



KANSAS CORPORATION COMMISSION 1062907
OIL & GAS CONSERVATION DIVISION

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 # 32198
Name: PetroSantander (USA) Inc.
Address 1: 6363 WOODWAY DR STE350
Address 2: _____
City: HOUSTON State: TX Zip: 77057 + 1798
Contact Person: Liliana Hernandez
Phone: (713) 784-8700
CONTRACTOR: License # 32198
Name: PetroSantander (USA) Inc.
Wellsite Geologist: Terry McCance
Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
 Gas D&A ENHR SIGW
 OG GSW Temp. Abd.
 CM (Coal Bed Methane)
 Cathodic Other (Corr. Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____
Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
 Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

<u>05/27/2011</u>	<u>05/30/2011</u>	<u>05/31/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-093-21870-00-00

Spot Description: 2380' FSL & 1900' FEL NWNENWSE

NW NE NW SE Sec. 13 Twp. 21 S. R. 35 East West
2380 Feet from North / South Line of Section
1900 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Keamy

Lease Name: MILLER Well #: 4-13

Field Name: _____

Producing Formation: Morrow

Elevation: Ground: 3065 Kelly Bushing: 3075

Total Depth: 4977 Plug Back Total Depth: 4923

Amount of Surface Pipe Set and Cemented at: 520 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: 1973 Feet

If Alternate II completion, cement circulated from: 1973

feet depth to: 0 w/ 270 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 2000 ppm Fluid volume: 400 bbls

Dewatering method used: Evaporated

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: Deanna Gertson Date: 09/12/2011



1062907

Operator Name: PetroSantander (USA) Inc. Lease Name: MILLER Well #: 4-13
 Sec. 13 Twp. 21 S. R. 35 East West County: Kearny

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name Attached	Top Datum Attached
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Electric Log Submitted Electronically <i>(If no, Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
List All E. Logs Run: Attached			

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, 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
Surface	12.25	8.625	24	520	Premium Plus Class C	320	
Production	7.875	5.5	15.5	4975	AAII	185	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	-			
	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
4	4846' - 4856'		

TUBING RECORD: Size: <u>2.875</u> Set At: <u>4867</u>		Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>7/04/2011</u>			Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____		
Estimated Production Per 24 Hours	Oil Bbbs. <u>10</u>	Gas Mcf <u>0</u>	Water Bbbs. <u>3</u>	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____ <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: <u>4846' - 4856'</u>
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Form	ACO1 - Well Completion
Operator	PetroSantander (USA) Inc.
Well Name	MILLER 4-13
Doc ID	1062907

All Electric Logs Run

Dual Compensated Porosity Log
Dual Induction Log
Microresistivity Log
Mud Log

Form	ACO1 - Well Completion
Operator	PetroSantander (USA) Inc.
Well Name	MILLER 4-13
Doc ID	1062907

Tops

Heebner	3887	-812
Lansing	3993	-918
Swope	4300	-1225
BKC	4430	-1355
Pawnee	4518	-1443
Cherokee	4585	-1510
Morrow Shale	4792	-1717
Basal Sst	4848	-1773
Mississippian	4862	-1787



BASIC
ENERGY SERVICES
Liberal, Kansas

Cement Report

Customer <i>Petrosantander</i>	Lease No.	Date <i>5-31-11</i>
Lease <i>Miller</i>	Well # <i>4</i>	Service Receipt <i>171701762</i>
Casing <i>5 1/2</i>	Depth <i>4950</i>	County <i>Reynolds</i> State <i>Ks</i>
Job Type <i>242 5 1/2 L.S.</i>	Formation	Legal Description <i>13 21 25</i>

Pipe Data		Perforating Data		Cement Data
Casing size <i>5 1/2</i>	Tubing Size	Shots/Ft		Lead <i>12' 21.5' 185 sk AA;</i>
Depth <i>4950</i>	Depth	From	To	<i>1.59 sk 75 sk 6.1' 1/4' 3 1/2'</i>
Volume	Volume	From	To	<i>@ 11.5 #/gal</i>
Max Press	Max Press	From	To	<i>gristing @ 215 sk A-ccu</i>
Well Connection	Annulus Vol.	From	To	Tail in <i>9.95 #/sk</i>
Plug Depth	Packer Depth	From	To	<i>18.15 sk @ 11.4 #/gal</i>
				<i>55 sk Premium +</i>
				<i>1.3' 1/4' 2 1/2' 11.3' 2 1/4' sk</i>
				<i>@ 11.8 #/gal</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
07:45					on loc. / Rig Running Csg
07:50					Held Safety Meeting
06:00					Csg on Bottom Cir. w/ Rig
07:01	3500				Test Pump + Lines
07:22	400		5	5	Start Fish H ₂ O
07:03	500		12	5	Start Super Flush II
07:06	500		5	5	Start Fish H ₂ O
07:28			51	5-4	Start Cmt 185 sk @ 14.5 #
07:28					Shutdown + Drop Plug
07:25					Wash Pump + Lines
07:21	200		0	6	Start Disp. w/ Fish H ₂ O
			68	6	Switch to Mud
07:40	700		108	3	Slow Rate
07:52	1700		117.5	3	Bump Plug
07:57	0		118	0	Release / Float Held
07:55					Drop Opening Plug
08:13					Open Tool
08:15					Cir. w/ Rig Pump.
					2 nd Stage
11:27	3500				Test Pump + Lines
11:23	250		113	6	Start Lead Cmt. 215 sk @ 11.4 #
11:42	300		13	6	Start Tail Cmt 55 sk @ 11.8 #

Service Units	<i>21755</i>	<i>2780819553</i>	<i>1990519908</i>	<i>1988819885</i>
Driver Names	<i>Cochran</i>	<i>Swafford</i>	<i>Munoz</i>	<i>J. Martinez</i>

Pete Customer Representative *J. Bennett* Station Manager *W. Cochran* Cementer



JOB LOG CONT

TICKET # 171701762

TICKET DATE 5-31-11

Chart No.	Time	Rate (BPM)	Volume (BBL)(GAL)	Rate		Press. (PSI)		Job Description / Remarks
				N2	CSG.	Tbg		
	11:49							Shutdown + Drop Closing Plug
	11:52							Wash Pump & Lines
	11:56	6	0		200			Start Disp. w/ Frick #30
	11:07	3	40		600			Slow Rate
	12:05	3	47		7500			Bump Plug + Close tool
	12:06				0			Release
								Tool Held
								End Job
								1st Stage
					850			Pressure before Plug landed
								2nd Stage
					650			Pressure before Plug landed
								Circulated Cmt to the Pit
								1st Stage Cmt
								185 sk AA2 5% W-60
								10% salt .6% C-15
								1/4# Deframer 5# Gilsomite
								1.54 #/sk 6.6 gal/sk
								Mixed @ 14.8 #/gal
								2nd Stage Cmt
								2.15 sk A-con 3% CC
								1/4# Polyflake 2% WCA-1
								2.93 #/sk 18.1 gal/sk
								Mixed @ 11.4 #/gal
								55 sk Premium Plus
								2% CC 1/4# Polyflake
								1.34 #/sk 6.33 gal/sk
								Mixed @ 14.8 #/gal

Customer <i>Petrosantander</i>	Lease No.	Date <i>5/26/11</i>
Lease <i>Miller</i>	Well # <i>4</i>	Service Receipt
Casing <i>4 5/8"</i>	Depth <i>532'</i>	County <i>Finney</i> State <i>Ks</i>
Job Type <i>Surface</i>	Formation	Legal Description

Pipe Data		Perforating Data		Cement Data
Casing size <i>4 5/8"</i>	Tubing Size	Shots/Ft		Lead <i>370 cK P.P.M. @ 14.8# 1.54 c. / 100 gal. 33 gal / DK 2% CaCl₂ 1/4" P.D. 100#</i>
Depth <i>524.94</i>	Depth	From	To	Tall in
Volume <i>30.7</i>	Volume	From	To	
Max Press <i>1000#</i>	Max Press	From	To	
Well Connection <i>P.C.</i>	Annulus Vol.	From	To	
Plug Depth	Packer Depth	From	To	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
12:00					<i>on loc, spot trucks, Rig up, safety etc</i>
14:45					<i>Break Circ.</i>
15:16	<i>1500#</i>				<i>Psitest</i>
15:16	<i>100#</i>		<i>0</i>	<i>4</i>	<i>5t mix Prem. Plus @ 14.8#</i>
15:41	<i>0#</i>		<i>77</i>	<i>-</i>	<i>Finish Mixing</i>
15:48	<i>0</i>		<i>0</i>	<i>4</i>	<i>start disp, wash up on plug</i>
15:55	<i>200</i>		<i>20</i>	<i>2</i>	<i>slow Rate</i>
16:00	<i>200-400</i>		<i>31</i>	<i>-</i>	<i>Plug down??</i>
16:01	<i>400-0</i>				<i>Release Psi, float held</i>
					<i>Job Complete</i>
					<i>Thank you</i>
					<i>Chad & Crew</i>

Service Units	<i>194668 - 194673 194673</i>	<i>194605 1980.8</i>
Driver Names	<i>Chinz R. Old</i>	<i>H. Esqueda</i>

Pete Customer Representative Serry Bennett Station Manager Chad Chinz Cementer