



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1188674
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: _____

1188674

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
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 <i>(Amount and Kind of Material Used)</i>	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: <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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Linn Operating, Inc.
Well Name	WILDS 4 ATU-2
Doc ID	1188674

All Electric Logs Run

Compensated Neutron/Compact Photo Density/Microresistivity Log
Microresistivity Log
Open Hole Well Evaluation Log
Repeat Section Log & Spectral Gamma Ray Log
Array Induction/Shallow Focused Electric Log

Form	ACO1 - Well Completion
Operator	Linn Operating, Inc.
Well Name	WILDS 4 ATU-2
Doc ID	1188674

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
SURFACE	12.25	8.625	24	730	Prem. Class C	450	
Surface-TOP OUT	12.25	8.625	24	730	Prem Class C & H	1000	
Surface-TOP OUT	12.25	8.625	24	730	Prem Class C & H	75	
PRODUCTION	7.875	5.50	15.50	3110	Prem Plus Class C	300	

JOB SUMMARY			PROJECT NUMBER TN # 301	TICKET DATE 10/18/2013
COUNTY Morton	COMPANY Linn Energy		CUSTOMER REP Weldon Higgins	
LEASE NAME Wilds	Well No. 4 ATU 2	JOB TYPE Surface	EMPLOYEE NAME Jessie McClain	

EMP NAME					
Jessie McClain					
Steve Crocker					
Angel Garcia					

Form. Name Chase-Council Grove Type: _____

Packer Type _____ Set At _____

Bottom Hole Temp. _____ Pressure _____

Retainer Depth _____ Total Depth _____

Date	Called Out 10/17/2013	On Location 10/17/13	Job Started 10/18/13	Job Completed 10/18/13
Time	1300	1730	1300	1400

Tools and Accessories

Type and Size	Qty	Make
Auto Fill Tube	1	IR
Insert Float Valve	1	IR
Centralizers	5	IR
Top Plug	1	IR
HEAD	1	IR
Limit clamp	1	IR
Weld-A	2	IR
Texas Pattern Guide Shoe	1	IR
Cement Basket	0	IR

Well Data

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	New	24'	8.625"	JK	KB	730'	1500
Liner							
Liner							
Tubing							
Drill Pipe							
Open Hole							Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials

Mud Type	WBM	Density	9.0	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

Perfpac Balls _____ Qty. _____

Other _____

Other _____

Other _____

Other _____

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
10/17/13	21.0	10/18/13	1.0	Surface
				Final pump psi: 45 psi
				0 bbls cmt to surface
				0 ft3 / 0 sks
Total	21.0	Total	1.0	

Pressures

MAX	500	AVG	50
Average Rates in BPM			
MAX	4	AVG	3
Cement Left in Pipe			
Feet	44	Reason	Shoe Joint

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	450	Premium Class C	2% Calcium Chloride and .25 #/sk Cellulofake	6.34	1.35	14.8
2						
3						
4						

Summary

Preflush Breakdown	Type: _____	Preflush: BBI	10.00	Type: H2O
	MAXIMUM	Load & Bkdn: Gal - BBI		Pad: Bbl - Gal
	Lost Returns-N	Excess /Return BBI	0	Calc Disp Bbl
	Actual TOC	Calc TOC	Surface	Actual Disp
Average	Frac. Gradient	Treatment: Gal - BBI		Disp Bbl
15IP	5 Min	Cement Slurry: BBI	108.0	
	10 Min	Total Volume BBI	161.60	
	15 Min			

CUSTOMER REPRESENTATIVE Weldon Higgins SIGNATURE

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JOB SUMMARY

PROJECT NUMBER TN # 302	TICKET DATE 10/19/2013
CUSTOMER REP Weldon Higgins	
EMPLOYEE NAME Jessie McClain	

COUNTY Morton	COMPANY Linn Energy	JOB TYPE Top-out
LEASE NAME Wilds	Well No. 4 ATU 2	

EMP NAME Jessie McClain			
Steve Crocker			
Beau Clem			

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

Date	Called Out	On Location	Job Started	Job Completed
	10/18/13	10/18/13	10/19/13	10/19/13
Time	1500	1500	100	200

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	24	8.625	J-55	KB	730'	500
Liner							
Liner							
Tubing							
Drill Pipe							
Open Hole							Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials			
Mud Type	0	Density	0 Lb/Gal
Disp. Fluid	N/A	Density	N/A Lb/Gal
Spacer type	H2O	BBL	1
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
Perfpac Balls		Qty.	
Other			
Other			
Other			
Other			

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
10/18/13	10.0	10/19/13	1.0	Top-out
				Final Pump psi: 130 psi
				0 bbls cmt to surface
				0 ft3 / 0 sks
Total	10.0	Total	1.0	

Pressures			
MAX	170	AVG	130
Average Rates in BPM			
MAX	1.5	AVG	1
Cement Left in Pipe			
Feet	0	Reason	N/A

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	225	Premium Class C	2% Calcium Chloride and .25 Msk Cellotack	6.34	1.35	14.8
2						
3						
4						

Summary							
Preflush		Type:		Preflush:	BBI 1.00	Type:	H2O
Breakdown		MAXIMUM		Load & Bkdn:	Gal - BBI	Pad:Bbl -Gal	
		Lost Returns-n	0	Excess /Return	BBI	Calc Disp Bbl	
		Actual TOC		Calc TOC		Actual Disp.	0.00
Average		Frac. Gradient		Treatment:	Gal - BBI	Disp:Bbl	
ISIP	5 Min	10 Min	15 Min	Cement Slurry:	BBI 54.0		
				Total Volume	BBI 55.00		

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JOB SUMMARY			PROJECT NUMBER TN # 304	TICKET DATE 10/19/2013
COUNTY Morton	COMPANY Linn Energy	CUSTOMER REP Weldon Higgins		
LEASE NAME Wilds	Well No. 4 ATU 2	JOB TYPE Top-out	EMPLOYEE NAME Jessie McClain	

EMP NAME					
Jessie McClain					
Steve Crocker					
Rory Morris					

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

Date	Called Out	On Location	Job Started	Job Completed
	10/19/13	10/19/13	10/19/13	10/19/13
Time	0200	200	900	1030

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

Well Data						
New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	New	24	8.625	KB	730'	500
Liner						
Liner						
Tubing						
Drill Pipe						
Open Hole						Shots/Ft.
Perforations						
Perforations						
Perforations						

Materials			
Mud Type	0	Density	0
Disp. Fluid	N/A	Density	N/A
Spacer type	N/A	BBL	0
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
Perfpac Balls		Qty.	
Other			
Other			
Other			
Other			

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
10/19/13	9.0	10/19/13	1.5	Top-out
Total	9.0	Total	1.5	

Pressures			
MAX	50	AVG	25
Average Rates in BPM			
MAX	2.5	AVG	2
Cement Left in Pipe			
Feet	N/A	Reason	N/a

Cement Data						
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	400	Premium Class C	2% Calcium Chloride and .25 #/sk Cellulose	6.34	1.35	14.8
2						
3						
4						

Summary					
Preflush Breakdown	Type: _____	MAXIMUM	Preflush: BBI	0.00	Type: N/A
	Lost Returns- $\frac{1}{2}$	0	Load & Bkdn: Gal - BBI		Pad: Bbl - Gal
	Actual TOC		Excess /Return BBI	0	Calc Diso Bbl
Average	Frac. Gradient		Calc. TOC		Actual Diso
ISIP 5 Min	10 Min	15 Min	Treatment: Gal - BBI		Diso: Bbl
			Cement Slurry: BBI	96.0	
			Total Volume BBI	96.00	

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JOB SUMMARY

COUNTY Morton	PROJECT NUMBER TN # 306
LEASE NAME Wilds	TICKET DATE 10/19/2013
COMPANY Linn Energy	CUSTOMER REP Weldon Higgins
WELL NO. 4 ATU 2	JOB TYPE Top-out
EMP NAME Jessie McClain	EMPLOYEE NAME Jessie McClain

EMP NAME Jessie McClain	MARIO ABREGO		
Steve Crocker			
Angel Garcia			
Chris Frye			

Form. Name Chase-Council Grove Type: _____

Packer Type _____ Set At _____

Bottom Hole Temp. _____ Pressure _____

Retainer Depth _____ Total Depth _____

Date	Called Out	On Location	Job Started	Job Completed
	10/19/2013	10/19/13	10/19/13	10/19/13
Time	1100	1100	1930	2000

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
Weld-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	N/A	24	8.625	J-55	N/A	N/A	500
Liner							
Liner							
Tubing							
Drill Pipe							
Open Hole							
Perforations							Shots/Ft.
Perforations							
Perforations							

Materials

Mud Type	H2O	Density	0	Lb/Gal
Disp. Fluid			8.33	
Spacer type	2 / Sodium BBL		20	
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	

Perfpac Balls _____ Qty. _____

Other _____

Other _____

Other _____

Other _____

Other _____

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
10/19/13	11.0	10/18/13	0.5	Top-out
				Final pump psi: 50 psi
				10 bbls cmt to pit
				56 ft3 / 33 sks
Total	11.0	Total	0.5	

Pressures

MAX	50	AVG	50
Average Rates in BPM			
MAX	2	AVG	2
Cement Left in Pipe			
Feet	N/A	Reason	N/A

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	200	Class H	4% Gel, 10% Gyp, 2% CC	8.70	1.72	14.0
2	250	Premium Class C	2% Calcium Chloride and 0.25 #/sk Celloflake	6.34	1.35	14.8
3						
4						

Summary

Preflush Breakdown	Type: _____	Preflush: BBI	20.00	Type: I2O/C.C / Sodium silica
	MAXIMUM _____	Load & Bkdn: Gal - BBI		Pad:Bbl -Gal
	Lost Returns-N _____	Excess /Return BBI	10	Calc Disp Bbl
	Actual TOC _____	Calc TOC	N/A	Actual Disp
Average	Frac. Gradient _____	Treatment: Gal - BBI		Disp Bbl
ISIP	5 Min _____	Cement Slurry: BBI	30.0	
	10 Min _____	Total Volume BBI	53.00	
	15 Min _____			

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JOB SUMMARY		PROJECT NUMBER TN # 308	TICKET DATE 10/21/2013
COUNTY Morton	COMPANY Linn Energy	CUSTOMER REP Weldon Higgins	
LEASE NAME Wilds	Well No. 4 ATU 2	JOB TYPE Production	
EMP NAME Jessie McClain		EMPLOYEE NAME Jessie McClain	

Jessie McClain			
Steve Crocker			
Mario Abrego			

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

Date	Called Out	On Location	Job Started	Job Completed
	10/21/2013	10/21/13	10/21/13	10/21/13
Time	0500	1000	1430	1630

Type and Size	Qty	Make
Auto Fill Tube	1	IR
Insert Float Valve	1	IR
Centralizers	26	IR
Top Plug	1	IR
HEAD	1	IR
Limit clamp	1	IR
Weld-A	2	IR
Guide Shoe	1	IR
Cement Basket	0	IR

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	New	15.5	5.5	J-55	KB	3110'	2500
Liner							
Liner							
Tubing							
Drill Pipe							
Open Hole Perforations							Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials			
Mud Type	WBM	Density	8.4 Lb/Gal
Disp. Fluid	H2O	Density	8.33 Lb/Gal
Spacer type	3m silicate BBL		35
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

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
10/21/13	7.5	10/21/13	2.0	Production
				Final pump psi: 650
				65 bbbls cmt to surface
				365 ft3 / 100 sks
Total	7.5	Total	2.0	

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

Pressures			
MAX	1200	AVG	60
Average Rates in BPM			
MAX	4	AVG	3
Cement Left in Pipe			
Feet	43.60'	Reason	Shoe Joint

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	205	Premium Plus Class C	0.2% C-41P, 5% Gyp, 0.25%sk Cellulose	23.49	3.65	10.8
2	95	Premium Plus Class C	2% Gel, 0.2% C-16A, 2% Calcium Chloride	10.4	1.90	13.0
3						
4						

Summary			
Preflush Breakdown	Type: _____	Preflush: BBI	35.00
	MAXIMUM	Load & Bkdn: Gal - BBI	
	Lost Returns-n	Excess /Return BBI	68
	Actual TOC	Calc. TOC	Surface
Average	Frac. Gradient	Treatment: Gal - BBI	72.90
ISIP	5 Min	Cement Slurry: BBI	165.0
	10 Min	Total Volume	272.90
	15 Min		

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