



Confidentiality Requested:

Yes  No

# KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1148476

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 # \_\_\_\_\_

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

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: \_\_\_\_\_



1148476

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: <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

<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> <i>(Submit ACO-4)</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	Yazel 3510 2-3H
Doc ID	1148476

All Electric Logs Run

Prizm Log
Induction
Boresight
Density
Mud Log

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Yazel 3510 2-3H
Doc ID	1148476

Tops

Name	Top	Datum
Base Heebner	3656	
Tonkawa	3960	
Cottage Grove	4243	
Oswego Limestone	4540	
Cherokee Group	4623	
Verdigris Limestone	4655	
Mississippi Unconformity	4740	
Mississipii Limestone	4748	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Yazel 3510 2-3H
Doc ID	1148476

#### Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	8898-9154	1500 gals 15% HCL, 4354 bbls Fresh Slickwater, Running TLTR 4389 bbls	
5	8528-8820	1500 gals 15% HCL, 3873 bbls Fresh Slickwater, Running TLTR 8717 bbls	
5	8130-8434	1500 gals 15% HCL, 4002 bbls Fresh Slickwater, Running TLTR 12921 bbls	
5	7784-8075	1500 gals 15% HCL, 4017 bbls Fresh Slickwater, Running TLTR 17123 bbls	
5	7408-7715	1500 gals 15% HCL, 4104 bbls Fresh Slickwater, Running TLTR 21380 bbls	
5	7048-7338	1500 gals 15% HCL, 4147 bbls Fresh Slickwater, Running TLTR 25664 bbls	
5	6688-7000	1500 gals 15% HCL, 4003 bbls Fresh Slickwater, Running TLTR 29770 bbls	
5	6306-6590	1500 gals 15% HCL, 3996 bbls Fresh Slickwater, Running TLTR 33854 bbls	

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Yazel 3510 2-3H
Doc ID	1148476

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
5	5928-6220	1500 gals 15% HCL, 4069 bbls Fresh Slickwater, Running TLTR 37992 bbls	
5	5573-5870	1500 gals 15% HCL, 4075 bbls Fresh Slickwater, Running TLTR 42129 bbls	

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



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

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

June 18, 2013

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

Re: ACO1  
API 15-007-24023-01-00  
Yazel 3510 2-3H  
SE/4 Sec.03-35S-10W  
Barber County, Kansas

Dear Production Department:

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

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

Respectfully,  
Tiffany Golay

# Mid-Continent Conductor, LLC

# Invoice

Date	Invoice #
5/17/2013	1910

P.O. Box 1570  
Woodward, OK 73802

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

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

Ordered By	Terms	Date of Service	Lease Name/Legal Desc.	Drilling Rig
Parker Waldrige	Net 45	5/17/2013	Yazel 3510 2-3H, Barber Cnty, KS	Unit 9

Item	Quantity	Description
Conductor Hole	90	Drilled 90 ft. conductor hole
20" Pipe	90	Furnished 90 ft. of 20 inch conductor pipe
Mouse Hole	80	Drilled 80 ft. mouse hole
16" Pipe	80	Furnished 80 ft. of 16 inch mouse hole pipe
Cellar Hole	1	Drilled 6' X 6' cellar hole
6' X 6' Tinhorn	1	Furnished 6' X 6' tinhorn
Mud and Water	1	Furnished mud and water
Transport Truck - Conductor	1	Transport mud and water to location
Grout & Trucking	10	Furnished grout and trucking to location
Grout Pump	1	Furnished grout pump
Transport Truck - Conductor	1	Furnished transport truck and water to displace cement down center of conductor
Fence Panels	4	Furnished safety netting around conductor holes
Welder & Materials	1	Furnished welder and materials
Dirt Removal	1	Furnished labor and equipment for dirt removal
Cover Plate	1	Furnished cover plates
Permits	1	Permits

AFE Number: unknown @ this time

Well Name: Yazel 3510 2-3H

Code: 850-010

Amount: 19,730.00

Co. Man: Dwayne Burt

Co. Man Sig.: Dwayne Burt

Notes: \_\_\_\_\_

<b>Subtotal</b>	\$19,340.00
<b>Sales Tax (6.5%)</b>	\$390.00
<b>Total</b>	<b>\$19,730.00</b>



# JOB SUMMARY

COUNTRY		State		PROJECT NUMBER	TICKET DATE
Barber		Kansas		SOK 2712	05/28/13
COMPANY				CUSTOMER REP	
Bridge Exploration & Produc				Dewayne Burt	
LEASE NAME		Well No.	JOB TYPE	EMPLOYEE NAME	
Yazel 3510		2-3H	Surface	John Hall	

EMP NAME	John Hall	0			
	Bryan Douglas				
	Rocky Anthis				
	Joseph Klemm				

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_

Packer Type \_\_\_\_\_ Set At 0

Bottom Hole Temp. 80 Pressure \_\_\_\_\_

Retainer Depth \_\_\_\_\_ Total Depth 950

Date	Called Out	On Location	Job Started	Job Completed
	5/27/2013	5/27/2013	5/27/2013	5/27/2013
Time	2030	2300	300	1200

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	1	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
Casing		36#	9 1/2"		Surface	924
Liner						1,500
Liner						
Tubing			0			
Drill Pipe						
Open Hole			12 1/4"		Surface	919
Perforations						Shots/Ft.
Perforations						
Perforations						

Materials			
Mud Type	WBM	Density	Lb/Gal
Disp. Fluid	Fresh Water	8.33	
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

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
5/27	1.0	5/27	8.0	Surface
5/28	12.0			
Total 13.0		Total 8.0		

Perpac Balls \_\_\_\_\_ Qty. \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Pressures	
MAX 1,500 PSI	AVG. _____
Average Rates in BPM	
MAX 6 BPM	AVG. _____
Cement Left in Pipe	
Feet 46	Reason SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	300	EX Lite Premium Plus 66	(6% Gel) 2% Calcium Chloride - 1/4pps Cello-Flake - .5% C-41P	10.88	1.84	12.70
2	170	Premium Plus (Class C)	2% Calcium Chloride - 1/4pps Cello-Flake	6.32	1.32	14.80
3	0	0		0	0.00	0.00

Summary					
Preflush Breakdown	10	Type: water	Preflush: BBI	10.00	Type: Fresh Water
		MAXIMUM 1,500 PSI	Load & Bkdn: Gal - BBI	N/A	Pad:Bbl -Gal N/A
		Lost Returns-N NO/FULL	Excess /Return BBI	25	Calc.Disp Bbl 68
		Actual TOC SURFACE	Calc. TOC:	SURFACE	Actual Disp. 67.80
Average		Bump Plug PSI: 900	Final Circ. PSI:		Disp:Bbl 67.80
ISIF 5 Min.		10 Min	Cement Slurry: BBI	138.2	
		15 Min	Total Volume BBI	216.00	

CUSTOMER REPRESENTATIVE Dewayne Burt SIGNATURE

<b>JOB SUMMARY</b>			PROJECT NUMBER <b>SOK 2744</b>	TICKET DATE <b>06/13/13</b>
COUNTY <b>Barber</b>	State <b>Kansas</b>	COMPANY <b>Sandridge Exploration &amp; Production</b>	CUSTOMER REP <b>Dwayne Burt</b>	
LEASE NAME <b>Yazel 3510</b>	Well No. <b>2-3H</b>	JOB TYPE <b>Intermediate</b>	EMPLOYEE NAME <b>Arthur Setzer</b>	

EMP NAME	Arthur Setzer	0			
	Jared Green				
	David Thomas				
	Vontray				

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_  
 Packer Type \_\_\_\_\_ Set At **4,037**  
 Bottom Hole Temp. **155** Pressure \_\_\_\_\_  
 Retainer Depth \_\_\_\_\_ Total Depth **5541**

Date	Called Out	On Location	Job Started	Job Completed
	<b>6/12/2013</b>	<b>6/12/2013</b>	<b>6/13/2013</b>	<b>6/13/2013</b>
Time	<b>1500</b>	<b>2100</b>	<b>0345</b>	<b>0700</b>

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
Casing		<b>26#</b>	<b>7"</b>		Surface	<b>5,546</b>
Liner						<b>5,000</b>
Liner						
Tubing			<b>0</b>			
Drill Pipe						
Open Hole			<b>8 3/4"</b>		Surface	<b>5,541</b>
Perforations						Shots/Ft.
Perforations						
Perforations						

Materials			
Mud Type	WBM	Density	Lb/Gal
Disp. Fluid	Fresh Water	<b>9</b>	
	Density	<b>8.33</b>	
Spacer type	Fresh Water BBL.	<b>20</b>	<b>8.33</b>
Spacer type	Caustic BBL.	<b>10</b>	<b>8.40</b>
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			

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
<b>6/12</b>	<b>3.0</b>	<b>6/13</b>	<b>4.0</b>	Intermediate
<b>6/13</b>	<b>7.0</b>			
Total	<b>10.0</b>	Total	<b>4.0</b>	

Pressures	
MAX <b>5,000 PSI</b>	AVG. <b>450</b>
Average Rates in BPM	
MAX <b>8 BPM</b>	AVG <b>6</b>
Cement Left in Pipe	
Feet <b>86</b>	Reason <b>SHOE JOINT</b>

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
<b>1</b>	<b>195</b>	<b>50/50 POZ PREMIUM</b>	<b>4% Gel - 0.4% FL-17 - 0.2% C-51 - 0.1% C-20 - 0.1% C-37 - 0.5% C-41P</b>	<b>6.77</b>	<b>1.44</b>	<b>13.60</b>
<b>2</b>	<b>100</b>	<b>Premium</b>	<b>0.4% FL-17 - 0.1% C-51 - 0.1% C-20 - 0.4% C-41P</b>	<b>5.20</b>	<b>1.18</b>	<b>15.60</b>
<b>3</b>	<b>0</b>	<b>0</b>		<b>0</b>	<b>0.00</b>	<b>0.00</b>

Summary						
Preflush Breakdown	<b>10</b>	Type: <b>Caustic</b>	Preflush: BBI	<b>30.00</b>	Type: <b>10ppg Barite Spacer</b>	
		<b>MAXIMUM</b>	Load & Bkdn: Gal - BBI	<b>N/A</b>	Pad:Bbl -Gal	<b>N/A</b>
		<b>Lost Returns-N</b>	Excess /Return BBI	<b>N/A</b>	Calc. Disp Bbl	<b>209</b>
		<b>Actual TOC</b>	Calc. TOC:	<b>3,650</b>	Actual Disp.	<b>209.00</b>
Average		<b>Bump Plug PSI:</b>	Final Circ. PSI:	<b>450</b>	Disp:Bbl	<b>209.00</b>
ISIF <b>5 Min.</b>		<b>10 Min</b>	Cement Slurry: BBI	<b>71.0</b>		
		<b>15 Min</b>	Total Volume BBI	<b>310.00</b>		

CUSTOMER REPRESENTATIVE JOB SIGNATURE \_\_\_\_\_



Standard Wellpath Report  
 Sandridge  
 Sec 3 - 35S - 10W, Kansas  
 Barber County  
 Wellbore: Yazel 3510 2-3H (Sidetrack Actual)

**Wellbore**

Name	Created	Last Revised
Yazel 3510 2-3H (Sidetrack Actual)	7-Jun-2013	17-Jun-2013

**Well**

Name	Government ID	Last Revised
Yazel 3510 2-3H		24-May-2013

**Slot**

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Yazel 3510 2-3H	129367.0000	2033299.0000	N37 1 18.8256	W98 23 9.4256	193.99N	659.96W

**Installation**

Name	Easting	Northing	Coord System Name	North Alignment
Barber County	2033959.0000	129173.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

**Field**

Name	Easting	Northing	Coord System Name	North Alignment
Sec 3 - 35S - 10W	2033959.0000	129173.0001	KS-S on NORTH AMERICAN DATUM 1927 datum	Grid

**Created By**

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**Comments**

<p>FINAL Surveys</p> <p>MD 9280 is a Projection to bit @ TD</p>
-----------------------------------------------------------------



Standard Wellpath Report  
Sandridge  
Sec 3 - 35S - 10W, Kansas  
Barber County  
Wellbore: Yazel 3510 2-3H (Sidetrack 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	2033299.00	129367.00
1151.00	0.50	181.700	1150.99	5.02S	0.15W	0.04	-5.02	2033298.85	129361.98
1519.00	0.40	182.200	1518.97	7.91S	0.25W	0.03	-7.91	2033298.75	129359.09
1994.00	0.40	183.100	1993.96	11.22S	0.40W	==>	-11.22	2033298.60	129355.78
2471.00	0.50	308.700	2470.96	11.58S	2.11W	0.17	-11.58	2033296.89	129355.42
2946.00	0.50	288.000	2945.94	9.65S	5.70W	0.04	-9.64	2033293.30	129357.35
3422.00	1.10	337.700	3421.89	4.78S	9.41W	0.18	-4.76	2033289.59	129362.22
3896.00	0.20	237.800	3895.86	1.01S	11.84W	0.24	-0.99	2033287.16	129365.99
4023.00	0.30	308.200	4022.86	0.92S	12.29W	0.24	-0.90	2033286.71	129366.08
4055.00	0.40	315.600	4054.86	0.79S	12.43W	0.34	-0.77	2033286.57	129366.21
4086.00	2.30	0.000	4085.85	0.09S	12.51W	6.56	-0.07	2033286.49	129366.91
4118.00	4.90	3.800	4117.79	1.92N	12.42W	8.15	1.93	2033286.58	129368.92
4149.00	6.90	4.800	4148.62	5.09N	12.17W	6.46	5.11	2033286.83	129372.09
4181.00	8.90	4.400	4180.32	9.48N	11.82W	6.25	9.49	2033287.18	129376.48
4213.00	11.10	3.700	4211.83	15.02N	11.43W	6.89	15.03	2033287.57	129382.02
4244.00	13.50	3.600	4242.11	21.61N	11.01W	7.74	21.62	2033287.99	129388.61
4276.00	15.70	3.800	4273.08	29.66N	10.49W	6.88	29.67	2033288.51	129396.66
4308.00	18.40	2.100	4303.67	39.03N	10.02W	8.58	39.04	2033288.98	129406.03
4340.00	21.10	1.700	4333.79	49.83N	9.66W	8.45	49.85	2033289.34	129416.84
4372.00	23.70	0.500	4363.37	62.02N	9.44W	8.25	62.04	2033289.56	129429.03
4404.00	25.60	1.400	4392.45	75.37N	9.21W	6.05	75.38	2033289.79	129442.37
4436.00	27.60	2.200	4421.06	89.69N	8.76W	6.35	89.70	2033290.24	129456.69
4468.00	30.00	2.700	4449.10	105.09N	8.10W	7.54	105.10	2033290.90	129472.10
4500.00	32.20	3.300	4476.50	121.59N	7.23W	6.94	121.60	2033291.77	129488.60
4531.00	32.90	4.200	4502.63	138.24N	6.14W	2.75	138.24	2033292.86	129505.24
4563.00	34.90	4.300	4529.19	156.03N	4.81W	6.25	156.04	2033294.19	129523.04
4595.00	37.30	4.100	4555.04	174.84N	3.43W	7.51	174.84	2033295.57	129541.85
4627.00	40.00	2.500	4580.03	194.79N	2.29W	9.00	194.79	2033296.71	129561.80
4659.00	42.70	1.500	4604.05	215.91N	1.56W	8.69	215.91	2033297.44	129582.92
4691.00	44.70	0.100	4627.19	238.02N	1.25W	6.94	238.02	2033297.75	129605.03
4722.00	45.50	0.400	4649.07	259.98N	1.16W	2.67	259.98	2033297.84	129626.99
4809.00	45.70	353.000	4709.98	321.95N	4.74W	6.08	321.95	2033294.26	129688.96
4840.00	48.90	352.800	4731.00	344.55N	7.56W	10.33	344.56	2033291.44	129711.57
4872.00	52.30	352.700	4751.31	369.08N	10.68W	10.63	369.09	2033288.32	129736.10
4903.00	55.90	352.500	4769.49	393.97N	13.91W	11.62	393.99	2033285.09	129761.00
4935.00	59.70	352.300	4786.54	420.81N	17.49W	11.89	420.83	2033281.51	129787.83
4967.00	63.70	352.900	4801.70	448.74N	21.12W	12.61	448.77	2033277.88	129815.77
4999.00	67.80	353.100	4814.84	477.70N	24.67W	12.83	477.73	2033274.33	129844.72
5030.00	71.70	353.400	4825.57	506.57N	28.09W	12.61	506.61	2033270.91	129873.60
5062.00	75.20	354.000	4834.69	537.06N	31.45W	11.08	537.10	2033267.55	129904.09
5094.00	78.70	354.200	4841.91	568.06N	34.66W	10.95	568.11	2033264.34	129935.09
5125.00	82.10	354.200	4847.08	598.47N	37.74W	10.97	598.51	2033261.25	129965.50
5157.00	85.60	354.300	4850.51	630.12N	40.93W	10.94	630.17	2033258.07	129997.15
5189.00	87.00	354.400	4852.57	661.89N	44.08W	4.39	661.95	2033254.92	130028.93
5221.00	87.20	354.700	4854.19	693.71N	47.11W	1.13	693.77	2033251.89	130060.75
5252.00	87.30	354.100	4855.68	724.53N	50.13W	1.96	724.59	2033248.87	130091.57
5284.00	87.30	354.000	4857.19	756.32N	53.45W	0.31	756.39	2033245.55	130123.36
5316.00	87.30	354.200	4858.69	788.11N	56.73W	0.62	788.18	2033242.27	130155.16
5348.00	87.10	354.100	4860.26	819.91N	59.99W	0.70	819.98	2033239.01	130186.95
5379.00	86.90	354.200	4861.88	850.70N	63.14W	0.72	850.78	2033235.85	130217.75
5411.00	87.60	353.700	4863.41	882.49N	66.51W	2.69	882.57	2033232.48	130249.54
5443.00	89.60	355.700	4864.20	914.34N	69.47W	8.84	914.43	2033229.53	130281.39
5475.00	90.80	356.700	4864.08	946.27N	71.59W	4.88	946.36	2033227.41	130313.32
5506.00	91.20	356.700	4863.54	977.21N	73.37W	1.29	977.30	2033225.62	130344.27
5644.00	91.80	357.100	4859.93	1114.96N	80.83W	0.52	1115.06	2033218.16	130482.02
5736.00	92.70	356.800	4856.32	1206.76N	85.72W	1.03	1206.87	2033213.27	130573.83
5828.00	92.00	357.200	4852.55	1298.56N	90.53W	0.88	1298.67	2033208.46	130665.63
5919.00	93.20	358.200	4848.42	1389.39N	94.18W	1.72	1389.50	2033204.81	130756.46
6011.00	91.80	0.300	4844.41	1481.28N	95.39W	2.74	1481.40	2033203.61	130848.37
6103.00	93.30	2.400	4840.31	1573.16N	93.22W	2.80	1573.28	2033205.77	130940.25
6195.00	93.40	3.800	4834.94	1664.87N	88.25W	1.52	1664.98	2033210.74	131031.96
6288.00	93.40	4.800	4829.42	1757.44N	81.29W	1.07	1757.54	2033217.70	131124.54
6380.00	93.30	5.400	4824.04	1848.92N	73.13W	0.66	1849.01	2033225.87	131216.02
6473.00	93.20	5.600	4818.77	1941.34N	64.23W	0.24	1941.42	2033234.77	131308.45
6566.00	93.40	5.400	4813.42	2033.76N	55.33W	0.30	2033.83	2033243.67	131400.87
6661.00	93.60	5.600	4807.62	2128.14N	46.24W	0.30	2128.20	2033252.75	131495.26
6756.00	91.90	4.300	4803.06	2222.68N	38.06W	2.25	2222.72	2033260.94	131589.80
6851.00	94.20	4.300	4798.01	2317.27N	30.94W	2.42	2317.31	2033268.05	131684.40
6946.00	91.10	2.900	4793.61	2411.97N	24.99W	3.58	2412.00	2033274.01	131779.10
7041.00	89.50	3.000	4793.12	2506.84N	20.10W	1.69	2506.86	2033278.90	131873.97

All data is in Feet unless otherwise stated  
Coordinates are from Slot MD's are from Slot and TVD's are from Slot ( Yazel 3510 2-3H 0.00ft above Mean Sea Level )  
Vertical Section is from 0.00N 0.00E on azimuth 359.930 degrees  
Bottom hole distance is 4743.75 Feet on azimuth 359.86 degrees from Wellhead  
Calculation method uses Minimum Curvature method  
Prepared by  
Date Printed: 17-Jun-2013



Standard Wellpath Report  
 Sandridge  
 Sec 3 - 35S - 10W, Kansas  
 Barber County  
 Wellbore: Yazel 3510 2-3H (Sidetrack Actual)

**Wellpath (Grid) Report**

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft ]	Easting	Northing
7135.00	89.40	2.400	4794.02	2600.73N	15.67W	0.65	2600.74	2033283.33	131967.87
7231.00	93.10	4.100	4791.93	2696.53N	10.23W	4.24	2696.54	2033288.77	132063.68
7326.00	91.00	3.500	4788.53	2791.25N	3.94W	2.30	2791.26	2033295.06	132158.41
7421.00	91.10	3.200	4786.79	2886.08N	1.61E	0.33	2886.07	2033300.61	132253.23
7517.00	91.80	2.200	4784.36	2981.94N	6.13E	1.27	2981.93	2033305.13	132349.10
7611.00	92.20	1.400	4781.08	3075.83N	9.08E	0.95	3075.82	2033308.08	132443.00
7707.00	91.90	0.300	4777.64	3171.76N	10.50E	1.19	3171.74	2033309.51	132538.93
7801.00	90.80	359.300	4775.43	3265.73N	10.18E	1.58	3265.71	2033309.18	132632.91
7896.00	89.80	358.000	4774.93	3360.70N	7.94E	1.73	3360.68	2033306.94	132727.88
7990.00	89.90	358.400	4775.18	3454.65N	4.99E	0.44	3454.64	2033303.99	132821.84
8084.00	89.80	358.400	4775.42	3548.61N	2.36E	0.11	3548.61	2033301.36	132915.81
8180.00	89.80	358.200	4775.76	3644.57N	0.49W	0.21	3644.57	2033298.51	133011.77
8276.00	90.40	358.100	4775.59	3740.52N	3.59W	0.63	3740.52	2033295.41	133107.73
8371.00	91.30	358.000	4774.18	3835.45N	6.82W	0.95	3835.46	2033292.18	133202.67
8466.00	90.50	357.800	4772.69	3930.38N	10.30W	0.87	3930.39	2033288.70	133297.59
8562.00	90.70	357.700	4771.68	4026.30N	14.07W	0.23	4026.31	2033284.93	133393.52
8658.00	90.60	359.600	4770.59	4122.26N	16.33W	1.98	4122.28	2033282.67	133489.49
8753.00	91.00	0.400	4769.27	4217.25N	16.33W	0.94	4217.27	2033282.67	133584.48
8848.00	91.50	0.300	4767.19	4312.23N	15.75W	0.54	4312.24	2033283.25	133679.46
8942.00	91.80	0.500	4764.49	4406.18N	15.09W	0.38	4406.20	2033283.91	133773.43
9037.00	92.60	0.800	4760.84	4501.11N	14.02W	0.90	4501.12	2033284.98	133868.36
9132.00	93.10	0.700	4756.12	4595.98N	12.77W	0.54	4595.99	2033286.22	133963.24
9227.00	93.30	0.300	4750.81	4690.83N	11.95W	0.47	4690.84	2033287.05	134058.09
9234.00	93.40	0.800	4750.41	4697.82N	11.88W	7.27	4697.83	2033287.12	134065.08
9280.00	93.40	0.800	4747.68	4743.73N	11.24W	==>	4743.74	2033287.76	134110.99

All data is in Feet unless otherwise stated  
 Coordinates are from Slot MD's are from Slot and TVD's are from Slot ( Yazel 3510 2-3H 0.00ft above Mean Sea Level )  
 Vertical Section is from 0.00N 0.00E on azimuth 359.930 degrees  
 Bottom hole distance is 4743.75 Feet on azimuth 359.86 degrees from Wellhead  
 Calculation method uses Minimum Curvature method  
 Prepared by  
 Date Printed: 17-Jun-2013



Standard Wellpath Report  
Sandridge  
Sec 3 - 35S - 10W, Kansas  
Barber County  
Wellbore: Yazel 3510 2-3H (Sidetrack Actual)

**Comments**

MD[ft]	TVD[ft]	North[ft]	East[ft]	Comment
9280.00	4747.68	4743.73N	11.24W	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 ( Yazel 3510 2-3H 0.00ft above Mean Sea Level )  
Vertical Section is from 0.00N 0.00E on azimuth 359.930 degrees  
Bottom hole distance is 4743.75 Feet on azimuth 359.86 degrees from Wellhead  
Calculation method uses Minimum Curvature method  
Prepared by  
Date Printed: 17-Jun-2013

# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	7/12/2013
Job End Date:	7/14/2013
State:	Kansas
County:	Barber
API Number:	15-007-24023-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Yazel 3510 2-3H
Longitude:	-98.38590000
Latitude:	37.02180000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	4,749
Total Base Water Volume (gal):	1,714,225
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
C102	Bosque Disposal Systems, LLC	Oxidizer					
			Chlorine Dioxide	10049-04-4	15.00000	100.00000	
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.							
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Ethoxylated oleic acid	9004-96-0	0.02838		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Distillates (petroleum), hydrotreated light	64742-47-8	0.29800		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					

			2-propenamid	79-06-1	0.00128		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sodium erythorbate	6381-77-7	0.02115		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Acrylamide/ammonium acrylate copolymer	26100-47-0	0.22705		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Dicoco dimethyl quaternary ammonium chloride	61789-77-3	0.00514		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C12-C14, ethoxylated	68439-50-9	0.00426		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Potassium hydroxide	1310-58-3	0.00023		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C12-C16, ethoxylated	68551-12-2	0.00426		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sodium sulfocyanate	540-72-7	0.00738		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					



			Methanol	67-56-1	0.01114		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Propan-2-ol	67-63-0	0.00103		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Trisodium ortho phosphate	7601-54-9	0.03265		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alkenes, C>10 a-	64743-02-8	0.00139		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			2-Propenoic acid, ammonium salt	10604-69-0	0.00695		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Ethane-1,2-diol	107-21-1	0.00929		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sorbitol Tetraoleate	61723-83-9	0.00851		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Water (Including Mix Water Supplied by Client)*	NA			
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					

			Fatty acids, tall-oil	61790-12-3	0.00818		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C10-C16, ethoxylated	68002-97-1	0.00568		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Hydrogen chloride	7647-01-0	2.74451		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Ammonium chloride	12125-02-9	0.14190		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			C14 alpha olefin ethoxylate	84133-50-6	0.00426		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Crystalline silica	14808-60-7	96.19335		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Sorbitan monooleate	1338-43-8	0.02838		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Polyethylene glycol monoethyl ether	31726-34-8	0.11721		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					

			Thiourea, polymer with formaldehyde and 1-phenylethanone	68527-49-1	0.00673		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Prop-2-yn-1-ol	107-19-7	0.00209		
HCL 15, Slickwater	Schlumberger	Corrosion Inhibitor, Friction Reducer, Scale Inhibitor, Surfactant , Acid, Iron Control Agent, Propping Agent					
			Alcohols, C14-15, ethoxylated (7EO)	68951-67-7	0.00313		

\* 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)

Section 34  
34S 10W

Section 35  
34S 10W

301' FNL  
668' FEL

BHL: 9280'  
-98.386318 37.034951

Bottom Perf: 8898'  
-98.386335 37.033766

Section 3  
35S 10W

Barber County

Section 2  
35S 10W

STEPHANIE 2-3 SWD

STEPHANIE 1-3 SWD



Top Perf: 5573'  
-98.386546 37.024607

Miss Entry: 4851'  
-98.386323 37.022869

YAZEL 1-3H



YAZEL 3510 2-3H



LORI 1-2H



JENNIE 1-10H



JENNIE 3510 2-10H



WILLIAM 1-11H



LORI 3510 3-2H



WILLIAM 3510 3-11H

Section 10  
35S 10W

Section 11  
35S 10W



Actual Bottom-Hole Location of Yazel 3510 2-3H  
Barber County, Kansas  
T&R: 35S 10W  
Section: 3, 668' FEL & 301' FNL  
-98.386318 37.034951

1 in = 667 ft

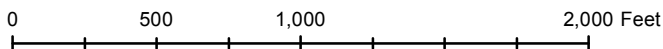


● Actual BH Location

\* SandRidge Wells

--- Perf

□ Sections



Draftsman:

Aaron Birk

Draft Date: 9/4/2013

Drawing Name/Number:

Addendum\_Yazel 3510 2-3H.mxd

Coordinate System:

NAD 1927 State Plane  
Kansas South FIPS: 1502