JOB SUMMARY					3729	TIC	05/15/14						
					CUSTOMER REP								
Sumner Kansas		Sandridge Exploration & Production				Curtis							
Perth 3302 1-1		Squeeze Job			Eric Parsons								
EMP NAME						LIIO I LIGORIO							
Eric Parsons    0						$\neg \vdash$							
Wallace Berry						$\neg \vdash$							
Dave Thomas													
0.00													
Form. NameType				16 1									
Packer Type Set A	t 3,311	Date Calle	d Out	On Location 5/15/2		Job St	arted 15/2014		ompleted 15/2014				
Bottom Hole Temp. 120 Press		Date	0/10/2	5/ 15/20 14		10/2014	"	3/13/2014					
Retainer DepthTotal	Depth 3964	Time 7:00am				8	8:25am 10;45AM						
Tools and Accessor				Well [									
Type and Size Qty Auto Fill Tube 0	Make IR	Coolng	New/Used	Weight 17#	Size Gra		From	To 3,964	Max, Allow 2,500 PSI				
Insert Float Val 0	IR IR	Casing Liner		1711	0/1	- -	ullace	3,304	2,500 F31				
Centralizers 0	İR	Liner	1	<del>                                     </del>		+			<del>                                     </del>				
Top Plug 0	IR	Tubing			2 7/8"								
HEAD 0	IR	Drill Pipe											
Limit clamp 0	JR JR	Open Hole			0	S	urface	3,970	Shots/Ft.				
Weld-A 0 Texas Pattern Guide Shoe 0	IR IR	Perforations Packer @						3,312	$\vdash$				
Cement Basket 0	iR I	Holes @				-	3,964	3,989	-				
Materials		Hours On Lo	cation	Operating	Hours			ion of Job	-				
Mud Type WBM Density Disp. Fluid Fresh Water Density	9 Lb/Gal	Date	Hours Date Hours				Squeeze Job						
Disp. Fluid Fresh Water Density Spacer type resh Wate BBL,	8.33 Lb/Gal 8.33	5/15	4.0	5/15	2,0	-							
Spacer typeBBL.	- 0.00					-							
Acid Type Gal	%												
Acid Type Gal	%												
Surfactant Gal NE Agent Gal.	-In			ļ		_							
Fluid Loss Gal/Lb	-in					$\dashv$							
Gelling Agent Gal/Lb	In					$\dashv$							
Fric. Red. Gal/Lb	_ln												
MISCGal/Lb	_In	Total	4.0	Total	2.0								
Perfpac BallsQty.		I		Dro	ssures								
Other		MAX 2	500 PSI	AVG.		PSI			ı				
Other				Average	Rates in E	3PM							
Other	3 BPM	AVG 0.5 Cement Left in Pipe											
Other		Foot											
Offici		Feet		Reason	SHUE JO	OWL							
		Cement	Data										
Stage Sacks Cement	1	Additives	Dala				W/Rg.	Yield	Lbs/Gal				
1 50 Premium Plus (Class C	NEAT						6.32	1.32	14.80				
2 0 0						0	0.00	0	0.00				
3 0 0						0	0.00	0.00	0.00				
		Summary											
Preflush Type:			eflush:	вы [	10.03	O I	Type'	Fresh	Water				
BreakdownMAXII		.000 PSI Lo	ad & Bkdn:	Gal - BBI	N/A	<b>.</b>	Pad:Bbl -	Gal	N/A				
		IO/FULL EX	cess /Returnalc, TOC:		N/A		Calc.Disi	Bbl	34				
Average Actual		PSI:			Actual Disp. 20,50 Disp;Bbl								
Average         Bump Plug PSI;         Flnal Circ.         PSI;         Disp;Bbl           ISIP         10 Min         15 Min         Cement Slurry:         BBl         11.7													
Total Vojume BBI 42.20													
	1		1	1 D	_	1							
CUSTOMER REPRESENTAT	VE	100	Chr	15/7/12	55010	/							
				SIGNATURE									

Original Completion



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

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

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

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

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

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

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

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

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

original Completion



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

## 1.0 Executive Summary

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

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

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

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

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

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

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

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

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

		IOB SUN	ANAAD			PROJECTIX		_	TICKET DATE			
Sumner	JOB SUMMARY				SOK 3543 03/24/14							
EASEIWAE	Kansas	Sandridge Exp	Sandridge Exploration & Production				Billy Branch					
Perth 3302	1-1		Squeeze Job				EMPLOYEE NAME Arthur Setzer					
Arthur Setzer							Annu	361	ızeı			
lared Green		Eric Parsons		$\Box$				T				
David Settlemier				$\vdash$								
.00				$\vdash$				H				
orm. Name	Тур	e:										
acker Type	Set 7	At 0	Date	Calle	ed Out	On Locat	ion	Job	Started	Job C	Complete	
ottom Hole Temp. etainer Depth	120 Pres	sure				3/23/	2014	,	3/24/2014	3	/24/2014	
Tools	and Accessor	Depth 3,575	Time			7:00	am ·		8:30am		11:30am	
Type and Size	Qty	Make			Ney/Used	Well	Data				ritovani	
uto Fili Tube sert Float Val	0	IR	Casing		146WOSEO	17#	Size Gr	ade	From Surface	To 3,575'	Max. Al	
entralizers	0	IR IR	Liner				1		duriace	3,070	5,00	
p Plug	0	İR	Liner Tubing	-	-		0.7/00					
EAD mit clamp	0	IR	Drill Pip	е			2 7/8"	+				
eld-A	0	IR IR	Open H				0	+	Surface	4,284	Shots/	
xas Pattern Guide Sh	oe 0	İR	Perforat Perforat	ions							Shotsi	
ement Basket	1 0	IR .	Packer	ത			-			3,006		
id Type WBM	Materials Density	9 Lb/Gal	Hours C Date	n Lo	cation	Operating	Hours		Descript	ion of Job		
sp. Fluid Fresh Water type resh Wat	ater Density	8.33 Lb/Gal	3/24	+	4.0	Date 3/24	Hours 2.0		Squeeze Job			
acer type	BBL. 20	8,33					2.0	$\dashv$				
ld Type	Gal.	%	-	-								
id Type rfactant	Gal.	%						$\dashv$				
Agent	Gal.	ln	-	-				ゴ				
ld Loss Iling Agent	Gal/Lb	In		+-	<del> </del>			_				
c. Red.	Gal/Lb	-in						-				
SC.	Gal/Lb	in	Total	+	4.0	Total	- 0.4	コ				
fpac Balls	Oby				4.0	rotal [	2.0	_				
er	Qty.		MAX	4.1	500 DOL	Pre	ssures					
er			IVIAA	1,1	500 PSI	AVG.	600	DI.				
er			MAX	4	BPM	AVG	1					
er			Feet			Cement	Left in Pla	oe .				
			1 001			Reason	SHOE JO	TAIC				
ge Sacks C	ement 7		Cerr	ent C	ata							
25 This	atropic	4% Gel - 10% Gyp							W/Rq.	Yield	Lbs/Gal	
	nium H	NEAT	Julii						7.76	1.60	14.40	
<del>  "  </del>	0			_				0	5.23 0.00	0.00	15.60	
								-	0.00	0.00	0.00	
			Summ	on.								
ush kdown	Type:	18.4		Pref	lush: E	вы Г	20.00		Tuner	-		
	MAXIMU Lost Ref Actual T	urns-N	DOO PSI	Load	& Bkdn' G	al - BBI	N/A		Type: Pad:BbT-G	Fresh W	Vater N/A	
age	-11 066	Calo	ess /Return B	N/A			Calc.Disp Bbl 28					
5 Min	Bump P	lug PSI; 15 Min		Fina	TOC:	SI:			Actual Disp Disp:Bbl	).	26,50	
		1510101		Tota	ent Slurry: B	BI 🗀 BI	12.4					
		1		7	· volume b	DI	58.90					
USTOMER REPR		Kr		11.	1							
OO I OWIER REPR	ESENTATIVI	- ////	1. 1	de	//							
		-	11	no		NATURE						

JOB SUMMARY					GER 3527	TICKET DATE	03/19/14		
Sumner Kansas	COMPANY	CUSTOMER REP							
LEASE HAVE WE'NO		Billy Branch							
Perth 3302 1-1	Squeeze	Robert Burris							
	ic Parsons					<del>T</del>			
Robert Burris									
Cheryl Newton Robert Stonehocker									
Form. NameType:									
Packer Type Set A Bottom Hole Temp. 120 Press	0	Date Cal	ed Out	On Location 3/19/2		3/19/2014		ompleted 19/2014	
Retainer Depth Total	Depth 3,575'	Time		10:00 Well 0		11:00am	1	:30pm	
Type and Size Qty	Make		New/Used		Size Grad	e From	To	Max. Allow	
Auto FIII Tube 0 Insert Float Val 0	IR IR	Casing		17#	5 1/2"	Surface	4,322	5,000	
Centralizers 0	IR IR	Liner Liner		<del></del>		-			
Top Plug 0	IR	Tubing			0				
HEAD 0	IR IR	Open Hole			0	0(			
Weld-A 0	İR	Perforations	1			Surface 3,575	4,284	Shots/Ft.	
Texas Pattern Guide Shoe 0 Cement Basket 0	IR IR	Perforations				1,51.5	7,207		
Materiale	IR	Perforations Hours On L	ncation	Operating	Houre	Docarin	tion of Job		
Mud Type WBM Density Disp. Fluid Fresh Water Density	9 Lb/Gal 8,33 Lb/Gal	Date	Hours	Date	Hours	Squeeze			
Spacer type resh Wate BBL. 20	8.33 Lb/Gal 8.33	3/19		3/19		- Oqueeze	- 000		
Spacer type BBL.									
Acid Type Gal Acid Type Gal.	% ====	-							
Surfactant Gal	In					┨	•		
NE Agent Gal. Fluid Loss Gal/Lb	- In								
Gelling Agent Gal/Lb	ln In								
Fric. Red Gal/Lb	In					-			
MISC, Gal/Lb	In	Total	0.0	Total	0.0				
Perfpac BallsQty.				Pre	ssures				
Other		MAX	1.000 PSI	AVG.					
Other	4 BPM	Average Rales in BPM AVG							
Other	Cement Left in Pipe								
Other		Feet		Reason	SHOE JOI	INT /			
		Cémen	t Data						
Stage Sacks Cement 1 100 Thixatropic	10/ 0 1 100/ 0	Additives				W/Rq.	Yield	Lbs/Gal	
1 100 Thixatropic 2 100 Premium H	4% Gel - 10% Gyps NEAT	um				7.75	1.60	14.40	
3 0 0						0 0.00	0.00	15.60 0.00	
		Summan	,						
Preflush Type:		P	reflush:	вы [	10.00	Type:	Fresh	Water	
BreakdownMAXIM		DIFULL F	oad & Bkdn:	Gal - BBI	N/A	Pad:Bbl -	-Gal	N/A	
Actual 1	00	c	xcess /Returi alc, TOC:	11 001 _	N/A	Calc.Dist Actual Di		70 70.00	
Average Bump F	Plug PSI: 15 Min	F	inal Circ. ement Sturry	PSI:	0	Disp:Bbl		. 5100	
	. ااالاا ۱۵ ــــــــــــــــــــــــــــــــــ		ement Sturry. otal Volume		49.5 129.50				
		9	7						
CHOTOMED DEPOSIT	1//	11/1/	//						
CUSTOMER REPRESENTATIV	E	///		SIGNATURE					
to observe the second s	1/	"/		OWNTORE					