

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1085154

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 #			API No. 15		
Name:			Spot Description:		
Address 1:			Sec	TwpS. R	East West
Address 2:			F6	eet from North /	South Line of Section
City:	State: Z	ip:+	Fe	eet from East /	West Line of Section
Contact Person:			Footages Calculated from I	Nearest Outside Section C	Corner:
Phone: ()			□ NE □ NW	V □SE □SW	
CONTRACTOR: License #			GPS Location: Lat:	, Long: _	
Name:				(e.g. xx.xxxxx)	(e.gxxx.xxxxx)
Wellsite Geologist:			Datum: NAD27	NAD83 WGS84	
Purchaser:			County:		
Designate Type of Completion:			Lease Name:	W	/ell #:
	e-Entry	Workover	Field Name:		
	_		Producing Formation:		
☐ Oil ☐ WSW ☐ D&A	☐ SWD	∐ SIOW □ SIGW	Elevation: Ground:	Kelly Bushing:	:
	GSW	Temp. Abd.	Total Vertical Depth:	Plug Back Total C	Depth:
CM (Coal Bed Methane)	dow	Temp. Abd.	Amount of Surface Pipe Se	et and Cemented at:	Feet
☐ Cathodic ☐ Other (Co	ore, Expl., etc.):		Multiple Stage Cementing	Collar Used? Yes	No
If Workover/Re-entry: Old Well I			If yes, show depth set:		Feet
Operator:			If Alternate II completion, c	cement circulated from:	
Well Name:			feet depth to:	w/	sx cmt.
Original Comp. Date:					
Deepening Re-perf	•	NHR Conv. to SWD	Drilling Fluid Managemer	nt Plan	
☐ Plug Back	Conv. to G		(Data must be collected from the		
Commingled	Pormit #:		Chloride content:	ppm Fluid volume	e: bbls
Dual Completion			Dewatering method used: _		
SWD			Location of fluid disposal if	hauled offsite	
☐ ENHR			1		
GSW	Permit #:		Operator Name:		
_ _			Lease Name:	License #:_	
Spud Date or Date R	eached TD	Completion Date or	Quarter Sec	TwpS. R	East _ West
Recompletion Date		Recompletion Date	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 Approved by: Date:

Page Two



Operator Name: Lease Name: _ _ Well #: _ 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** No Loa Formation (Top), Depth and Datum Sample | Yes (Attach Additional Sheets) Name Top Datum No Samples Sent to Geological Survey Yes ☐ No Yes
 Yes
 ■
 Yes
 ■
 Yes
 ■
 Nes
 Nes Cores Taken Electric Log Run ___ Yes No List All E. Logs Run: CASING RECORD New Used Report all strings set-conductor, surface, intermediate, production, etc. Size Hole Size Casing Weight Setting Type of # Sacks Type and Percent Purpose of String Drilled Set (In O.D.) Lbs. / Ft. Depth Cement Used Additives ADDITIONAL CEMENTING / SQUEEZE RECORD Purpose: Depth Type of Cement # Sacks Used Type and Percent Additives Top Bottom Perforate **Protect Casing** Plug Back TD Plug Off Zone Did you perform a hydraulic fracturing treatment on this well? Yes No (If No, skip questions 2 and 3) No Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes (If No, skip question 3) Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? (If No, fill out Page Three of the ACO-1) Yes PERFORATION RECORD - Bridge Plugs Set/Type Acid, Fracture, Shot, Cement Squeeze Record Shots Per Foot Specify Footage of Each Interval Perforated Depth (Amount and Kind of Material Used) 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** Oil Bbls Gas Mcf Water Bbls. Gas-Oil Ratio Gravity Per 24 Hours METHOD OF COMPLETION: DISPOSITION OF GAS: PRODUCTION INTERVAL: Open Hole Perf. Dually Comp. Commingled Vented Sold Used on Lease (Submit ACO-5) (Submit ACO-4) (If vented, Submit ACO-18.) Other (Specify)

Form	ACO1 - Well Completion
Operator	SandRidge Exploration and Production LLC
Well Name	Zoey 1-13H
Doc ID	1085154

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	30	20	75	90	Express Energy Services Cement	12	none
Surface	12.25	9.63	36	960	Halliburton Light Standard/ Standard	490	3% Calcium Chloride, .25 lbm Poly-E- Flake
Intermedia te	8.75	7	26	5423	50/50 Poz Standard/ Premium	310	.4% halad(R)- 9, 2 lbm Kol-Seal, 2% Bentonite
Production	6.12	4.5	11.6	8450	50/50 Poz Standard	370	.4% Halad(R)- 9, 10lbm Kol-Seal, 2% Bentonite, .3% CFR- 3, .25 lbm Poly- E_flake

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



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

Sam Brownback, Governor

Mark Sievers, Chairman Ward Loyd, Commissioner Thomas E. Wright, Commissioner

June 20, 2012

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

Re: ACO1 API 15-007-23892-01-00 Zoey 1-13H SE/4 Sec.13-35S-10W Barber County, Kansas

Dear Production Department:

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

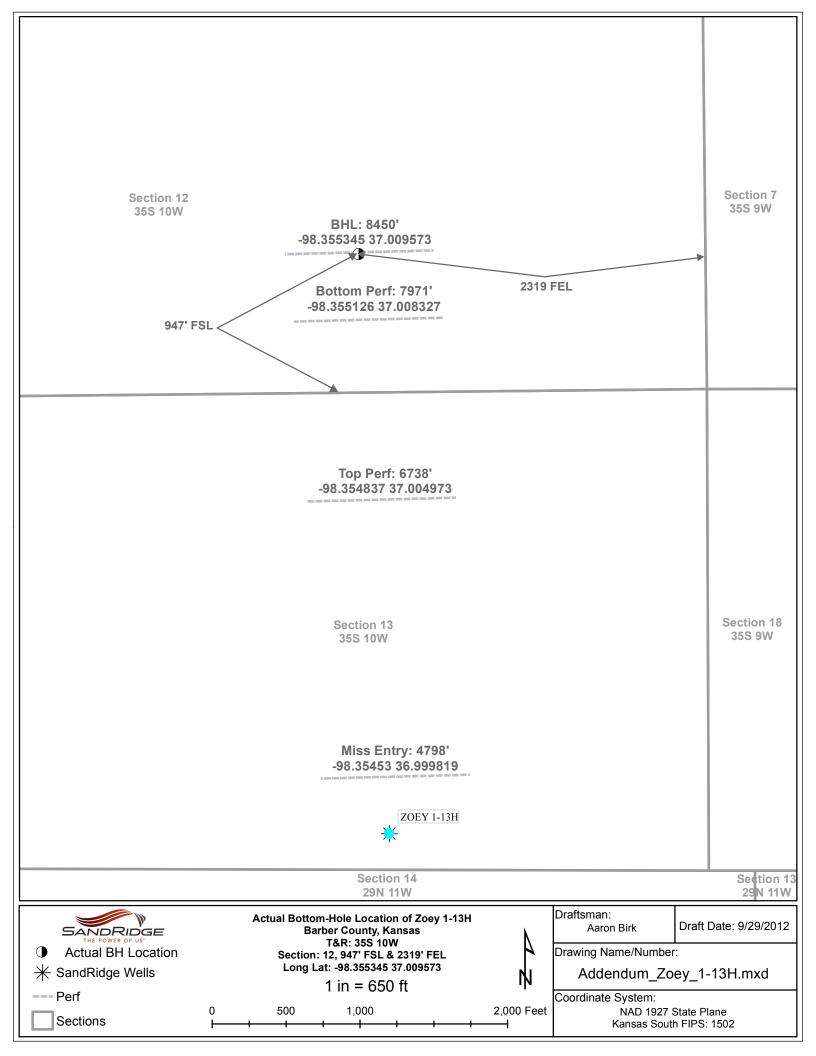
Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully, Tiffany Golay

	Measured	Sub-Sea	Vertical	True Vert	Northings (+)	Eastings (+)	Vert	DLS				
	Depth	Incl.	Azim.	Depth	Southings (-)	Westings (-)	Section	deg/100'				
	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(deg)	FNL	FSL	FWL	FEL
SHL	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3016	200	3089	2240
BHL	8450	94.13	353.97	4795.18	3978.39	-98.29	3978.69	0.00	4316	947	3021	2319
Miss Entry	5012	56.92	1.85	4798.01	566.70	52.28	566.52	9.62	2449	767	3146	2185
Top Perf	5020	57.74	1.62	4802.30	573.45	52.47	573.27	9.97	2443	773	3146	2185
Bottom Perf	8340	94.20	353.51	4803.16	3869.32	-86.41	3869.59	0.99	4426	838	3032	2308

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		6844	91.61										
		6939	90.00	357.66	4829.32	2473.82	1.61	2473.81	2.19	542	2674	3109	2226 of 13-35S-10

	Measured	Sub-Sea	Vertical	True Vert	Northings (+)	Eastings (+)	Vert	DLS					
	Depth	Incl.	Azim.	Depth	Southings (+)	Westings (+)	Section	deg/100'					
	(ft)	(ft)	(deg)	(ft)	(ft)	(ft)	(ft)	(deg)	FNL	FSL	FWL	FEL	
	7034	90.34	0.24	4829.04	2568.80	-0.13	2568.79	2.74	447	2769	3108		of 13-35S-10
	7129	90.62	1.55	4828.24	2663.78	1.35	2663.76	1.41	352	2864	3111		of 13-35S-10
	7224	88.55	359.77	4828.93	2758.77	2.45	2758.74	2.87	257	2959	3112		of 13-35S-10
	7319	89.81	0.29	4830.29	2853.75	2.50	2853.73	1.43	162	3054	3113		of 13-35S-10
	7414	88.46	356.84	4831.72	2948.70	0.12	2948.68	3.90	67	3148			of 13-35S-10
Crossover into	7414	89.94	357.12	4832.62	3012.60	-3.25	3012.59		3		3111		
Section 12	7541	90.92	357.12	4832.14				2.35		3212	3109		of 13-35S-1(
Section 12	7604	89.32	355.86	4832.01	3075.51 3138.39	-6.48	3075.52	1.57	5220	44	3106		of 12-35S-10
	7668			4832.06		-10.41	3138.41	3.12	5157	107	3102		of 12-35S-10
	7731	90.59	357.57		3202.28	-14.07	3202.31	3.33	5093	171	3099		of 12-35S-10
		92.04	357.08	4830.62	3265.19	-17.01	3265.23	2.43	5030	234	3097		of 12-35S-1(
	7794	91.70	354.06	4828.56	3327.96	-21.88	3328.02	4.82	4967	297	3092		of 12-35S-10
	7858	90.68	351.91	4827.23	3391.47	-29.69	3391.55	3.72	4904	360	3085		of 12-35S-10
	7921	89.81	352.10	4826.96	3453.85	-38.45	3453.96	1.41	4841	422	3077		of 12-35S-10
	7984	92.25	353.37	4825.83	3516.33	-46.42	3516.47	4.37	4779	485	3069		of 12-35S-10
	8048	92.69	353.46	4823.07	3579.85	-53.75	3580.01	0.70	4715	548	3062		of 12-35S-10
	8111	94.03	353.50	4819.38	3642.33	-60.89	3642.51	2.13	4653	611	3056	2283	of 12-35S-10
	8175	93.87	353.15	4814.97	3705.75	-68.31	3705.95	0.60	4589	674	3049	2290	of 12-35S-10
	8270	94.20	354.17	4808.28	3799.93	-78.78	3800.17	1.13	4495	768	3039	2300	of 12-35S-10
	8365	94.20	353.27	4801.33	3894.11	-89.14	3894.38	0.94	4401	862	3029	2310	of 12-35S-10
	8405	94.13	353.97	4798.42	3933.75	-93.57	3934.04	1.75	4361	902	3025	2315	of 12-35S-10
	8450	94.13	353.97	4795.18	3978.39	-98.29	3978.69	0.00	4316	947	3021	2319	of 12-35S-10





P.O. Box 1570

Woodward, OK 73802

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

Date	Invoice #
6/8/2012	1358

Invoice

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
John Fortune	Net 45	6/8/2012	Toews #1-21H, Gray Cnty, KS	Lariat 3

	John Fortune		Net 45		0/8/2012		10ews #1-21	H, Gray Chty, KS	Lariat 3	
	Item		Quantity					Description		
20" F Mou: 16" F Cella 6' X 6 Mud Mud, Grou Grou Weld Dirt l	se Hole Pipe r Hole 6' Tinhorn and Water Water, & Trucking t & Trucking t Pump er & Materials Removal r Plate	TI) (/2 /2 2005 /- 010 (450 80 2005 /-	100 80 80 1 1 1 10 1 1 1	Drilled 100 ft. co Furnished 100 ft. Drilled 80 ft. moi Furnished 80 ft. o Drilled 6x6 cellar Furnished and se Furnished mud ar Transport mud ar Furnished grout p Furnished grout p Furnished cover p Furnished cover p Permits	of 20 use ho of 16 in the left for the left	inch conductle. nch mouse h inhorn. er. er to location grout and tru naterials. removal.	oole pipe.		
	Co. Man Sig Notes:).: <u> </u>		C		_	Subto	tal	\$24,450.	.00
	4						Sales	Tax (0.0%)	\$0.	.00
								Total	\$24,450.00	

Cementing Job Summary

The Road to Excellence Starts with Safety Sold To #: 305021 Quote #: Sales Order #: 9648187 **Ship To #**: 2937784 Customer: SANDRIDGE ENERGY INC EBUSINESS Customer Rep: Ivey, Ronnie API/UWI #: Well Name: Toews 2629 Well #: 1-21H City (SAP): INGALLS County/Parish: Gray State: Kansas Field: Legal Description: Section 21 Township 26S Range 29W Rig/Platform Name/Num: 3 Contractor: Lariat Job Purpose: Cement Surface Casing Well Type: Development Well Job Type: Cement Surface Casing Sales Person: NGUYEN, VINH Srvc Supervisor: RALSTON, ANTHONY MBU ID Emp #: 448065 **Job Personnel** Emp# **HES Emp Name HES Emp Name** Exp Hrs Exp Hrs Emp# **HES Emp Name** Emp# Exp Hrs DALRYMPLE, BRIAN 456242 Martinez, Joesph Norton, Bruce 499926 4.0 523879 4.0 Kieth RALSTON, 448065 ANTHONY Kenneth Equipment HES Unit # Distance-1 way HES Unit # HES Unit # HES Unit # Distance-1 way Distance-1 way Distance-1 way **Job Hours** Date On Location Operating Date On Location Operating Date On Location Operating Hours Hours Hours Hours Hours Hours 07/08/2012 4 TOTAL Total is the sum of each column separately Job **Job Times Formation Name** Date Time **Time Zone** Formation Depth (MD) Top 08 - Jul - 2012 Bottom Called Out 01:30 CST Form Type BHST On Location 08 - Jul - 2012 09:30 CST Job Depth TVD Job depth MD 1537. ft 1537. ft 08 - Jul - 2012 10:55 CST Job Started Water Depth Wk Ht Above Floor 5. ft Job Completed 08 - Jul - 2012 11:58 CST Perforation Depth (MD) From To Departed Loc 08 - Jul - 2012 13:30 CST **Well Data** Description New / Max Size ID Weight Grade Top MD **Bottom Bottom** Thread Top Used pressure lbm/ft MD **TVD** TVD in in ft psig ft ft ft 12.25" Open Hole 12.25 1572. 9.625" Surface Unknow 9.625 8.921 36. LTC J-55 1572. Casing n Sales/Rental/3rd Party (HES) Description Qty uom Depth Supplier Qty SUGAR - GRANULATED 80 LB PLUG, CMTG, TOP, 9 5/8, HWE, 8, 16 MIN/9, 06 MA EA **Tools and Accessories** Type Size Qtv Make Depth Type Size Qtv Make Depth Type Size Qty Make **Guide Shoe** Packer Top Plug 9 5/8 **HES** 1 Float Shoe 2 Bridge Plug **Bottom Plug** Float Collar Retainer SSR plug set Insert Float Plug Container 9 5/8 **HES** Stage Tool Centralizers **Miscellaneous Materials** Gelling Agt Conc Surfactant Conc Acid Type Qty Conc % Treatment Fld Inhibitor Sand Type Conc Conc Size Qty

Fluid Data
Stage/Plug #: 1

Summit Version: 7.3.0030

Cementing Job Summary

Fluid #	Stage T	уре		Fluid N	ame		Qty	Qty uom	Mixing Density Ibm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	E. Sales	al Mix I Gal/sk
1	Fresh Wa	ter					10.00	bbl	8.33	.0	.0	4		
2	Lead Cen	nent	EXTE	NDACEM (TM)	SYSTEM (4	52981)	400.0	sacks	12.4	2.12	11.68	6.5	1	1.68
	3 %		CALC	IUM CHLORIDE	, PELLET,	50 LB (1	01509387	<u>'</u>)						
	0.25 lbm		POLY	'-E-FLAKE (1012	16940)									
	11.676 Ga	I	FRES	SH WATER										
3	Tail Ceme	ent	SWIF	TCEM (TM) SYS	TEM (4529	90)	160.0	sacks	15.6	1.2	5.32	6		5.32
	2 %			IUM CHLORIDE			01509387	')						
	0.125 lbm		POLY	'-E-FLAKE (1012	16940)	•								
	5.319 Gal		FRES	SH WATER										
4	Displacen	nent					112.00	bbl	8.33	.0	.0	6		
Ca	lculated \	AND THE RESERVE AND		Pressui	es	Agrico de			V	olumes				
Displa	cement	112	S	hut In: Instant		Lost Returns		NO	Cement S	lurry	185	Pad		
	Cement	SUR	F 5	Min		Cemen	t Returns	30	Actual Di	splaceme	ent 112	Treatm	nent	
	radient		1:	5 Min		Spacer	S	10	Load and	Breakdo	wn	Total J	lob	307
						R	ates							
Circu	lating			Mixing	6.25		Displac	ement	6		Avg. J	ob	6.1	259
Cem	ent Left In	Pipe	Amou	unt 86.5 ft Rea	son Shoe	Joint						,		
Frac F	Ring # 1 @	ТΤ	ID	Frac ring # 2	@ 1	D	Frac Rin	g#3@	10)	Frac Ring	#4@		D
Th	e Inform	ation	State	ed Herein Is (Correct	Custon	ner Repres	entative S	Signature				·	·

Sunday, July 08, 2012 12:31:00

Cementing Job Summary

The Road to Excellence Starts with Safety Sales Order #: 9666632 Sold To #: 305021 Ship To #: 2937784 Quote #: Customer: SANDRIDGE ENERGY INC EBUSINESS Customer Rep: Ivey, Ronnie Well Name: Toews 2629 Well #: 1-21H API/UWI #: Field: City (SAP): INGALLS County/Parish: Gray State: Kansas Legal Description: Section 21 Township 26S Range 29W Rig/Platform Name/Num: 3 Contractor: Lariat Job Purpose: Cement Intermediate Casing Well Type: Development Well Job Type: Cement Intermediate Casing Sales Person: NGUYEN, VINH Srvc Supervisor: RALSTON, ANTHONY MBU ID Emp #: 448065 Job Personnel **HES Emp Name** Exp Hrs Emp# **HES Emp Name** Exp Hrs Emp# **HES Emp Name** Emp# Exp Hrs CLEMENS. 198516 COFFMAN, TYLER 9.5 511173 Mendoza, Victor 9.5 442596 8.5 ANTHONY Jason Richard 9.5 448065 RALSTON. **ANTHONY Kenneth** 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 Operating Operating Date On Location Date On Location Operating Hours Hours Hours Hours Hours Hours TOTAL Total is the sum of each column separately Job **Job Times** Formation Name Date Time Time Zone Formation Depth (MD) Top Bottom Called Out 15 - Jul - 2012 09:30 CST 16:00 Form Type BHST On Location 15 - Jul - 2012 CST Job depth MD 5437. ft Job Depth TVD 5437. ft Job Started 15 - Jul - 2012 21:20 CST Water Depth Wk Ht Above Floor 8.5 ft 15 - Jul - 2012 22:42 CST Job Completed Perforation Depth (MD) From 16 - Jul - 2012 00:30 To Departed Loc CST Well Data Description New / Max ID Weight Bottom Bottom Size **Thread** Grade Top MD Top TVD Used pressure in in lbm/ft ft MD **TVD** psig ft ft ft 8.75" Open Hole 8.75 5410. 1572 7" Intermediate Unknow 7. 6.276 26. LTC P-110 5437. Casing n 9.625" Surface LTC Unknow 9.625 8.921 36 J-55 1538. Casing n Sales/Rental/3rd Party (HES) Qty Qty uom Description Depth Supplier PLUG, CMTG, TOP. 7. HWE. 5.66 MIN/6.54 MAX CS EA **Tools and Accessories** Type Size Qtv Make Depth Type Size Make Depth Type Size Qtv Make **Guide Shoe** Packer Top Plug 7 1 **HES** Float Shoe Bridge Plug **Bottom Plug** Float Collar Retainer SSR plug set Insert Float Plug Container 7 1 HES Stage Tool Centralizers **Miscellaneous Materials Gelling Agt** Conc Surfactant Conc Acid Type Conc % Qtv Treatment Fld Conc Inhibitor Conc Sand Type Size Qty

Summit Version: 7.3.0030

Stage/Plug #: 1

Fluid Data

Cementing Job Summary

Fluid #	Stage T	ype		Fluid Name			Qty	Qty uom	Mixing Density Ibm/gal	Yield ft3/sk	Mix Flu Gal/sl		A STATE OF THE STATE OF	al Mix Gal/sk		
1	Fresh Wat	er					10.00	bbl	8.33	.0	.0	4				
2	Lead Cement			OCEM (TM) SY	STEM (452	992)	150.0	sacks	13.6	1.57	7.47	7	7.47			
	0.4 %		HALAD(R)-9, 50 LB (100001617)													
	2 lbm		KOL-SEAL, BULK (100064233)													
	2 %		BENTONITE, BULK (100003682)													
	7.465 Gal		FRESH WATER													
3	Tail Ceme	nt	HALC	EM (TM) SYSTE	EM (452986)	100.0	sacks	15.6	1.19	5.3	5	,	5.3		
	0.4 %		HALAD(R)-9, 50 LB (100001617)													
	5.298 Gal		FRESH WATER													
4	Displacement (TBC)						204.00	bbl	8.33	.0	.0	6				
Ca	Iculated V	/alues	新 生	Pressur	es			15.5 F. 15	· V	olumes						
Displa	cement	204	1 S	hut In: Instant	Lost Returns		0	Cement Slurry		6	3 Pad	Pad				
Top Of Cement		321	10 5 Min			Cemen	t Returns	0	Actual Di	splacem	ent 20	4 Treatn	nent			
Frac Gradient			15 Min			Spacers		10	Load and Breakdown		wn	Total .	Job	277		
				即於對於政治		F	lates									
Circu	lating		Mixing 6			Displac		ement	6		Avg. Jo		6	6		
Cem	ent Left In	Pipe	Amou	ınt 90.65 ft Rea	son Shoe	Joint										
Frac Ring # 1 @ ID Frac ring # 2 @						D	Frac Ring # 3 @		l li	0	Frac Rin	ac Ring # 4 @		D		
Th	e Informa	ation	State	ed Herein Is C	Correct	Custon	ner Represe	entative S	Signature			·				

Cementing Job Summary

The Road to Excellence Starts with Safety Sold To #: 305021 Ship To #: 2937784 Quote #: Sales Order #: 9685178 Customer: SANDRIDGE ENERGY INC EBUSINESS Customer Rep: Ivey, Ronnie Well Name: Toews 2629 Well #: 1-21H API/UWI #: Field: City (SAP): INGALLS County/Parish: Gray State: Kansas Legal Description: Section 21 Township 26S Range 29W Contractor: Lariat Rig/Platform Name/Num: 3 Job Purpose: Cement Production Liner Well Type: Development Well Job Type: Cement Production Liner Sales Person: NGUYEN, VINH Srvc Supervisor: AGUILERA, FABIAN MBU ID Emp #: 442123 Job Personnel **HES Emp Name** Exp Hrs Emp# **HES Emp Name** Exp Hrs Emp# **HES Emp Name** Exp Hrs Emp# AGUILERA, FABIAN 12 442123 HEIDT, JAMES 12 517102 MENDOZA, VICTOR 10 442596 **Nicholas** NORTON, BRUCE 10 499926 REDFEARN, BRADY 12 497317 Wayne Tanner Equipment HES Unit# Distance-1 way HES Unit# HES Unit# Distance-1 way Distance-1 way **HES Unit#** Distance-1 way **Job Hours** On Location Date Operating Date On Location Operating Date On Location Operating Hours Hours Hours Hours Hours Hours 7/24/2012 12 1.5 TOTAL Total is the sum of each column separately Job **Job Times Formation Name** Date Time Time Zone Formation Depth (MD) Top 23 - Jul - 2012 18:00 CST **Bottom** Called Out **BHST** 23 - Jul - 2012 22:30 CST Form Type On Location 9290.2 ft 9290.2 ft Job Depth TVD CST Job depth MD Job Started 24 - Jul - 2012 10:07 Water Depth Wk Ht Above Floor 5. ft Job Completed 24 - Jul - 2012 11:38 CST Perforation Depth (MD) From 24 - Jul - 2012 CST To Departed Loc 14:00 **Well Data** Description ID New / Max Size Weight Grade Top MD **Bottom Bottom Thread** Top TVD Used pressure MD **TVD** in in lbm/ft ft psig ft ft ft 6.125" Open Hole 6.125 5426. 9338. 4.5" Production LTC Unknow 4.5 11.6 P-110 5029. 9338. 4. Liner n 7" Intermediate Unknow 7. 6.276 26. LTC P-110 5426. Casing n 4" Drill Pipe Unknow 4. 3.34 14. Unknown 5029. n **Tools and Accessories** Type Size Qty Make Depth Type Size Qty Make Depth Type Size Qtv Make **Guide Shoe** Packer Top Plug Bridge Plug Float Shoe **Bottom Plug** Float Collar SSR plug set Retainer **Insert Float** Plug Container Stage Tool Centralizers Miscellaneous Materials Gelling Agt Conc Surfactant Conc Acid Type Conc % Qty **Treatment Fld** Conc Inhibitor Conc Sand Type Size Qty

Fluid Data
Stage/Plug #: 1

Summit Version: 7.3.0039 Tuesday, July 24, 2012 12:51:00

Cementing Job Summary

Fluid #	Stage Type			Fluid Name					Qty	Qty uom	Mixing Density Ibm/gal	Yield ft3/sk	Vlix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	1 Rig Caustic Water Spacer								10.00	bbl	8.5	.0	.0	.0	
2	Primary Cement			ECONOCEM (TM) SYSTEM (4529					450.0	sacks	13.6	1.54	7.36		7.36
	0.4 %	Ó	HA	HALAD(R)-9, 50 LB (100001617)											
2 lbm				KOL-SEAL, BULK (100064233)											
	2 %		BE	BENTONITE, BULK (100003682)											
	7.356 (Gal	FR	FRESH WATER											
3	Displa	cement							118.00	bbl	8.33	.0	.0	.0	
C	alculate	d Value	S		Press	sures					V	olumes			
Displa	cement	116	BBL	BL Shut In: Instant				Lost Returns		0	Cement Slurry		123 BI	3L Pad	
Top O	f Cemen	t 2857.	19 FT	FT.5 Min				Cement Returns		0	Actual Displacement		nt 116 Bi	3L Treatm	ent
Frac G	radient			15 Min				Spacers 3			Load and Breakdown			Total J	
									Rates						
Circulating 3				Mixing 5			Displaceme		ement	5.5		Avg. J	ob	4	
Cem	ent Left	In Pipe	Am	ount	80 ft	Reaso	n Shoe	Joint				•		1	
Frac	Ring #1	@	ID		Frac ring	#2@	11	D Frac Ring		g#3@		ID Frac		#4@	ID
Tł	ne Info	rmatio	ı Sta	ited	Herein I	s Cor	rect	Cust	omer Represe	entative S	Signature				