

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1241924
OIL & GAS CONSERVATION DIVISION

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: _____

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
--	---

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

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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	---	---

Mid-Continent Conductor, LLC

Invoice

P.O. Box 1570
Woodward, OK 73802
Phone: (580)254-5400
Fax: (580)254-3242

Date	Invoice #
10/27/2014	3197

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
Earl Sullivan	Net 30	10/27/2014	Laura 3408 1-26H, Harper Cnty, KS	Patterson 56

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 6x6 cellar hole.
6' X 6' Tinhorn	1	Furnished and set 6x6 tinhorn.
Mud and Water	1	Furnished mud and water.
Transport Truck - Conductor	1	Transport mud and trucking to location.
Grout & Trucking	15	Furnished 15 yards of grout and trucking to location.
Grout Pump	1	Furnished grout pump.
Fence Panels	1	Furnished and set safety netting around holes.
Welder & Materials	1	Furnished welder and materials.
Dirt Removal	1	Labor and equipment for dirt removal.
Cover Plate	1	Furnished cover plates.
Permits	1	Permits

AFE Number: DC-14314
 Well Name: Laura 1-26H
 Code: 850.010
 Amount: 18,600.00
 Co. Man: Earl Sullivan
 Co. Man Sig: [Signature]
 Notes: _____

Subtotal	\$18,600.00
Sales Tax (0.0%)	\$0.00

Total	\$18,600.00
--------------	--------------------



7303 N. Highway 81
Duncan, OK 73533

Invoice

Date:	Invoice #:
11/11/2014	0000017899

Phone # (580) 255-3111

Bill To
Sandridge Exploration & Production 123 Robert S Kerr Ave Oklahoma City, OK 73102-6406

Description of Work
HARPER, COUNTY KS AFE DC14314 API 15-077-22109-01-00
Job Type: Surface (New Well Only)

Field Receipt	Terms	Service Date	Due Date	AFE No	Lease/Well Name
SOK4436	Net 30	11/6/2014	12/11/2014	AFE DC14314	LAURA 3408 1-26H

Item	Description	U/M	Qty	Price Each	Amount	Disc %	Disc Amt	Net Amount
ML001	Pickup Mileage	UNTMIL	100	4.26	426.00	60.00%	-255.60	170.40
ML002	Pump Truck/Heavy Vehicle Mileage	UNTMIL	100	7.32	732.00	60.00%	-439.20	292.80
ML003	Bulk Cement Delivery/Return	MILE	1,033	2.95	3,047.35	60.00%	-1,828.41	1,218.94
MX001	Bulk Material Mixing Service Charge	SCF	453	3.27	1,481.31	60.00%	-888.79	592.52
CC001	Pump Charge 0-1000'	4-HRS	1	2,038.61	2,038.61	60.00%	-1,223.17	815.44
CC015	Pump Charge Additional Hours	UNTHRS	2	588.06	1,176.12	35.00%	-411.64	764.48
ML014	Fuel Surcharge *	JOB	1	653.40	653.40	100.00%	-653.40	0.00
AE014	Environmental Fee*	JOB	1	228.69	228.69	100.00%	-228.69	0.00
PC003	Employee/Supervisor Retention/perdiem	PR/MAN	5	1,306.80	6,534.00	90.00%	-5,880.60	653.40
JM001	Data Acquisition System	JOB	1	1,437.48	1,437.48	60.00%	-862.49	574.99
AE002	Cement Head with manifold	JOB	1	1,176.12	1,176.12	60.00%	-705.67	470.45
AE003	Circulation Equipment(40' of equipment)	JOB	1	1,633.50	1,633.50	60.00%	-980.10	653.40
CL017	9 5/8" Top Rubber Plug	EACH	1	338.80	338.80	35.00%	-118.58	220.22
CP001	C (Premium Plus Cement) (94 lbs/ft3)	94SACK	430	30.80	13,244.02	53.00%	-7,019.33	6,224.69
CP010	Cello Flake	LBS	108	4.20	453.60	53.00%	-240.41	213.19
CP018	Calcium Chloride	LBS	808	1.22	985.76	53.00%	-522.45	463.31
CP031	Sugar	LBS	50	3.39	169.50	0.00%	0.00	169.50

Subtotal Amount	*****
Sales Tax	*****
Discount Amount	*****
Payment/Credit Amount	*****
Total Net Amount	*****

Contact: Sandridge Exploration & Production



7303 N. Highway 81
 Duncan, OK 73533

Invoice

Date:	Invoice #:
11/11/2014	0000017899

Phone # (580) 255-3111

Bill To
Sandridge Exploration & Production 123 Robert S Kerr Ave Oklahoma City, OK 73102-6406

Description of Work
HARPER, COUNTY KS AFE DC14314 API 15-077-22109-01-00
Job Type: Surface (New Well Only)

Field Receipt	Terms	Service Date	Due Date	AFE No			Lease/Well Name		
SOK4436	Net 30	11/6/2014	12/11/2014	AFE DC14314			LAURA 3408 1-26H		
Item	Description	U/M	Qty	Price Each	Amount	Disc %	Disc Amt	Net Amount	

Subtotal Amount	35,756.26
Sales Tax	448.39
Discount Amount	-22,258.53
Payment/Credit Amount	0.00
Total Net Amount	13,946.12

Contact: Sandridge Exploration & Production

RS
11-7

AFE Number: DC 14314
 Well Name: Laura 3408 1-26H
 Code: 830-360
 Amount: 13,497.73
 Co. Man: J. T. Hunter
 Co. Man Sig: J. T. Hunter
 Notes: Clear Surface casing

O-TEX PUMPING LLC
 Service Location: Fairview, Oklahoma
 Service Address: 601 Industrial Blvd 73737
 Service Date: 11/6/2014
 Customer: Sandridge Exploration & Production
 Address: JT Hunter
 City: 281-436-6480
 St: Phone
 Customer Rep: JT Hunter
 Phone: 281-436-6480

Project Number: SOK 4436
 FIELD RECEIPT
 580-227-2727
 Well Name: Laura 3408
 Well Number: 1-26H
 County: Harper
 State: Kansas
 API #
 AFE #
 PERMIT #
 Job Type: Surface
 Serv. Sup: John Hall
 Page 1 of 1

REF #	DESCRIPTION	U OF MEAS.	UNIT PRICE	QUAN	GROSS	%DISC	Pump #	Pump 2 #	NET
ML001	Pickup Mileage	per mile/ per Unit	4.26	100.0	\$426.00	60%			\$170.40
ML002	Pump Truck/Heavy Vehicle Mileage	per mile/ per Unit	7.32	100.0	\$732.00	60%			\$292.80
ML003	Bulk Cement Delivery/Return	per Ton-Mile	2.95	1,033.0	\$3,047.35	60%			\$1,218.94
MX001	Bulk Material Mixing Service Charge	per cuft	3.27	453.0	\$1,481.31	60%			\$592.52
CC001	Pump Charge 0-1000'	(per 4 hrs)	2,038.61	1.0	\$2,038.61	60%			\$815.44
CC015	Pump Charge Additional Hours	per hour/per unit	588.06	2.0	\$1,176.12	35%			\$764.48
ML014	Fuel Surcharge *	per unit per job	653.40	1.0	\$653.40	100%			\$0.00
AE014	Environmental Fee*	per job	228.69	1.0	\$228.69	100%			\$0.00
PC003	Employee/Supervisor Retention/perdiem	per job	1,306.80	5.0	\$6,534.00	90%			\$653.40
JM001	Data Acquisition System	Per Job	1,437.48	1.0	\$1,437.48	60%			\$574.99
AE002	Cement Head with manifold	per job	1,176.12	1.0	\$1,176.12	60%			\$470.45
AE000	Circulating hose (replacement)	per hose	1,375.00	-	\$0.00	0%			\$0.00
AE003	Circulation Equipment(40' of equipment)	per job	1,633.50	1.0	\$1,633.50	60%			\$653.40
CL017	9 5/8" Top Rubber Plug	Each	338.80	1.0	\$338.80	35%			\$220.22
CP001	C (Premium Plus Cement) (94 lbs/ft3)	per sk	30.80	430.0	\$13,244.00	53%			\$6,224.68
CP010	Cello Flake	per lb	4.20	108.0	\$453.60	53%			\$213.19
CP018	Calcium Chloride	per lb	1.22	808.0	\$985.76	53%			\$463.31
CP031	Sugar	per lb	3.39	50.0	\$169.50	0%			\$169.50
ML003	Bulk Cement Delivery/Return	per Ton-Mile	2.95	-	\$0.00	60%			\$0.00
MX001	Bulk Material Mixing Service Charge	per cuft	3.27	-	\$0.00	60%			\$0.00
CP001	C (Premium Plus Cement) (94 lbs/ft3)	per sk	30.80	-	\$0.00	53%			\$0.00
CP018	Calcium Chloride	per lb	1.22	-	\$0.00	53%			\$0.00
AE022	1" Pipe for Top-Out*	per ft	7.90	-	\$0.00	20%			\$0.00
					\$35,756.24			\$22,258.51	\$13,497.73

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMERS AGENT.
 Customer Authorized Agent:

RECEIVED NOV 07 2014

SERVICE ORDER CONTRACT

Customer Name Sandridge Exploration & Production Ticket Number SOK 4436

Lease & Well Number Laura 3408 1-26H Date 11/6/2014

As consideration, The Above Named customer Agrees:

O-TEX Pumping L.L.C. shall not be responsible for and customer shall secure O-TEX pumping against any liability for damage to property of customer and of the well owner (if different from customer), unless caused by the willful misconduct or gross negligence of O-TEX pumping, this provision applying to but not limited to subsurface damage and surface damage arising from subsurface damage.

O-TEX makes no guarantee to the effectiveness of the products, supplies, or materials, nor of the results of any treatment or services. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, O-TEX personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others except where due to O-TEX gross negligence or willful misconduct in the preparation or furnishing it.

Invoices payable NET 30 days following the date on the invoice.

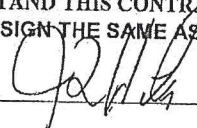
Upon customers default in payment of the customers account by the last day of the month following the month in which the invoice is dated.

Customer agrees to pay interest thereon after at the highest lawful contract rate applicable but never to exceed 18% per annum in the event it becomes necessary to employ an attorney to enforce collection of said account.

Customer agrees to pay all collection costs and attorney fees in the amount of 25% of the unpaid account.

Service order: I authorize work to begin per service instructions in accordance with terms and conditions printed on this form and represent that I have authority to accept and sign this order.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMERS AGENT.

Customer Authorized Agent: 

JOB SUMMARY			PROJECT NUMBER SOK 4483	TICKET DATE 11/14/14
COUNTY Harper	State Kansas	COMPANY Sandridge Exploration & Production	CUSTOMER REP Mark Turner	
LEASE NAME Laura 3408	Well No. 1-26H	JOB TYPE Intermediate	EMPLOYEE NAME Bryan Douglas	

EMP NAME					
Bryan Douglas		0			
Dustin Odum					
Evan Ratcliff					
Joe Collins					

Form. Name _____ Type: _____

Packer Type _____ Set At **0**

Bottom Hole Temp. **155** Pressure _____

Retainer Depth _____ Total Depth **5609**

Date	Called Out 11/14/2014	On Location 11/14/2014	Job Started 11/14/2014	Job Completed 11/14/2014
Time	0000	0200	1500	1800

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		26#	7"		Surface		5,000
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			8 1/2"		Surface	5,690	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials				
Mud Type	WBM	Density	9	Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33	Lb/Gal
Spacer type	Gel	BBL.	30	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		Operating Hours		Description of Job
Date	Hours	Date	Hours	
11/14	16.0	11/14	3.0	Intermediate
Total	16.0	Total	3.0	

Pressures			
MAX	5,000 PSI	AVG	400
Average Rates in BPM			
MAX	8 BPM	AVG	5
Cement Left in Pipe		Reason	
Feet	89	Reason	SHOE JOINT

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	250	50/50 POZ PREMIUM	4% Gel - 0.2% FL-17 - 0.1% C-51 - 0.3% C-20 - 0.1% C-37 - 0.2% X-Air	6.93	1.43	13.60
2	100	Premium	0.2% FL-17 - 0.1% C-51 - 0.15% C-20 - 0.2% X-Air	5.19	1.19	15.60
3	0	0		0	0.00	0.00

Summary								
Preflush Breakdown	30	Type:	Gel	Preflush:	BBI	30.00	Type:	Gel Spacer
		MAXIMUM	5,000 PSI	Load & Bkdn:	Gal - BBI	N/A	Pad:Bbl -Gal	N/A
		Lost Returns-N	NO/FULL	Excess /Return	BBI	N/A	Calc. Disp Bbl	211
		Actual TOC	2.648	Calc. TOC:		2.648	Actual Disp.	211.42
Average		Bump Plug PSI:	1,300	Final Circ.	PSI:	800	Disp:Bbl	211.42
ISIP	5 Min.	10 Min	15 Min	Cement Slurry:	BBI	84.9		
				Total Volume	BBI	326.28		

CUSTOMER REPRESENTATIVE _____ SIGNATURE _____

AFE Number: _____

Well Name: _____

Code: _____

Amount: _____

Co. Man: _____

Co. Man Sig.: _____

Notes: _____

Weatherford
 Company: SandRidge Energy
 Field: Jennifer
 County: Harper
 Well Name: Laura 3408 1-26H
 Rig: Patterson / UTI #56
 Job Number: 10474606
 Magnetic Decl: 4.57
 Grid Corr: 0.21
 Total Survey Corr: 4.36
 Date Printed: 10-Feb-15
 Proposed Azimuth: 146.18
 Target Inclination: 89.70
 MD 10188.00
 PBHL TARGET
 4799.00
 5489.95
 3367.00 N
 4838.00 E

No.	Tool Type	Surf. Depth (ft)	Incl (°)	Azimuth (°)	Quadrant	Course Lgth(ft)	TVD (ft)	VS (ft)	N/S (ft)	E/W (ft)	Dist (ft)	Closure Ang (°)	Total Dogleg (°/100)	Bld Rate (°/100)	Turn (°/100)
0	Surf.	0	0	0	N 0.00 E	0	0.00	0.00	0.00 N	0.00 W	0.00	360.00			
1	RIG	375	0.10	309.29	N 50.71 W	375	375.00	-0.31	0.21 N	0.25 W	0.33	309.29	0.03	0.03	-13.52
2	RIG	718	0.40	309.29	N 50.71 W	343	718.00	-1.75	1.15 N	1.41 W	1.82	309.29	0.09	0.09	0.00
3	MWD	824	0.70	309.29	N 50.71 W	106	823.99	-2.72	1.80 N	2.20 W	2.84	309.29	0.28	0.28	0.00
4	MWD	920	0.88	332.72	N 27.28 W	96	919.98	-4.01	2.83 N	2.99 W	4.11	313.38	0.38	0.19	24.41
5	MWD	1015	0.91	341.13	N 18.87 W	95	1014.97	-5.47	4.19 N	3.57 W	5.50	319.56	0.14	0.03	8.85
6	MWD	1110	0.91	346.46	N 13.54 W	95	1109.96	-6.90	5.64 N	3.99 W	6.90	324.70	0.09	0.00	5.61
7	MWD	1204	0.99	346.14	N 13.86 W	94	1203.95	-8.37	7.15 N	4.36 W	8.37	328.63	0.09	0.09	-0.34
8	MWD	1299	0.98	336.97	N 23.03 W	95	1298.93	-9.94	8.69 N	4.87 W	9.97	330.73	0.17	-0.01	-9.65
9	MWD	1394	0.84	319.08	N 40.92 W	95	1393.92	-11.42	9.97 N	5.65 W	11.46	330.47	0.33	-0.15	-18.83
10	MWD	1490	1.22	49.24	N 49.24 E	96	1489.91	-12.25	11.17 N	5.33 W	12.38	334.47	1.54	0.40	93.92
11	MWD	1585	3.69	48.37	N 48.37 E	95	1584.81	-12.78	13.86 N	2.28 W	14.05	350.65	2.60	2.60	-0.92
12	MWD	1680	5.83	37.95	N 37.95 E	95	1679.48	-14.71	19.69 N	2.97 E	19.92	8.58	2.42	2.25	-10.97
13	MWD	1774	6.78	52.27	N 52.27 E	94	1772.92	-16.58	26.86 N	10.30 E	28.76	20.97	1.95	1.01	15.23
14	MWD	1870	8.40	61.71	N 61.71 E	96	1868.08	-16.29	33.65 N	20.95 E	39.64	31.91	2.12	1.69	9.83
15	MWD	1965	8.04	63.40	N 63.40 E	95	1962.10	-14.79	39.91 N	33.00 E	51.79	39.59	0.46	-0.38	1.78
16	MWD	2060	9.54	61.40	N 61.40 E	95	2055.98	-13.24	46.65 N	45.86 E	65.42	44.51	1.61	1.58	-2.11
17	MWD	2155	11.68	53.07	N 53.07 E	95	2149.36	-13.04	56.20 N	60.46 E	82.55	47.09	2.77	2.25	-8.77
18	MWD	2250	11.45	52.56	N 52.56 E	95	2242.43	-14.16	67.71 N	75.63 E	101.51	48.16	0.26	-0.24	-0.54
19	MWD	2345	10.55	52.57	N 52.57 E	95	2335.69	-15.30	78.73 N	90.02 E	119.59	48.83	0.95	-0.95	0.01
20	MWD	2440	11.19	58.76	N 58.76 E	95	2428.98	-15.43	88.80 N	104.81 E	137.37	49.73	1.40	0.67	6.52
21	MWD	2535	10.17	60.14	N 60.14 E	95	2522.34	-14.44	97.75 N	119.97 E	154.75	50.83	1.11	-1.07	1.45
22	MWD	2631	10.98	56.12	N 56.12 E	96	2616.71	-13.86	107.07 N	134.91 E	172.23	51.56	1.14	0.84	-4.19
23	MWD	2726	12.21	64.62	N 64.62 E	95	2709.77	-12.40	116.42 N	151.50 E	191.06	52.46	2.21	1.29	8.95
24	MWD	2821	12.25	75.93	N 75.93 E	95	2802.63	-7.52	123.18 N	170.35 E	210.22	54.13	2.52	0.04	11.91
25	MWD	2917	12.07	85.48	N 85.48 E	96	2896.49	0.84	126.45 N	190.24 E	228.43	56.39	2.10	-0.19	9.95
26	MWD	3009	11.03	86.89	N 86.89 E	92	2986.62	10.04	127.68 N	208.62 E	244.59	58.53	1.17	-1.13	1.53
27	MWD	3102	10.00	86.34	N 86.34 E	93	3078.06	18.64	128.68 N	225.56 E	259.68	60.30	1.11	-1.11	-0.59
28	MWD	3194	10.22	95.74	S 84.26 E	92	3168.64	27.85	128.37 N	241.65 E	273.63	62.02	1.81	0.24	10.22
29	MWD	3284	10.25	105.98	S 74.02 E	90	3257.21	39.05	125.37 N	257.30 E	286.22	64.02	2.02	0.03	11.38
30	MWD	3377	9.40	107.90	S 72.10 E	93	3348.85	51.33	120.76 N	272.48 E	298.04	66.10	0.98	-0.91	2.06
31	MWD	3472	8.67	119.35	S 60.65 E	95	3442.68	63.81	114.86 N	286.10 E	308.30	68.13	2.04	-0.77	12.05
32	MWD	3567	10.58	128.81	S 51.19 E	95	3536.34	78.53	105.89 N	299.14 E	317.33	70.51	2.60	2.01	9.96
33	MWD	3663	10.92	132.99	S 47.01 E	96	3630.66	95.79	94.16 N	312.66 E	326.53	73.24	0.89	0.35	4.35
34	MWD	3758	8.75	132.94	S 47.06 E	95	3724.26	111.59	83.10 N	324.54 E	335.01	75.64	2.28	-2.28	-0.05

Bit Projection	0	Depth (ft)	10024																
No.	Tool Type	Survey Depth (ft)	Incl (°)	Azimuth (°)	Quadrant	Course Lgth(ft)	TVD (ft)	VS (ft)	N/S (ft)	E/W (ft)	Dist (ft)	Closure Ang (°)	Total Dogleg (°/100')	Bld Rate (°/100')	Turn (°/100')				
35	MWD	3853	9.03	141.39	S	38.61	E	95	3818.12	126.06	72.35	N	334.48	E	342.21	77.79	1.40	0.29	8.89
36	MWD	3948	9.68	147.23	S	32.77	E	95	3911.86	141.47	59.81	N	343.45	E	348.62	80.12	1.21	0.68	6.15
37	MWD	4011	8.95	142.67	S	37.33	E	63	3974.03	151.66	51.46	N	349.29	E	353.06	81.62	1.65	-1.16	-7.24
38	MWD	4043	11.09	143.45	S	36.55	E	32	4005.54	157.22	47.01	N	352.63	E	355.75	82.41	6.70	6.69	2.44
39	MWD	4074	14.17	137.68	S	42.32	E	31	4035.78	163.95	41.81	N	356.97	E	359.41	83.32	10.72	9.94	-18.61
40	MWD	4106	16.86	136.51	S	43.49	E	32	4066.61	172.40	35.54	N	362.80	E	364.53	84.40	8.46	8.41	-3.66
41	MWD	4138	19.09	137.59	S	42.41	E	32	4097.05	182.15	28.31	N	369.52	E	370.60	85.62	7.05	6.97	3.38
42	MWD	4170	21.90	138.25	S	41.75	E	32	4127.02	193.24	19.99	N	377.03	E	377.56	86.96	8.81	8.78	2.06
43	MWD	4202	25.06	138.06	S	41.94	E	32	4156.37	205.86	10.50	N	385.53	E	385.67	88.44	9.88	9.88	-0.59
44	MWD	4234	28.78	137.37	S	42.63	E	32	4184.90	220.19	0.21	S	395.28	E	395.28	90.03	11.67	11.63	-2.16
45	MWD	4266	32.73	137.10	S	42.90	E	32	4212.39	236.35	12.22	S	406.39	E	406.58	91.72	12.35	12.34	-0.84
46	MWD	4297	35.76	136.79	S	43.21	E	31	4238.01	253.56	24.97	S	418.30	E	419.05	93.42	9.79	9.77	-1.00
47	MWD	4329	37.74	136.46	S	43.54	E	32	4263.65	272.44	38.88	S	431.45	E	433.20	95.15	6.22	6.19	-1.03
48	MWD	4361	39.36	136.43	S	43.57	E	32	4288.68	292.10	53.34	S	445.19	E	448.38	96.83	5.06	5.06	-0.09
49	MWD	4392	41.04	136.35	S	43.65	E	31	4312.35	311.81	67.82	S	458.99	E	463.98	98.41	5.42	5.42	-0.26
50	MWD	4424	42.66	136.25	S	43.75	E	32	4336.19	332.85	83.26	S	473.74	E	481.00	99.97	5.07	5.06	-0.31
51	MWD	4456	43.77	136.98	S	43.02	E	32	4359.51	354.45	99.18	S	488.79	E	498.75	101.47	3.80	3.47	2.28
52	MWD	4487	44.76	137.86	S	42.14	E	31	4381.71	375.84	115.11	S	503.43	E	516.42	102.88	3.76	3.19	2.84
53	MWD	4519	45.71	138.61	S	41.39	E	32	4404.25	398.34	132.06	S	518.56	E	535.11	104.29	3.40	2.97	2.34
54	MWD	4550	47.18	139.16	S	40.84	E	31	4425.61	420.62	148.99	S	533.33	E	553.75	105.61	4.91	4.74	1.77
55	MWD	4582	49.11	139.75	S	40.25	E	32	4446.96	444.29	167.10	S	548.83	E	573.70	106.93	6.19	6.03	1.84
56	MWD	4614	51.92	140.22	S	39.78	E	32	4467.30	468.84	186.01	S	564.70	E	594.55	108.23	8.85	8.78	1.47
57	MWD	4645	53.62	140.37	S	39.63	E	31	4486.06	493.40	205.00	S	580.47	E	615.61	109.45	5.50	5.48	0.48
58	MWD	4677	54.83	140.17	S	39.83	E	32	4504.76	519.22	224.97	S	597.06	E	638.04	110.65	3.82	3.78	-0.63
59	MWD	4709	56.39	140.13	S	39.87	E	32	4522.84	545.48	245.24	S	613.98	E	661.15	111.77	4.88	4.88	-0.12
60	MWD	4741	57.64	139.67	S	40.33	E	32	4540.26	572.16	265.77	S	631.27	E	684.94	112.83	4.09	3.91	-1.44

Weatherford
 Company: SandRidge Energy
 Field: Jennifer
 County: Harper
 Well Name: Laura 3408 1-26H
 Rig: Patterson / UTI #56
 Job Number: 10474606
 Magnetic Decl: 4.57
 Grid Corr: 0.21
 Total Survey Corr: 4.36
 Date Printed: 10-Feb-15
 Proposed Azimuth: 146.18
 Target Inclination: 89.70
 MD 10188.00
 PBHL TARGET
 4799.00
 5489.95
 3367.00 N
 4838.00 E

Bit Projection	0	Depth (ft)	10024	Coordinates				Closures		Total Dogleg		Bld Rate		Turn	
No.	Tool Type	Survey Depth (ft)	Incl (°)	Azimuth (°)	Quadrant	Course Lgth(ft)	TVD (ft)	VS (ft)	N/S (ft)	E/W (ft)	Dist (ft)	Ang (°)	(°/100')	(°/100')	(°/100')
61	MWD	4772	58.06	139.50	S 40.50 E	31	4556.76	598.23	285.76 S	648.29 E	708.47	113.79	1.43	1.35	-0.55
62	MWD	4804	58.12	139.86	S 40.14 E	32	4573.67	625.22	306.47 S	665.87 E	733.01	114.71	0.97	0.19	1.13
63	MWD	4835	58.14	139.91	S 40.09 E	31	4590.04	651.39	326.60 S	682.83 E	756.92	115.56	0.15	0.06	0.16
64	MWD	4867	58.02	139.84	S 40.16 E	32	4606.96	678.39	347.37 S	700.33 E	781.75	116.38	0.42	-0.37	-0.22
65	MWD	4899	58.11	139.87	S 40.13 E	32	4623.88	705.38	368.13 S	717.84 E	806.73	117.15	0.29	0.28	0.09
66	MWD	4930	61.52	139.88	S 40.12 E	31	4639.47	732.01	388.61 S	735.11 E	831.51	117.86	11.00	11.00	0.03
67	MWD	4962	65.39	140.40	S 39.60 E	32	4653.77	760.47	410.59 S	753.45 E	858.06	118.59	12.18	12.09	1.63
68	MWD	4993	67.01	141.51	S 38.49 E	31	4666.28	788.72	432.61 S	771.32 E	884.36	119.29	6.17	5.23	3.58
69	MWD	5025	68.77	141.79	S 38.21 E	32	4678.32	818.27	455.86 S	789.71 E	911.84	120.00	5.56	5.50	0.88
70	MWD	5057	70.25	141.94	S 38.06 E	32	4689.52	848.16	479.44 S	808.22 E	939.72	120.68	4.65	4.63	0.47
71	MWD	5089	73.11	141.40	S 38.60 E	32	4699.58	878.44	503.27 S	827.06 E	968.14	121.32	9.08	8.94	-1.69
72	MWD	5121	76.25	140.69	S 39.31 E	32	4708.03	909.17	527.26 S	846.46 E	997.25	121.92	10.04	9.81	-2.22
73	MWD	5152	78.10	140.35	S 39.65 E	31	4714.91	939.25	550.59 S	865.68 E	1025.94	122.46	6.06	5.97	-1.10
74	MWD	5184	81.73	140.43	S 39.57 E	32	4720.52	970.59	574.86 S	885.76 E	1055.95	122.98	11.35	11.34	0.25
75	MWD	5215	84.05	140.96	S 39.04 E	31	4724.35	1001.21	598.66 S	905.25 E	1085.30	123.48	7.67	7.48	1.71
76	MWD	5247	86.02	140.81	S 39.19 E	32	4727.12	1032.95	623.40 S	925.36 E	1115.75	123.97	6.17	6.16	-0.47
77	MWD	5278	86.57	140.37	S 39.63 E	31	4729.13	1063.74	647.30 S	945.00 E	1145.43	124.41	2.27	1.77	-1.42
78	MWD	5310	86.78	140.18	S 39.82 E	32	4730.98	1095.52	671.87 S	965.41 E	1176.19	124.84	0.88	0.66	-0.59
79	MWD	5342	87.13	140.01	S 39.99 E	32	4732.68	1127.29	696.38 S	985.91 E	1207.05	125.23	1.22	1.09	-0.53
80	MWD	5373	87.34	139.36	S 40.64 E	31	4734.18	1158.06	719.99 S	1005.95 E	1237.06	125.59	2.20	0.68	-2.10
81	MWD	5405	87.48	139.21	S 40.79 E	32	4735.62	1189.79	744.22 S	1026.80 E	1268.14	125.93	0.64	0.44	-0.47
82	MWD	5436	87.76	138.86	S 41.14 E	31	4736.91	1220.52	767.61 S	1047.11 E	1298.33	126.24	1.45	0.90	-1.13
83	MWD	5468	87.48	138.80	S 41.20 E	32	4738.24	1252.23	791.68 S	1068.15 E	1329.55	126.54	0.89	-0.88	-0.19
84	MWD	5500	87.90	139.02	S 40.98 E	32	4739.53	1283.95	815.77 S	1089.17 E	1360.80	126.83	1.48	1.31	0.69
85	MWD	5532	87.97	139.52	S 40.48 E	32	4740.68	1315.70	840.01 S	1110.03 E	1392.04	127.12	1.58	0.22	1.56
86	MWD	5564	87.41	139.70	S 40.30 E	32	4741.97	1347.46	864.36 S	1130.75 E	1423.28	127.39	1.84	-1.75	0.56
87	MWD	5595	87.69	139.95	S 40.05 E	31	4743.30	1378.24	888.02 S	1150.73 E	1453.54	127.66	1.21	0.90	0.81
88	MWD	5612	87.83	139.79	S 40.21 E	17	4743.96	1395.13	901.01 S	1161.68 E	1470.14	127.80	1.25	0.82	-0.94
89	MWD	5629	87.83	139.38	S 40.62 E	17	4744.60	1412.00	913.95 S	1172.69 E	1486.78	127.93	2.41	0.00	-2.41
90	MWD	5692	88.74	138.68	S 41.32 E	63	4746.49	1474.48	961.49 S	1213.98 E	1548.62	128.38	1.82	1.44	-1.11

Weatherford
 Company: SandRidge Energy
 Field: Jennifer
 County: Harper
 Well Name: Laura 3408 1-26H
 Rig: Patterson / UTI #56
 Job Number: 10474606
 Magnetic Decl: 4.57
 Grid Corr: 0.21
 Total Survey Corr: 4.36
 Date Printed: 10-Feb-15
 Proposed Azimuth: 146.18
 Target Inclination: 89.70
 MD 10188.00
 PBHL TARGET
 4799.00
 5489.95
 3367.00 N
 4838.00 E

Bit Projection	0	Depth (ft)	10024	Coordinates				Closure				Total Dogleg				Bid Rate				Turn			
No.	Tool Type	Survey Depth (ft)	Incl (°)	Azimuth (°)	Quadrant	Course Lgth(ft)	TVD (ft)	VS (ft)	N/S (ft)	E/W (ft)	Dist (ft)	Ang (°)	Total Dogleg (°/100')	Bid Rate (°/100')	Turn (°/100')								
91	MWD	5787	89.93	138.41	S	41.59	E	95	4747.59	1568.63	1032.69	S	1276.87	E	1642.21	128.96	1.28	1.25	-0.28				
92	MWD	5881	87.76	137.63	S	42.37	E	94	4749.49	1661.66	1102.55	S	1339.73	E	1735.07	129.45	2.45	-2.31	-0.83				
93	MWD	5976	87.41	134.53	S	45.47	E	95	4753.49	1755.09	1170.91	S	1405.56	E	1829.37	129.80	3.28	-0.37	-3.26				
94	MWD	6071	89.09	130.06	S	49.94	E	95	4756.39	1847.24	1234.79	S	1475.78	E	1924.22	129.92	5.02	1.77	-4.71				
95	MWD	6166	90.77	127.11	S	52.89	E	95	4756.51	1937.79	1294.03	S	1550.02	E	2019.18	129.86	3.57	1.77	-3.11				
96	MWD	6261	92.31	124.48	S	55.52	E	95	4753.96	2026.79	1349.56	S	1627.04	E	2113.90	129.67	3.21	1.62	-2.77				
97	MWD	6373	92.31	119.19	S	60.81	E	112	4749.44	2128.72	1408.57	S	1722.08	E	2224.78	129.28	4.72	0.00	-4.72				
98	MWD	6451	90.63	117.22	S	62.78	E	78	4747.44	2197.57	1445.42	S	1790.79	E	2301.34	128.91	3.32	-2.15	-2.53				
99	MWD	6546	87.83	112.48	S	67.52	E	95	4748.72	2278.68	1485.33	S	1876.96	E	2393.57	128.36	5.79	-2.95	-4.99				
100	MWD	6641	88.67	108.47	S	71.53	E	95	4751.62	2355.77	1518.54	S	1965.89	E	2484.09	127.68	4.31	0.88	-4.22				
101	MWD	6736	89.09	107.18	S	72.82	E	95	4753.47	2430.25	1547.61	S	2056.31	E	2573.62	126.97	1.43	0.44	-1.36				
102	MWD	6831	90.21	107.19	S	72.81	E	95	4754.05	2504.09	1575.68	S	2147.07	E	2663.21	126.27	1.18	1.18	0.01				
103	MWD	6926	87.90	105.93	S	74.07	E	95	4755.62	2577.25	1602.75	S	2238.11	E	2752.80	125.61	2.77	-2.43	-1.33				
104	MWD	7021	87.55	105.75	S	74.25	E	95	4759.39	2649.60	1628.66	S	2329.43	E	2842.32	124.96	0.41	-0.37	-0.19				
105	MWD	7116	87.76	105.49	S	74.51	E	95	4763.28	2721.71	1654.22	S	2420.84	E	2932.05	124.35	0.35	0.22	-0.27				
106	MWD	7211	88.46	105.54	S	74.46	E	95	4766.41	2793.73	1679.61	S	2512.33	E	3022.07	123.76	0.74	0.74	0.05				
107	MWD	7305	88.11	104.46	S	75.54	E	94	4769.23	2864.45	1703.93	S	2603.09	E	3111.18	123.21	1.21	-0.37	-1.15				
108	MWD	7400	88.53	104.12	S	75.88	E	95	4772.01	2935.14	1727.37	S	2695.11	E	3201.16	122.66	0.57	0.44	-0.36				
109	MWD	7495	89.79	104.70	S	75.30	E	95	4773.40	3005.98	1751.01	S	2787.11	E	3291.50	122.14	1.46	1.33	0.61				
110	MWD	7590	90.21	104.36	S	75.64	E	95	4773.40	3076.97	1774.84	S	2879.07	E	3382.17	121.65	0.57	0.44	-0.36				
111	MWD	7685	91.33	104.19	S	75.81	E	95	4772.13	3147.67	1798.26	S	2971.13	E	3472.94	121.18	1.19	1.18	-0.18				
112	MWD	7753	92.03	105.17	S	74.83	E	68	4770.13	3198.57	1815.49	S	3036.88	E	3538.17	120.87	1.77	1.03	1.44				
113	MWD	7848	92.38	109.92	S	70.08	E	95	4766.48	3272.70	1844.10	S	3127.36	E	3630.58	120.53	5.01	0.37	5.00				
114	MWD	7943	91.54	112.79	S	67.21	E	95	4763.23	3350.64	1878.67	S	3215.78	E	3724.33	120.29	3.15	-0.88	3.02				
115	MWD	8038	90.14	113.61	S	66.39	E	95	4761.83	3430.32	1916.09	S	3303.08	E	3818.61	120.12	1.71	-1.47	0.86				
116	MWD	8133	91.61	113.91	S	66.09	E	95	4760.38	3510.50	1954.36	S	3390.02	E	3913.02	119.96	1.58	1.55	0.32				
117	MWD	8228	89.86	116.16	S	63.84	E	95	4759.16	3591.79	1994.55	S	3476.08	E	4007.66	119.85	3.00	-1.84	2.37				
118	MWD	8323	88.32	119.12	S	60.88	E	95	4760.67	3675.22	2038.61	S	3560.21	E	4102.57	119.80	3.51	-1.62	3.12				
119	MWD	8417	89.30	117.96	S	62.04	E	94	4762.63	3758.48	2083.51	S	3642.77	E	4196.52	119.77	1.62	1.04	-1.23				
120	MWD	8512	89.65	119.17	S	60.83	E	95	4763.50	3842.65	2128.93	S	3726.20	E	4291.50	119.74	1.33	0.37	1.27				

No.	Tool Type	Survey Depth (ft)	Depth (ft)	Incl (°)	Azimuth (°)	Quadrant	Course Lgth(ft)	TVD (ft)	VS (ft)	N/S (ft)	Coordinates E/W (ft)	Dist (ft)	Closure Ang (°)	Total Dogleg (%/100')	Bid Rate (%/100')	Turn (%/100')	
121	MWD	8606	91.47	120.49	S	59.51	E	4762.58	3926.87	2175.69	S	3807.74	E	4385.49	119.74	2.39	1.94
122	MWD	8702	91.96	120.49	S	59.51	E	4759.70	4013.34	2224.37	S	3890.43	E	4481.43	119.76	0.51	0.51
123	MWD	8799	93.35	122.43	S	57.57	E	4755.21	4101.35	2274.94	S	3973.07	E	4578.28	119.79	2.46	1.43
124	MWD	8894	91.47	125.60	S	54.40	E	4751.22	4189.24	2328.03	S	4051.73	E	4672.93	119.88	3.88	-1.98
125	MWD	8989	91.26	128.80	S	51.20	E	4748.95	4279.04	2385.44	S	4127.37	E	4767.13	120.03	3.37	-0.22
126	MWD	9084	90.77	131.96	S	48.04	E	4747.27	4370.42	2446.97	S	4199.72	E	4860.59	120.23	3.37	-0.52
127	MWD	9179	90.07	134.06	S	45.94	E	4746.57	4462.92	2511.77	S	4269.18	E	4953.27	120.47	2.33	-0.74
128	MWD	9274	89.09	136.68	S	43.32	E	4747.27	4556.22	2579.37	S	4335.91	E	5045.12	120.75	2.94	-1.03
129	MWD	9369	88.18	138.69	S	41.31	E	4749.53	4650.14	2649.59	S	4399.85	E	5136.05	121.06	2.32	-0.96
130	MWD	9464	87.69	141.37	S	38.63	E	4752.96	4744.53	2722.34	S	4460.83	E	5225.91	121.39	2.87	-0.52
131	MWD	9559	89.30	143.73	S	36.27	E	4755.45	4839.29	2797.73	S	4518.57	E	5314.58	121.76	3.01	1.69
132	MWD	9654	89.16	144.87	S	35.13	E	4756.73	4934.23	2874.87	S	4574.00	E	5402.44	122.15	1.21	-0.15
133	MWD	9750	89.58	147.85	S	32.15	E	4757.78	5030.21	2954.78	S	4627.17	E	5490.12	122.56	3.13	0.44
134	MWD	9845	90.49	149.79	S	30.21	E	4757.73	5125.11	3036.05	S	4676.35	E	5575.47	122.99	2.26	0.96
135	MWD	9938	90.63	150.55	S	29.45	E	4756.82	5217.88	3116.72	S	4722.61	E	5658.36	123.42	0.83	0.15
	PTB	10024	90.63	150.55	S	29.45	E	4755.87	5303.62	3191.60	S	4764.89	E	5735.03	123.81	0.00	0.00

STAGE 1								
Port @ 9,981'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min	Sand
15% HCl acid	20	1000	24				1	
Slickwater	96	11100	264				3	
Slickwater	96	7900	188	40/70	0.25	1975	2	Garnett
Slickwater	96	7900	188	40/70	0.50	3950	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	7900	188	40/70	0.50	3950	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	7900	188	40/70	0.75	5925	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	7900	188	40/70	1.00	7900	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	3300	79	40/70	1.00	3300	1	Garnett
Slickwater	96	13845	330				3	
TOTAL		88,745	2,113			27,000	22	20%

Frac the MISSISSIPPI (Stage 2) as follows:
 Drop 2.250" ball. Reduce rate to 5-10bpm as +/- 227 bbls (50 bbls before ball seats).

STAGE 2								
Port @ 9,844'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min	Sand
15% HCl acid	20	750	18				1	
Slickwater	96	11300	269				3	
Slickwater	96	8100	193	40/70	0.25	2025	2	Garnett
Slickwater	96	8100	193	40/70	0.50	4050	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	8100	193	40/70	0.50	4050	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	8100	193	40/70	0.75	6075	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	8100	193	40/70	1.00	8100	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	3400	81	40/70	1.00	3400	1	Garnett
Slickwater	96	13756	328				3	
TOTAL		89,706	2,136			27,700	22	20%

Frac the MISSISSIPPI (Stage 3) as follows:
 Drop 2.313" ball. Reduce rate to 5-10bpm as +/- 225 bbls (50 bbls before ball seats).

STAGE 3								
Port @ 9,706'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min	Sand
15% HCl acid	20	500	12				1	
Slickwater	96	11300	269				3	
Slickwater	96	8100	193	40/70	0.25	2025	2	Garnett
Slickwater	96	8100	193	40/70	0.50	4050	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	8100	193	40/70	0.50	4050	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	8100	193	40/70	0.75	6075	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	8100	193	40/70	1.00	8100	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	3400	81	40/70	1.00	3400	1	Garnett
Slickwater	96	13666	325				3	
TOTAL		89,366	2,128			27,700	22	20%

Frac the MISSISSIPPI (Stage 4) as follows:
 Drop 2.375" ball. Reduce rate to 5-10bpm as +/- 223 bbls (50 bbls before ball seats).

STAGE 4								
Port @ 9,570'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min	Sand
15% HCl acid	20	500	12				1	
Slickwater	96	11300	269				3	
Slickwater	96	8100	193	40/70	0.25	2025	2	Garnett
Slickwater	96	8100	193	40/70	0.50	4050	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	8100	193	40/70	0.50	4050	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	8100	193	40/70	0.75	6075	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	8100	193	40/70	1.00	8100	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	3400	81	40/70	1.00	3400	1	Garnett
Slickwater	96	13578	323				3	
TOTAL		89,278	2,126			27,700	22	20%

Frac the MISSISSIPPI (Stage 5) as follows:
 Drop 2.438" ball. Reduce rate to 5-10bpm as +/- 221 bbls (50 bbls before ball seats).

STAGE 5								
Port @ 9,432'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min	Sand
15% HCl acid	20	250	6				0	
Slickwater	96	11300	269				3	
Slickwater	96	8100	193	40/70	0.25	2025	2	Garnett
Slickwater	96	8100	193	40/70	0.50	4050	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	8100	193	40/70	0.50	4050	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	8100	193	40/70	0.75	6075	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	8100	193	40/70	1.00	8100	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	3400	81	40/70	1.00	3400	1	Garnett
Slickwater	96	13488	321				3	
TOTAL		88,938	2,118			27,700	21	20%

Frac the MISSISSIPPI (Stage 6) as follows:
Drop 2.500" ball. Reduce rate to 5-10bpm as +/- 218 bbls (50 bbls before ball seats).

STAGE 6								
Port @ 9,253'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min	Sand
15% HCl acid	20	250	6				0	
Slickwater	96	16200	386				4	
Slickwater	96	13200	314	40/70	0.25	3300	3	Garnett
Slickwater	96	13200	314	40/70	0.50	6600	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	13200	314	40/70	0.50	6600	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	13200	314	40/70	0.75	9900	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	13200	314	40/70	1.00	13200	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	5500	131	40/70	1.00	5500	1	Garnett
Slickwater	96	13371	318				3	
TOTAL		121,321	2,889			45,100	29	20%

Frac the MISSISSIPPI (Stage 7) as follows:
Drop 2.563" ball. Reduce rate to 5-10bpm as +/- 215 bbls (50 bbls before ball seats).

STAGE 7								
Port @ 9,068'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min	Sand
15% HCl acid	20	250	6				0	
Slickwater	96	11700	279				3	
Slickwater	96	8500	202	40/70	0.25	2125	2	Garnett
Slickwater	96	8500	202	40/70	0.50	4250	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	8500	202	40/70	0.50	4250	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	8500	202	40/70	0.75	6375	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	8500	202	40/70	1.00	8500	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	3600	86	40/70	1.00	3600	1	Garnett
Slickwater	96	13251	315				3	
TOTAL		91,301	2,174			29,100	22	20%

Frac the MISSISSIPPI (Stage 8) as follows:
Drop 2.625" ball. Reduce rate to 5-10bpm as +/- 213 bbls (50 bbls before ball seats).

STAGE 8								
Port @ 8,922'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min	Sand
15% HCl acid	20	250	6				0	
Slickwater	96	9200	219				2	
Slickwater	96	5900	140	40/70	0.25	1475	1	Garnett
Slickwater	96	5900	140	40/70	0.50	2950	1	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	5900	140	40/70	0.50	2950	1	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	5900	140	40/70	0.75	4425	1	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	5900	140	40/70	1.00	5900	1	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	2500	60	40/70	1.00	2500	1	Garnett
Slickwater	96	13156	313				3	
TOTAL		74,606	1,776			20,200	18	20%



Frac the MISSISSIPPI (Stage 9) as follows:
 Drop 2.688" ball. Reduce rate to 5-10bpm as +/- 210 bbls (50 bbls before ball seats).

STAGE 9								
Port @ 8,731'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min	Sand
15% HCl acid	20	250	6				0	
Slickwater	96	16900	402				4	
Slickwater	96	13900	331	40/70	0.25	3475	3	Garnett
Slickwater	96	13900	331	40/70	0.50	6950	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	13900	331	40/70	0.50	6950	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	13900	331	40/70	0.75	10425	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	13900	331	40/70	1.00	13900	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	5800	138	40/70	1.00	5800	1	Garnett
Slickwater	96	13031	310				3	
TOTAL		125,481	2,988			47,500	30	20%

Frac the MISSISSIPPI (Stage 10) as follows:
 Drop 2.750" ball. Reduce rate to 5-10bpm as +/- 207 bbls (50 bbls before ball seats).

STAGE 10								
Port @ 8,539'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min	Sand
15% HCl acid	20	250	6				0	
Slickwater	96	14400	343				3	
Slickwater	96	11300	269	40/70	0.25	2825	3	Garnett
Slickwater	96	11300	269	40/70	0.50	5650	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	11300	269	40/70	0.50	5650	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	11300	269	40/70	0.75	8475	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	11300	269	40/70	1.00	11300	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	4700	112	40/70	1.00	4700	1	Garnett
Slickwater	96	12906	307				3	
TOTAL		108,756	2,589			38,600	26	19%

Frac the MISSISSIPPI (Stage 11) as follows:
 Drop 2.813" ball. Reduce rate to 5-10bpm as +/- 204 bbls (50 bbls before ball seats).

STAGE 11								
Port @ 8,347'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min	Sand
15% HCl acid	20	250	6				0	
Slickwater	96	14300	340				3	
Slickwater	96	11200	267	40/70	0.25	2800	3	Garnett
Slickwater	96	11200	267	40/70	0.50	5600	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	11200	267	40/70	0.50	5600	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	11200	267	40/70	0.75	8400	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	11200	267	40/70	1.00	11200	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	4700	112	40/70	1.00	4700	1	Garnett
Slickwater	96	12781	304				3	
TOTAL		108,031	2,572			38,300	26	20%

Frac the MISSISSIPPI (Stage 12) as follows:
 Drop 2.875" ball. Reduce rate to 5-10bpm as +/- 202 bbls (50 bbls before ball seats).

STAGE 12								
Port @ 8,201'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min	Sand
15% HCl acid	20	250	6				0	
Slickwater	96	11800	281				3	
Slickwater	96	8600	205	40/70	0.25	2150	2	Garnett
Slickwater	96	8600	205	40/70	0.50	4300	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	8600	205	40/70	0.50	4300	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	8600	205	40/70	0.75	6450	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	8600	205	40/70	1.00	8600	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	3600	86	40/70	1.00	3600	1	Garnett
Slickwater	96	12686	302				3	
TOTAL		91,336	2,175			29,400	22	20%

Frac the MISSISSIPPI (Stage 13) as follows:
 Drop 2.938" ball. Reduce rate to 5-10bpm as +/- 199 bbls (50 bbls before ball seats).

STAGE 13								
Port @ 8,011'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min	Sand
15% HCl acid	20	250	6				0	
Slickwater	96	14400	343				3	
Slickwater	96	11300	269	40/70	0.25	2825	3	Garnett
Slickwater	96	11300	269	40/70	0.50	5650	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	11300	269	40/70	0.50	5650	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	11300	269	40/70	0.75	8475	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	11300	269	40/70	1.00	11300	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	4700	112	40/70	1.00	4700	1	Garnett
Slickwater	96	12563	299				3	
TOTAL		108,413	2,581			38,600	26	19%

Frac the MISSISSIPPI (Stage 14) as follows:
 Drop 3.000" ball. Reduce rate to 5-10bpm as +/- 196 bbls (50 bbls before ball seats).

STAGE 14								
Port @ 7,818'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min	Sand
15% HCl acid	20	250	6				0	
Slickwater	96	14400	343				3	
Slickwater	96	11300	269	40/70	0.25	2825	3	Garnett
Slickwater	96	11300	269	40/70	0.50	5650	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	11300	269	40/70	0.50	5650	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	11300	269	40/70	0.75	8475	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	11300	269	40/70	1.00	11300	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	4700	112	40/70	1.00	4700	1	Garnett
Slickwater	96	12437	296				3	
TOTAL		108,287	2,578			38,600	26	19%

Frac the MISSISSIPPI (Stage 15) as follows:
 Drop 3.063" ball. Reduce rate to 5-10bpm as +/- 193 bbls (50 bbls before ball seats).

STAGE 15								
Port @ 7,632'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min	Sand
15% HCl acid	20	250	6				0	
Slickwater	96	14000	333				3	
Slickwater	96	10900	260	40/70	0.25	2725	3	Garnett
Slickwater	96	10900	260	40/70	0.50	5450	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	10900	260	40/70	0.50	5450	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	10900	260	40/70	0.75	8175	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	10900	260	40/70	1.00	10900	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	4600	110	40/70	1.00	4600	1	Garnett
Slickwater	96	12316	293				3	
TOTAL		105,666	2,516			37,300	25	20%

Frac the MISSISSIPPI (Stage 16) as follows:
 Drop 3.125" ball. Reduce rate to 5-10bpm as +/- 190 bbls (50 bbls before ball seats).

STAGE 16								
Port @ 7,441'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min	Sand
15% HCl acid	20	250	6				0	
Slickwater	96	11700	279				3	
Slickwater	96	8500	202	40/70	0.25	2125	2	Garnett
Slickwater	96	8500	202	40/70	0.50	4250	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	8500	202	40/70	0.50	4250	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	8500	202	40/70	0.75	6375	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	8500	202	40/70	1.00	8500	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	3600	86	40/70	1.00	3600	1	Garnett
Slickwater	96	12192	290				3	
TOTAL		90,242	2,149			29,100	22	20%

Frac the MISSISSIPPI (Stage 17) as follows:
 Drop 3.188" ball. Reduce rate to 5-10bpm as +/- 188 bbls (50 bbls before ball seats).

STAGE 17								
Port @ 7,296'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min	Sand
15% HCl acid	20	250	6				0	
Slickwater	96	14300	340				3	
Slickwater	96	11200	267	40/70	0.25	2800	3	Garnett
Slickwater	96	11200	267	40/70	0.50	5600	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	11200	267	40/70	0.50	5600	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	11200	267	40/70	0.75	8400	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	11200	267	40/70	1.00	11200	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	4700	112	40/70	1.00	4700	1	Garnett
Slickwater	96	12097	288				3	
TOTAL		107,347	2,556			38,300	26	20%

Frac the MISSISSIPPI (Stage 18) as follows:
Drop 3.250" ball. Reduce rate to 5-10bpm as +/- 185 bbls (50 bbls before ball seats).

STAGE 18								
Port @ 7,108'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min	Sand
15% HCl acid	20	250	6				0	
Slickwater	96	14300	340				3	
Slickwater	96	11200	267	40/70	0.25	2800	3	Garnett
Slickwater	96	11200	267	40/70	0.50	5600	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	11200	267	40/70	0.50	5600	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	11200	267	40/70	0.75	8400	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	11200	267	40/70	1.00	11200	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	4700	112	40/70	1.00	4700	1	Garnett
Slickwater	96	11975	285				3	
TOTAL		107,225	2,553			38,300	26	20%

Frac the MISSISSIPPI (Stage 19) as follows:
Drop 3.313" ball. Reduce rate to 5-10bpm as +/- 182 bbls (50 bbls before ball seats).

STAGE 19								
Port @ 6,916'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min	Sand
15% HCl acid	20	250	6				0	
Slickwater	96	14000	333				3	
Slickwater	96	10900	260	40/70	0.25	2725	3	Garnett
Slickwater	96	10900	260	40/70	0.50	5450	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	10900	260	40/70	0.50	5450	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	10900	260	40/70	0.75	8175	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	10900	260	40/70	1.00	10900	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	4600	110	40/70	1.00	4600	1	Garnett
Slickwater	96	11850	282				3	
TOTAL		105,200	2,505			37,300	25	20%

Frac the MISSISSIPPI (Stage 20) as follows:
Drop 3.375" ball. Reduce rate to 5-10bpm as +/- 218 bbls (50 bbls before ball seats).

STAGE 20								
Port @ 6,731'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min	Sand
15% HCl acid	20	250	6				0	
Slickwater	96	11700	279				3	
Slickwater	96	8500	202	40/70	0.25	2125	2	Garnett
Slickwater	96	8500	202	40/70	0.50	4250	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	8500	202	40/70	0.50	4250	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	8500	202	40/70	0.75	6375	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	8500	202	40/70	1.00	8500	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	3600	86	40/70	1.00	3600	1	Garnett
Slickwater	96	7348	175				2	
TOTAL		85,398	2,033			29,100	21	20%

Frac the MISSISSIPPI (Stage 21) as follows:
 Drop 3.438" ball. Reduce rate to 5-10bpm as +/- 215 bbls (50 bbls before ball seats).

STAGE 21								
Port @ 6,542'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min	Sand
15% HCl acid	20	250	6				0	
Slickwater	96	16800	400				4	
Slickwater	96	13800	329	40/70	0.25	3450	3	Garnett
Slickwater	96	13800	329	40/70	0.50	6900	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	13800	329	40/70	0.50	6900	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	13800	329	40/70	0.75	10350	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	13800	329	40/70	1.00	13800	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	5800	138	40/70	1.00	5800	1	Garnett
Slickwater	96	7348	175				2	
TOTAL		119,198	2,838			47,200	29	20%

Frac the MISSISSIPPI (Stage 22) as follows:
 Drop 3.500" ball. Reduce rate to 5-10bpm as +/- 213 bbls (50 bbls before ball seats).

STAGE 22								
Port @ 6,397'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min	Sand
15% HCl acid	20	250	6				0	
Slickwater	96	14200	338				3	
Slickwater	96	11100	264	40/70	0.25	2775	3	Garnett
Slickwater	96	11100	264	40/70	0.50	5550	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	11100	264	40/70	0.50	5550	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	11100	264	40/70	0.75	8325	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	11100	264	40/70	1.00	11100	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	4600	110	40/70	1.00	4600	1	Garnett
Slickwater	96	7348	175				2	
TOTAL		101,898	2,426			37,900	24	19%

Frac the MISSISSIPPI (Stage 23) as follows:
 Drop 3.563" ball. Reduce rate to 5-10bpm as +/- 210 bbls (50 bbls before ball seats).

STAGE 23								
Port @ 6,210'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min	Sand
15% HCl acid	20	250	6				0	
Slickwater	96	11700	279				3	
Slickwater	96	8500	202	40/70	0.25	2125	2	Garnett
Slickwater	96	8500	202	40/70	0.50	4250	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	8500	202	40/70	0.50	4250	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	8500	202	40/70	0.75	6375	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	8500	202	40/70	1.00	8500	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	3600	86	40/70	1.00	3600	1	Garnett
Slickwater	96	7348	175				2	
TOTAL		85,398	2,033			29,100	21	20%



Frac the MISSISSIPPI (Stage 24) as follows:
 Drop 3.625" ball. Reduce rate to 5-10bpm as +/- 207 bbls (50 bbls before ball seats).

STAGE 24								
Port @ 6,020'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min	Sand
15% HCl acid	20	250	6				0	
Slickwater	96	16300	388				4	
Slickwater	96	13300	317	40/70	0.25	3325	3	Garnett
Slickwater	96	13300	317	40/70	0.50	6650	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	13300	317	40/70	0.50	6650	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	13300	317	40/70	0.75	9975	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	13300	317	40/70	1.00	13300	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	5600	133	40/70	1.00	5600	1	Garnett
Slickwater	96	7348	175				2	
TOTAL		115,998	2,762			45,500	28	20%

Frac the MISSISSIPPI (Stage 25) as follows:
 Drop 3.688" ball. Reduce rate to 5-10bpm as +/- 218 bbls (50 bbls before ball seats).

STAGE 25								
Port @ 5,839'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min	Sand
15% HCl acid	20	250	6				0	
Slickwater	96	11600	276				3	
Slickwater	96	8400	200	40/70	0.25	2100	2	Garnett
Slickwater	96	8400	200	40/70	0.50	4200	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	8400	200	40/70	0.50	4200	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	8400	200	40/70	0.75	6300	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	8400	200	40/70	1.00	8400	2	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	3500	83	40/70	1.00	3500	1	Garnett
Slickwater	96	7348	175				2	
TOTAL		84,698	2,017			28,700	20	20%

Frac the MISSISSIPPI (Stage 26) as follows:
 Drop 3.750" ball. Reduce rate to 5-10bpm as +/- 215 bbls (50 bbls before ball seats).

STAGE 26								
Port @ 5,896'								
Fluid	Rate	Vol, gal	Vol, bbl	Prop	Prop Con	Prop, lbs	Time, min	Sand
15% HCl acid	20	250	6				0	
Slickwater	96	17100	407				4	
Slickwater	96	14100	336	40/70	0.25	3525	3	Garnett
Slickwater	96	14100	336	40/70	0.50	7050	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	14100	336	40/70	0.50	7050	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	14100	336	40/70	0.75	10575	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	14100	336	40/70	1.00	14100	3	Genoa
Slickwater	96	5000	119				1	
Slickwater	96	5900	140	40/70	1.00	5900	1	Garnett
Slickwater	96	7348	175				2	
TOTAL		121,098	2,883			48,200	29	20%

TOTAL FRAC JOB VOLUMES: 62,213 bbls 909,200 lbs, Prop

LAURA 3408 1-26H

* * SCHNACKENBERG 3408 1-23H14

Miss Entry: 5250'
-98.161348 37.064107

Top Perf: 5696'
-98.160323 37.063206

Section 26
34S 8W

Harper County

Bottom Perf: 9981'
-98.148017 37.057561

BHL: 10024'
-98.147866 37.057360

364' FEL

2424' FSL

Section 35
34S 8W



Actual Bottom-Hole Location of Laura 3408 1-26H
T&R: 34S 8W
Section: 34, 364' FEL & 2424' FSL
-98.147866 37.057360

1 in = 667 ft

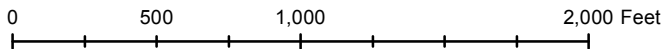


● Actual BH Location

* SandRidge Wells

--- Perf

□ Sections



Draftsman:

Dory Deines

Draft Date: 2/10/2015

Drawing Name/Number:

Addendum_Laura 3408 1-26H.mxd

Coordinate System:

NAD 1927 State Plane
Kansas South FIPS: 1502

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	12/12/2014
Job End Date:	12/13/2014
State:	Kansas
County:	Harper
API Number:	15-077-22109-01-00
Operator Name:	SandRidge Energy
Well Name and Number:	Laura 3408 1-26H
Longitude:	-98.16425502
Latitude:	37.06572157
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	5,304
Total Base Water Volume (gal):	2,818,158
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Archer	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	95.70278	None
Sand (Proppant)	Archer	Proppant					
			Silica Substrate	NA	100.00000	3.65768	None
C102	Bosque Disposal Systems, LLC	Oxidizer					
			Chlorine Dioxide	10049-04-4	15.00000	0.27181	
Hydrochloric Acid (15%)	Archer	Acidizing					
			Hydrochloric Acid	7647-01-0	15.00000	0.04452	None
			Methyl Alcohol	67-56-1	80.00000	0.00038	None
			thiourea-formaldehyde copolymer	68527-49-1	15.00000	0.00007	None
			NONYL PHENOL, 4 MOL	104-40-5	10.00000	0.00005	None
AIC	Archer	Liquid Acid Iron Control					
			Acetic Acid	64-19-7	50.00000	0.00084	None
			Citric Acid	77-92-9	30.00000	0.00050	None
Chemflush	Archer	Enviro-Friendly Chemical Flush					
			Hydrotreated Petroleum Distillate	64742-47-8	99.00000	0.00051	None

		Alcohol Ethoxylate Surfactants	NA	10.00000	0.00005	None
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.						
		Other Chemicals				
		Water	7732-18-5		0.03499	
		Anionic Polymer	N/A		0.01750	
		Aliphatic Hydrocarbon	64742-47-8		0.01750	
		Water	7732-18-5		0.00845	
		Polyol Ester	N/A		0.00292	
		Oxyalkylated Alcohol	68002-97-1		0.00292	
		Sodium Salt of Phosphate Ester	68131-72-6		0.00141	
		Acrylic Polymer	28205-96-1		0.00141	
		Water	7732-18-5		0.00059	
		Polyglycol Ester	N/A		0.00058	
		WATER	7732-18-5		0.00031	
		TRADE SECRET	N/A		0.00021	
		Alcohol Ethoxylate Surfactants	N/A		0.00007	
		Tetrasodium Ethylenediaminetetraacetate	64-02-8		0.00006	
		METHANOL	67-56-1		0.00005	
		ISOPROPANOL	67-63-0		0.00005	
		n-olefins	N/A		0.00004	
		Propargyl Alcohol	107-19-7		0.00003	
		Buffer	N/A			
		Cinnamic Aldehyde	104-55-2			
		Surfactant	N/A			
		Water	7732-18-5			
		Acetic Acid	64-19-7			

* 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)