KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1167401

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 # 4824
Name: Pioneer Natural Resources USA, Inc.
Address 1: 5205 N. O CONNOR BLVD., SUITE 200
Address 2:
City: IRVING State: TX Zip: 75039 + 3746
Contact Person: Tim Casillas
Phone: (972) 444-9001
CONTRACTOR: License # 4824
Name: Pioneer Natural Resources USA, Inc.
Wellsite Geologist: Brad Michalchuk
Purchaser:

Designate Type of Completion:

- [x] New Well
- [ ] Re-Entry
- [ ] Workover

- [ ] Oil
- [ ] WSW
- [ ] SWD
- [ ] SIOW
- [x] Gas
- [ ] D&A
- [ ] ENHR
- [ ] SIGW
- [ ] OG
- [ ] GSW
- [ ] Temp. Abd.
- [ ] CM *(Coal Bed Methane)*
- [ ] Cathodic
- [ ] Other *(Core, 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 #:

07/15/2013	07/17/2013	08/13/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-067-21742-00-00
Spot Description:
NE - NE - NE - NE Sec. 30 Twp. 29 S. R. 37 [ ] East [x] West
207 Feet from [x] North / [ ] South Line of Section
228 Feet from [x] East / [ ] West Line of Section
Footages Calculated from Nearest Outside Section Corner:
[x] NE [ ] NW [ ] SE [ ] SW
County: Grant
Lease Name: GANO et al Well #: ATU 1
Field Name:
Producing Formation: Chase, Council Grove
Elevation: Ground: 3104 Kelly Bushing: 3116
Total Depth: 3002 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 691 Feet
Multiple Stage Cementing Collar Used? [ ] Yes [x] No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: w/ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 6500 ppm Fluid volume: 0 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:**
- [x] **Wireline Log Received**
- [ ] **Geologist Report Received**
- [ ] **UIC Distribution**

ALT [x] **I** [ ] **II** [ ] **III** **Approved by:** Deanna Garrison **Date:** 11/18/2013

Side Two

[redacted]

1167401

Operator Name: Pioneer Natural Resources USA, Inc. Lease Name: GANO et al Well #: ATU 1

Sec. 30 Twp. 29 S. R. 37 ☐ East ☑ West County: Grant

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 ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No
Electric Log Run ☑ Yes ☐ No
Electric Log Submitted Electronically ☑ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:

Dual Spaced Neutron Log

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ 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	691	Class G	541	
Production	7.875	5.5	15.5	2992	Class G	431	

ADDITIONAL CEMENTING / SQUEEZE RECORD

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

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

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 Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:

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	GANO et al ATU 1
Doc ID	1167401

Tops

Name	Top	Datum
KRIDER	2426	
ODELL	2459	
WINFIELD	2489	
GAGE	2523	
TOWANDA	2555	
FT_RILEY	2611	
WREFORD	2691	
A1_LIME	2730	
B1_LIME	2791	
B2_LIME	2819	
B3_LIME	2839	
B4_LIME	2855	
B5_LIME	2867	

CEMENTING TREATMENT REPORT

PIONEER NATURAL RESOURCES

TREATMENT NUMBER GH2013008	**DATE** 7/16/2013
STAGE	**JOB TYPE** surface 2/12/2013 surface

WELL NAME AND NO. Gano ATU1	**LOCATION (LEGAL)** 207'FNL&228' FEL,sec 30,T29S,R37W	**RIG NAME:** Trinidad Drilling Rig #216	**CEMENT PUMPER:** 23004
FIELD	**FORMATION**		
COUNTY Grant Co	**STATE** KS	**API NO.**	

RIG FORMAN: Kevin Swafford

CEMENT SUPER: Gary Hessling

SPECIAL INSTRUCTIONS

WELL DATA			**BOTTOM**				**FT**
BIT SIZE		**CSG/Liner Size**	8 5/8		**TOP**		
TOTAL DEPTH	700	**WEIGHT**	24				
MUD TYPE		**FOOTAGE**	676				
☐ BHST		**GRADE**					
☐ BHCT		**THREAD**					
MUD DENSITY		LESS FOOTAGE SHOE JOINT(S)	42.2				TOTAL:
MUD VISC		**Disp. Capacity**	40.3				40.3

Include Footage From Ground Level To Head In Disp. Capacity

FLOAT	TYPE		Stage Tool	TYPE	
	DEPTH			DEPTH	
SHOE	TYPE			TYPE	
	DEPTH			DEPTH	

Head & Plugs		☐ TBG ☐ D.P.	SQUEEZE JOB		
		SIZE	TOOL	TYPE	
☐ Double Box 6	**WEIGHT**			DEPTH	
☐ Single	**GRADE**		**TAIL PIPE:**	SIZE	DEPTH
☐ Swage	**THREADS**		**TUBING VOLUME**		BBLs
☐ Knockout	☐ New ☐ Used		**CSG VOL BELOW TOOL**		BBLs
	DEPTH		**TOTAL**		BBLs
CEMENT TEMPERATURE:			**ANNULAR VOLUME**		BBLs
WATER QUALITY:		**pH**		**SG**	**TEMP**

LIFT PRESSURE	234 psi
PRESSURE LIMIT	1000 psi
BUMP PLUG TO	500 over lift
NO. of Centralizers	5

JOB SCHEDULED FOR **TIME:** 0:30 **DATE:** 7/16/2013

ARRIVE ON LOCATION **TIME:** 0:00 **DATE:** 7/16/2013

RIG UP **TIME:** 0:30 **DATE:** 7/16/2013

LEFT LOCATION **TIME:** 5:30 **DATE:** 7/16/2013

TIME 0001 to 2400	PRESSURE TBG	PRESSURE CSG	VOLUME PUMPED INCR	VOLUME PUMPED CUM	RATE	FLUID TYPE	DENSITY	
0:00								Arrive on location
0:30								Rig up pumps and bulk equipment
1:30								Held safety meeting
3:37		1000	2					Test pumps and lines to 1000 psi. Test good.
3:30		120	40		4	H2o	8.34	pumped H2o ahead. Cirrculation at 0 bbls away
3:38		80	114	154	4	Cmt	15	Mix and pump 114 bbls (528 sks) 15 # surface set cement
4:12		40.3	40.3	194.3	4	H2o	8.34	Drop plug and start displacement
4:16								Diaplacment callouts 12 bbls 4 bpm 120 psi
4:19								24 bbls 4 bpm 200 psi
4:22								36 bbls 4 bpm 250 psi slow rate to 3 bpm until last 2 bbls then 2 bpm
4:26								Land plug at 1000 psi. lift 300 psi held for 15 min test float tested good
5:30								Rigged down a left location

System Used	No.of Sacks	Yield ft^3/sk	COMPOSITION OF SYSTEM	SLURRY MIXED BBLS	SLURRY MIXED DENSITY
Surface Set	528	1.21	Surface set 25:75 (p:G) + 3% S1, 0.25 lb / sx p 29 , 0.25 lb / sx p 46 @ 15 # gal	114	15

CIRCULATION	☐ Yes ☐ No	**WASHED CASING DOWN**	☐ Yes ☑ No	**BREAKDOWN**	**PSI**	**FINAL** 1000	**PSI**
DISPLACEMENT VOL.	40.3 **BBLS**	**RETURNED TO SURFACE**	25	BEFORE PLUG BUMP **PRESSURE**	**300 PSI**	**RATE**	2 **BPM**

CEMENTING TREATMENT REPORT (PAGE 2)

PIONEER NATURAL RESOURCES

TREATMENT NUMBER	DATE
GH2013008	2/12/2013
STAGE	**JOB TYPE**
	surface

WELL NAME AND NO.	LOCATION (LEGAL)	RIG NAME:	CEMENT PUMP:
Gano ATU1	207'FNL&228' FEL,sec 30,T29S,R37W	Trinidad Drilling Rig #216	23004
FIELD	**FORMATION**	**RIG FOREMAN:**	**CEMENT SUPERVISOR:**
		Kevin Swafford	Gary Hessling
COUNTY	**STATE** / **API NO.**	**ARRIVE ON LOCATION**	**RIG UP**	**LEFT LOCATION**
Grant Co	KS	**TIME:** 0:00 **DATE:** 7/16/2013	**TIME:** 0:30 **DATE:** 7/16/2013	**TIME:** 5:30 **DATE:** 7/16/2013

TIME	PRESSURE		VOLUME PUMPED		JOB SCHEDULED FOR TIME: 0:30 DATE: 7/16/2013			COMMENT
0001 to 2400	TBG	CSG	INC	CUM	RATE	FLUID TYPE	DENSITY	

JOB SUMARY:

ADDITIONAL NOTES:

CEMENTING TREATMENT REPORT

PIONEER NATURAL RESOURCES

TREATMENT NUMBER	GH2013003
DATE	7/18/2013
STAGE	1
JOB TYPE	longstring

WELL NAME AND NO.	Weirich 32-33
LOCATION (LEGAL)	207'FNL & 228' FEL , Sec 30 , T29S R37W
FIELD	
FORMATION	
COUNTY	Grant Co
STATE	KS
API NO.	
RIG FORMAN	Dave Martinez
CEMENT SUPER	Gary Hessling
SPECIAL INSTRUCTIONS	Cment production casing

RIG NAME:	Patterson UTI 190
CEMENT PUMPER:	23004

WELL DATA			**BOTTOM**		**FT**	**TOP**		**FT**
BIT SIZE		**CSG/Liner Size**	5 1/2					
TOTAL DEPTH	3002	**WEIGHT**	15.5					
MUD TYPE		**FOOTAGE**	2980.92					
☐ BHST		**GRADE**						
☐ BHCT		**THREAD**						
MUD DENSITY		LESS FOOTAGE SHOE JOINT(S)	33.32					TOTAL:
MUD VISC		**Disp. Capacity**	68					68

Include Footage From Ground Level To Head In Disp. Capacity

FLOAT	TYPE		Stage Tool	TYPE	
	DEPTH			DEPTH	
SHOE	TYPE			TYPE	
	DEPTH			DEPTH	

Head & Plugs		☐ TBG	☑ D.P.	SQUEEZE JOB	
		SIZE		TOOL TYPE	
☐ Double Box 6	**WEIGHT**			DEPTH	
☐ Single	**GRADE**			**TAIL PIPE:** SIZE	DEPTH
☐ Swage	**THREADS**			**TUBING VOLUME**	BBLs
☐ Knockout	☐ New	☐ Used		**CSG VOL BELOW TOOL**	BBLs
	DEPTH			**TOTAL**	BBLs
CEMENT TEMPERATURE:				**ANNULAR VOLUME**	BBLs
WATER QUALITY:		**pH**		**SG**	**TEMP**

LIFT PRESSURE	722	psi	
PRESSURE LIMIT		psi	**BUMP PLUG TO** 1722
			NO. of Centralizers 18

JOB SCHEDULED FOR			**ARRIVE ON LOCATION**			**RIG UP**			**LEFT LOCATION**		
TIME:	22:00	**DATE:** 7/17/2013	**TIME:**	21:30	**DATE:** 7/17/2013	**TIME:**	22:00	**DATE:** 7/17/2013	**13**	11:30	**DATE:** 7/18/2013

TIME 0001 to 2400	PRESSURE TBG	PRESSURE CSG	VOLUME PUMPED INCR	VOLUME PUMPED CUM	RATE	FLUID TYPE	DENSITY	
21:30								Arrive on location
22:00								Rig up pumps and bulk equipment (7-17-13)
23:45								Rig unable to break cirrculation, need to perforate casing above float collar. Return 8:00 7-18-13
8:54	2000		2			H2o	8.34	Test pumps and lines to 2000 psi. Test good.
8:56		250	73		4	H2o	8.34	pumped 75 bbls H2o ahead.
9:17		375	129	204	4	Cmt		Mix and pump129 bbls (302 sks) 12.5 # lead cement
9:52		80	40	244	4	Cmt	13.5	Mix and pump 40 bbls (140 sks)13.5 tail cement
10:05		100	67	311	4	H2o	8.34	Drop plug and start displacement 67 bbls. No float. Cut displacement from 68 (CV with float) to 67
10:05		100						Pump 5 bbls fresh water displacement/ then pump 62bbls KCL displacement for total of 67 bbls
								Call outs 21 bbls away 4 bpm 200 psi. 42 away 4 bpm 575 psi 64 bbls away 4 bpm 990
								finale lift 990 sent 30 bbls good cement to pit
11:30								rigged down and left location

System Used	**No.of Sacks**	**Yield ft³/sk**	**COMPOSITION OF SYSTEM**	**SLURRY MIXED BBLS**	**DENSITY**
Lead	302	2.4	25/75 SDC blend 3% P20, 2% S1, 0.25#/sxP29, 0.25#/sx P46@ 12.5 #/gal	129	12.5
Surface Set	140	1.61	Surface set 25:75 (p:G) + 2% P20, 5 lb/sx p42, .2% S1, 0.25 #/sx P46, .15% p167, 2% p20 @ 13.5 # gal	40	13.5

CIRCULATION	☐ Yes ☐ No	**WASHED CASING DOWN**	☐ Yes ☐ No	**BREAKDOWN**	**PSI**	**FINAL** 990	**PSI**
DISPLACEMENT VOL.	67 **BBLS**	**RETURNED TO SURFACE**	30	BEFORE PLUG BUMP **PRESSURE**	**990 PSI**	**RATE**	44 **BPM**

CEMENTING TREATMENT REPORT (PAGE 2)

PIONEER NATURAL RESOURCES

TREATMENT NUMBER	DATE
GH2013003	
STAGE	**JOB TYPE**
	longstring

WELL NAME AND NO.	LOCATION (LEGAL)	RIG NAME:	CEMENT PUMP:
Weirich 32-33	207'FNL & 228' FEL , Sec 30 , T29S R37W	Patterson UTI 190	23004
FIELD	**FORMATION**	**RIG FOREMAN:**	**CEMENT SUPERVISOR:**
		Dave Martinez	Gary Hessling
COUNTY	**STATE** / **API NO.**	**ARRIVE ON LOCATION**	**RIG UP**	**LEFT LOCATION**
Grant Co	KS	TIME: 21:30 DATE: 7/17/2013	TIME: 22:00 DATE: 7/17/2013	TIME: 11:30 DATE: 7/18/2013

TIME	PRESSURE		VOLUME PUMPED		JOB SCHEDULED FOR TIME: 22:00 DATE: 7/17/2013			COMMENT
0001 to 2400	TBG	CSG	INC	CUM	RATE	FLUID TYPE	DENSITY	

JOB SUMARY:

ADDITIONAL NOTES: