			
7497.00	89.72	359.49	3969.34	3849.87	-209.85	3855.48	0.73			
7560.00	90.00	358.92	3969.49	3912.86	-210.72	3918.44	1.01			
7623.00	91.05	358.29	3968.92	3975.84	-212.26	3981.42	1.94			
7687.00	90.63	358.36	3967.98	4039.80	-214.13	4045.41	0.67			
7750.00	89.44	359.05	3967.94	4102.79	-215.55	4108.39	2.18			
7813.00	90.98	359.34	3967.71	4165.78	-216.44	4171.35	2.49			
7876.00	91.26	359.75	3966.48	4228.76	-216.94	4234.29	0.79			
7939.00	90.07	359.10	3965.74	4291.76	-217.57	4297.24	2.15			
8002.00	89.51	358.42	3965.98	4354.74	-218.93	4360.22	1.40			
8066.00	89.37	357.81	3966.60	4418.70	-221.04	4424.21	0.98			
8129.00	90.35	357.75	3966.76	4481.65	-223.48	4487.21	1.56			
8202.00	90.28	357.56	3966.35	4554.59	-226.47	4560.20	0.28		Last WFT MWD Survey	
8262.00	90.28	357.56	3966.06	4614.54	-229.02	4620.20	0.00		Proj. to TD	



Perth 3302 2-1H  
 Nomac 52  
 Sumner County, KS  
 X= 2297956.00'  
 Y= 196373.00'  
 Plan 1 vs Actual



**Plan Data for Perth 3302 2-1H**

DogLeg Severity Unit: °/100.00ft

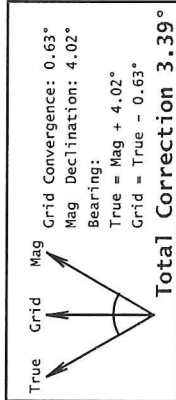
Az	TVD	+N/-S	+E/-W	VSec	DLS	Toolface
(USft)	(°)	(USft)	(USft)	(USft)	(DLSU)	(°)
0.00	0.00	0.00	0.00	0.00	0.00	0.0
3247.13	0.00	0.00	3247.13	0.00	0.00	0.0
4347.14	88.00	351.27	3962.90	683.20	-104.87	8.00
4597.14	88.00	351.27	3971.62	930.16	-142.78	935.85
4676.11	90.00	358.92	3973.00	1008.77	-149.53	1014.69
8292.99	90.00	358.92	3973.00	4625.00	-218.00	4630.13

Target Set Information:

Name	TVD	Northing	Easting	Lat	Long
(USft)	(USft)	(USft)	(USft)	(°/'/'")	(°/'/'")
PBHL 3973.00	200998.00	2297738.00	37°12'51.1"	-97°28'39.4"	

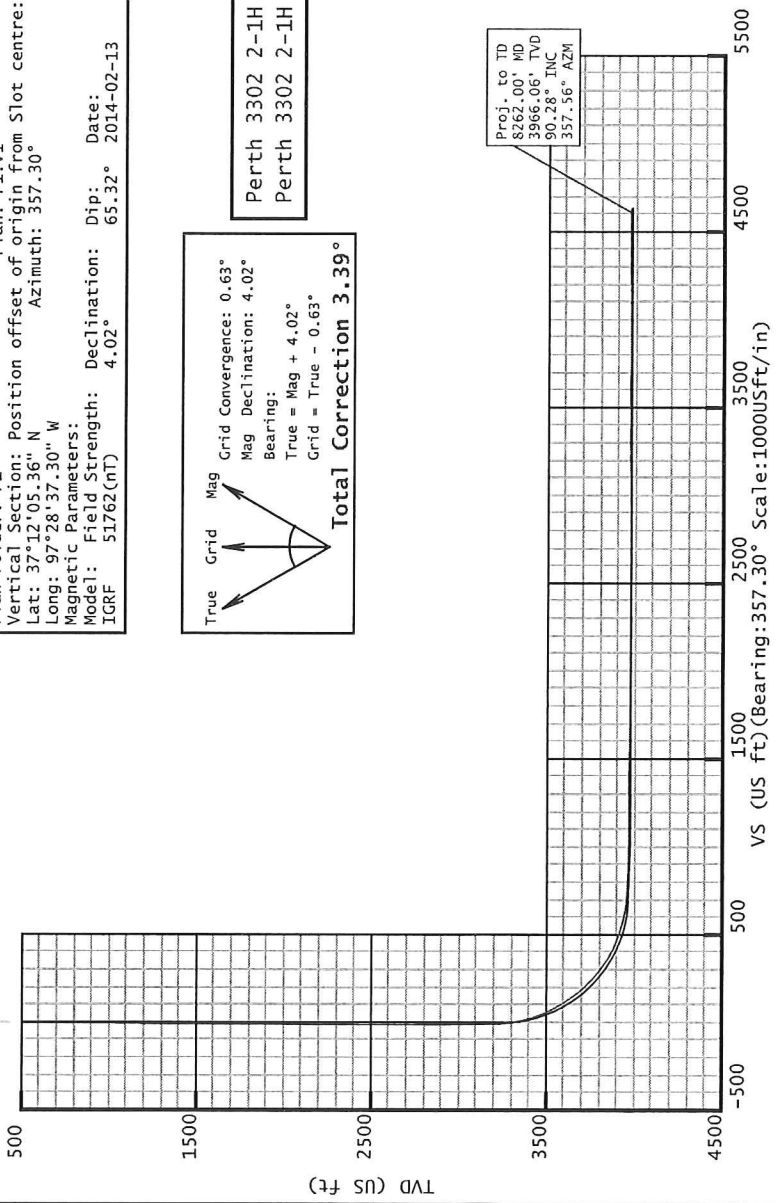
Field: SandRidge Energy - Sumner County, KS S NAD 27 US FT  
 Map Unit: USFT  
 Projected Coordinate System: NAD27 / Kansas South

Well: Perth 3302 2-1H  
 Type: Main-Well  
 File Number:  
 Plan Folder: P1  
 Vertical Section: Position offset of origin from Slot centre:  
 Lat: 37°12'50.36" N  
 Long: 97°28'37.30" W  
 Magnetic Parameters:  
 Model: Field Strength: 4.02° Declination: 65.32° Dip: Date: 2014-02-13  
 IGRF 51762(nT)

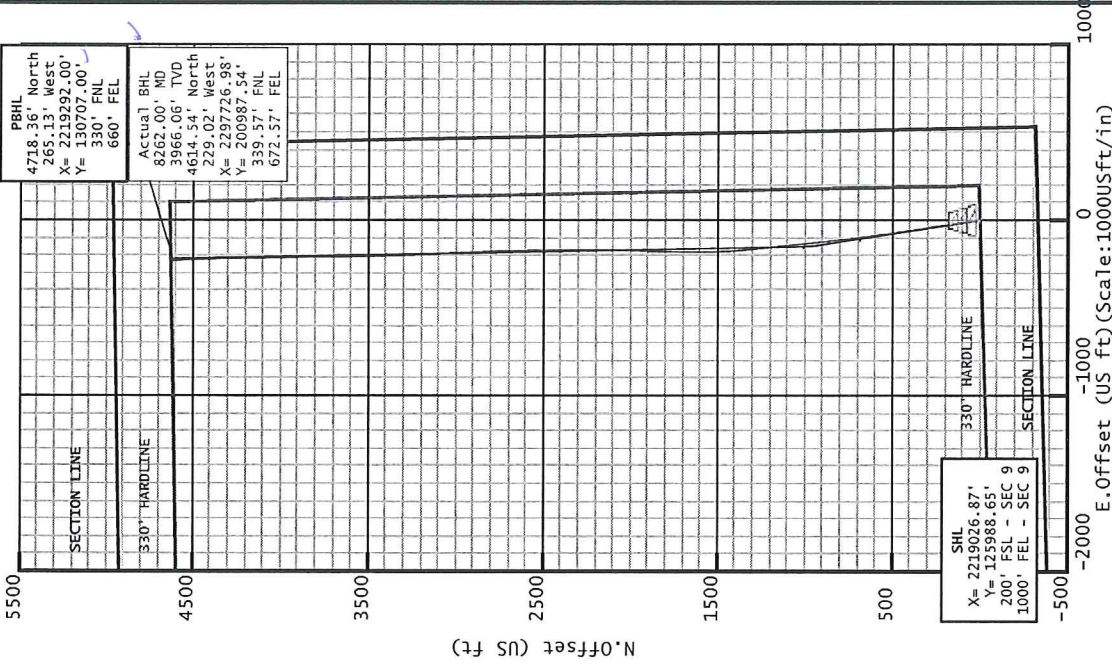


Perth 3302 2-1H  
 Perth 3302 2-1H Actual

Proj. to TD  
 8262.00' MD  
 3966.06' TVD  
 90.28° INC  
 357.56° AZM



**Vertical Section 357.30° AZM**



PBHL  
 4718.36' North  
 265.13' West  
 X= 2219292.00'  
 Y= 130707.00'  
 330' FNL  
 660' FEL

Actual BHL  
 8262.00' MD  
 3966.06' TVD  
 4614.54' North  
 229.02' West  
 X= 2297726.98'  
 Y= 200987.54'  
 339.57' FNL  
 672.57' FEL

SHL  
 X= 2219026.87'  
 Y= 125988.65'  
 200' FSL - SEC 9  
 1000' FEL - SEC 9



Planned By: Gary Rhodes Date: 02/13/2014  
 Weatherford Drilling Services  
 6525 N. Meridian, Ste. #201  
 Oklahoma City, OK 73116  
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 +1.405.773.1887 Fax