



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1220206
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

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
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

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

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1220206

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. 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 Yes No
(Attach Additional Sheets)
Samples Sent to Geological Survey Yes No
Cores Taken Yes No
Electric Log Run Yes No

Log Formation (Top), Depth and Datum Sample
Name Top Datum

List All E. Logs Run:

CASING RECORD <input 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

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No (If No, skip questions 2 and 3)
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No (If No, skip question 3)
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No (If No, fill out Page Three of the ACO-1)

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:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
<input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	<input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) <input type="checkbox"/> Other (Specify) _____	<input type="checkbox"/> Commingled (Submit ACO-4)

Form	ACO1 - Well Completion
Operator	Linn Operating, Inc.
Well Name	COLLINGWOOD A-4 ATU-209
Doc ID	1220206

Tops

Name	Top	Datum
KRIDER	2431	KB
WINFIELD	2471	KB
TOWANDA	2544	KB
FT_RILEY	2590	KB
FUNSTON	2726	KB
CROUSE	2784	KB
MORRILL	2868	KB
GRENOLA	2907	KB

JOB SUMMARY			PROJECT NUMBER TN # 859	TRIP DATE 6/10/2014
LOCATION Stanton	WELL NO. A4 ATU 209	COMPANY Linn Energy	CUSTOMER REP Weldon Higgins	
LEASE NAME Collingwood	WELL NO. A4 ATU 209	JOB TYPE Production	EMPLOYEE NAME JESUS JIMENEZ	

EMP NAME JESUS JIMENEZ				
STEVE CROCKER				
REGGIE SAMANIEGO				

Form. Name _____ Type: _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Retainer Depth _____ Total Depth _____

Date	Called Out 6-10-14	On Location 06/10/14	Job Started 08/10/14	Job Completed 06/10/14
Time	2:00AM	8:00AM	10:30AM	12:00PM

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Valve	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

New/Used		Weight	Size	Grade	From	To	Max. Allow
Casing	New	15.5	5.5	J40	0	3115	2000
Liner							
Liner							
Tubing							
Drill Pipe							
Open Hole							Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials			
Mud Type	Density	0	Lb/Gal
Disp. Fluid	H2O	Density	8.33
Spacer type	30M SILIC BBL		20
Spacer type	BBL		
Acid Type	Gal.		%
Acid Type	Gal.		%
Surfactant	Gal.		In
NE Agent	Gal.		In
Fluid Loss	Gal/Lb		In
Colling Agent	Gal/Lb		In
Fric. Red.	Gal/Lb		In
MISC.	Gal/Lb		In


Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
06/10/14	4.0	06/10/14	2.0	Production
Total	4.0	Total	2.0	

Perfor Balls _____ Qty. _____
 Other _____
 Other _____
 Other _____
 Other _____

Pressures	
MAX 1450	AVG 200
Average Rates in BPM	
MAX 3	AVG 3
Cement Left in Pipe	
Feet 44	Reason Shoe Joint

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq	Yield	Lbs/Gal
1	430	O-Tex LowDense	2% Gyp, 2% Calcium Chloride, 2% C-45, 0.4% C-13, 0.4% C-41P, 0.2% C-51, 0.25 #/M Calcium Sulfate	13.29	2.25	11.5
2	0	0	0	0	0	0
3						
4						

Summary			
Preflush Breakdown	Type: MAXIMUM	Preflush: BBI 20.00	Type: SODIUM SILICATE
	Lost Returns: NO	Load & Bkdn: Gal - BBI	Pad: Bbl - Gal
	Actual TOC	Excess /Return BBI 45	Calc. Disp Bbl
Average 15" 5 Min	Frac. Gradient 10 Min	Calc. TOC	Actual Disp 73.00
		15 Min	Disp: Bbl
		Treatment: Gal - BBI	
		Cement Slurry BBI 172.0	
		Total Volume BBI 265.00	

CUSTOMER REPRESENTATIVE _____
 SIGNATURE 
 Thank You For Using
O - TEX Pumping

JOB SUMMARY			PROJECT NUMBER TN # 852	TICKET DATE 6/9/2014
COUNTY Stanton	COMPANY Linn Energy	CUSTOMER REP Orlando		
LEASE NAME Collingwood	WCS NO A4 ATU 209	JOB TYPE Surface	EMPLOYEE NAME Steve Crocker	

Steve Crocker				
Miguel Murgado				
Nate Willis				
Joe Arellano				

Form Name Chase-Council Grove Type: _____
 Packer Type _____ Set At _____
 Bottom Hole Temp _____ Pressure _____
 Retainer Depth _____ Total Depth _____

Date	Called Out 6-8-14	On Location 06/08/14	Job Started 06/08/14	Job Completed 06/09/14
Time	1400	1915	1115	20

Tools and Accessories

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Valve	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weid-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

Well Data

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	New	24	8.625	140	0	772	1500
Liner							
Tubing							
Drill Pipe							
Open Hole							Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials

	Qty	Density	Unit
Mud Type	0	0	Lb/Gal
Disp Fluid	H2O	Density 8.33	Lb/Gal
Spacer type	H2O	BBL 10	
Spacer type	BBL		
Acid Type	Gal	%	
Acid Type	Gal	%	
Surfactant	Gal	In	
NE Agent	Gal	In	
Fluid Loss	Gal/Lb	In	
Gelling Agent	Gal/Lb	In	
Fric. Red	Gal/Lb	In	
MISC	Gal/Lb	In	

Operating Hours

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
06/08/14	5.5	06/08/14	1.0	Surface
				10bbls Spacer H2O
				115bbls Cement at 14 Bppg
				46bbls Displacement H2O
				Cement to Surface:
				40bbls / 166sks
Total	5.5	Total	1.0	

Perfpac Balls _____ Qty. _____
 Other _____
 Other _____
 Other _____
 Other _____

Pressures

MAX	1040	200
Average Rates in BPM		
MAX	3	AVG 3
Cement Left in Pipe		
Feet	44	Reason Shoe Joint

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	480	Premium Class C	2% Calcium Chloride and .25 % Na Cellulose	6.34	1.35	14.8
2						
3						
4						

Summary

Preflush	Type: _____	Preflush:	BBI	10.00	Type: H2O
Breakdown	MAXIMUM	Load & Bkdn:	Gal - BBI		Pad: Bbl - Gal
	Lost Returns	Excess /Return	BBI	40	Calc Disp Bbl
	Actual TOC	Calc TOC		0	Actual Disp
Average	Frac. Gradient	Treatment:	Gal - BBI		Disp Bbl
ISP 5 Min	10 Min	Cement Slurry:	BBI	115.0	
	15 Min	Total Volume:	BBI	171.00	

CUSTOMER REPRESENTATIVE _____
 SIGNATURE 
Thank You For Using
O - TEX Pumping