Confidentiality Requested: Yes No

# KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1215590

Form ACO-1 August 2013 Form must be Typed Form must be Signed All blanks must be Filled

### WELL COMPLETION FORM

WELL HISTORY	I - DESCRIPTION O	<b>)F WELL &amp; LEASE</b>

OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	
Address 2:	Feet from  North / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxx) (e.gxxx.xxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
	Field Name:
	Producing Formation:
	Elevation: Ground: Kelly Bushing:
Gas D&A ENHR SIGW	Total Vertical Depth: Plug Back Total Depth:
GG GSW Temp. Abd.	Amount of Surface Pipe Set and Cemented at: Feet
CM (Coal Bed Methane)	Multiple Stage Cementing Collar Used? Yes No
Cathodic Other (Core, Expl., etc.):	
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to ENHR Conv. to SWD	Drilling Fluid Management Plan
Plug Back Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls
Dual Completion     Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
ENHR Permit #:	
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached 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	1
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East West	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 (Attach Additional Shi	eets)	Yes No	L	og Formatio	n (Top), Depth and	d Datum	Sample
Samples Sent to Geolog	,	Yes No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
		CASING Report all strings set-c	RECORD Ne		on, etc.		
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
		ADDITIONAL	CEMENTING / SQL	JEEZE RECORD			
Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used		Type and Pe	ercent Additives	
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 an	d 3)
	0	Iraulic fracturing treatment ex	ceed 350,000 gallons'			question 3)	
Was the hydraulic fracturing	treatment informatio	n submitted to the chemical o	lisclosure registry?	Yes	No (If No, fill c	out Page Three	of the ACO-1)

Shots Per Foot		PERFORATION Specify Fo		RD - Bridge Pl Each Interval F		e		Acid, Fracture, Shot, Ce Amount and King	ement Squeeze Record	Depth
			g					(		
TUBING RECORD:	Siz	ze:	Set At:		Packe	r At:	Liner R	un:	No	
Date of First, Resumed	Product	ion, SWD or ENHF	٦.	Producing M						
				Flowing	Pum	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	ər	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITI	ON OF C	AS:			METHOD		TION:		PRODUCTION IN	FERVAL:
Vented Solo		Jsed on Lease		Open Hole	Perf.	Dually (Submit )	Comp. A <i>CO-5)</i>	Commingled (Submit ACO-4)		
(If vented, Su	bmit ACC	)-18.)		Other (Specify)						

Form	ACO1 - Well Completion
Operator	PetroSantander (USA) Inc.
Well Name	Unruh 6
Doc ID	1215590

## Tops

Name	Тор	Datum
Heebner Shale	3890	-811
Lansing	3938	-859
Marmaton	4446	-1367
Pawnee	4554	-1475
Cherokee Shale	4590	-1511
Morrow Shale	4796	-1717
Morrow Sand	4836	-1757
St. Geneveieve	4856	-1777
LTD	4966	-1887

		<i></i>				CEMENT DATA:
110 <u>8/24</u>		Cathley		icket Na		Spacer Type:
ompany_ <b>//</b> @	Trogan Tande		A	ig Val	·	Amt Sks Yield ft <sup>3</sup> /sk Density PPG
ase				Vell No		
wnty				tate		ACC 10 110 0 00
cation		· · · · · · · · · · · · · · · · · · ·	F	ield		LEAD: Pump Time hrs. Type \$5C10 715.27 2902
ASING DATA:	Conductor			<b></b>		2.~ 154
	Surface			Squeeze 🔲 🛛 N oduction 🗹 Li		Amt. A. Sks Yield PPG ft <sup>3</sup> /sk Density / C PPG PPG TAIL: Pump Time hrs. Type (25/1)5 & Prgal 11.54
5/1			است فظم	Collar		-
	- IADO - Breezen	Weige				Excess Amt Sks Yield ft³/sk Density PPG
						WATER: Lead gals/sk Tail gals/sk Total Bbls.
sing Depths: 1	rop KB		Bottom	1959	·	Pump Trucks Used
			/			Bulk Equip. 544
II Pipe: Size	<u> </u>			Collars		
en Hole: Size	<u></u>	T.D	ft.	P.B. to	ft. j	Float Equip: Manufacturer
PACITY FACT						Shoe: Type Depth
sing:	Bbls/Lin. ft. 🔟	03 <i>38</i>	Lin. ft./f	зы		Float: Type Depth
en Holes:	Bbls/Lin. ft			ЗЫ		Centralizers: Quantity Plugs Top Btm
I Pipe:	Bbls/Lin. ft		Lin. ft./I	3bl		Stage Collars bitch dam, AU 13 Bes/45
nulus:	Bbls/Lin. ft		Lin. ft./l	3bl		Special Equip.
	Bbls/Lin. ft		Lin, ft,/f	зы		Disp. Fluid Type
forations:	From	ft. to		ft. Amt	<u> </u>	Mud Type Are March ~ 56 700 Hp2 Weight PPG
		·····				BBL
MPANY REPF	RESENTATIVE					CEMENTER
	1					
	PRESSUP	RES PSI	FLU FLU	JID PUMPED	DATA	
	PRESSUP DRILL PIPE	RES PSI ANNULUS	TOTAL		RATE	REMARKS
~~·				JID PUMPED Pumped Per Time Period		· ·
	DRILL PIPE		TOTAL		RATE	Paloceton SPT Mar Set p
	DRILL PIPE		TOTAL		RATE	On Location 5 BT Mar Set p An Cay, Grundally
<u> </u>	DRILL PIPE		TOTAL		RATE	Onlocation SPIMA, Set p Amay, Grunder
	DRILL PIPE		TOTAL		RATE	On Location 5 BT Mar Set p An Cay, Grundally
	DRILL PIPE		TOTAL		RATE	Onlocation SPIMA, Set p Amay, Grundet
<u> </u>	DRILL PIPE CASING		TOTAL	Pumped Per Time Period	RATE Bbls Min.	Onlocation SPIMA, Set p Am Cay, Grundert Mit MFAIL Mit ASC Wagh, Towell
	DRILL PIPE CASING		TOTAL		RATE	Onlocation SPIMA, Set p Amay, Grunder
<u> </u>	DRILL PIPE CASING 300 200		TOTAL	Pumped Per Time Period	RATE Bbls Min.	Onlocation SPTIMA: Set p An Cay, Grundally Mix MEAIL My ASC Wagh Touch Diglace - H20 Ary Mad
<u> </u>	DRILL PIPE CASING 300 300 700 1800		TOTAL	Pumped Per Time Period	RATE Bbls Min.	Quelocation SPT Mar Set p An Cay, Grundelt Mix MATI My ASC Wash Touch Diplace - H2Q Ang Mind land Plus
<pre></pre>	DRILL PIPE CASING 300 200		TOTAL	Pumped Per Time Period	RATE Bbls Min.	Onlocation SPTIMA: Set p Andag, Grundert Mix MATH My ASC Wagh Touch Diplace - H20 Arg Mad
<u> </u>	DRILL PIPE CASING 300 300 700 1800		TOTAL	Pumped Per Time Period	RATE Bbls Min.	Quelocation SPT Mar, Set p Am Cay, Grundert Mix MEA II Mix MEA II Mix ASC Wanh Towell Diplace - H22 And Plung Com Top of Corganiete Blucs Mix 30 511 Att - 20 511 M 14
<u> </u>	DRILL PIPE CASING 300 300 700 1800		TOTAL	Pumped Per Time Period	RATE Bbls Min.	Quelocation SPT Mar Set p An Cay, Grundett Mix MATI My ASC Wash Toreth Diplace - H2Q Ary Mind Land Plus
	DRILL PIPE CASING 300 300 700 1800		TOTAL	Pumped Per Time Period	RATE Bbls Min.	Quelocation SPT Mar Set p Am Cay, Grunderty Mit MELTI Mit ASC Wagh Torrell Displace - H29 Ary Mad Land Plung Op 700 9 - Gozaleto Bluss May 30 511 RH - 20 511 MH May 350511 Athen 65/35 8 mgl 12 16 Flo Barn 5/12
<pre></pre>	DRILL PIPE CASING 200 300 700 1800 800		TOTAL	Pumped Per Time Period	RATE Bbls Min. 3.0 3.0 3.0 3.0 3.0 3.0 3.0	Quelocation SPT Mar Sit p An Cay, Grunderty Mix MEATT Mix ASC Wash Towell Diplace - H2Q And Alung Cand Plung Op- TODY - Granfate Blues Mix 30511 Att - 2051/MH Mix 30511 Att - 2051/MH Mix 350511 Att 55/55 8 mg C 12 /b Flo Dam 5/12
	DRILL PIPE CASING 300 300 700 1800		TOTAL	Pumped Per Time Period	RATE Bbls Min.	Quelocation SPT Mar Sit p Am Cay, Grundert Mit MATT Mit ASC Wagh Torell Diglace - H2Q Arc Mad land Plung Op 700 J - Corgalete Bhurs Mit 30 511 Rit - 20 511 Mil Mit 350511 Ather 65/55 8 mgl 12 16 Flo Bann 5/12
<pre></pre>	DRILL PIPE CASING 200 300 700 1800 800		TOTAL	Pumped Per Time Period	RATE Bbls Min. 3.0 3.0 3.0 3.0 3.0 3.0 3.0	Quelocation SPT Mar Set p An Cay, Grunderty Mix MEATT Mix ASC Wash Towell Displace - H2Q Ang Man Land Plung Op- TODY - Gorga Jate Blues Mix 30511 Att - 2051/MH Mix 30511 Att - 2051/MH Mix 350511 Att - 2051/MH
			TOTAL	Pumped Per Time Period	RATE Bbls Min. 3.0 3.0 3.0 3.0 3.0 3.0 3.0	Quelocation SPT Mar Sit p An Cay, Grunderty Mix MEATT Mix ASC Wash Towell Diplace - H2Q And Alung Cand Plung Op- TODY - Granfate Blues Mix 30511 Att - 2051/MH Mix 30511 Att - 2051/MH Mix 350511 Att 55/55 8 mg C 12 /b Flo Dam 5/12
	DRILL PIPE CASING 200 300 700 1800 800		TOTAL	Pumped Per Time Period	RATE Bbls Min. 3.0 3.0 3.0 3.0 3.0 3.0 3.0	Quelocation SPT Mar Sit p Am Cay, Grundett Mit MEAIL Mit ASC Wagh Towell Diglace - H2Q Ary Mad land Plug Op TODY - Corgulate Bhuss Mit 30 SH Att - 20 SH MH Mit 30 SH Att - 20 SH MH Mit 350 SH Atw 65/55 8 mgl 12 16 Flo Dum 5/12 Wash op Displace Plug - HD
			TOTAL	Pumped Per Time Period	RATE Bbls Min. 3.0 3.0 3.0 3.0 3.0 3.0 3.0	Quelocation SPT Mar Sit p An Cay, Grundert Mit MEATT My ASC Wash Towell Diplace - H2Q And Mand land Plung Op- TODY - Corga late Blues Mit 30511 Att - 2051/MH Mit 30511 Att - 2051/MH Mit 30511 Att - 2051/MH Mit 350511 Att - 2051/MH Mit 350511 Att - 2051/MH Mit 350511 Att 65/55 8 mg l 12 /b Flo
			TOTAL	Pumped Per Time Period	RATE Bbls Min. 3.0 3.0 3.0 3.0 3.0 3.0 3.0	Quelocation SPT Mar Set p Am Cay, Grunderty Mix MELTI Mix ASC Wagh Towell Displace - H2Q Ar Man and Plum Op TODY - Corgalete Blues Mix 30511 RH - 20511 MH Mix 30511 RH - 20511 MH Mix 350511 AH 45/55 Bingel 12 /bFlo Bar 5/12 Wash of Displace Plug - HD Cand Plag JOD/ Did Close
			TOTAL	Pumped Per Time Period	RATE Bbls Min. 3.0 3.0 3.0 3.0 3.0 3.0 3.0	Quelocation SPTIMA, Set p Am Cay, Goudatt Mit MEAIL Mit ASC Wagh Towell Diglace - H2Q Ary Mad Cand Plug Mit 30 SH Att - 20 SH MH Mit 30 SH Att - 20 SH MH Mit 350 SK Ath 65 155 8 mgl 1/2 16 Flo Dum 5/12 Wash of Displace Plug - H2Q Cand Plag
			TOTAL	Pumped Per Time Period	RATE Bbls Min. 3.0 3.0 3.0 3.0 3.0 3.0 3.0	Quelocation SPT Mar Set p Am Cay, Grunderty Mix MELTI Mix ASC Wagh Towell Displace - H2Q Ar Man and Plum Op TODY - Corgalete Blues Mix 30511 RH - 20511 MH Mix 30511 RH - 20511 MH Mix 350511 AH 45/55 Bingel 12 /bFlo Bar 5/12 Wash of Displace Plug - HD Cand Plag JOD/ Did Close
			TOTAL	Pumped Per Time Period	RATE Bbls Min. 3.0 3.0 3.0 3.0 3.0 3.0 3.0	Quelocation SPT Mar Set p Am Cay, Grunderty Mix MELTI Mix ASC Wagh Towell Displace - H2Q Ar Man and Plum Op TODY - Corgalete Blues Mix 30511 RH - 20511 MH Mix 30511 RH - 20511 MH Mix 350511 AH 45/55 Bingel 12 /bFlo Bar 5/12 Wash of Displace Plug - HD Cand Plag JOD/ Did Close
			TOTAL	Pumped Per Time Period	RATE Bbls Min. 3.0 3.0 3.0 3.0 3.0 3.0 3.0	Quelocation SPT Mar Set p An Cay, Grudett Mix MEAIT My ASC Wagh Truck Displace -HD Ang Mad Cand Play Op 7009 - Corsulate Blues My 30511 AH -20511 M 14 My 30511 AH -20511 M 14 My 30511 AH 05/55 8 mgl 12 16 Flo Dam 5112 Wash op Displace Play - HD Cand Plag Tool Did Close Const Aid Close Const Aid Correlate Jant

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