

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1104698

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:	SecTwpS. R
Address 2:	Feet from
City: State: Zip:+	Feet from _ East / _ West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxxx) (e.gxxx.xxxxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
☐ New Well ☐ Re-Entry ☐ Workover	Field Name:
□ Oil □ WSW □ SHOW □ 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:	Producing Formation: Kelly Bushing: Total Vertical Depth: Plug Back Total Depth: Feet Multiple Stage Cementing Collar Used? Yes No If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
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 #:	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:
☐ ENHR Permit #: ☐ GSW Permit #:	Operator Name:
GSW Permit #:	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or 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



Operator Name:				_ Lease I	Name: _			Well #:	
Sec Twp	S. R	East	West	County	:				
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ring and shut-in press o surface test, along v	ures, whe	ther shut-in pre chart(s). Attach	ssure reac extra shee	hed stati	c level, hydrosta space is neede	tic pressures, b d.	ottom hole temp	erature, fluid recov
Final Radioactivity Lo files must be submitte						ogs must be ema	alled to kcc-well-	logs@kcc.ks.go	v. Digital electronic
Drill Stem Tests Taker (Attach Additional		Y	es No			J	on (Top), Depth		Sample
Samples Sent to Geo	logical Survey	Y	es No		Nam	е		Тор	Datum
Cores Taken Electric Log Run			es No						
List All E. Logs Run:									
				RECORD	Ne				
	0: 11.1					ermediate, product		" 0 1	T 15
Purpose of String	Size Hole Drilled		ze Casing t (In O.D.)	Weig Lbs.		Setting Depth	Type of Cement	# Sacks Used	Type and Percer Additives
			ADDITIONAL	CEMENTI	NG / SQL	JEEZE RECORD			
Purpose:	Depth Top Bottom	Туре	of Cement	# Sacks	Used		Type and	Percent Additives	
Perforate Protect Casing	Top Dottern								
Plug Back TD Plug Off Zone									
1 lug 0 li 20 lio									
Did you perform a hydrau	ulic fracturing treatment	on this well	?			Yes	No (If No, s	skip questions 2 a	nd 3)
Does the volume of the t			-		-			skip question 3)	
Was the hydraulic fractur	ing treatment informatio	n submitted	to the chemical of	disclosure re	gistry?	Yes	No (If No, i	ill out Page Three	of the ACO-1)
Shots Per Foot			RD - Bridge Plug Each Interval Perl				cture, Shot, Ceme	nt Squeeze Recor	rd Depth
						(* *			200
TUBING RECORD:	Size:	Set At:		Packer A	t·	Liner Run:			
		0017111				[Yes N	o	
Date of First, Resumed	Production, SWD or EN	HR.	Producing Meth	nod:	g 🗌	Gas Lift (Other (Explain)		
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wat	er B	bls.	Gas-Oil Ratio	Gravity
DIODOCITI	01.05.040			4ETUOD 05	. 00145/	TION:		DDOD! ICT!	
DISPOSITION Solo	ON OF GAS: Used on Lease		N Open Hole	∥ETHOD OF Perf.	_		mmingled	PRODUCTION	ON INTERVAL:
	bmit ACO-18.)		Other (Specify)		(Submit		mit ACO-4)		

Form	ACO1 - Well Completion
Operator	Edison Operating Company LLC
Well Name	Armbrister 1-1
Doc ID	1104698

All Electric Logs Run

Dual Induction
Compensated Density
Sonic
Micro

ALLIED OIL & GAS SERVICES, LLC 053744 Federal Tax 1.D.# 20-5975804

REMIT TO P.O. BO RUSSE		SAS 6766	5			SERV	ICE POINT:	Send US
DATE 9-29-12	SEC.	TWP.	RANGE 21 W	CA	LLED OUT	ON LOCATION	JOB START	
LEASE Armbriste,	WELL#	1-1	LOCATION EI	0.5	3west	1420-15	COUNTY	STATE ()
OLD OR NEW (Circ			Eastint					- X
CONTRACTOR N	1allau	d	1 2027. 4 (OWNER		201	(01
TYPE OF JOB 54								
HOLE SIZE 123			260		CEMENT			1 2 9/46
CASING SIZE 83	3		TH 760		AMOUNTORE	DERED 1505	X 21655 K	+40000
TUBING SIZE		DEF			+2%6	1		
DRILL PIPE		DEF						I
TOOL			TH				- 17 94	212500
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BULK TRUCK			U				@	
# D	DRIVER				HANDLING /	62	@2.48	401. 76
					MILEAGE 7.	Y x 20 x	2.60	384. 80
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To: Allied Oil & C	Gas Servi	ices, LLC			-		_`@ @	
You are hereby re-	quested t	o rent cei	nenting equipme	ent		- 4.		
and furnish cemer	nter and h	nelper(s)	to assist owner o	ıΓ				•
contractor to do w	ork as is	listed. T	he above work v	vas			mom:	
done to satisfaction	on and su	pervision	of owner agent	or			TOTAL	
contractor. I have	read and	i understa	and the "GENER	RAL	CALEGRAY	16 Ames 209	7.11	
TERMS AND CO	OITION	NS" liste	d on the reverse	side.	SALES IAX (II Any)	(0)	*
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TREATMENT REPORT

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Field Order #	Station	att				Casing	Dept	h 899	County	C50		State
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PIPE	DATA	PER	FORATIN	G DATA		FLUID	USED			EATMENT		
Casing Size	Tubing Size	Shots/F	-t	Ja je je	Acid	2 · BB	/	Elin		RESS	ISIP	
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TREATMENT REPORT

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stomer	SONC	por C	Co. LC Lease No.	U	/		Date		
	rister	-	Well #	. /			10	-6-12	
Field Order #	Station	rott	_	Casing	Depth	11.79	County	2	State
Type Job	2.5+		cnw		Formation		1	Legal Descript	tion 7 2 /
PIP	E DATA	PER	FORATING DATA	FLUID (JSED		TREA	TMENT RES	UME
Casing Size	Tubing Siz	ze Shots/l	Ft 250	Acid A-C	:000 C	17 #	RATE PRE	SS ISII	p
Depth-41.7	g Depth	From	То	Pre Pad		Max		5 M	lin.
Volume //	Volume	From	То	Pad		Min		101	Min.
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Well Connection		From	То			HHP Used			nulus Pressure
Plug Depth		From	То	Flush DISP H	20	Gas Volur		Tota	al Load
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Prepared For: Edison Operating Co. LLC

1223 N. Rock Road Building 1-100 Wichita, KS. 67206

ATTN: Adam Kennedy

Armbrister #1-1

1-13s-21w-Trego

Start Date: 2012.10.03 @ 17:17:49 End Date: 2012.10.04 @ 01:09:19 Job Ticket #: 48703 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.10.04 @ 01:28:31



Edison Operating Co. LLC

ATTN: Adam Kennedy

1223 N. Rock Road

1-13s-21w-Trego

Armbrister #1-1

Tester:

Unit No:

Building 1-100
Wichita, KS. 67206
Job Ticket: 48703

Test Start: 2012.10.03 @ 17:17:49

54

GENERAL INFORMATION:

Formation: LKC-A-B

Deviated: No Whipstock: 0.00 ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 20:05:19 Time Test Ended: 01:09:19

Interval: 3468.00 ft (KB) To 3501.00 ft (KB) (TVD)

Total Depth: 3501.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2185.00 ft (KB)

Jason McLemore

2180.00 ft (CF)

DST#:1

KB to GR/CF: 5.00 ft

Serial #: 8366 Inside

Press@RunDepth: 211.06 psig @ 3470.00 ft (KB) Capacity: 8000.00 psig

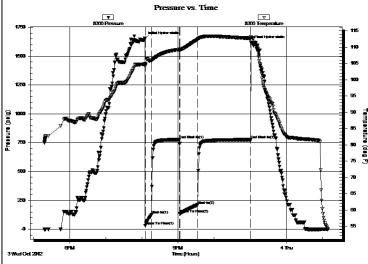
 Start Date:
 2012.10.03
 End Date:
 2012.10.04
 Last Calib.:
 2012.10.04

 Start Time:
 17:17:51
 End Time:
 01:09:19
 Time On Btm:
 2012.10.03 @ 20:04:49

 Time Off Btm:
 2012.10.03 @ 23:00:49

TEST COMMENT: IFP-Good Blow, Built to 9"

ISI-Surface Blow back For 5 Min. FFP-Good Blow, BOB in 20Min. FSI-Blow back Built to 3"



	PRESSURE SUMMARY									
Ī	Time	Pressure	Temp	Annotation						
	(Min.)	(psig)	(deg F)							
	0	1651.95	104.91	Initial Hydro-static						
	1	32.76	104.29	Open To Flow (1)						
	12	125.68	105.87	Shut-ln(1)						
	58	776.75	109.29	End Shut-In(1)						
	58	134.62	109.08	Open To Flow (2)						
	88	211.06	112.36	Shut-In(2)						
ì	176	775.88	112.77	End Shut-In(2)						
9	176	1617.94	113.18	Final Hydro-static						

Recovery

Description	Volume (bbl)
Muddy Water-80%W-20%M	3.28
Free Oil	0.42
240' Gas In Pipe	0.00
	Muddy Water-80%W-20%M Free Oil

Gas Rat	es	
Choke (inches)	Proceure (neig)	Gas Rate (Mcf/d)

Trilobite Testing, Inc Ref. No: 48703 Printed: 2012.10.04 @ 01:28:31



FLUID SUMMARY

Edison Operating Co. LLC

1-13s-21w-Trego

1223 N. Rock Road Building 1-100 Wichita, KS. 67206 Armbrister #1-1
Job Ticket: 48703

DST#:1

ATTN: Adam Kennedy

Test Start: 2012.10.03 @ 17:17:49

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:36 deg APIMud Weight:10.00 lb/galCushion Length:ftWater Salinity:30000 ppm

Mud Weight:10.00 lb/galCushion Length:ftViscosity:28.00 sec/qtCushion Volume:bbl

Water Loss: cm³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 74000.00 ppm Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
390.00	Muddy Water-80%W-20%M	3.284
30.00	Free Oil	0.421
0.00	240' Gas In Pipe	0.000

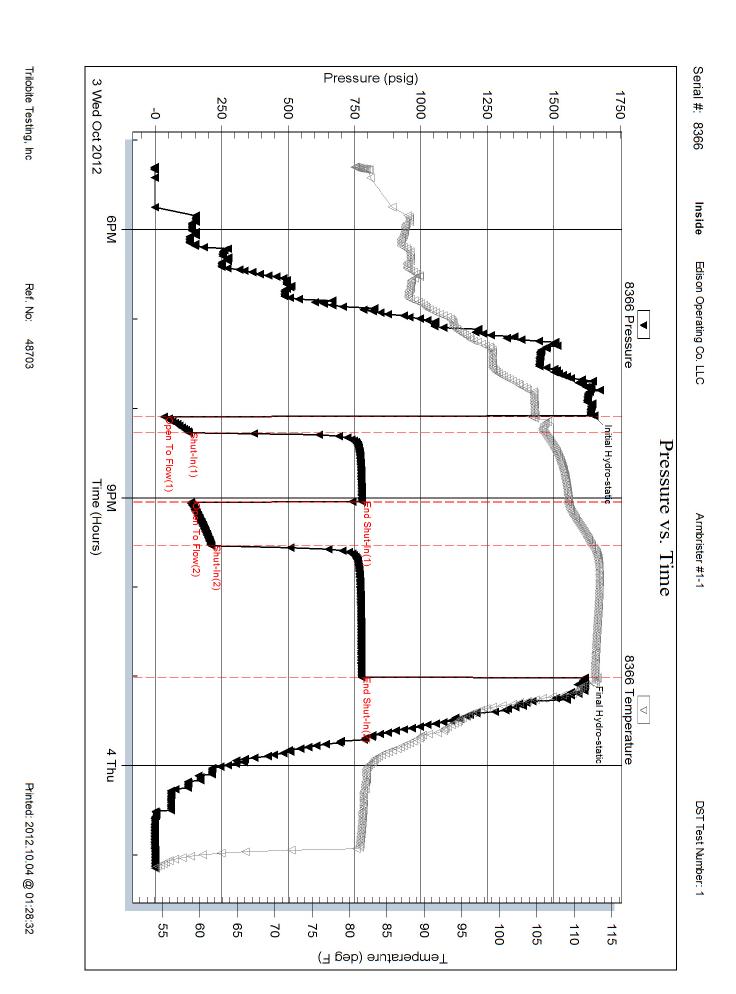
Total Length: 420.00 ft Total Volume: 3.705 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 48703 Printed: 2012.10.04 @ 01:28:32





Prepared For: Edison Operating Co. LLC

1223 N. Rock Road Building 1-100 Wichita, KS. 67206

ATTN: Adam Kennedy

Armbrister #1-1

1-13s-21w-Trego

Start Date: 2012.10.05 @ 06:00:00 End Date: 2012.10.05 @ 13:36:15 Job Ticket #: 51005 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



Edison Operating Co. LLC

1-13s-21w-Trego Armbrister #1-1

1223 N. Rock Road Building 1-100 Wichita, KS. 67206

Job Ticket: 51005

DST#:2

ATTN: Adam Kennedy

Test Start: 2012.10.05 @ 06:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: Test Type: Conventional Bottom Hole (Reset) No Whipstock: 0.00 ft (KB)

Time Tool Opened: 08:39:00 Time Test Ended: 13:36:15 Tester:

Cody Bloedorn

Unit No: 54

Interval: 3770.00 ft (KB) To 3819.00 ft (KB) (TVD)

Reference Elevations:

2185.00 ft (KB)

Total Depth: 3819.00 ft (KB) (TVD)

2180.00 ft (CF) KB to GR/CF: 5.00 ft

Serial #: 8789

Hole Diameter:

Outside

3808.00 ft (KB) 100.21 psig @

7.80 inches Hole Condition: Fair

Capacity:

8000.00 psig

Start Date: 2012.10.05 End Date: 2012.10.05 13:36:15 Last Calib.: Time On Btm:

2012.10.05 2012.10.05 @ 08:38:45

Start Time:

Press@RunDepth:

06:00:02

End Time:

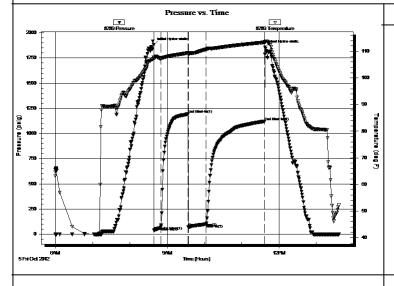
Time Off Btm:

2012.10.05 @ 11:37:45

TEST COMMENT: 10 - IF- 4" blow.

45 - ISI- Surface blow, died in 7 Minutes.

30 - FF- 2" blow. 90 - FSI- No blow back.



Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1882.81	107.78	Initial Hydro-static
1	37.16	107.17	Open To Flow (1)
12	70.81	107.29	Shut-In(1)
55	1193.00	109.37	End Shut-In(1)
56	69.26	108.91	Open To Flow (2)
84	100.21	110.77	Shut-In(2)
178	1120.81	113.38	End Shut-In(2)
179	1856.73	113.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)			
124.00	OCM, 20%O, 80%M	0.61			
60.00	GMO, 5%M, 10%G, 85%O	0.30			
0.00	124' of G.I.P.	0.00			
* Recovery from multiple tests					

Gas Rates

CI	noke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Ref. No: 51005 Printed: 2012.10.05 @ 14:00:38 Trilobite Testing, Inc



FLUID SUMMARY

ppm

Edison Operating Co. LLC

1-13s-21w-Trego

1223 N. Rock Road Building 1-100 Wichita, KS. 67206 Armbrister #1-1

Job Ticket: 51005 **DST#:2**

ATTN: Adam Kennedy

Test Start: 2012.10.05 @ 06:00:00

Mud and Cushion Information

Mud Type: Gel Chem Cushion Type: Oil API: deg API

Mud Weight:9.00 lb/galCushion Length:ftWater Salinity:Viscosity:55.00 sec/atCushion Volume:bbl

Viscosity:55.00 sec/qtCushion Volume:bWater Loss:7.60 cm³Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 2600.00 ppm Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	OCM, 20%O, 80%M	0.610
60.00	GMO, 5%M, 10%G, 85%O	0.295
0.00	124' of G.I.P.	0.000

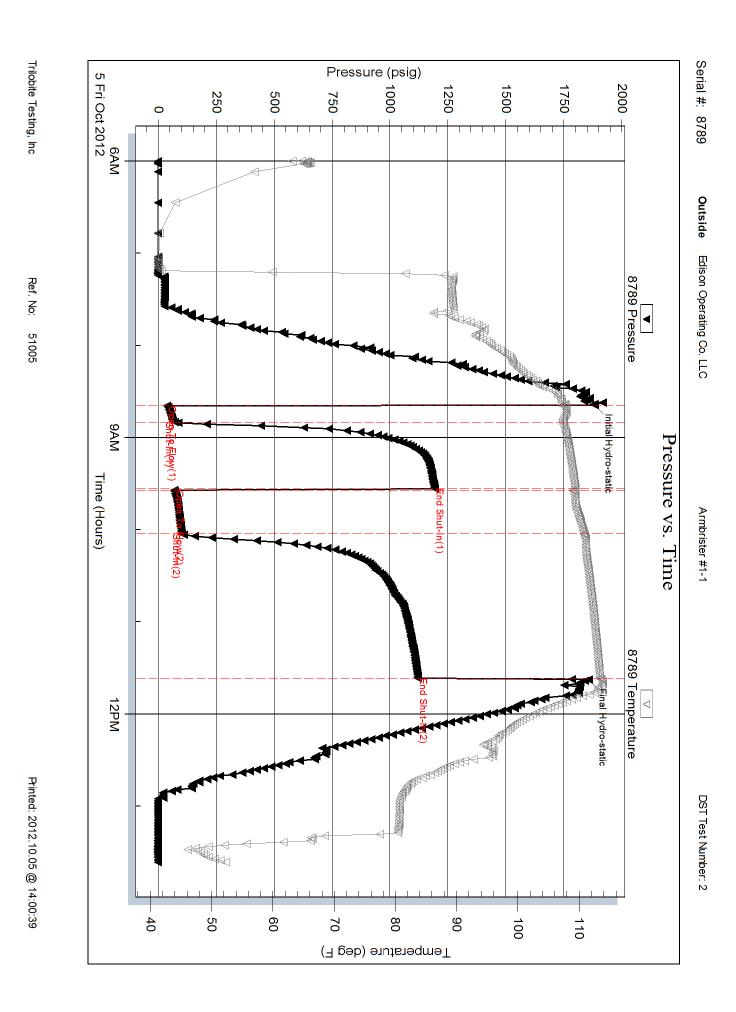
Total Length: 184.00 ft Total Volume: 0.905 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 51005 Printed: 2012.10.05 @ 14:00:39



Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Sam Brownback, Governor

Mark Sievers, Chairman Thomas E. Wright, Commissioner Shari Feist Albrecht, Commissioner

January 03, 2013

David Withrow Edison Operating Company LLC 9427 E. Cross Creek WICHITA, KS 67206

Re: ACO1 API 15-195-22779-00-00 Armbrister 1-1 NW/4 Sec.01-13S-21W Trego County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully, David Withrow