



KANSAS CORPORATION COMMISSION 1059841
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 # 4824
Name: Pioneer Natural Resources USA, Inc.
Address 1: 5205 N O CONNOR BLVD
Address 2: _____
City: IRVING State: TX Zip: 75039 + 3707
Contact Person: Virginia Tijerina
Phone: (972) 444-9001
CONTRACTOR: License # 4824
Name: Pioneer Natural Resources USA, Inc.
Wellsite Geologist: Larry Brooks
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 (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 #: _____

<u>4/18/2011</u>	<u>4/20/2011</u>	<u>6/8/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-067-21723-00-00

Spot Description: _____

NW NW NW NE Sec. 32 Twp. 30 S. R. 36 East West
300 Feet from North / South Line of Section
2448 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Grant

Lease Name: THUROW-HILL B Well #: ATU 1

Field Name: Hugoton

Producing Formation: Chase/Council Grove

Elevation: Ground: 3047 Kelly Bushing: 7

Total Depth: 3054 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 595 Feet

Multiple Stage Cementing Collar Used? Yes 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: 5500 ppm Fluid volume: 3400 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 Gerriso Date: 07/21/2011



1059841

Operator Name: Pioneer Natural Resources USA, Inc. Lease Name: THUROW-HILL B Well #: ATU 1
 Sec. 32 Twp. 30 S. R. 36 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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Neutron Log Cement Bond Log	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border: none;"> <tr> <td style="width:33%; border: none;">Name Attached</td> <td style="width:33%; border: none;">Top Attached</td> <td style="width:33%; border: none;">Datum Attached</td> </tr> </table>	Name Attached	Top Attached	Datum Attached
Name Attached	Top Attached	Datum 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	595	POZ	460	
Production	7.875	5.5	17	3051	POZ	640	

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
Attached	Attached	Attached	Attached

TUBING RECORD:		Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. 7/5/2011		Producing Method: <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	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 type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Pioneer Natural Resources USA, Inc.
Well Name	THUROW-HILL B ATU 1
Doc ID	1059841

Tops

Name	Top	Datum
Glorietta	1228	KB
Wellington	2144	KB
Hollenberg	2467	KB
Herington	2492	KB
Krider	2517	KB
Towanda	2623	KB
Ft. Riley	2677	KB
A1 Lime	2806	KB
B1 Lime	2861	KB
B2 Lime	2878	KB

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Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
3	Chase	Shot & Fractured	2606 - 2638
3	Chase	Shot & Fractured	2657 - 2694
3	Council Grove	Shot & Fractured	2743 - 2748
3	Council Grove	Shot & Fractured	2754-2768
3	Council Grove	Shot & Fractured	2798 - 2802
3	Council Grove	Shot & Fractured	2841-2855
3	Council Grove	Shot & Fractured	2864 - 2876

CEMENTING TREATMENT REPORT



TREATMENT NUMBER SO2011004	DATE 4/18/2011
STAGE 1	JOB TYPE Surface

WELL NAME AND NO. Thurrow-Hill B ATU	LOCATION (LEGAL) Sec 32 T30S R36W	RIG NAME: Pioneer Natural Resources Rig # 3	CEMENT PUMPER: 2305
FIELD Hugoton	FORMATION Chase/Council Grove	WELL DATA	BOTTOM
COUNTY Grant	STATE Kansas	DATE 20195	
RIG FOREMAN Phillip Gibson	CEMENT SUPERVISOR Stan Owens	CEMENT EMPLOYEES John Vail, Bruce Green and J.R. Ortiz	

SPECIAL INSTRUCTIONS	HEAD & PLUGS	WEIGHT	GRADE	THREADS	NEW	USED	DEPTH
	<input type="checkbox"/> Double Box 6				<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/> Single				<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/> Swage				<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/> Knockout				<input type="checkbox"/>	<input type="checkbox"/>	

LEFT PRESSURE 70	PSI	BUMP PLUG TO 200	CEMENT TEMPERATURE: 68	WATER QUALITY: 8 pH	SG 325	TEMP 70
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TIME	PRESSURE TBG	CSG	VOLUME PUMPED INCR	CUM	NO. of Centralizers	FLUID TYPE	DENSITY	DESCRIPTION
22:00								Pre job safety meeting.
22:24	500		2			H2O	8.3	Test Pumps and Lines.
22:30	40		3			H2O	8.3	Pump H2O till circulation established.
22:33	90		100			CMT	15	Mix and pump CMT @ 15 ppg.
								Slow down and drop top plug.
23:06	220		30			H2O	8.3	Pump displacement.
23:22	800		5			H2O	8.3	Bump plug and check floats. (Held O.K.)
								Call Outs 10 Bbls/75 Psi. 20 Bbls/140 Psi 30 Bbls/ 220 Psi. Final 800 Psi.
								Pumped 15 bbls good cement to the pit.
23:55								Post job safety meeting.

System Used	No. of Sacks	Yield (c/ck)	COMPOSITION OF SYSTEM		SLURRY MIXED	
			BBLs	DENSITY	BBLs	DENSITY
Surface Set	460	1.23	Surface Set		100	15 ppg.

CIRCULATION	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	WASHED CASING DOWN	<input type="checkbox"/> Yes <input type="checkbox"/> No	BREAKDOWN BEFORE PLUG BUMP PRESSURE	220 PSI	FINAL RATE	800 PSI	2 BPM
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DISPLACEMENT VOL.	35 BBLs	RETURNED TO SURFACE	15 Bbls.
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CEMENTING TREATMENT REPORT



TREATMENT NUMBER SQ2011005	DATE 4/21/2011
STAGE 1	JOB TYPE Long String

WELL NAME AND NO. Thruwa-Hill B ATU	LOCATION (LEGAL) Sec. 32 T305 R36W	RIG NAME: Trinidad Drilling	CEMENT PUMPER: 2304
FIELD Hugoton	FORMATION Chase/Council Grove	WELL DATA	BOTTOM
COUNTY Grant	STATE Kansas	BIT SIZE 7 7/8	CSG/Liner Size 5 1/2
	AFE 20195	TOTAL DEPTH 3054	WEIGHT 17
		MUD TYPE	FOOTAGE 3046
		<input type="checkbox"/> BHST	GRADE J-55
		<input type="checkbox"/> BHCT	THREAD LT&C
		MUD DENSITY	LESS FOOTAGE BUMP (2011)
		MUD VISC	42
		Dip. Capacity	69.6
		TOTAL: 69.6	

RIG FOREMAN: Phillip Gibson
 CEMENT SUPERVISOR: Stan Owens
 CEMENT EMPLOYEES: Robert Miltieder, Bruce Green and J.R. Ortiz

TYPE	DEPTH	TYPE	DEPTH
TYPE	DEPTH	TYPE	DEPTH
TYPE	DEPTH	TYPE	DEPTH

SPECIAL INSTRUCTIONS

Head & Plugs	<input type="checkbox"/> TBC	<input type="checkbox"/> D.P.
<input type="checkbox"/> Double Box 6	WEIGHT	TYPE
<input type="checkbox"/> Single	GRADE	DEPTH
<input type="checkbox"/> Swage	THREADS	TAIL PIPE: SIZE DEPTH
<input type="checkbox"/> Knockout	<input type="checkbox"/> New <input type="checkbox"/> Used	TUBING VOLUME BBLs
	DEPTH	CSG VOL BELOW TOOL BBLs
		TOTAL BBLs
		ANNULAR VOLUME BBLs

LIFT PRESSURE	1200	psi	BUMP PLUG TO	2000	psi	CEMENT TEMPERATURE:	
PRESSURE LIMIT	1400	psi	NO. of Centralizers	12		WATER QUALITY:	
						pH	SG

TIME: 0001 to 2400	PRESSURE TBG	CSG	VOLUME PUMPED INCR	CUM	JOB SCHEDULED FOR TIME: 0:00 DATE: 4/20/2011	ARRIVE ON LOCATION TIME: 22:00 DATE: 4/20/2011	RIG UP TIME: 0:00 DATE: 4/21/2011	LEFT LOCATION TIME: 3:00 DATE: 4/21/2011
					RATE	FLUID TYPE	DENSITY	TEMP 70

0:00								Pre job safety meeting.
0:49		2000	2		0.5	H2O	8.3	Test Pumps and Lines.
0:51		60	4		3	H2O	8.3	Pump H2O till circulation established.
0:52		120	139.4		3	CMT	12.5	Mix and pump lead cement @ 12.5 ppg.
1:51		230	57		3	CMT	15	Mix and pump tail cement @ 15 ppg.
2:07								Shut down and wash pumps and lines.
2:09								Drop top plug.
2:11		1200	60		4	H2O	8.3	Pump displacement.
2:29		1400	9.6		2	H2O	8.3	Slow rate to bump plug.
2:31		2000						Bump plug and check floats. (Held O.K.)
3:00								Post job safety meeting.

Water Requirement	No. of Sacks	Yield (ft ³ /sk)	COMPOSITION OF SYSTEM		SLURRY MIXED	
					BBLs	DENSITY
10.21	380	2.06	SDC		139.4	12.5
4.97	260	1.23	Surface Set		57	15

CIRCULATION	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	WASHED CASING DOWN	<input type="checkbox"/> Yes <input type="checkbox"/> No	BREAKDOWN BEFORE PLUG BUMP PRESSURE:	1400	PSI	FINAL RATE:	2000	PSI
DISPLACEMENT VOL.	70	BBLs	RETURNED TO SURFACE	60	BBLs				

