

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1166864

Form ACO-1 June 2009 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:	
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	
Contact Person:	
Phone: ()	
CONTRACTOR: License #	
Name:	
Wellsite Geologist:	
Purchaser:	
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
New Well Re-Entry Workover	Total Depth: Plug Back Total Depth:
	Amount of Surface Pipe Set and Cemented at: Feet
Gas D&A ENHR SIGW	Multiple Stage Cementing Collar Used? Yes No
	. Abd. If yes, show depth set: Feet
CM (Coal Bed Methane)	If Alternate II completion, cement circulated from:
Cathodic Other (Core, Expl., etc.):	feet depth to:w/sx cmt.
If Workover/Re-entry: Old Well Info as follows:	
Operator:	
Well Name:	Drilling Fluid Management Plan     (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to ENHR Conv	Chloride content: ppm Fluid volume: bbls
Conv. to GSW	Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	
SWD Permit #:	
ENHR Permit #:	
GSW Permit #:	County: Permit #:
Spud Date or         Date Reached TD         Completion Date           Recompletion Date         Recompletion Date         Recompletion Date	

#### 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													
Letter of Confidentiality Received													
Date:													
Confidential Release Date:													
Wireline Log Received													
Geologist Report Received													
UIC Distribution													
ALT I II Approved by: Date:													

	Side Two	1166864						
Operator Name:	Lease Name:	Well #:						
Sec TwpS. R East West	County:							

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken (Attach Additional Sh	eets)	Yes No		-	n (Top), Depth and		Sample
Samples Sent to Geolog	gical Survey	Yes No	Nam	16		Тор	Datum
Cores Taken Electric Log Run Electric Log Submitted B (If no, Submit Copy)	Electronically	<pre>Yes □ No  Yes □ No  Yes □ No</pre>					
List All E. Logs Run:							
		CASIN	G RECORD	ew Used			
		Report all strings se	t-conductor, surface, int	ermediate, producti	on, etc.		
Purpose of String	Purpose of String Size Hole Drilled		Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

#### ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: —— Perforate	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing Plug Back TD				
Plug Off Zone				

Shots Per Foot		PERFORATION Specify For		RD - Bridge P Each Interval I		)e		Depth				
TUBING RECORD:	Siz	ze:	Set At: Packer At:					un:	No			
Date of First, Resumed I	Product	ion, SWD or ENHF	<b>λ</b> .	Producing N	1ethod:	ping	Gas Lift	Other (Explain)				
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas Mcf		Water		Bbls.	Gas-Oil Ratio	Gravity		
						1						
DISPOSITIC	ON OF G	BAS:			METHOD	OF COMPLE	TION:		PRODUCTION INT	DUCTION INTERVAL:		
Vented Sold		Jsed on Lease		Open Hole	Perf.	Dually (Submit)	Comp. ACO-5)	Commingled (Submit ACO-4)				
(If vented, Sub	omit ACC	)-18.)		Other (Specify)								

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Pioneer Natural Resources USA, Inc.
Well Name	JARVIS et al ATU 1
Doc ID	1166864

Tops

Name	Тор	Datum
KRIDER	2462	
ODELL	2495	
WINFIELD	2540	
GAGE	2558	
TOWANDA	2597	
FT_RILEY	2653	
WREFORD	2736	
A1_LIME	2779	
B1_LIME	2829	
B2_LIME	2852	
B3_LIME	2874	
B4_LIME	2890	
B5_LIME	2900	

CEMENTING TRI	EATMENT	REPORT			PIC	DNEER			BER G2013014		DATE		7/13/2013								
					NATHR	AL RESOURCES				STAGE			ЈОВ ТҮ	PE	PE						
WELL NAME A	ND NO.				LOCATI	ON (LEGAL)		RIG NAME:		1				Surface CEMENT PUMPER:							
FIELD	J	larvis ATU1			FORMAT			WELL DATA			воттом	1		FT TO	23004	FT					
11222	Hu	goton/Panor	na			Glorieta		BIT SIZE	12 1 /4	CSG/Liner Size	85/8										
COUNTY					STATE		I NO.	TOTAL DEPTH	700	WEIGHT	24#										
		Grant			1	Kansas		MUD TYPE		FOOTAGE	676.37					_					
				V		c 1		BHST BHCT		GRADE	J-55					_					
RIG FORMAN				Ке	vin Swaf	ford				THREAD SHOE JOINT(S)	STC					momer					
CEMENT SUPER				Fran	ik L. Gon	zalec		MUD DENSITY MUD VISC		Disp. Capacity	42.26 40.3					TOTAL: 40.3					
CEMENT SUPER				1141	IK L. GOI	izaics		Include Footage From G	round Level To He		40.5					10.5					
				1	Mike Vecell	io		Q TYPE			_	TYPE DEPTH									
								E DEPTH B TYPE													
SPECIAL INSTRUC	TIONS							S DEPTH		_	Stage Tool	TYPE DEPTH									
								Head & Plugs			P.			SQ	UEEZE JOB						
								- Bouble Box 6		SIZE	2 7/8		TYPE								
									WEIGHT		6.4		DEPTH								
	D	D. OI D	.11 T	W2				swage	GRADE THREADS		J-55 EUE	TAIL PIPE		SIZI	3	DEPTH BBLs					
	Personnel; J	.R. Ortiz, Kon	ald Trujillo, Eric	Wheeler, Robe	rt Ashe					/Used	EUE	TUBING V CSG VOL I				BBLs					
LIFT PRESSURE		1	244	psi					DEPTH	0300		TOTAL				BBLs					
PRESSURE LIMIT	r	1	000	psi		PLUG TO	800	CEMENT TEMPERA	TURE:			ANNULAR				BBLs					
			1			Centralizer:	5 + 1 basket	WATER QUALITY:			Ph			PPG		TEMP					
TIME 0001 to 2400	TBG	SSURE CSG	INCR	E PUMPED CUM	JOB SCHE TIME:	22:30 Da	ate: 7/12/2013	ARRIVE ON LOCATI TIME: 22:15		7/12/2013	RIG UP TIME:	11:40	DATE:	7/12/2013 TIN	T LOCATION IE: 3:00	DATE: 7/13/	/2013				
					RATE	FLUID TYPE	DENSITY														
0:15								Safety meeting													
0:58		1000	2	2	1	H2O	8.3				Pr	essure Test									
				1	1			Ì													
0:59		20	43	45	4	H2O	8.3				Pum	Water Ah	ead								
0.57		20	45		7	1120	0.5				1 uni	Water 7 His	Jud								
1:09		100	113	158	4	H2O	15				Pump C	ement @ 1	5 PPG								
1:09		100	115	138	4	H20	15				rumpe	ement @ 1.	) IIU								
						_					DI										
1:44						Cmt.					Di	ROP PLUG	ſ								
1:45		30	40.3		4	H2O	8.3				Pump	Displacem	ent								
1:48		125		170	4	Cmt.	8.3				1S	T. Call Out									
1:51		200		182	4	Cmt.	8.3				2n	d. Call Out									
1:54		200		194	4	H2O	8.3				3r	d. Call Out									
1:58		240		198.3	2	H2O	8.3		Final Lift												
1:59		1000				H2O	8.3				Е	ump Plug									
												1 0									
2:10											Ы	UG HELD									
2.10																					
		<u> </u>		1			-														
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								<u> </u>													
							_														
		ļ																			
		L		ļ			_														
			50	248.3	4	H2O	8.3				Wash U	Pump and	Lines								
2:30																					
System Used	No.of Sacks	Yield ft <sup>3</sup> /sk						COMPOSITION OF S	SYSTEM						SLURR BBLS	Y MIXED DENSITY	Y				
Surf Sat	526	1.21	l					Class G,Pozz,S1,P29	9 P46						113	15					
Surf. Set	320	1.21						Ciass G,P0ZZ,S1,P29	7,1 HU						115	15					
																-					
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		<u> </u>		1																	
CIRCULATION	1-0	yes	0	WASHED C.	ASING DOW	VN no	num kie	(1) D. 1 (7)		BREAKDOWN		20	PSI	FINAL	1000	PSI					
DISPLACEMENT	U/e VOL		0 40 5	BBLS	1	Yes	RET MED TO	SURFACE 40		BEFORE PLUG BUM PRESSURE	P 2	10	PSI	RATE		RPM					

CEMENTING TRI	EATMENT	REPORT (P	AGE 2)		PIC	NEEP							DATE 7/13/2013					
						L RESOURCES				STAGE	FG2013014		JOB TYPE					
VELL NAME AN	D NO					N (LEGAL)		RIG NAME:			1		Surface CEMENT PUMP:					
		Jarvis ATU1												SUPERVISOR		3004		
TELD	H	ugoton/Panon	a		FORMATI	ON Glorieta		RIG FOREMAN:	RIG FOREMAN: Kevin Swafford						t: Frank L	. Gonzales		
COUNTY		Grant			STATE	API Kansas	NO.	ARRIVE ON LOCATION TIME: 22:15	DATE:	7/12/2013	RIG UP TIME:	11:40	DATE.	7/12/2013 T	EFT LOCAT	ION 3:00	DATE:	7/13/20
TIME		SSURE	VOLUME PU	MPED	JOB SCHE	DULED FOR		11ME: 22.15	DATE:	//12/2013			DATE:	//12/2013	IME:	3.00	DATE:	//13/20
0001 to 2400	TBG	CSG	INC	CUM	TIME: RATE	22:30 DA' FLUID TYPE	E: 7/12/2013 DENSITY	4			(	COMMENT						
					RAIL	TEODTITE	DEASITT											
							-											
							+											
							1	1										
							1											
					1													

JOB SUMARY:

CEMENTING TR	EATMENT	REPORT			PIC	DNEER					TREATMENT NUMBER DATE FG2013015					7/14/2013						
<b></b>					NATUR	AL RESOURCES		1			STAGE	2		JOB TY			Production					
WELL NAME AN		Jarvis ATU1			194'F	N (LEGAL) NL&214'FEL,SEC.23,T2	9S,R37W	RIG NAME:		Trinidad	l drilling Rig #216			CEMEN	T PUMPER:		2301					
FIELD	Hu	igoton/Panon	na		FORMATI	ION Glorietta		WELL DATA BIT SIZE	1	7.7/3	8 CSG/Liner Size	5 1/2			FT	TOP		FT				
COUNTY		0			STATE	API N	ю.	TOTAL DEP	тн	3000	WEIGHT	VEIGHT 15.5										
		Grant			1	Kansas		MUD TYPE BHST			FOOTAGE	2977.72										
RIG FORMAN				K	evin Swafford	1		ВНСТ			GRADE THREAD	J-55 LT&C										
									ID DENSITY SHOE JOINT(S) 42.24								TOTAL:					
CEMENT SUPER				Fran	k L. Gonz	ales		MUD VISC Include Foota		d Level To Head	Disp. Capacity In Disp. Capacity	68.1										
				Mike Vecelli	0			TYPE DEPTH			10.0100.3	10	TYPE									
								TYPE				Stage Tool	DEPTH TYPE									
SPECIAL INSTRU	CTIONS							DEPTH Head & Plugs			TBG	D.P.	DEPTH			SOUEE	ZE JOB					
											SIZE		TOOL	TYPE								
								Double B	OX 6	WEIGHT GRADE			F TAIL PIPE	DEPTH		SIZE		DEPTH				
Personnel; J.R. Orti	z,Ronald Tru	ijillo,Robert	Ashe					Swage		THREADS			TUBING V	OLUME				BBLs				
LIFT PRESSURE		1	811	psi				Knockou	t	New DEPTH	Used		CSG VOL I TOTAL	BELOW T	OOL			BBLs BBLs				
PRESSURE LIMI	Г		3000		i BUMP PL	UG TO	1300	CEMENT TH	EMPERATUR				4 ANNULAR	VOLUME				BBLS				
TIME	DDEC	SURE	VOLUME	E PUMPED	NO. of Centralizers 15 JOB SCHEDULED FOR			WATER QU	ALITY: LOCATION			7 pH RIG UP	0		PPG	I FFT I	74 OCATION	TEMP				
0001 to 2400	TBG	CSG	INCR	CUM	TIME:	16:45 DATE		TIME:		0 DATE:	7/14/134	TIME:	17:00	DATE:	7/14/2013		19:45	DATE:	7/14/2013			
					RATE	FLUID TYPE	DENSITY															
17:40												Saf	ety Meetir	19								
														-0								
18:00						<u>H2O</u>	8.3					Load	l Bottom P	lug								
18:19		3000	2	2	1							Pr	essure Tes	st								
19.26		45	75	77	4	1120	0.2							J								
18:26		45	75	77	4	H2O	8.3					vv	ater Ahead	J								
18:37		200	124	201	4	Cmt.	12.5					Pump Ce	ment @ 12	2.5 PPG	ŕ							
19:09		75	36	237	4	Cmt.	13.5					Pump Ce	ment @ 13	3.5 PPG	ł							
19:20					4	H2O						DI	ROP PLUC	7								
19.20						1120						DI		5								
19:20		30	68.1		4	H2O	8.3					Pump	Displacer	nent								
19:24		20	-	257	4	H2O	8.3					1s	st. Call Ou	t								
19:30		550		277	4	H2O	8.3					2n	d. Call Ou	t								
19:36		800		297	4	H2O	8.3					3r	d. Call Ou	t								
10.10				205.4																		
19:40		750		305.1	1	H2O	8.3						Final Lift									
19:41		1700			1	H2O	8.3					В	ump Plug									
19:57			50	355.1								Wash Up	o Pump an	d Lines								
20:30								RIG DOWN														
System Used	No.of Sacks	Yield ft <sup>3</sup> /sk			•		•	COMPOS	SITION OF SY	YSTEM							SLURR BBLS	Y MIXED DE	NSITY			
lead	290	2.4						Class G,Pozz.	P20,81,P29,P4	46,P42,P154						L	125		12.5			
tail	127	1.61					Class G,Po								36		13.5					
				1																		
CIRCULATION	٧¥	es 🗌	No	WASHED C	ASING DOV		ETURNED TO	SURFACE			BREAKDOWN BEFORE PLUG BUN	4P	43	5 PSI	FINAL		1700	PS	I			
	101		<b>c0 0</b>	<b>DD</b> 0	1	ĸ					DDDCCUDD			DCT	D. 1 TT							