Сс	onfiden	tiality	Requested:
	Yes	ΠN	0

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1240784

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 #	API No. 15
Name:	Spot Description:
Address 1:	
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	
Name:	
Wellsite Geologist:	Datum:NAD27NAD83WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
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:	feet depth to:w/sx cmt.
Deepening Re-perf. Conv. to ENHR Conv. to SWD Plug Back Conv. to GSW Conv. to Product	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Commingled Permit #: Dual Completion Permit #: SWD Permit #:	Dewatering method used:
ENHR Permit #:	
GSW Permit #:	Operator Name: Lease Name:License #:
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date Recompletion Date	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:									

	Page Two	1240784
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	
INSTRUCTIONS: Show important tops of formations populated	etail all cores Beport all final (copies of drill stems tests giving interval tested time tool

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 (Attach Additional Sheets)		Yes No		-	Formation (Top), Depth and Da		Sample
Samples Sent to Geolog	cal Survey	Yes No	Nam	9		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
		CASING Report all strings set-o	RECORD Ne		ion, 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 / SQU	EEZE RECORD			

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

No

No

No

Did you perform a hydraulic fracturing treatment on this well?	Yes
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?	Yes
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?	Yes

(If No, skip questions 2 and 3) (If No, skip question 3)

(If No, fill out Page Three of the ACO-1)

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Ty Specify Footage of Each Interval Perforated				Plugs Set/Typ Perforated	00			ement Squeeze Record d of Material Used)	Depth
TUBING RECORD:	Si	ze:	Set At:		Packe	r At:	Liner F	Run:	No	
Date of First, Resumed	Date of First, Resumed Production, SWD or ENHR.				Vethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wat	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITION OF GAS:					METHOD OF COMPLETION:			PRODUCTION IN		
Vented Sold Used on Lease				Open Hole	Perf.	Dually (Submit)	Comp.	Commingled (Submit ACO-4)		
(If vented, Su	ibmit ACC)-18.)	Other (Specify)							

Form	ACO1 - Well Completion
Operator	Linn Operating, Inc.
Well Name	BROWN B-4 ATU-377
Doc ID	1240784

Tops

Name	Тор	Datum
KRIDER	2351	КВ
WINFIELD	2393	КВ
TOWANDA	2460	КВ
FT_RILEY	2511	КВ
FUNSTON_LM	2628	КВ
CROUSE	2673	КВ
MORRILL	2768	КВ
GRENOLA	2819	КВ

Form	ACO1 - Well Completion
Operator	Linn Operating, Inc.
Well Name	BROWN B-4 ATU-377
Doc ID	1240784

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
SURFACE	12.25	8.625	24	735	Premium Class C	450	
PRODUC TION	7.875	5.50	15.50	3065	O-Tex LowDense	425	

Column Column<	JOB SUMA	ARY	TN# 13	27	TEXETONIE 11	/14/2014		
Barrier Market Arrow B4 ATU 377 Surface MARIO ABREGO Draws <	COMPANY		CUSTOMER NU					
Brance B4 ATU 377 Strface IMARIO ABREGO ARNO BARREGO Image: Strain and	Web No. Los TYPE							
DARIO BARREGO David BarREGO David BarREGO David BarREGO Form. Name Orac-Count Erwy Type Discrete Type Discrete Type Form. Name Orac-Count Erwy Type Discrete Type Discrete Type Packer Type Set Al Discrete Type Discrete Type Discrete Type Packer Type Set Al Discrete Type Trige and Accessories Trige and Accessories Type and Size O IV Make New Used Weight Size Size Grade Costing New 24 8.525 +# 0 735 200 Innit clamp 0 IR Discrete Type Discrete Type Discrete Type Casing New Used New Used New Used New Used New Used Disp. Fuid O IR Disp. Packettern Guida Shoe IR Disp. Packettern Guida Shoe IR Mud Type Gal % Costion Description dust Description of Job Spacer type H20 BBL Disp. Fuid Disp. Dis	Irown B4 ATU 377 Surface		MARIO	BREGO	-		a dan da	
DAVID BAGALA Differing BLACKWOOD		11					T	
Optimize Called Out Consectant Server Type *orm: Name								
Form. Name Called Dut Called Dut Called Dut Called Dut Called Dut Called Dut Date Tube Packer Typa Sef At								
Control							100	
Backet Strat Strate Trope and Sizo Oti al Depth Tital Depth <td>Orm. Name Chase-Chunci Greve Type:</td> <td></td> <td>18 1</td> <td></td> <td>Chaded</td> <td>Link Co.</td> <td>helelog</td>	Orm. Name Chase-Chunci Greve Type:		18 1		Chaded	Link Co.	helelog	
Backet Strat Strate Trope and Sizo Oti al Depth Tital Depth <td></td> <td>Data Called Out</td> <td>On Locati</td> <td>on Jot</td> <td>11/13/14</td> <td>11/</td> <td>15/14</td>		Data Called Out	On Locati	on Jot	11/13/14	11/	15/14	
Retainer Depth Total Depth Total Depth Time 1:00PM 1:213AM 1:30Am 1:30Am Type and Size Oby Make Well Deia Well Deia Well Deia Max. A Muto Fill Tube 0 IR New/Used Well Deia Total Depth		Date Interes						
Tope and Size Tope and Size Tope and Size New/Leed Weight Size Caule New/Leed Weight Size Caule New/Leed Weight Size Caule Tope and Size Weight Size Caule Topic and Size Size of type Size of type <th c<="" td=""><td>Retainer Depth Total Dcpth</td><td>Time 1:00Pl</td><td></td><td></td><td>12.15AM</td><td>1:3</td><td>MAG</td></th>	<td>Retainer Depth Total Dcpth</td> <td>Time 1:00Pl</td> <td></td> <td></td> <td>12.15AM</td> <td>1:3</td> <td>MAG</td>	Retainer Depth Total Dcpth	Time 1:00Pl			12.15AM	1:3	MAG
Auto Fill Tube 0 IR Insert Float Valve 0 IR Centralizers 0 IR Control Carrow 0 IR Top Plug 0 IR Tigo Plug 0 IR Jmil clamp 0 IR Drain Clamp 0 In Drain Clamp Density 0 In Drescriptin Acot Density D	Tools and Accessories		Well	Data		70 1	Man Allan	
Auto Fill 1056 0 IK Dentralizers 0 IR Centralizers 0 IR Centralizers 0 IR Tap Plug 0 IR Centralizers 0 IR Centralizers 0 IR Liner Liner Liner Liner Liner Liner Liner Dill Pipe Intil Claimp Other 0 IR Dill Pipe Dill Pipe Dill Pipe Dill Pipe Dill Pipe Density Disp. Filul BBL Density Spacer type Gal % Acid Type Gal % Acid Type Gal % Acid Type Gal In Fluid Loss Gal/Lb in MiSC. Gal/Lb in Other Other Other Other Cement Additives Average Rates in BPM MAX 3 Average Rates in BPM MAX 3 Average Rates in BPM MAX <td>Type and Size Qty Make</td> <td>and the second se</td> <td></td> <td>Size Grade</td> <td>From</td> <td></td> <td>2000</td>	Type and Size Qty Make	and the second se		Size Grade	From		2000	
Dentralizers 0 R Cop Plug 0 IR Description 0 IR Vaid Type 0 IR Descriptions 0 IR Perforations 0 IR Descriptions 0 Intractant Cop Plug 0 In Date Hours Description of Job Surfactant Gal % Acid Type Gal % Surfactant Gal In Surfactant Gal In MISC. Gal/Lb In Difter In In Difter In In Difter In In Difter City Additives 63			18W 24	0.023 .4		100	AUUU	
Tubing 0 IR IffAD 0 IR Drift famp 0 Description famp Disp. Fluid H2a Description famp Surfactant Gal % Acid Type Gal % Acid Type Gal In Frict Red. Gal/Lb In Other Gal/Lb In <				-		-		
Diff Pipe Diff Pipe Shots Imit Clamp 0 IR Veid-A 0 IR Cement Baskel 0 IR Disp. Fluid 0 IR Spacer type BBL 10 Spacer type Gal % Acid Type Gal % Gal/Lb in In Fric. Red. Gal/Lb in MiSC. Gal/Lb in Other City In Other Gal/Lb in Cherrent Data AVG 3 Stage Sacks Cement Avid Stage Sacks Cement Cement Data MiX 1 3 In Stage Sacks Cement Data Stage Sacks Cement Stage Sacks	All la alle or o			1			22 12	
Imit clamp 0 R Weld-A 0 IR Weld-A 0 IR Decement Basket 0 IR Cernent Basket 0 IR Mult Type 0 IR Disp. Fluid H20 Density 0 IR Disp. Fluid H20 Density 0 Lb/Gal Spacer type BBL 10 Density 0 Density Spacer type Gal % Density 0 Density Spacer type Gal % Density 0 Density 0 Spacer type Gal % Density 0 Density 0 Density 0 Strifactant Gal In Density 0 Density 0 Density 0 Density 0 Strifactant Gal In Density 0 Density Density<	Op I Tog			1				
Jinit Cistring 0 R Velid A 0 IR Fexas Pattern Guida Shoe 0 IR Cemenil Baskel 0 IR Density 0 IR Perforations Density 0 Disp. Fluid BBL 10 Spacer type Gal % Acid Type Gal % Acid Type Gal % Acid Type Gal % Surfactant Gal % Getting Agent Gal/Lb in Fild Loss Gal/Lb in Perforations Total Z.0 MixSC. Gal/Lb in Other Otype Gal % Other Otype Gal % Stage Sacks Cement Addityes Stage Sacks Cement Addityes 6.34 1.35 Feot 4 Summary Gal/Lb Gal/Lb Summary Summary Gal/Lb Gal/Lb Gal/Lb Other		Open Hole		1			Shots/Ft.	
Texas Pattern Guide Shoe 0 IR Cement Basket 0 IR Cement Basket 0 IR Mut Type 0 Density 0 Lb/Gal Disp. Fluid H20 BBL 10 Density 0 Lb/Gal Spacer type Gal % Acid Type Gal % Descriptions Surface Surfactant Gal % Gal % Gal % Gal % Surfactant Gal % Gal % Gal % Gal % Surfactant Gal % Gal % Gal % Gal % Surfactant Gal % % Gal <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
Cernent Basket 0 IR Mult Type 0 Density 0 Disp. Fluid H20 BBL 0 Spacer type BBL 0 Spacer type Gal % Acid Type Gal in Fluid Loss Gal/Lb in Surfactant Gal in Fluid Loss Gal/Lb in Fluid Loss Gal/Lb in Setling Agent Gal/Lb in Fluid Loss Gal/Lb in Cerrent Data Average Rates in BPM MAX 3 Avg 3 Other Cernent Data Other 3 Other 3 Stage Sacks Cernent Charles and 23 lifts Celonate 4 4							2 - 10 A	
Materials Density 0 Lb/Gail Durs On Cocalion Doerating Hours Description Hours Disp. Fluid H20 BBL 10	Cement Basket 9 IR	Perforations		1				
Disp. Fluid H20 Density 6.33 Lb/Gail Spacer type BBL 10 11/13/14 4.0 11/13/14 2.0 Spacer type Gail %	Materials	Hours On Location	Operating	Hours		OUT IO UD		
Disp. Full Density Density <thdensity< th=""> <thdensity< th=""></thdensity<></thdensity<>		Date Houn	4474344	20	Surface			
Spacer type BBL. % Acid Type Gal. % Surfactant Gal. % Selling Agent Gal/Lb in Gelling Agent Gal/Lb in Gal/Lb in		1013/14 4.0	-			1.1.1.1		
Acid Type Gal. % Acid Type Gal. % Acid Type Gal. % Acid Type Gal. % Surfactant Gal. In NE Agent Gal. In Getling Agent Gal/Lb In Getling Agent Gal/Lb In Getling Agent Gal/Lb In MISC. Gal/Lb In Other Other Other Other Other Other Other Cernent Left in Pipe Fept 43' Reason Stage Sacks Cernent Data Stage Sacks Cernent Centate 3 Summary Summary								
Acid Type Gal % Surfactant Gal in Surfactant Gal in Siling Agent Gal/Lb in Gal in			_					
Surfactant Gal. In NE Agent Gal. In Fluid Loss Gal/Lb In Setling Agent Gal/Lb In Fric. Red. Gal/Lb In MISC. Gal/Lb In Other Gal/Lb In Dither Other Avg. Other Cement Avg. Other Cement Data Stage Sacks Cement Additives W/Rq. Yield Lbs/Lation Stage Sacks Cement Additives 6.34 1 450 Premulum Class C 3 Summary In 3 Summary In	cid Type Gal %							
NE Agent Gal. b in Fluid Loss Gal/Lb in Setting Agent Gal/Lb in Fric. Red Gal/Lb in MISC. Gal/Lb in Other Gal/Lb in Other Other AVG Other Gal/Lb in Other Cement Left in Pipe Feet 43' Reason Stage Sacks Cement Additives W/Rq. Yield Lbs/L Additives 6.34 1.35 1 450 Premulum Class C 2% Catchum Chloride and 23 Bisk Callontake 6.34 1.35 3 Summary Summary Idda Idda Idda	Surfactant Gal. In							
Fluid Loss Gal/Lb In Getting Agent Gal/Lb In MISC. Gal/Lb In MISC. Gal/Lb In Other Other Other Other Other Other Other Other Other Other Other Cernent Left in Pipe Feat 43' Reason Shoe Joint Cernent Data Stage Sacks Cernent Data 6.34 1 450 Premium Class C 3 Summary 1	1E AGERK 1981 11							
Fric. Red. Gal/Lb In MISC. Gal/Lb In Perfpac Balls Other Other AVG Other AVG Other AVG Other AVG Other Cernent BPM Other Cernent Left in Pipe Feb1 43' Reason Shoe Joint Cernent Data Stage Sacks Cernent Additives 3 Stage 4 Summary	iuid Loss Gal/Lb In							
MISCGal/LbIn Perfpac BallsQty OtherOther OtherOtherOther OtherOther OtherOther OtherOther OtherOther Other			\neg			- 11 A		
Perfpac Balls Oty Oty Oty Oty Oty Avg 65 Other Other _	nc. Ked Gal/Lb In	Total 4.0	Total	2.0		0.000		
Chiper Average Rates in BPM Other Cement Left in Pipe Fept 43' Reason Shoe Joint				201.914		220		
Other Average Rates in BPM Other Average Rates in BPM Other Average Rates in BPM Other Cement Left in Pipe Other Cement Data Stage Sacks Cement Additives W/Rq. Yield Lbs/l Stage Sacks 1 450 Premium Class C 2% Calctum Chloride and 23 Brisk Cellonake 3 Summary	Perfoac Balls Otv	1 10 10 10 10						
MAX 3 AVG 3 Other Other Cement Left in Pipe Other Cement Data Stage Sacks Cement 1 450 Premium Class C 3 Stage 4 Summary		MAX 850	AVG	65				
Conter Cement Left in Pipe Other Feb1 43' Cement Data Stage Sacks Cement Additives 1 450 Premium Class C 3''s Calchum Chloride and 29 Bisk Centrilake 3 Summary	Other				-M			
Cement Data Stage Sacks Cement Additives W/Rq. Yield Lbs/l 1 450 Premium Class C 2% Celture Chloride and 25 With Celtoniske 6.34 1.35 14. 2		MAX			0	1.00		
Coment Data Stage Sacks Cement Additives 1 450 Premium Class C 2% Calcium Chloride and 25 misk Ceñoniske 3		East 43		ir mar ar i da		oint		
Stage Sacks Cement Additives W/Rq. Yield Lbs/ 1 450 Premium Class C 2% Calcium Chloride and 25 misk Ceñoniske 6.34 1.35 14. 2	/ther	rest 40	Tig a south				1000	
Stage Sacks Centent Hourses 1 450 Premium Class C 2% Calchum Chloride and 28 Bisk Celtoniske 6.34 1.35 14 2					1440		Linderal	
1 450 Premium Class C A Calculate Charles and 2 Data Sectors 2 1 1 3 1 4 1 5 1 5 1 6 1 6 1 7 1 5 1 6 1 7 1 8 1 10 1 10 1 10 1							14.8	
3 Summary		ng 23 IPSE Cononate			0.04		1.110	
Summary								
Summary Han								
and the second sec			0.01	40.60	Turnet		20	
Tenusii Dad Bh. Col. BRI Red Bh. Col.	Prellush Type:			10.00	Part RhT			
Freekcown				50				
Actual TOC Calc TOC SURFACE Actual Disp D.00			DC .	SURFAC	E Artual D	isp 📃	0.00	
Verage Frac Gradient Treatment: Gal - BBI Disp Bbi	Verane Frac. Gradient	Treatm	ent: Gal - BBI		Oisp Bbl			
5 Min 10 Min 15 Min Cement Slurry BBI 100.0								
Total Volume BBI 118.00		Total V	name BBI	118,00			-	
, 1) 4 7/		1 1 1					-	
Ald the	11.1	let the						
CUSTOMER REPRESENTATIVE	CUSTOMER REPRESENTATIVE $\underline{-\nu}UUU$	ela. Agen	SIGNATUR	C				
Thank You For Using					For Usin	a		
0 - TEX Pumping				and the second se	the second se			

CULTY		JOB SUN	MAR	1		TN# 1				11/15/2)14
Stanton		Linn Energy		20-04		Weldon	Higgin	16		100	6414-542 UK
			CLI-LONG MA								
EMP NAME	4 ATU-S	77 Production	in a string	_		MARIO	ABREG	Ųġ			
IARIO AEREGO		T		1 1				T 1			
SHAWN COTTON					-			\square			
CHAD HORRIS							-	╆╍┥			
						_		1-1	-		
Form. Name	T	pe:	_	1.12			_		en de la		5.00
Packer Type	Se	rt At	Date	Callec	Out /15/2014	On Locati	on	Job	Started	Job	Completer 11/15/14
Sottom Hole Temp	Pr	essure	Date		13/2014	11/18	¥14	1	11/15/14		1/15/14
Retainer Depth	To	tal Denth	Time	4	:00AM	11:00	MAM		1:30PM		3:30PM
Type and Size	Acces Qty					Well	Data	100			
uto FPI Tube		Make	Casing		New/Used NEW	Weight		irade	From	To	Max. All
sert Float Valve	0		Liner		REW	15.5	5.5	. 45	0	3065	2000
entralizers	0	IR IR	Liner		1		ł				
op Plug	0	I IR	Tubing	-			-				1
EAD mit clamp	0		Drill Pir	6							1
/eld-A	1 - 8 -		Open F Perfora	Die lione	27.2						Shots/
exas Pattern Guide Shoe	0	- iR	Perfora	lions	_						
ement Basket	0	İR	Perform Hours (ions.							
ud Type 6	Depetty	D Ib/Call	Hours C	n log	ation	Operating Date	OURS		Descript	ion of Jo	b
Disp. Fluid H20 Density 8.33 1 b/Call H3/45/14 4.5						Date 11/15/14	Houn 2.0	8	Productio		
pacer type M SILICAT BB	L <u>s</u>	0					4.0				
cid TypeB8										-	
cid TypeGa cid TypeGa		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~									
unfactantGa	L.							-			
E Agent Ge uid Loss Gal								-			
	ИЪ ИЪ		-							100	
ic, Red. Gal	ИЦВ							_	-	-	
	/16	In	Total		4.0	Tota	2.0	-			-
rfpac Balls	Qty				10.00						
her			MAX	4	050		seruaa				
her			1000			AVG Average F	13(tales in l				_
her	-		MAX		3.5	AVG	3			50 T-10-	
her			Feet 4	2		Cement	Left in P	lipe			
			Feel 4	<u> </u>	3721	Reason			Shoe Ju	pint	
			Cen	nent D	ata						
ege Sacks Ceme 1 425 O-Tex Low			Additives					-	W/Rq.	Yield	Lbs/Gal
425 O-Tex Low	vense	2% Gyp, 2% Calcium C?	lorida, 2% C-45	. 8.4% C	15, 8.4% C-41P,	8.2% C-61, 6.24	Nak Celici	lake	13.29	2.25	11.5
		1							0	0	0
						_				 	
										†	
flush	Туре		Summ							2	
akdown		IMUM		_ rreli	lush: E I & Bkdn: G	881 - 881 [30.0	0	Type: SO	DIUM SIL	ICATE/H20
101010	Lost	Returns 1	0	Exce	ss Return f		65		Pad Bb - Calc Disp	Shi	
rage		Gradient		Cair	TOC		SURFA	CE	Actual Dis		72.00
5 Mith	10 M			Cem	tment: G ent Slurry E	Gal - 881	170.0	1	Disp.Bbl	-	
				Total	Volume 6	3BI	272.0				
									The second		
CUSTOMER REPRES	ENTAT	IVE									
CUSTOMER REPRES	ENTAT	IVE			5	GNATURE					
CUSTOMER REPRES	ENTAT	IVE			5	Thar	nk You	u Fo	or Using mping		