

# Koda Services, Inc.

# INVOICE

Conductor and Rat Hole Drilling, Landfill Gas Drilling and Well Construction Nationwide

Date	Invoice #
3/23/2013	10420

Bill To
Sandridge Energy Accounts Payable P O Box 1748 Oklahoma City, OK 73102

Legal Description	Ordered By	Terms	Field Ticket	Lease Name	Drill Rig
	Bryce	Net 30	7958	Jill #1-8 SWD	Atlas #3

Item	Quantity	Description
Conductor	90	Drilled 90' of 32" hole for conductor
20" Pipe	90	Furnished 90' of 20" conductor pipe
Ream Hole		Ream Hole
72" X 6'	1	Furnished 6' X 6' tinhorn
Dirt Removal		Provided Labor and Equipment for dirt removal and cleanup
15"X 30'	1	Furnished 30' Shuck
15"X 20'	1	Furnished 20' Shuck
Placement		Equipment and Labor to place shucks in rat & mouse holes
Mud/Water		Furnished Mud, Water, & Trucking
Welder		Welder
Grout		Furnished grout
Deliver Grout		Deliver grout to location
Equipment		Furnished Grout Pump & Flush
Rat & Mouse		Drilled Rat & Mouse Holes
Cover Plate		Cover Plate
Safety Ring		Safety Ring

AFE Number: DC/2664  
 Well Name: Jill SWD 3406 1-8  
 Code: 856 010  
 Amount: 13,851.23  
 Co. Man: \_\_\_\_\_  
 Co. Man Sig.: [Signature]  
 Notes: \_\_\_\_\_

Thank you for your business.	<b>Subtotal</b>	\$13,500.00
	<b>Sales Tax (6.3%)</b>	\$351.23
	<b>Total</b>	\$13,851.23

Koda Service, Inc.

7958

P.O. Box 66 • Woodward, Oklahoma 73802  
(580) 254-5019 • Fax (580) 254-5908

Date Called 2-13-13

Time Wanted 2-14-13

Co. Sand Ridge

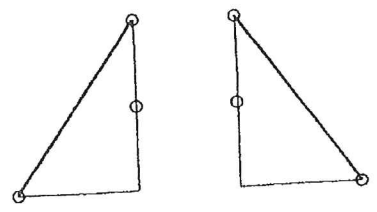
By Bozyc

Rig No. Atlas #3 Phone No. \_\_\_\_\_

Face Rig 

N	E	S	<input checked="" type="checkbox"/> W
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Rat Hole 30  
Mouse Hole 20  
Conductor 90  
Cellar 6x6  
Tin Horn X



Legal Description \_\_\_\_\_

Location Name Till #1 - S SW

Directions Anthony KS East on 44

3 mi. South on 40 Ave

4 mi. Left 1.3 mi West

Pipe \_\_\_\_\_ Mud Truck \_\_\_\_\_

Hole \_\_\_\_\_ Pump Truck \_\_\_\_\_

Cement \_\_\_\_\_ Welding \_\_\_\_\_

Time Job Completed \_\_\_\_\_

# HALLIBURTON

# Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2983005	Quote #:	Sales Order #: 900261033
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep: Mezo, David	
Well Name: Jill SWD	Well #: 3406 1-8	API/UWI #:	
Field:	City (SAP): ANTHONY	County/Parish: Harper	State: Kansas
Legal Description: Section 8 Township 34S Range 6W			
Contractor: Atlas		Rig/Platform Name/Num: 3	
Job Purpose: Cement Intermediate Casing			
Well Type: Development Well		Job Type: Cement Intermediate Casing	
Sales Person: NGUYEN, VINH		Srv Supervisor: WALTON, SCOTTY	MBU ID Emp #: 478229

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CARSON, KEVIN Lee	0.0	539333	CRAWFORD, ANDREW B	11.5	480612	STOOPS, LEVI Keith	2.5	523378
TERRY, STACY Glen	0.0	373291	TURNER, DANIEL Justin	2.5	461812	WALTON, SCOTTY Dwayne	11.5	478229

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
3-15-13	6	0	3-16-13	5.5	3			

TOTAL Total is the sum of each column separately

### Job

### Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
Form Type			BHST	On Location	15 - Mar - 2013	14:00	CST
Job depth MD	6150. ft		Job Depth TVD	Job Started	15 - Mar - 2013	18:00	CST
Water Depth			Wk Ht Above Floor	Job Completed	16 - Mar - 2013	03:16	CST
Perforation Depth (MD)	From		To	Job Completed	16 - Feb - 2013	04:27	CST
				Departed Loc	16 - Mar - 2013	05:30	CST

### Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
9.875" Open Hole				9.875				700.	5410.		
10.75" Surface Casing	Unknown		10.75	9.95	45.5	BTC	J-55	.	700.		
7.625" Intermediate Casing	Unknown		7.625	6.875	29.7	BTC		5370.	5410.		
7.625" Intermediate Casing	Unknown		7.625	6.875	29.7	BTC	HCP110	.	5370.		

### Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

### Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

### Fluid Data

# HALLIBURTON

## Cementing Job Summary

Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Rig Supplied Gel Spacer		30.00	bbl	8.33	.0	.0	.0	
2	50/50 POZ STANDARD ( w/ 2% extra gel)	ECONOCEM (TM) SYSTEM (452992)	260.0	sacks	13.6	1.53	7.24		7.24
	0.4 %	HALAD(R)-9, 50 LB (100001617)							
	2 lbm	KOL-SEAL, BULK (100064233)							
	2 %	BENTONITE, BULK (100003682)							
	7.24 Gal	FRESH WATER							
3	Premium	HALCEM (TM) SYSTEM (452986)	280.0	sacks	15.6	1.19	5.08		5.08
	0.4 %	HALAD(R)-9, 50 LB (100001617)							
	2 lbm	KOL-SEAL, BULK (100064233)							
	5.076 Gal	FRESH WATER							
4	Displacement		245.00	bbl	8.33	.0	.0	.0	
Calculated Values		Pressures			Volumes				
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	84 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					
				<i>James Clary</i>					

# HALLIBURTON

## Cementing Job Log

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 305021	<b>Ship To #:</b> 2983005	<b>Quote #:</b>	<b>Sales Order #:</b> 900261033
<b>Customer:</b> SANDRIDGE ENERGY INC EBUSINESS		<b>Customer Rep:</b> Mezo, David	
<b>Well Name:</b> Jill SWD		<b>Well #:</b> 3406 1-8	<b>API/UWI #:</b>
<b>Field:</b>	<b>City (SAP):</b> ANTHONY	<b>County/Parish:</b> Harper	<b>State:</b> Kansas
<b>Legal Description:</b> Section 8 Township 34S Range 6W			
<b>Lat:</b> N 0 deg. OR N 0 deg. 0 min. 0 secs.		<b>Long:</b> E 0 deg. OR E 0 deg. 0 min. 0 secs.	
<b>Contractor:</b> Atlas		<b>Rig/Platform Name/Num:</b> 3	
<b>Job Purpose:</b> Cement Intermediate Casing			<b>Ticket Amount:</b>
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Intermediate Casing	
<b>Sales Person:</b> NGUYEN, VINH		<b>Srvc Supervisor:</b> WALTON, SCOTTY	<b>MBU ID Emp #:</b> 478229

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	03/15/2013 14:00							Scotty Walton, Andrew Crawford, Levi Stoops, Stacy Terry, Kevin Carson
Pre-Convoy Safety Meeting	03/15/2013 15:30							Scotty Walton, Andrew Crawford, Levi Stoops, Stacy Terry, Kevin Carson
Depart from Service Center or Other Site	03/15/2013 16:00							
Arrive At Loc	03/15/2013 18:00							Arrived at Location Safely, Went over job procedures, calculations, and safety hazards. (Well TD 5412ft, Total Casing 5416.28ft, Shoe 85.18ft, 9.1ppg Mud, Running Casing With Full Returns)
Assessment Of Location Safety Meeting	03/15/2013 18:10							Identified all Potential hazards and Safe Work Zones
Pre-Rig Up Safety Meeting	03/15/2013 18:20							All HES Personell Present (watch for trip hazards, low lite areas, pinch points , confined spaces, and wear all appropriate PPE)
Rig-Up Equipment	03/15/2013 18:30							
Rig-Up Completed	03/15/2013 19:30							Rig Up Completed Safely
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Sold To # : 305021

Ship To # :2983005

Quote # :

Sales Order # : 900261033

SUMMIT Version: 7.3.0078

Saturday, March 16, 2013 05:00:00

# HALLIBURTON

## Cementing Job Log

Pre-Job Safety Meeting	03/16/2013 03:00							All HES, Customer Rep., and Rig Crew Present ( Went over dangers of being near pressurized lines, PPE, Pumping Procedures, heat stress and safe zones, muster point, and nearest hospital)
Pressure Test	03/16/2013 03:16							Test Lines to 5000PSI ( Rig Floor Clear, and Pumping Equipment area Clear, 7.625" 29.7# P-110 Casing Burst at 80% 6890*.8= 5512PSI Max Pressure)
Pump Spacer	03/16/2013 03:17		5	10	0		310.0	Pump 10BBL of Freshwater Spacer
Pump Lead Cement	03/16/2013 03:20		5	71	0		400.0	Pump 70.8BBL of 13.6PPG Halliburton 50/50 POZ Standard Cement (260 Sacks 1.53ft3/sk, 7.24gal/sk)( 260sks*1.53ft3/sk= 397.8ft3* .1781 bbl/ft3= 70.8BBL)
Pump Tail Cement	03/16/2013 03:32		5	59	0		225.0	Pump 59.3BBL of 15.6PPG Halliburton Premium Cement (280 Sacks 1.19ft3/sk, 5.08gal/sk)( 280sks*1.19ft3/sk= 333.2ft3 * .1781bbl/ft3= 59.3BBL)
Shutdown	03/16/2013 03:45		0	59	59		.0	Pumping Cement Completed
Drop Top Plug	03/16/2013 03:46							Plug Left Cementing Head
Pump Displacement	03/16/2013 03:47		7	245	0		750.0	Started Displacement Pumping 7BPM Until Displacement Reaches Cement (Disp: 5331.1ft* .045914bbl/ft= 244.77bbl)
Slow Rate	03/16/2013 04:24		3	245	235		700.0	Slowed Rate to Bump Plug
Bump Plug	03/16/2013 04:26		3	245	245		1200.0	Bumped Plug 500Psi Over Pumping Pressure
Check Floats	03/16/2013 04:27		0	245	245		.0	Floats Held
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Sold To #: 305021

Ship To #: 2983005

Quote #:

Sales Order #: 900261033

SUMMIT Version: 7.3.0078

Saturday, March 16, 2013 05:00:00

# HALLIBURTON

## *Cementing Job Log*

Pre-Rig Down Safety Meeting	03/16/2013 04:28							All HES Personell Present ( Went Over Heat Stress, PPE, Pinch Points, Trip Hazards, and Importance of Communication)
Rig-Down Equipment	03/16/2013 04:30							
Rig-Down Completed	03/16/2013 05:20							Rig Down Completed Safely
Depart Location Safety Meeting	03/16/2013 05:25							Scotty Walton, Andrew Crawford, Levi Stoops, Daniel Turner
Depart Location for Service Center or Other Site	03/16/2013 05:30							Scotty Walton, Andrew Crawford, Levi Stoops, Daniel Turner

Sold To # : 305021

Ship To # :2983005

Quote # :

Sales Order # : 900261033

SUMMIT Version: 7.3.0078

Saturday, March 16, 2013 05:00:00

RECEIVED

MAR 04 2013

**HALLIBURTON** REGULATORY DEPT  
SANDRIDGE ENERGY

*Cementing Job Summary*

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2983005	Quote #:	Sales Order #: 900242627
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep:	
Well Name: Jill SWD 3406	Well #: 1-8	API/UWI #:	
Field:	City (SAP): ANTHONY	County/Parish: Harper	State: Kansas
Contractor: ATLAS		Rig/Platform Name/Num: 3	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person:		Srvc Supervisor: WALTON, SCOTTY	MBU ID Emp #: 478229

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CRAWFORD, ANDREW B	30.0	480612	MCKEEVER, TERRY John	30.0	514733	TOPE, GEOFFREY Daniel	30.0	489420
WALTON, SCOTTY Dwayne	30.0	478229						

**Equipment**

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
2-24-13	7	0	2-25-13	23	2			

TOTAL Total is the sum of each column separately

Job				Job Times			
Formation Name	Formation Depth (MD)	Top	Bottom	Date	Time	Time Zone	
				Called Out	24 - Feb - 2013	10:00	CST
				On Location	24 - Feb - 2013	17:00	CST
Form Type			BHST	Job Started	25 - Feb - 2013	20:50	CST
Job depth MD	700. ft		Job Depth TVD	Job Completed	25 - Feb - 2013	21:40	CST
Water Depth			Wk Ht Above Floor	Departed Loc	25 - Feb - 2013	23:00	CST
Perforation Depth (MD)	From		To				

**Well Data**

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
13.5" Open Hole				13.5				350.	700.		
10.75" Surface Casing	Unknown		10.75	9.95	45.5	BTC	J-55	.	700.		
13.375" Surface Casing	Unknown		13.375	12.415	68.	Unknown		.	350.		

*NOT Ran on this well*

**Sales/Rental/3<sup>rd</sup> Party (HES)**

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG,TOP,10 3/4,HWE,9.09 MIN/10.09	1	EA		

**Tools and Accessories**

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

**Miscellaneous Materials**

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

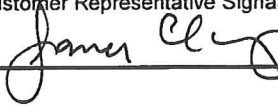
**Fluid Data**

Stage/Plug #: 1
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# HALLIBURTON

# Cementing Job Summary

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Fresh Water		10.00	bbl	8.33	.0	.0	.0	
2	HLC Standard	EXTENDACEM (TM) SYSTEM (452981)	240.0	sacks	12.4	2.11	11.57		11.57
	3 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	0.25 lbm	POLY-E-FLAKE (101216940)							
	11.571 Gal	FRESH WATER							
3	Standard	SWIFTCEM (TM) SYSTEM (452990)	320.0	sacks	15.6	1.2	5.32		5.32
	2 %	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)							
	0.125 lbm	POLY-E-FLAKE (101216940)							
	5.319 Gal	FRESH WATER							
4	Displacement		59.00	bbl	8.33	.0	.0	.0	
<b>Calculated Values</b>		<b>Pressures</b>			<b>Volumes</b>				
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns	60	Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers	10	Load and Breakdown		Total Job	
<b>Rates</b>									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	84 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
<b>The Information Stated Herein Is Correct</b>				Customer Representative Signature					
									

# HALLIBURTON

## Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To #: 2983005	Quote #:	Sales Order #: 900242627
Customer: SANDRIDGE ENERGY INC EBUSINESS		Customer Rep:	
Well Name: Jill SWD 3406	Well #: 1-8	API/UWI #:	
Field:	City (SAP): ANTHONY	County/Parish: Harper	State: Kansas
Legal Description:			
Lat:		Long:	
Contractor: ATLAS		Rig/Platform Name/Num: 3	
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person:		Srvc Supervisor: WALTON, SCOTTY	MBU ID Emp #: 478229

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	02/24/2013 10:00							Scotty Walton, Andrew Crawford, Geoffry Tope, Terry Mckeever
Pre-Convoy Safety Meeting	02/24/2013 13:00							Scotty Walton, Andrew Crawford, Geoffry Tope, Terry Mckeever
Depart from Service Center or Other Site	02/24/2013 14:00							
Arrive At Loc	02/24/2013 17:00							Arrived at Location Safely, Went over job procedures, calculations, and safety hazards. (Well TD 700ft, Total Casing 703.38ft, Shoe 44.07ft, 9.1ppg Mud, Running Casing With Full Returns)
Assessment Of Location Safety Meeting	02/24/2013 17:15							Identified all Potential hazards and Safe Work Zones
Comment	02/24/2013 17:16							Landing Pressure (Outside 567PSI- Inside 322PSI) = 245PSI
Comment	02/24/2013 17:17							Pump Out Pressure 703.38ft x 45.5lb/ft x .8625 / ( 10.75" x 10.75" x.7854) = 304PSI
Comment	02/24/2013 17:18							Resulting Force 703.38ft x 45.5lb/ft x .8625 -( 10.75" x 10.75" x.7854 x 245PSI) = 5366.4LBS
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	

Sold To #: 305021

Ship To #: 2983005

Quote #:

Sales Order #: 900242627

SUMMIT Version: 7.3.0078

Monday, February 25, 2013 10:35:00

# HALLIBURTON

## Cementing Job Log

Pre-Rig Up Safety Meeting	02/25/2013 14:00							All HES Personell Present (watch for trip hazards, low lite areas, pinch points , confined spaces, and wear all appropriate PPE)
Rig-Up Equipment	02/25/2013 14:30							
Rig-Up Completed	02/25/2013 15:30							Rig Up Completed Safely
Pre-Job Safety Meeting	02/25/2013 20:30							All HES, Customer Rep., and Rig Crew Present ( Went over dangers of being near pressurized lines, PPE, Pumping Procedures, heat stress and safe zones, muster point, and nearest hospital)
Pressure Test	02/25/2013 20:50							Test Lines to 3000PSI ( Rig Floor Clear, and Pumping Equipment area Clear, 10.75" 45.5# J-55 Casing Burst at 80% 3580*.8= 2864PSI Max Pressure)
Pump Spacer	02/25/2013 20:52		5	10	0		100.0	Pump 10BBL of Freshwater Spacer
Pump Lead Cement	02/25/2013 20:56		5	90	0		225.0	Pump 90.2BBL of 12.4PPG Halliburton Light Standard Cement (240 Sacks 2.11ft3/sk, 11.57gal/sk)( 240sks*2.11ft3/sk= 506.4ft3* .1781 bbl/ft3= 90.2BBL) Calculated HOLC 0ft, TOLC Surface
Pump Tail Cement	02/25/2013 21:12		5	68	0		275.0	Pump 68.4BBL of 15.6PPG Halliburton Standard Cement (320 Sacks 1.2ft3/sk, 5.32gal/sk)( 320sks*1.2ft3/sk= 384ft3 * .1781bbl/ft3= 68.4BBL) Calculated HOTC 700ft, TOTC 0ft
Shutdown	02/25/2013 21:23		0	68	68		.0	Pumping Cement Completed
Drop Top Plug	02/25/2013 21:24							Plug Left Cementing Head
<b>Activity Description</b>	<b>Date/Time</b>	<b>Cht</b>	<b>Rate bbl/ min</b>	<b>Volume bbl</b>			<b>Pressure psig</b>	<b>Comments</b>

Sold To # : 305021

Ship To # :2983005

Quote # :

Sales Order # : 900242627

SUMMIT Version: 7.3.0078

Monday, February 25, 2013 10:35:00

# HALLIBURTON

## Cementing Job Log

		#		Stage	Total	Tubing	Casing	
Pump Displacement	02/25/2013 21:25		5	63	0		300.0	Started Displacement Pumping 5BPM (Disp: 659.31ft* .0961bbl/ft= 63.4bbl)
Slow Rate	02/25/2013 21:37		3	63	53		250.0	Slowed Rate to Bump Plug
Bump Plug	02/25/2013 21:39		3	63	63		750.0	Bumped Plug 500Psi Over Pumping Pressure
Check Floats	02/25/2013 21:40		0	63	63		.0	Floats Held, 90BBL Cement Returned To Surface
Pre-Rig Down Safety Meeting	02/25/2013 21:45							All HES Personell Present ( Went Over Heat Stress, PPE, Pinch Points, Trip Hazards, and Importance of Communication)
Rig-Down Equipment	02/25/2013 22:00							
Rig-Down Completed	02/25/2013 22:50							Rig Down Completed Safely
Depart Location Safety Meeting	02/25/2013 22:55							Scotty Walton, Andrew Crawford, Geoffry Tope, Terry Mckeever
Depart Location for Service Center or Other Site	02/25/2013 23:00							Scotty Walton, Andrew Crawford, Geoffry Tope, Terry Mckeever

Sold To # : 305021

Ship To # :2983005

Quote # :

Sales Order # : 900242627

SUMMIT Version: 7.3.0078

Monday, February 25, 2013 10:35:00



# Drilling Report Orig

123 Robert S. Kerr Ave.  
Oklahoma City, OK 73102

# Atlas 03

Report Date: 3/24/2013

Spud Date: 2/25/2013 AFE: DC12664

Well Name JILL SWD 3406 1-8	Proposed TD (ftKB) 6,450	MD (ftKB) 6,427	Footage (ftKB) 0	Drill Hrs (hr)	Avg ROP (ft/hr)	DFS (days) 27.19	Report No. 32
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Field Name EASTHAM	Corp ID 123689	County/Parish HARPER	State KS	Township 34	Township N/S Dir S	Range 6	Range E/W Dir W	Section 8
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Operations at Report Time  
WSI.

Operations Next 24 Hours  
NU BOP & RIH w/ CBL/GR/CCL log.

Drilling Lead Tripp Edwards	Drilling Engineer David Mezo	Geologist Tammy Alcorn	Field Geologist Bob Wilcox	Drilling Supt. Bryce Scaff	Company Man James Clary
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### Time Log

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Ops Code	Dpth Start (ftKB)	Dpth End (ftKB)	Description	ROP
05:00	09:00	4.00	4.00				WSI	
09:00	14:00	5.00	9.00				WSI. Road WOR to location.	
14:00	16:00	2.00	11.00				Spot WOR. Set Hydro-walk & pipe racks.	
16:00	17:00	1.00	12.00				Wait on anchors to be set.	
17:00	19:00	2.00	14.00				RU WOR. Shut down for night.	
19:00	05:00	10.00	24.00				WSI	

### Air/Mud Data

MW-In (lb/gal)	MW-Out (lb/gal)	Vis (s/qt)	PV (cp)	YP (lb/100ft <sup>2</sup> )	Gel 10 sec	Gel 10 min	Gel 30 min
Filtrate (mL/30min)	Cake (1/32")	pH	Solids (%)	LGS (%)	MBT (lb/bbl)	Oil (%)	H2O (%)
Chlor (mg/L)	Calcium (mg/L)	ES (V)	HTHP Filtrate (mL/30min)	P2 (mL/mL)	Mf (mL/mL)	ECD (lb/gal)	LCM
Hole Volume (bbl)	Pit Volume (bbl)	Storage Volume (bbl)					
Compressors	Boosters	Nitrogen Units	Air/Gas Vol. (ft <sup>3</sup> /min)	Pressure (psi)			

Comment

### Mud Logging Data

MD (ftKB)	Shale (%)	SS (%)	LS (%)	Chert (%)	Dolomite (%)	BG Gas	C/Gas	T/Gas	Max Gas	Gas Show	Com
5,457	10	20			70	5			6		
5,457	10	20			70	3			5		
5,457					100	7	11	23	11		
5,532			0	0	100	15	26				
6,299					100	10	163		75		

### Bit Run # 13

Size (in) 6 3/4	Model XR50YODPS	Make Smith	SN PY4322	Jets or TFA (1/32") 13/13/13	In (ftKB) 5,412	Out (ftKB) 6,427	Drid (ftKB) 1,015	Dril Hrs (hr) 29.75	ROP (ft/hr) 34.1	
Inner	Outer	Dull	Loc	Bearing	Gauge	Other	Reason LD	Com		

### Bit Run # 12

Size (in) 9 7/8	Model MSI616PX	Make Smith	SN JF3141	Jets or TFA (1/32") 13/13/13/13/13	In (ftKB) 5,118	Out (ftKB) 5,457	Drid (ftKB) 339	Dril Hrs (hr) 13.50	ROP (ft/hr) 5.0	
Inner	Outer	Dull	Loc	Bearing	Gauge	Other	Reason LD	Com		

### Bit Run # 11

Size (in) 9 7/8	Model F3YODPS	Make Smith	SN PT5022	Jets or TFA (1/32") 18/18/18	In (ftKB) 4,980	Out (ftKB) 5,118	Drid (ftKB) 138	Dril Hrs (hr) 4.50	ROP (ft/hr) 30.7	
Inner	Outer	Dull	Loc	Bearing	Gauge	Other	Reason LD	Com		

### Drill Pipe on Location

Jts	Sz (in)	Wt (tonnes)	Grade	Conn	Length (ft)	Com
300	4 1/2	16.5	G	4.5 XH	9,450	300 Joints Of 4.5" XH DP
270	3 1/2	15.5	S135	3.5"IF	8,500	300 Joints Of 4.5" XH DP

### Survey Data

MD (ftKB)	TVD (ftKB)	Incl (°)	Azm (°)	VS (ft)	DLS (°/100ft)
250	250	0.8			
512	512	0.5			
1,000	1,000	0.3			
1,500	1,500	1.0			
2,000	2,000	1.0			
2,500	2,500	0.8			
3,000	3,000	0.8			

### Casing Strings

Csg Desc	OD (in)	Wt/Len (lb/ft)	Grade	Top (ftKB)	Set Depth (ftKB)
Surface	10 3/4	45.50	J-55	-3.4	700
Intermediate	7 5/8	29.70	L-80	-4.3	5,412

### BHA #13, 6 3/4 SLICK

BHA # 13	Drill String Name 6 3/4 SLICK	Length (ft) 927.54
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### BHA Components

Jts	Item Des	Bend (°)	Rpg	OD (in)	Run (hr)	Len (ft)
30	DC			4 3/4	29.75	923.79
1	Bit Sub w/Float			4.9	29.75	3.00

### Drill Pipe in Hole

# of Jts	Size (in)	Wt	Grade	Conn	Length (ftKB)

### Diesel Fuel

Received	Used	Total on Location
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### Last BOP Test

End Date  
2/28/2013

### Mud Pumps

Pump # 1	Make Continental-Emsco	Model F-1000
Pump # 2	Make Continental-Emsco	Model F-1000
Liner Size (in) 5 1/2	Rod Diameter (in)	Stroke Length (in) 10.00

### Costs

Daily Cost Total	Field Est To Date
0	1,752,494

### AFE Rig Release Estimate

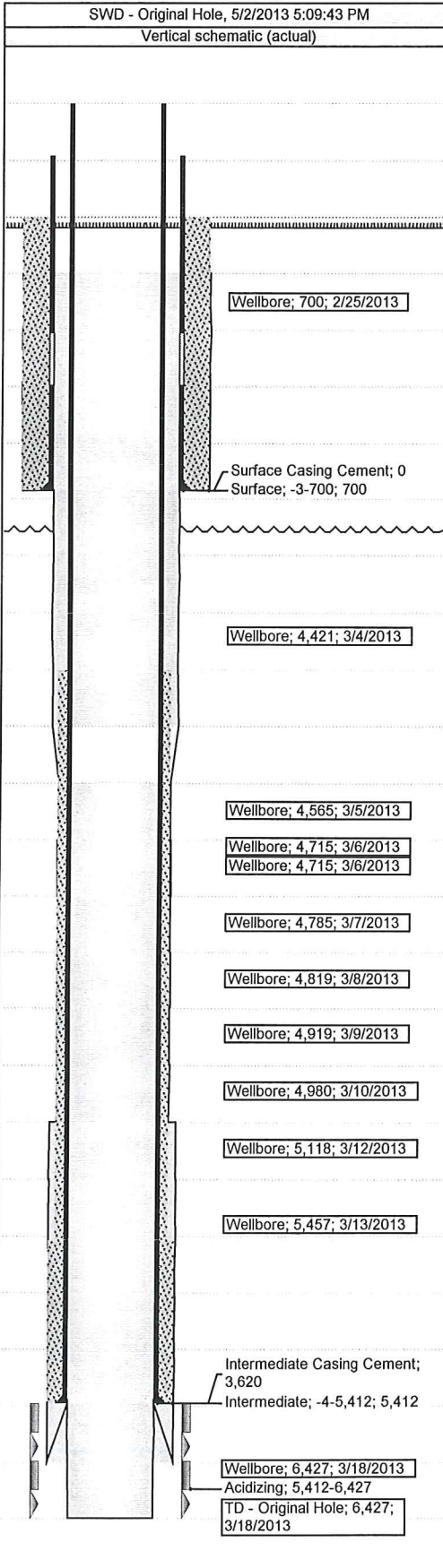
AFE (Cost)	932,498
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### GeoProg Formation Tops

Formation Name	Prog Top MD (ftKB)	Prog KB TVD (ftKB)
Base Heebner	3,260	3,260
Lansing	3,620	3,620
Cottage Grove	3,900	3,900
Oswego	4,230	4,230
Cherokee	4,350	4,350
Verdigris	4,380	4,380
Miss Unconformity	4,580	4,580
Kinderhook	4,970	4,970
Woodford	5,030	5,030
Viola	5,050	5,050
Simpson	5,065	5,065
Oil Creek	5,235	5,235
Arbuckle	5,285	5,285

# Wellbore Schematic

## JILL SWD 3406 1-8

SWD - Original Hole, 5/2/2013 5:09:43 PM		Wellbore Sections										
Vertical schematic (actual)		Section Des		Size (in)		Act Top (ftKB)		Act Btm (ftKB)				
		<b>Casing</b>										
		Csg Desc	Jts	Item Des	OD (in)	Wt (lb/ft)	Grade	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)	Com
		Surface	16	Casing-Joints	10 3/4	45.50	J-55	Bultress...	659.31	-3.4	655.9	
		Surface	1	Casing-Joints	10 3/4	45.50	J-55	Bultress...	41.57	657.4	699.0	
		Surface	1	Guide Shoe	10 3/4	45.50	J-55	Bultress...	1.00	699.0	700.0	
		Intermediate	39	Casing-Joints	7 5/8	29.70	L-80	LT&C	1,768.52	-4.3	1,764.2	
		Intermediate	1	Casing-Joints	7 5/8	29.70	L-80	LT&C	45.59	1,764.2	1,809.8	
		Intermediate	78	Casing-Joints	7 5/8	29.70	L-80	LT&C	3,516.99	1,809.8	5,326.8	
		Intermediate	1	Casing-Joints	7 5/8	29.70	L-80	LT&C	1.00	5,326.8	5,327.8	
		Intermediate	2	Casing-Joints	7 5/8	29.70	L-80	LT&C	82.68	5,327.8	5,410.5	
		Intermediate	1	Casing-Joints	7 5/8	29.70	L-80	LT&C	1.50	5,410.5	5,412.0	
		<b>Cement</b>										
		Des		Top (ftKB)		Btm (ftKB)		Com				
Surface Casing Cement		0.0		700.0								
Intermediate Casing Cement		3,620.0		5,412.0								
<b>Tubing</b>												
Des	Item Des	OD (in)	ID (in)	EUE Wt (lb/ft)	Grade	Jts	Top (ftKB)	Btm (ftKB)	Com			
<b>Rod Components</b>												
Jts	Item Description	OD (in)	Top Coupling	Grade	Guide Des	Len (ft)	Top (ftKB)	Btm (ftKB)	Comment			
<b>Perforations</b>												
Date	Top (ftKB)	Btm (ftKB)	Zone Name	Shot Dens (shots/ft)	Current Status	Com						
<b>Stimulations &amp; Treatments</b>												
Date	Zone Name	Vol Slurry...	Total Fluid Type	Prop Type	Prop Pompe...	Frac Grad (psi...)						
3/26/2013	Arbuckle	460.00										
Final ISIP (psi)	Avg Treat Pr...	Q Treat Avg...	Comment									
	164.0	4.30										
<b>Plug Record</b>												
Des	Run Date	Removal Date	Top (ftKB)	OD (in)	Com							

RECEIVED

APR 11 2013

DOCKET # 31,477

CASING MECHANICAL INTEGRITY TEST

Disposal  Enhanced Recovery  Repressuring   
 Flood  Tertiary

Date injection started \_\_\_\_\_  
 API #15 - 077-2910-00-00

REGULATORY DEPT SANDRIDGE ENERGY

88/SE/SW/SE, Sec 8, T 34 S, R 6

260 Feet from South Section Line  
1604 Feet from East Section Line

Lease Will 3406 Well # 1-8  
County Harper

Operator: Sand Ridge E&P Operator License # 34192  
 Name & Address 123 Robert S. Kerr Ave. Contact Person Wanda Hedbetter  
 Oklahoma City OK 73102 Phone 405-429-6474

Max. Auth. Injection Press. \_\_\_\_\_ psi; Max. Inj. Rate \_\_\_\_\_ bbl/d;  
 If Dual Completion - Injection above production \_\_\_\_\_ Injection below production \_\_\_\_\_

Size	Conductor	Surface	Production	Liner	Size	Tubing
		10 3/4	7 5/8			5 1/2
Set at		700	5412		Set at	5398
Cement Top		0	4100		Type	Chrome
" Bottom		700	5412			
DV/Perf.					TD (inc. plug back)	ft. depth
Packer type	ASI-XSS				Size 7/8 x 3/2	Set at 5383
Zone of injection	5412	ft. to ft.	6427		Perf. or open hole	Off Arb

Type Mit: Pressure  Radioactive Tracer Survey  Temperature Survey

F Time: Start 10 Min. 20 Min. 30 Min.  
 I Pressures: 1000 1000 1000 Set up 1 System Pres. during test 0  
 E Set up 2 Annular Pres. during test 1000  
 L Set up 3 Fluid loss during test 0 bbls.  
 D

D Tested: Casing  or Casing - Tubing Annulus   
 A The bottom of the tested zone is shut in with Packer  
 T

Test Date 4-5-2013 Using ESS Company's Equipment

The operator hereby certifies that the zone between 5398 feet and 0 feet

was the zone tested  
 Signature Title

The results were Satisfactory  Marginal \_\_\_\_\_ Not Satisfactory \_\_\_\_\_  
 State Agent Title PIRT Witness: Yes  No \_\_\_\_\_  
 REMARKS: KB 17 New well

Origin. Conservation Div.;  KDE/T;  Dist. Office;  
 Computer Update  
 REC Form U-7 6/8