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

Date Invoice #
9/12/2013 10805

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

	13149
Was MURI	RAY 3406 2-5H
830.210	The same state of the same
12019	5
MICHAE	L KULCHISKY
and mile	Contraction of the Contraction o
Notice of	and the authority production and an arrange to a State

Legal Description	Ordered By	Terms	Field Ticket	Lease Name	Drill Rig				
Sec.5-34S-6W Ha	Chuck	Net 30	8151	Murray 3406 2-5	Unit 310				
Item	(	Quantity		Description					
Conductor 20" Pipe Ream Hole 72" X 6' Dirt Removal Mud/Water Welder Grout Deliver Grout Equipment Mouse 16" pipe Cover Plate Safety Ring		90 1 80 80	Drilled 90' of 32" hole for co Furnished 90' of 20" conduct Ream Hole Furnished 6' X 6' tinhorn Provided Labor and Equipme Furnished Mud, Water, & Tr Welder Furnished grout Deliver grout to location Purnished Grout Pump & Flu Drilled 80' of 26" Mouse hol Furnished 80' of 16" Mouse 1 Cover Plate Safety Ring	or pipe ent for dirt removal and cl ucking ush	leanup				
hank you for your bus	siness.		ALLIA MARIANTA PARA PARA PARA PARA PARA PARA PARA PA	Subtotal	\$19,701.00				
with the same of t	1.00	None and the second sec		Sales Tax (6.	15%) <sub>\$493.57</sub>				

**Total** 

\$20,194.57

7.3.0106

Summit Version:

SEP 23 2013

# Cementing Job Summary

REGULATORY DEPT
The Road to Excellence Starts with Safety

W 52						he Road		cellend			n S	arety	/			Ond	#. OO	7727	205
Sold To #: 3						#: 31049			Quo						aies	order	#: 900	1/3/	393
Customer: S	SAN	DRIDGI	E ENE	RGY	INC	EBUSINE	SS		Cust	tomer	Rep	): W	ebster, J				04055		
Well Name:						V	/ell#	: 2-5H					AP				21958		
Field:			Ci	ty (S	AP): /	NOHTNA	Y	Count	y/Pari	ish: Ha	arpe	r		S	tate:	Kans	as		
Legal Descr	iptic	n: Sec						W											
Contractor:					,	Rig/Pla	form	Name	/Num	: 310									
Job Purpos			Surfac	e Ca	sina														
Well Type:						Job Ty	ne: C	ement	Surfac	e Cas	ing								
Sales Perso	Jeve	DENC	U IEE	) [ N // \	/	Styr Si	IDEL	isor: l	INDE	RWOO	DD.	BILL	YMBUI	D Em	p #:	15906	8		
sales Perso	711.	KLINO	11, 501	\LIVI		011000	port	Job Pe											
HES Emp	. Nor	70 E	Exp Hr	e Fi	mp#	HES	Emp	Name		op Hrs	En	np#	HE	S Em	p Nar	ne	Exp F	irs	Emp#
STINNETT,			5		7278	STOOP						378	UNDE	RWOO	D, B	ILLY	6.5		159068
STIMINETT,	1017 (1 )		J										Dale						
								Equi	pmen	it							T		
HES Unit #	Dis	stance-1	way	HES	S Unit			1 way		S Unit #			ance-1 wa			Jnit#			e-1 way
10261039		0 mile		108	04555	100 m	ile		1082	25967		100 r	mile ————	1	12888	356	100	mile	
11706678	100	0 mile	-																e .
								Job	Hours	S									
Date	On	Location	on C	pera	tina I	Date		On Loc		Ope	eratii	ng	Da	te	1	Locat			erating
Date	0	Hours		Hou	-		ļ	Hou	irs	Н	lour	s				Hours		H	ours
9-13-13		2		0		9-14-13	3	3			1				L.,-				
TOTAL									Total is	s the su	ım o	f eac	h column						
				Jo	b				_,					Job	lime			Time	- 7ana
ormation Na	ame									ļ			10	Date	0042	Tin 18:			e Zone CST
ormation De	epth	(MD) T	ор			Bott	om			Called				Sep - 2		21:			CST
orm Type					BHS					On Lo				Sep - 2 Sep - 2		01:			CST
Job depth MI	)		650. ft			Depth TVI		65	0. ft	Job S				Sep - 2		02:			CST
Nater Depth					Wkl	It Above I	loor			Job C				Sep - 2		03:			CST
Perforation D	epth	(MD) F	rom			То	L	10/-1	I Dodo	Depar	tea	LOC	14 - 1	36p - 2	.010	00.	00		
			T		0:	10	101-1		I Data	hread			Grade	Тор	MD	Botto	m To	ac	Bottom
Descriptio	n	New /		эх	Size	ID in	Wei	_	11	rireau			Grade	ft	- 1	MD	T		TVD
		Used	pres		in	- "	IDII	1/10								ft	f	t	ft
12.25" Open	Hola		ps	ig_		12.25			_					80		650.			
9.625" Surfac		Unknov	v		9.625		36	3.		LTC			J-55		1	650.			
Casing		n														00			
Preset Condu	ıctor	Unknov	V		20.	19.124	94	1.						٠		80.			
		n					Too	ls and	Accor	ccorio									
				T=	4.	7				Make		pth	Тур	0	S	ize	Qty	,	Make
	Size	Qty	Make	De	pth	Туре	Si	ze Q	Ly I	viake	De		Top Plug			120	ر		100
Guide Shoe				-		acker			-+				Bottom P		1				
Float Shoe				+		ridge Plug etainer	3	-					SSR plug		<u> </u>				
Float Collar		-		-	R	etamer	-		_				Plug Con						
nsert Float		-		-			-						Centraliz						
Stage Tool							Misc	ellane	ous M	ateria	Is								
2-11: A-4			C	onc		Surfa			J40 III	Con			Acid Typ	e		Qt	/	C	onc %
Gelling Agt Treatment Flo	d		-	onc		Inhib		-		Con	_		Sand Ty			Siz		Q	ty
reaument Flo	<u>u</u>		C	0110		μιο													
								Flui	d Data	3									
Stage/P	luc 4	4. 4																	
	ge Ty				Fluid	d Name			Qty	Qt	y	Mix			VIIX F		Rate		tal Mix
# 364	90 1)	100							e-econolis 🕊	uoi		Den	sity ft3	/sk	Gal/	sk b	ol/min	Flui	d Gal/sk

# Cementing Job Summary

St	age/Plug	#: 1									n es		7.4	- I BA:
Fluid #	Stage T	Гуре		Fluid Name			Qty	Qty uom	Mixing Density Ibm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min		tal Mix d Gal/sk
1	Fresh Wa	ter					10.00	bbl	8.33	.0	.0	.0		
2	Lead Cen		EXT	ENDACEM (TM)	SYSTEM (4	52981)	210.0	sacks	12.4	2.12	11.68		1	1.68
	3 %		CAL	CIUM CHLORIDE	, PELLET, 5	50 LB (1	01509387	")						
	0.25 lbm		POL	Y-E-FLAKE (1012	216940)									
	11.681 Ga	ıl	FRE	SH WATER									г —	
3	Tail Ceme	ent		FTCEM (TM) SYS			150.0	sacks	15.6	1.19	5.3			5.3
	1 %		CAL	CALCIUM CHLORIDE, PELLET, 50 LB (101509387)										
	0.125 lbm			Y-E-FLAKE (1012	216940)									
	5.302 Gal		FRE	SH WATER			T T		0.00		1 0			
4	Displacer	ment					47.00	bbl	8.33	.0_	.0	.0		
Ca	alculated	Values		Pressui	res					olumes		Dod		
Displa	cement	44		Shut In: Instant		Lost Re		0.5	Cement S		78/32 ent 44	Pad Treatn	ant	0:
Top Of	Cement			5 Min			t Returns		Actual D		0	Total		164
Frac G	radient			15 Min		Spacer		10	Load and	Breakoo	own	TOLATIC	JOB	104
- 125-12							tates				Asset 1	ob T		5
Circu	lating	5		Mixing	5		Displac	ement	5		Avg. J	מט		<u> </u>
	ent Left In					Joint_	E D	- 400			Frac Ring	# 4 @	— Т	ID
Frac F	Ring # 1 @		ID	Frac ring # 2	. @	D	Frac Rin			D	Frac King	# + W		
Th	e Inform	nation	Sta	ted Herein Is (	Correct		ner Renres	entative S	signature		9	_	· · · · ·	

## Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 305021	Ship To#	: 3104983		Quote #:	Sales Order #: 900737395					
Customer: SANDRIDGE				Customer Rep: Webster, John						
Well Name: Murray 3406			#: 2-5H		API/UWI #: 15-077-21958					
Field:	City (SAP): AN	THONY	County/	Parish: Harper	State: Kansas					
Legal Description: Section 5 Township 34S Range 6W										
Lat: N 0 deg. OR N 0 deg				Long: E 0 deg.	OR E 0 deg. 0 min. 0 secs.					
Contractor: UNIT		Rig/Platfor	m Name/	Num: 310						
Job Purpose: Cement Surface Casing Ticket Amount:										
Well Type: Development		Job Type: (	Cement S	Surface Casing						
The state of the s										

Activity Description	Daterime	Cit	min	b	bl	, p.	3.9			
		#		Stage	Total	Tubing	Casing			
Call Out	09/13/2013 18:00									
Safety Meeting - Service Center or other Site	09/13/2013 19:00									
Depart from Service Center or Other Site	09/13/2013 19:05									
Arrive at Location from Service Center	09/13/2013 20:30							assess location/test water/get with co rep		
Other	09/13/2013 21:00							rigging up casers/run pipe		
Arrive at Location from Service Center	09/13/2013 22:00							trucks on location/rig up meeting		
Rig-Up Equipment	09/13/2013 22:05									
Rig-Up Completed	09/13/2013 22:30							standby/running casing		
Other	09/14/2013 00:00							on bottom/circulate with rig		
Safety Meeting - Pre Job	09/14/2013 01:10							job and safety procedures/rig up head		
Test Lines	09/14/2013 01:20						1500. 0			
Pump Water	09/14/2013 01:22		5	10			100.0	fresh water		
Pump Lead Cement	09/14/2013 01:26		6	79			115.0	12.4# Econocem		
Pump Tail Cement	09/14/2013 01:39		5	32			145.0	15.6# Swiftcem		
Drop Plug	09/14/2013 01:46									
Pump Displacement	09/14/2013 01:48		5	44			180.0	fresh water		
Pump Displacement	09/14/2013 01:55		2.8				220.0	slow rate		

Sold To #: 305021

Ship To #:3104983

Quote #:

Sales Order #:

900737395

SUMMIT Version:

7.3.0106

Saturday, September 14, 2013 02:21:00

# Cementing Job Log

Activity Description	Date/Time	Date/Time Cht			ume bl		sure sig	Comments	
		#	min	Stage	Total	Tubing	Casing		
Bump Plug	09/14/2013 01:58						700.0	35bbls cmt returns	
Check Floats	09/14/2013 01:59		,					holding/ 1/2 bbl back	
End Job	09/14/2013 02:00								
Safety Meeting - Pre Rig-Down	09/14/2013 02:05		-						
Rig-Down Equipment	09/14/2013 02:10				,				
Rig-Down Completed	09/14/2013 02:50								
Safety Meeting - Departing Location	09/14/2013 02:55								
Depart Location for Service Center or Other Site	09/14/2013 03:00								

Sold To #: 305021 SUMMIT Version:

7.3.0106

Ship To #:3104983

Quote #:

Sales Order #:

900737395

Saturday, September 14, 2013 02:21:00

#### RECEIVED

#### SEP 3 0 2013

#### HALLIBURTON

## Cementing Job Summary

REGULATORY DEPT The Road to Excellence Starts with Safety Sales Order #: 900746300 Quote #: **Ship To #**: 3104983 Sold To #: 305021 Customer: SANDRIDGE ENERGY INC EBUSINESS Customer Rep: Webster, John API/UWI #: 15-077-21958 Well #: 2-5H Well Name: Murray 3406 State: Kansas County/Parish: Harper City (SAP): ANTHONY Field: Legal Description: Section 5 Township 34S Range 6W Rig/Platform Name/Num: 310 Contractor: UNIT Job Purpose: Cement Intermediate Casing Well Type: Development Well Job Type: Cement Intermediate Casing Srvc Supervisor: PENN, BRIAN MBU ID Emp #: 512150 Sales Person: FRENCH, JEREMY Job Personnel Exp Hrs **HES Emp Name** Emp# **HES Emp Name** Exp Hrs Emp# **HES Emp Name** Exp Hrs Emp# 489420 512150 TOPE, GEOFFREY PENN, BRIAN A AIRINGTON, 497322 Daniel JOSEPH Tyler Equipment HES Unit# Distance-1 way HES Unit# Distance-1 way Distance-1 way Distance-1 way HES Unit# HES Unit# **Job Hours** Operating Date On Location Operating On Location Operating Date On Location Date Hours Hours Hours Hours Hours Hours 9/20/13 3 7 Total is the sum of each column separately TOTAL **Job Times** Job Date Time Time Zone Formation Name 19 - Sep - 2013 20:00 CST Called Out Formation Depth (MD) Top Bottom 20 - Sep - 2013 CST 01:00 BHST On Location Form Type 20 - Sep - 2013 05:30 CST 5306. m Job Depth TVD 5306. m Job Started Job depth MD 20 - Sep - 2013 06:42 CST Wk Ht Above Floor 4. m Job Completed Water Depth CST 20 - Sep - 2013 08:00 Departed Loc Perforation Depth (MD) From To **Well Data Bottom Bottom** Grade Top MD Top Max Size ID Weight Thread Description New / TVD MD TVD Used pressure kg/m m mm mm m m Mpa 650. 5279. 8.75 8.75" Open Hole P-110 26. LTC 5279. 7. 6.276 7" Intermediate Unknow Casing n 650. J-55 36. LTC 9.625" Surface Unknow 9.625 8.921 Casing n **Tools and Accessories** Make Make Depth Type Size Qty Make Depth Size Qty Size Qty Type Type HES Top Plug 7 Packer **Guide Shoe Bottom Plug Bridge Plug** Float Shoe SSR plug set Retainer Float Collar HES 7 Plug Container Insert Float Centralizers Stage Tool **Miscellaneous Materials** 

			Fluid Data						
Sta	age/Plug #: 1								
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density kg/m3	Yield m3/sk	Mix Fluid m3/ tonne	Rate m3/min	Total Mix Fluid m3/ tonne

Conc

Conc

Surfactant

Inhibitor

Conc

Conc

Acid Type

Sand Type

Qty

Size

Conc

Qty

%

Stage/Plug #: 1

Gelling Agt

Treatment Fld

# Cementing Job Summary

Fluid #	Stage Ty	/pe	Fluid Name				Qty	Qty uom	Mixing Density kg/m3	Yield m3/sk	Mix Fluid m3/ tonne	Rate m3/min	Total Mix Fluid m3/ tonne
1	HES Supp Gel Water	lied			r.		30.00	bbl	8.33	.0	.0	.0	
	1.66 lbm/bb		CAUS	STIC SODA BEAL	DS, 50 LB S	SK (1000	03650)						
	10 lbm/bbl		AQUA	GEL - 100 LB B	AG (101252	2566)				in G			
	50/50 POZ STANDARD 2% extra ge	( w/	ECON	IOCEM (TM) SY	STEM (452	992)	140.0	sacks	13.6	1.53	7.46		7.46
	0.4 %		HALA	D(R)-9, 50 LB (1	00001617)								
	2 %		BENTONITE, BULK (100003682)										
	7.459 Gal		FRES	H WATER	2								
3	PREMIUM		HALC	EM (TM) SYSTE	EM (452986	5)	190.0	sacks	15.6	1.18	5.2		5.2
	0.4 %		HALA	D(R)-9, 50 LB (1	00001617)								
	5.197 Gal		FRES	H WATER									
4	Displacem	ent					200.00	bbl	8.33	.0	.0	.0	
Ca	alculated V	alues		Pressur	es				V	olumes			
Displa	cement	199.	4 S	hut In: Instant		Lost Re	eturns	0	Cement S	lurry	78	Pad	
	f Cement	324	3 5	Min		Cemen	t Returns	0	Actual Di	splacem	<b>ent</b> 119	Treatm	ent
rac G	radient		1	5 Min		Spacer	s	30 Load and Breakdown		wn	Total J	ob	
						F	lates						
Circu	lating			Mixing			Displac	ement			Avg. J	ob	
Cem	ent Left In	Pipe	Amou	unt 91 ft Rea	son Shoe	Joint						¥	
Erac I	Ring # 1 @		ID	Frac ring # 2	@	ID	Frac Rin	g # 3 @	ll II	0	Frac Ring	#4@	ID

## Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 305021 **Ship To #:** 3104983 Quote #: Sales Order #: 900746300 Customer: SANDRIDGE ENERGY INC EBUSINESS Customer Rep: Webster, John API/UWI #: 15-077-21958 Well #: 2-5H Well Name: Murray 3406 Field: City (SAP): ANTHONY County/Parish: Harper State: Kansas Legal Description: Section 5 Township 34S Range 6W Long: E 0 deg. OR E 0 deg. 0 min. 0 secs. Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs. Rig/Platform Name/Num: 310 Contractor: UNIT Job Purpose: Cement Intermediate Casing Ticket Amount: Well Type: Development Well Job Type: Cement Intermediate Casing

Sales Person: FRENCH, JEREMY Srvc Supervisor: PENN, BRIAN MBU ID Emp #: 512150

Activity Description	Date/Time	Cht	Rate m3/ min	Volu	ume 13	The second of the second	sure Pa	Comments
		#		Stage	Total	Tubing	Casing	
Call Out	09/19/2013 19:50							
Depart Yard Safety Meeting	09/19/2013 20:45							
Depart from Service Center or Other Site	09/19/2013 21:00							
Arrive At Loc	09/20/2013 01:00							MEET WITH COMPANY MAN TO GET WORK ORDER SIGNED AND GET NUMBERS
Other	09/20/2013 02:00							WAIT FOR CASING CREW TO RUN CASING AND RIG DOWN
Pre-Rig Up Safety Meeting	09/20/2013 02:30							
Rig-Up Equipment	09/20/2013 02:45						v.	
Pre-Job Safety Meeting	09/20/2013 05:00							MEET WITH COMPANY MAN, RIG CREW, AND HES EMPLOYEES TO GO OVER PUMPING SCHEDULE AND JOB HAZARDS
Start Job	09/20/2013 05:29							
Pressure Test	09/20/2013 05:30							TEST LINES TO 5000
Pump Spacer	09/20/2013 05:35		4	30			145.0	30 BBL GEL SPACER
Pump Lead Cement	09/20/2013 05:48		4	38			200.0	140 SKS LEAD CEMENT @ 13.6 PPG
Pump Tail Cement	09/20/2013 05:55		5	40			222.0	190 SKS TAIL CEMENT @ 15.6 PPG
Drop Plug	09/20/2013 06:04							TOP PLUG

Sold To #: 305021

Ship To #:3104983

Quote #:

Sales Order #:

900746300

SUMMIT Version:

7.3.0106

Friday, September 20, 2013 07:23:00

# Cementing Job Log

Activity Description	Date/Time	Cht	Rate m3/ min	Vol:	ume 13		sure Pa	Comments
		#		Stage	Total	Tubing	Casing	
Pump Displacement	09/20/2013 06:05		8	199			540.0	199.4 BBLS FRESH WATER DISPLACEMENT
Slow Rate	09/20/2013 06:34		3.5				600.0	SLOW RATE FOR LAST 20 BBL OF DISPLACMENT
Bump Plug	09/20/2013 06:39		3.5		1		640.0	BUMPED PLUG @ AND TOOK 500 OVER
Check Floats	09/20/2013 06:41							CHECKED FLOATS AND GOT 1 BBLS BACK
End Job	09/20/2013 06:42		8					
Post-Job Safety Meeting (Pre Rig-Down)	09/20/2013 06:50							
Rig-Down Equipment	09/20/2013 06:55							9
Other	09/20/2013 07:30		5					MEET WITH COMPNAY MAN TO GO OVER JOB RESULTS AND GET TICKETS SIGNED
Depart Location Safety Meeting	09/20/2013 07:40							
Depart Location for Service Center or Other Site	09/20/2013 08:00						(45)	THANK YOU FOR USING HALLIBURTON! BRIAN AND CREW

Sold To #: 305021

Ship To #:3104983

Quote #:

Sales Order #:

900746300

SUMMIT Version: 7.3.0106

Friday, September 20, 2013 07:23:00