Confidentiality Requested:

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION 1097730

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 #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxx) (e.gxxx.xxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
	Elevation: Ground: Kelly Bushing:
Gas D&A ENHR SIGW	Total Vertical Depth: Plug Back Total Depth:
G G GSW Temp. Abd.	Amount of Surface Pipe Set and Cemented at: Feet
CM (Coal Bed Methane)	Multiple Stage Cementing Collar Used? Yes No
	If yes, show depth set: Feet
If Workover/Re-entry: Old Well Info as follows:	If Alternate II completion, cement circulated from:
Operator:	
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to ENHR Conv. to SWD	Drilling Fluid Management Plan
Plug Back Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls
Dual Completion     Permit #:	Dewatering method used:
SWD     Permit #:	Location of fluid disposal if hauled offsite:
ENHR Permit #:	
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or         Date Reached TD         Completion Date or	Quarter Sec Twp S. R East West
Recompletion Date Recompletion Date	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 Iwo	1097730			
Operator Name:	Lease Name:	Well #:			
Sec TwpS. 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 (Attach Additional Sh	eets)	Yes No		-	on (Top), Depth a		Sample
Samples Sent to Geolog	gical Survey	Yes No	Nam	6		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
		CASING Report all strings set-c	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	IEEZE RECORD			
Purpose:	Depth	Type of Cement	# Sacks Used		Type and F	Percent Additives	

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

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) No No (If No, skip question 3)

No

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:	Siz	e: Se	et At:	Packe	r At:	Liner R	un:	No	
Date of First, Resumed	Productio	on, SWD or ENHR.	Producing		ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bbls.	Gas	Mcf	Wate	ər	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITI	ON OF G	AS:						PRODUCTION IN	TERVAL:
Vented Solo (If vented, Sul		Jsed on Lease -18.)	Open Hole	Perf.	(Submit A	Comp. A <i>CO-5)</i>	Commingled (Submit ACO-4)		

Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	Waugh B 2
Doc ID	1097730

All Electric Logs Run

Compensated Density Neutron Log
Micro Resistivity Log
Dual Induction Log
Cement Bond Log

Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	Waugh B 2
Doc ID	1097730

### Tops

Name	Тор	Datum
Mississippi	2294'	(-981)
Kinderhook	2633'	(-1320)
Hunton	2774'	(-1461)
Maquoketa	2860'	(-1547)
Viola	2894'	(-1581)
Simpson Dolomite	2992'	(-1679)
Simpson Sand	3008'	(-1695)
Arbuckle	3058'	(-1745)
L.T.D.	3121'	(-1808)



### DRILL STEM TEST REPORT

Prepared For:

John O Farmer Inc

PO Box 352 Russell, KS 67665

ATTN: Austin Klaus

#### Waugh B #2

#### 18-15s-12w Wabaunsee,KS

 Start Date:
 2012.06.27 @ 07:46:09

 End Date:
 2012.06.27 @ 14:59:09

 Job Ticket #:
 47408
 DST #: 1

Trilobite Testing, Inc PO Box 362 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620 DST # 1

RILOBITE	DRILL STEM TES	T REP	ORT				
TESTING, INC.	John O Farmer Inc	18-15s	18-15s-12w Wabaunsee,KS				
	10 00x 002		Waug	h B #2			
	Russell, KS 67665	Russell, KS 67665			Job Ticket: 47408 DST#:1		
	ATTN: Austin Klaus		Test Sta	art: 2012.06	6.27 @ 07:46:09		
GENERAL INFORMATION:	ł						
Formation:Simpson SandDeviated:NoWhipstock:Time Tool Opened:09:41:09Time Test Ended:14:59:09	ft (KB)		Test Ty Tester: Unit No:	Brian	entional Bottom F Fairbank	Hole (Initial)	
Interval:2990.00 ft (KB) To3Total Depth:3015.00 ft (KB) (THole Diameter:7.88 inches Ho			Referer	nce Elevation KB to GR/	1305.0	00 ft (KB) 00 ft (CF) 00 ft	
Serial #: 6752         Inside           Press@RunDepth:         500.59 psig           Start Date:         2012.06.27           Start Time:         07:46:10           TEST COMMENT:         IFP - BOB 7 min	End Date: End Time:	2012.06.27 14:59:09	Capacity: Last Calib.: Time On Btm Time Off Btm		8000.0 2012.06.2 06.27 @ 09:39:3 06.27 @ 11:43:0	39	
ISI - no blow ba FFP - BOB 2 min FSI - no blow ba Pressure vs.	ו ack 		PRES		UMMARY		
100 0762 Pressue 100 0 0762 Pressue 1200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5762 Temperature	Time (Min.) 0	Pressure T (psig) (d 1456.99 1	emp An leg F) 10.90 Initia	notation I Hydro-static		
		2 30 60	342.75 1 891.75 1	16.01 Shut 16.07 End			
		64 89		16.33 Oper 16.76 Shut	n To Flow (2) t-In(2)		
		120 124	853.84 1	16.50 End	Shut-In(2) I Hydro-static		
27 Wed Jun 2012	12PM 3PM						
Recovery			<b></b>	Gas Ra	tes		
Length (ft) Description	Volume (bbl)			Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)	
820.00 Sand CO 75%O, 15%S	8.05		1		•		
105.00 OCM 15%O, 85%M	1.47						
0.00 60' GIP	0.00						
Trilobite Testing Inc	Ref. No: 47408				.07.05 @ 11:15:		

	DRILL STEM TES		ORT			
RILOBITE	John O Farmer Inc		18-15s-12	w Wabau	nsee,KS	
ESTING , INC.	PO Box 352		Waugh E	3 #2		
	Russell, KS 67665		Job Ticket:		DST#:	1
	ATTN: Austin Klaus		Test Start:	2012.06.27 (	@ 07:46:09	
GENERAL INFORMATION:						
Formation:Simpson SandDeviated:NoWhipstock:Time Tool Opened:09:41:09Time Test Ended:14:59:09	ft (KB)		Test Type: Tester: Unit No:	Convention Brian Fairba 41	al Bottom Ho ank	ole (Initial)
Interval:         2990.00 ft (KB) To         30           Total Depth:         3015.00 ft (KB) (T         T           Hole Diameter:         7.88 inchesHole			Reference	Elevations: B to GR/CF:	1313.00 1305.00 8.00	
Serial #: 6741OutsidePress@RunDepth:psigStart Date:2012.06.27Start Time:07:46:22	<ul> <li>@ 2997.00 ft (KB)</li> <li>End Date:</li> <li>End Time:</li> </ul>	2012.06.27 14:56:51	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.00 2012.06.27	
TEST COMMENT: IFP - BOB 7 min ISI - no blow bac FFP - BOB 2 min FSI - no blow ba						
Pressure vs. 7	Fime □ △ □ 8741 Temperature			JRE SUMM		
1500 1500	EXAL lemperature	Time (Min.)	Pressure Temp (psig) (deg F		ion	
Recovery			G	Bas Rates		
Length (ft) Description	Volume (bbl)		Chok	e (inches) Press	sure (psig) G	as Rate (Mcf/d)
820.00 Sand CO 75%O, 15%S	8.05				-	_
105.00 OCM 15%O, 85%M 0.00 60' GIP	0.00					
	0.00					
F	Pef No: 47408			d. 2012 07 0		

(ON)	RILOE	RITE	DRI	LL STE	MTEST	REPO	RT	TOOL DIAGRAM
				Farmer Inc			18-15s-12w Wabaur	nsee,KS
	<b> </b> ES1	TING , INC	Russell,	352 KS 67665 Austin Klaus	5		<b>Waugh B #2</b> Job Ticket: 47408 Test Start: 2012.06.27 @	<b>DST#:1</b> 07:46:09
Tool Informatio	on		Į					
Drill Pipe: Heavy Wt. Pipe:	Length: Length:	2613.00 ft 0.00 ft	Diameter: Diameter:		ches Volume: ches Volume:	36.65 bbl 0.00 bbl	<b>3</b>	2500.00 lb 25000.00 lb
Drill Collar:	Length:	379.00 ft	Diameter:		ches Volume:	1.86 bb		72000.00 lb 0.00 ft
Drill Pipe Above A Depth to Top Pac Depth to Bottom I Interval betw een	:ker: Packer:	22.00 ft 2990.00 ft ft 30.00 ft			Total Volume:	38.51 bb	String Weight: Initial Final	57000.00 lb 63000.00 lb
Tool Length: Number of Packe Tool Comments:	ers:	50.00 ft 2	Diameter:	6.75 in	ches			
Tool Descriptio	on	Le	ngth (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool			5.00			2975.00		
Hydraulic tool			5.00			2980.00		
Packer			5.00			2985.00	20.00	Bottom Of Top Packer
Packer			5.00			2990.00		

2991.00

2997.00

2997.00

2997.00

3017.00

3020.00

30.00

Bottom Packers & Anchor

Inside

Outside

Stubb

Perforations

Recorder

Recorder

Bullnose

Perforations

1.00

6.00

0.00

0.00

20.00

3.00

50.00

Total Tool Length:

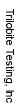
6752

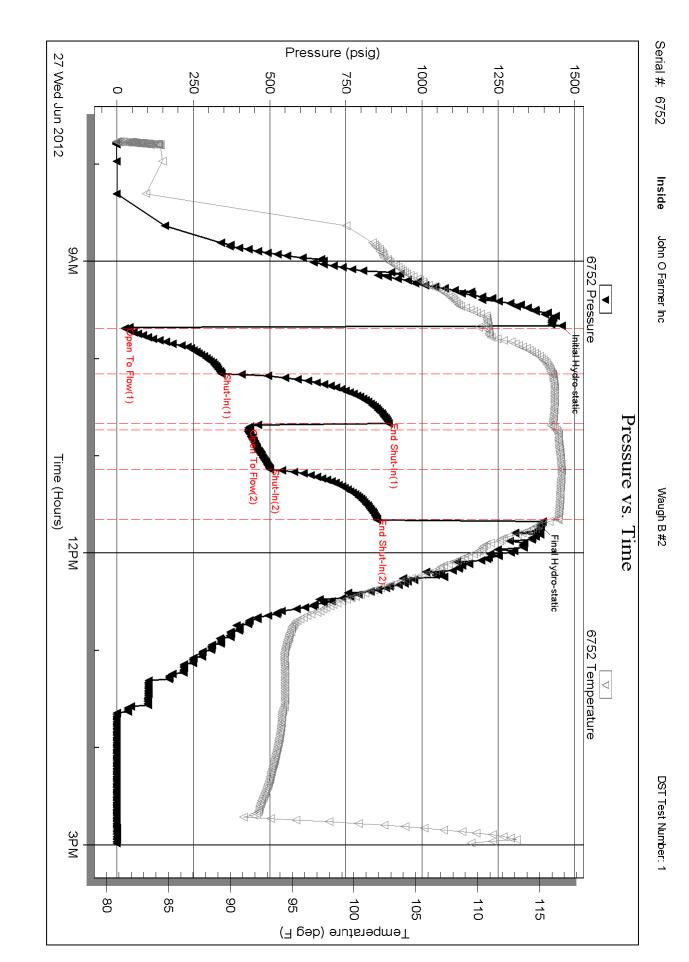
6741

	RILOBITE		ILL STEM TEST REPO	νΓλ Ι	F	LUID SUMMAR
· 第二	ESTING , IN	John C	D Farmer Inc	18-15s-12	2w Wabaunsee	e,KS
	ESTING, IN		x 352 II, KS 67665	Waugh E Job Ticket:		DST#:1
		ATTN:	Austin Klaus	Test Start:	2012.06.27 @ 07:4	46:09
lud and Cush	ion Information	 1				
lud Type: Gel C lud Weight: iscosity: /ater Loss: esistivity: alinity:	Chem 9.00 lb/gal 46.00 sec/qt 8.59 in <sup>3</sup> ohm.m 600.00 ppm		Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure:	ft bbl psig	Oil API: Water Salinity:	21 deg API ppm
ilter Cake:	inches					
ecovery Infor	rmation					
			Recovery Table			
	Le	ngth ft	Description	Volume bbl		
		820.00	Sand CO 75%O, 15%S	8.05		
		105.00	OCM 15%O, 85%M	1.4		
		~ ~ ~ ~			JUI	
		0.00	60' GIP	•		
	Total Length:		5.00 ft Total Volume: 9.523	•		
	Num Fluid Sa	925 mples: 0	5.00 ft Total Volume: 9.523 Num Gas Bombs: 0	•	—	
	Num Fluid Sa Laboratory N	925 mples: 0 ame:	5.00 ft Total Volume: 9.523	B bbl	—	
	Num Fluid Sa	925 mples: 0 ame:	5.00 ft Total Volume: 9.523 Num Gas Bombs: 0	B bbl	—	
	Num Fluid Sa Laboratory N	925 mples: 0 ame:	5.00 ft Total Volume: 9.523 Num Gas Bombs: 0	B bbl	—	
	Num Fluid Sa Laboratory N	925 mples: 0 ame:	5.00 ft Total Volume: 9.523 Num Gas Bombs: 0	B bbl	—	
	Num Fluid Sa Laboratory N	925 mples: 0 ame:	5.00 ft Total Volume: 9.523 Num Gas Bombs: 0	B bbl	—	
	Num Fluid Sa Laboratory N	925 mples: 0 ame:	5.00 ft Total Volume: 9.523 Num Gas Bombs: 0	B bbl	—	
	Num Fluid Sa Laboratory N	925 mples: 0 ame:	5.00 ft Total Volume: 9.523 Num Gas Bombs: 0	B bbl	—	
	Num Fluid Sa Laboratory N	925 mples: 0 ame:	5.00 ft Total Volume: 9.523 Num Gas Bombs: 0	B bbl	—	
	Num Fluid Sa Laboratory N	925 mples: 0 ame:	5.00 ft Total Volume: 9.523 Num Gas Bombs: 0	B bbl	—	
	Num Fluid Sa Laboratory N	925 mples: 0 ame:	5.00 ft Total Volume: 9.523 Num Gas Bombs: 0	B bbl	—	
	Num Fluid Sa Laboratory N	925 mples: 0 ame:	5.00 ft Total Volume: 9.523 Num Gas Bombs: 0	B bbl	—	
	Num Fluid Sa Laboratory N	925 mples: 0 ame:	5.00 ft Total Volume: 9.523 Num Gas Bombs: 0	B bbl	—	
	Num Fluid Sa Laboratory N	925 mples: 0 ame:	5.00 ft Total Volume: 9.523 Num Gas Bombs: 0	B bbl	—	
	Num Fluid Sa Laboratory N	925 mples: 0 ame:	5.00 ft Total Volume: 9.523 Num Gas Bombs: 0	B bbl	—	
	Num Fluid Sa Laboratory N	925 mples: 0 ame:	5.00 ft Total Volume: 9.523 Num Gas Bombs: 0	B bbl	—	
	Num Fluid Sa Laboratory N	925 mples: 0 ame:	5.00 ft Total Volume: 9.523 Num Gas Bombs: 0	B bbl	—	
	Num Fluid Sa Laboratory N	925 mples: 0 ame:	5.00 ft Total Volume: 9.523 Num Gas Bombs: 0	bbl	—	
	Num Fluid Sa Laboratory N	925 mples: 0 ame:	5.00 ft Total Volume: 9.523 Num Gas Bombs: 0	bbl	—	
	Num Fluid Sa Laboratory N	925 mples: 0 ame:	5.00 ft Total Volume: 9.523 Num Gas Bombs: 0	bbl	—	
	Num Fluid Sa Laboratory N	925 mples: 0 ame:	5.00 ft Total Volume: 9.523 Num Gas Bombs: 0	bbl	—	
	Num Fluid Sa Laboratory N	925 mples: 0 ame:	5.00 ft Total Volume: 9.523 Num Gas Bombs: 0	bbl	—	
	Num Fluid Sa Laboratory N	925 mples: 0 ame:	5.00 ft Total Volume: 9.523 Num Gas Bombs: 0	bbl	—	
	Num Fluid Sa Laboratory N	925 mples: 0 ame:	5.00 ft Total Volume: 9.523 Num Gas Bombs: 0	bbl	—	
	Num Fluid Sa Laboratory N	925 mples: 0 ame:	5.00 ft Total Volume: 9.523 Num Gas Bombs: 0	bbl	—	
	Num Fluid Sa Laboratory N	925 mples: 0 ame:	5.00 ft Total Volume: 9.523 Num Gas Bombs: 0	bbl	—	

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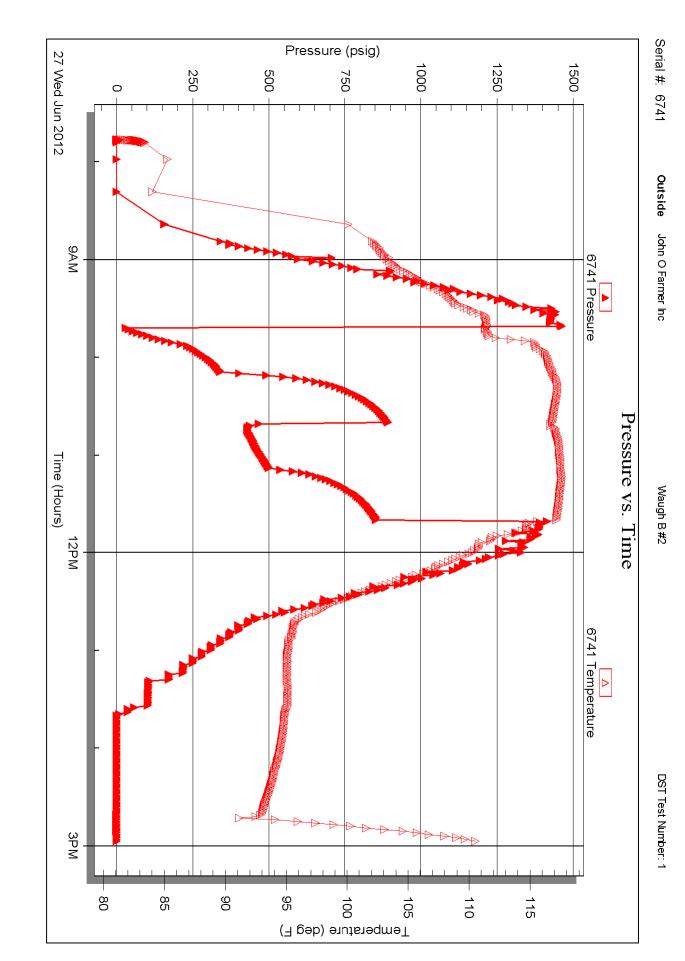




Printed: 2012.07.05 @ 11:15:02

Ref. No: 47408





RILOBITE	***	Tes	t Ticket	
4/10 ESTING INC.		NO.	47408	8
Well Name & No. Waugh B # 2 Company JOF Address 370 ws Wich to Are Co. Rep/Geo. Autin Klaus	Ele		кв_/3С	
	RgeCo.		State	t,
Interval Tested 2990 - 3015	Zone Tested Drill Pipe Run Z	2500 Send 613 79	Mud Wt. 7, 7 Vis 46 WL 8.6	/
Total Depth ZIG Blow Description IFF- BOB 7 ISI- no blow & FFP- BOB 2. FSI- no blow &	Chlorides 600		LCM	
Rec     GO     Feet of     GIP       Rec     105     Feet of     OCM       Rec     820     Feet of     Sector	9	%gas %oil %gas 15 %oil %gas 75 %oil	%water %water %water	%mud 85 %mud 25 %mud
RecFeet of RecFeet of Rec Total 925 BHT 117		%gas %oil %gas %oil	%water %water	%mud %mud
Rec Total       125       BHT       117         (A) Initial Hydrostatic       1457         (B) First Initial Flow       25         (C) First Final Flow       343         (D) Initial Shut-In       892         (E) Second Initial Flow       429         (F) Second Final Flow       50/         (G) Final Shut-In       854/         (H) Final Hydrostatic       1389         Initial Open       30         Final Flow       30         Final Flow       30         Final Shut-In       30	<ul> <li>Test 1150</li> <li>Jars</li> <li>Safety Joint</li> <li>Circ Sub</li> <li>Hourly Standby</li> <li>Hourly Standby</li> <li>Mileage 462 RT</li> <li>Sampler</li> <li>Straddle</li> <li>Straddle</li> <li>Shale Packer</li> <li>Extra Packer</li> <li>Extra Recorder</li> <li>Day Standby</li> <li>Accessibility</li> </ul>	T-On L T-Start T-Oper T-Pulle T-Out 623.10	n 099 ad 1/40 1500	
Approved By	Sub Total 1773.10 Our Represe	entative Brion	Fairbout	e

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# **AUSTIN B. KLAUS**



## Cell 785.650.3629 Work 785.483.3145 Ext 225

# PO BOX 352 Russell, KS 67665 austin.klaus@johnofarmer.com

Scale 1:240 (5"=100') Imperial Measured Depth Log

Well Name:	Waugh B #2
Location:	Wabaunsee County
License Number:	API #15-197-20296-00-00 Region: Kansas
Spud Date:	6/22/2012 Drilling Completed: 6/28/2012
Surface Coordinates:	1,210' FSL & 640' FWL
	Section 18 - Township 15 South - Range 12 East
Bottom Hole	Vertical well with minimal deviation, same as above
Coordinates:	
Ground Elevation (ft):	1,305' K.B. Elevation (ft): 1,313'
Logged Interval (ft):	2,250' To: RTD Total Depth (ft): RTD:3,119' LTD: 3,121'
Formation:	Mississippian-Arbuckle
Type of Drilling Fluid:	Chemical (Fud-Mud Co.)
	Printed by STRIP LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

#### OPERATOR

Company: John O. Farmer, Inc. Address: P.O. Box 352 Russell, KS 67665-0352

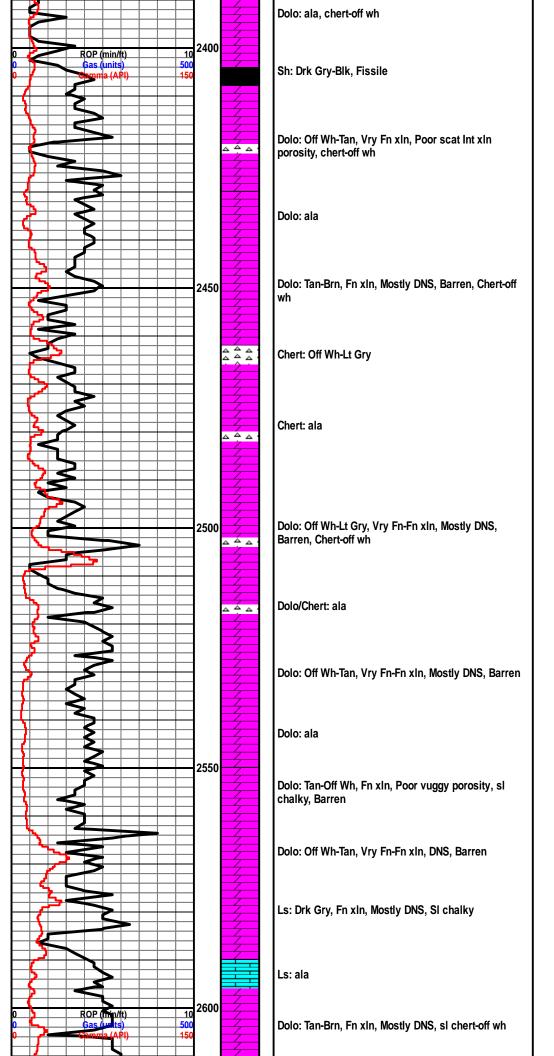
GEOLOGIST

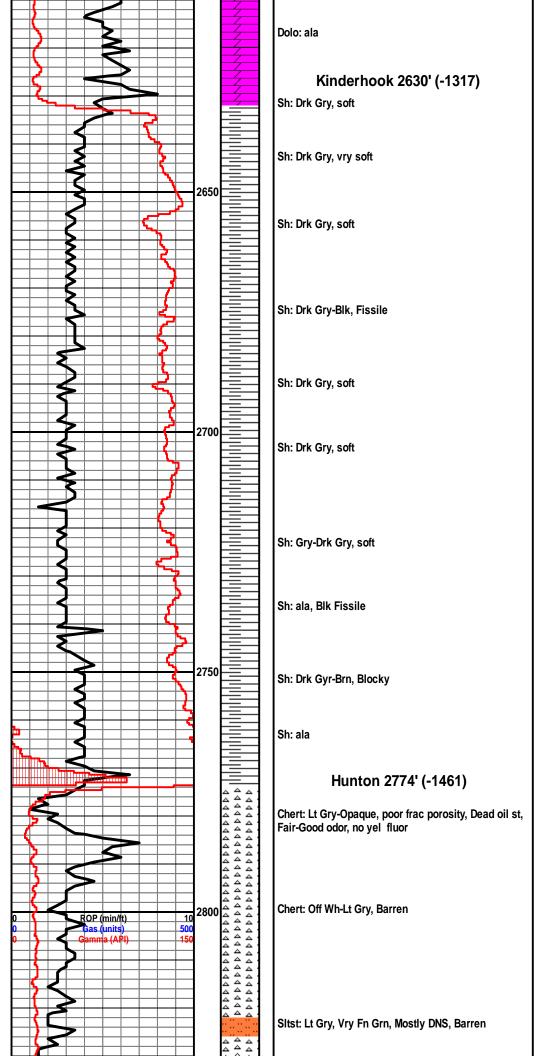
Name: Company: Address:

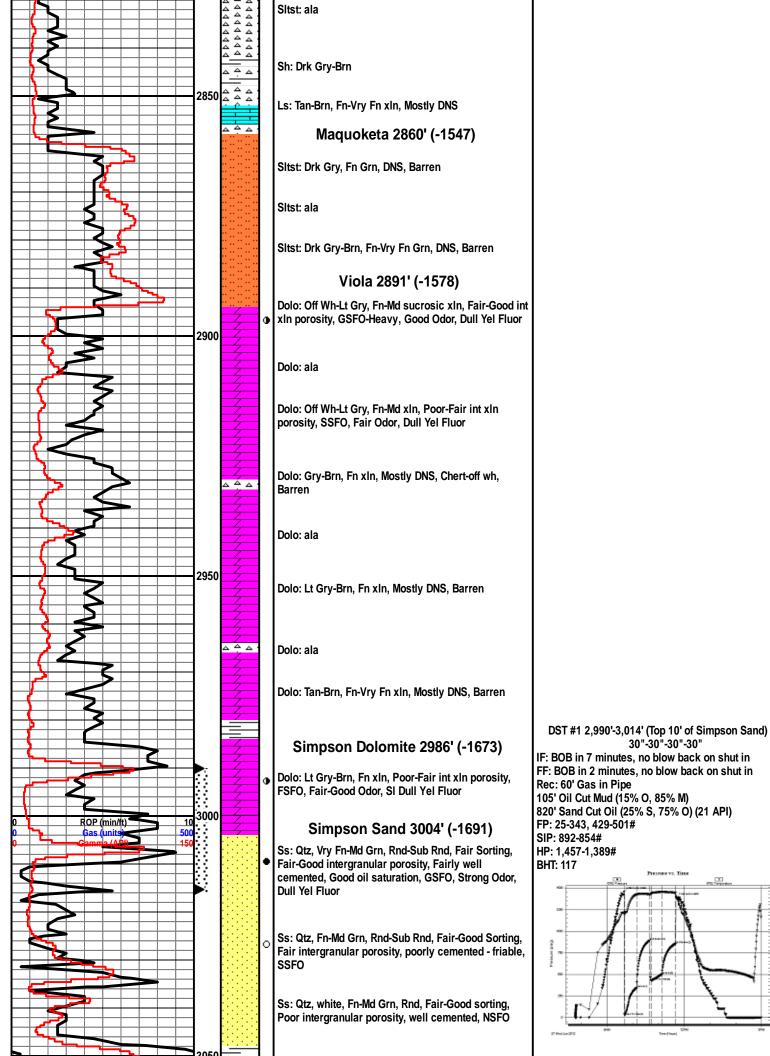
Cores

DSTs **Comments** The Waugh B #2 well was drilled by Gullick Drilling (Tool Pusher: Mike Stafford). The location for the Waugh B #2 well was found via 3-D seismic survey. Based on the results of the drill stem test that was conducted, and the samples and wireline logs that were evaluated, the decision was made to run 5 1/2" production casing on 6/28/12 to further evaluate the Waugh B #2 well. **ROCK TYPES** Gvp  $\pi^{\pi}\pi^{\pi}$ -\_-\_-Clvst Mrlst Anhv Shav Bent Coal Igne Salt Sltst 20<u>0</u>02 Brec Ss Congl Lmst Shale <u>\_ \_ \_ \_ \_</u> 14241 Cht Dol Meta Shcol Till ACCESSORIES 11 Ο MINERAL FOSSIL Ostra Sltstrg Gyp // ٦ ۵ Φ Anhv Hvymin Pelec Ssstrg Algae К I ø Kaol Amph Pellet Arggrn = Π ρ ÷ Marl Belm Pisolite TEXTURE Arg B ж  $\sim$ ø BS Minxl Bioclst Plant Boundst Bent  $\odot$ θ ш С Nodule Brach Strom Chalky Bit CX CryxIn ß •• Υ Brecfrag Phos Bryozoa ⊥ Ρ G е Pyr STRINGER Earthv Calc Cephal ⊞ A FΧ Carb Salt Coral Anhy FinexIn \_\_\_\_ ÷  $\odot$ GS Chtdk Sandy Crin Arg Grainst  $\bigtriangleup$ .... 8 T<sup>C</sup>T<sup>T</sup>TT<sup>C</sup> L Chtlt Silt Echin Bent Lithoar 4  $\sim$ Ø MΧ Dol Sil Fish MicroxIn Coal + 98 S MS Feldspar Sulphur Foram Dol Mudst • F  $\sim$ PS Ferrpel Fossil Packst Tuff Gyp 3 WS Ferr Gastro Ls Wackest <del>....</del>  $\sim$ ¢ Glau Mrst Oolite **OTHER SYMBOLS** V ۹ POROSITY EVENT Vuggy Spotted 0 Earthv Rounded Ques Rft r D SORTING Subrnd Dead Sidewall Fenest F М а Fracture Well Subang  $\times$ Μ А Inter Moderate Angular INTERVAL s Ρ Moldic Poor Core 0 ۰. OIL SHOW Organic Dst Ρ Pinpoint Even

Curve Track 1 ROP (min/ft) Gas (units) Gamma (API)	Depth	itholog	OII Shows	Geological Descriptions	Drill Stem Tests
0 ROP (min/ft) - 10 0 Gas (unite) - 500 0	2200			The open-hole logging was performed by Mr. Larry Smith with the Perforators, LLC (Hays, KS). Logs included: Compensated Neutron/Compensated Density, Dual Induction, and Microlog.	
				Formation tops and datums from the open-hole logs include the following:	
	2250			E-Log Tops Mississippian: 2294' (-981) Kinderhook: 2633' (-1320) Hunton: 2774' (-1461) Maquoketa: 2860' (-1547) Viola: 2894' (-1581) Simpson Dolo: 2992' (-1679) Simpson Sand: 3008' (-1695) Arbuckle: 3058' (-1745)	
				Sh: blk, carb	
				Sh: blk, carb	
	2300			Mississippian 2295' (-982)	
				Dolo: Off Wh-Lt Gry, Fn-Sub xIn, Mostly DNS	
				Dolo: Tan-Lt Gry, Fn xin, DNS	
				Dolo: Tan-Lt Gry, Fn xIn, Poor vuggy porosity, Barren	
	2350			Dolo: ala	
				Dolo: Tan-Lt Gry, Fn xIn, Mostly DNS, SI Chalky	
				Dolo: Off Wh-Tan, Vry Fn-Fn xin, Mostly DNS, Si chalky	







		$\pm$					5	3030		Sh: Drk Gry-Brn-Grn, soft
<b>b</b>										Arbuckle 3058' (-1745)
	₽		5						-4-	
f	-	4								Dolo: Lt Gry-Tan, Fn xIn, Mostly DNS, Barren
	$\vdash$	-								
		-	5					1		
	(	-								Dolo: Lt Gry-Tan, Fn-Md xIn, Poor int xIn porosity,
	2	-	<							NSFO
	ţ		<		-				-4-	
	_م								<u> </u>	
				<					-4	Dolo: ala
		$\neg$				-				
		_				-			-4-	
								3100		
			-							
									-4-	Dolo: Tan-Gry, Fn xin, Mostly DNS, Barren, si chert-off wh
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		4	_			-			-4-	
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íC.	CONSOLIDA Gel Wull Service	ILC .	0	TERED		LOCATION_	uneka	•
PO Box 884,	Chanute, KS 667	20	LD TICKE			0RT <i>'S -197-2</i> 92	96	
620-431-9210 DATE	or 800-467-8676	WELI	NAME & NUM		SECTION	TOWNSHIP	RANGE	COUNTY
6-23-12		waugh	B#2		18	155	12E	Wabaunsee
CUSTOMER	0. Former				TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADD	RESS			7	485	Alanm	 	
P.UBO	352			_	611	Joex	· · · · · · · · · · · · · · · · · · ·	
CITY		STATE	ZIP CODE					
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	surface a		<u> </u>				OTHER	
CASING DEP	TH <u>334°</u> GHT <u>14.5</u> #			_	k	CEMENT LEFT in		1
SLURRY WEI	GHT <u>74.3 "</u> ENT <u>19.5 bbb</u> s		T PSI					
DEMADKS.	C. C-V LARN	Sand Riv	4070 8	18 Casino	. Break	Circulation	WIFA	osh water
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1 En	cele per/sk	AT 143	A Dis	place wi	Th 19461	bls Fresh	water.	Shut
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Thank you

ACCOUNT	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015		PUMP CHARGE	825.00	825-00
5406	70	MILEAGE	4.00	280.00
			14,95	201100
11045	170 ski	Class A cement		2541.50
1102	500#	Cac/2 3%	.74	370.00
11/8B	.300-#	Gel 2% Flocele 1/4 "Perjsk	-21	63.00
1107	50#	Flocele "4 Per/sk	2.35	117.50
5407A	7.99	Jon mileage Bulk Truck	1.34	749.46
\\				
		Subtotal	4946.46	
ļ		2000 0 78%	SALES TAX	241.18
Ravin 3737			ESTIMATED	5187.64
	N mi Dol	TITLE Tod Risher	DATE 6-2	

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

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	CONSOLIDATED OII Web Services, LLC
	<i>د</i> ر



CKET NUMBER 34856

LOCATION EUrera

DATE\_

PO Box 884, Chanute, KS 66720 620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT

DATECUSTOMER #WELL NAME & NUMBERSECTIONTOWNSHIPRANCECOUL $(2-2g-1)$ $(9027)$ $(1_0)_{a_1,b_1}$ $5, # 2$ $12$ $(12)$ <th>20-431-9210 0</th> <th>or 800-467-8676</th> <th>)</th> <th></th> <th>CEMEN</th> <th>I A</th> <th>1-15-197-</th> <th>20296</th> <th></th>	20-431-9210 0	or 800-467-8676	)		CEMEN	I A	1-15-197-	20296		
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UDSTOREMENTJONNOREJONNORETRUCK#DRIVERTRUCK#DRIVERTRUCK#DRIVERCONTRESSONE DEFINE JAGEONE DEFINE JAGEDOB TYPE L/S. O.HOLE DEFINE JAGEDOB TYPE L/S. O.DOB TYPE L/S. O.DISPLACEMENT PSI JAGECOLSPANE" STATEDISPLACEMENT PSI JAGETHORK # S. DEFINEOTHER BSI JAKE C/SAC JAKECOLSPANE" STATEJAGE JAKE STATE STATEJAGE JAKE STATE STATEJAGE JAKE ST	6-28-12	4027	Waugh	B. # 2		18	155	126	Wand.	
WAILING ADDRESS       P.0. 10 mm         P.O. B. Construction       STATE         P.O. Construction       STATE         P.O. State       State State         P.O. State       State State         P.O. State       State State         P.O. State       State State			5		Given	TRUCK #				
P.G. Bax 352STATEZIP CODESTYKussellKSL 27(2K)JOB TYPEL/SOCalinaJOB TYPEL/SOCalinaLURRY NOLE SIZE27/6"HOLE DEPTHJIJ9"CASING DEPTHJII9"DRILL PIPETUBINGCASING SIZE & WEIGHTSURRY WEIGHTJS/4"SURRY VOL 4/1 BMWATER galisk9.0CEMENT LEFT In CASING 21.85SURRY WEIGHTJS/4"SURRY VOL 4/1 BMWATER galisk9.0CEMENT LEFT In CASING 21.85JIPS LACEMENT TSIJABJABSize and the second secon		SS C Ta	me(		_  _  _					
STATE       ZP CODE         Russell       K3       G Zuss         IOB TYPE       L/S       O         ASING DEPTH       BULE SIZE       27/2"         HOLE SIZE       27/2"       HOLE DEPTH         SAING DEPTH       DIRIL PPE       TUBING       OTHER ( $13$ TO $3072'$ SAING DEPTH       SURRY WEIGHT ( $3.4^{otherefferth}$ SURRY VOL 40 Bbl       WATER gallek 9.0       CEMENT LEFT in CASING 21.85 ST         SILURRY WEIGHT ( $3.4^{otherefferth}$ SURRY VOL 40 Bbl       WATER gallek 9.0       CEMENT LEFT in CASING 21.85 ST         SILURRY WEIGHT ( $3.4^{otherefferth}$ SURRY VOL 40 Bbl       WATER gallek 9.0       CEMENT LEFT in CASING 21.85 ST         SILURRY WEIGHT ( $3.4^{otherefferth}$ SURRY VOL 40 Bbl       WATER gallek 9.0       CEMENT LEFT in CASING 21.85 ST         SILURRY WEIGHT ( $3.4^{otherefferth}$ SURRY VOL 40 Bbl       WATER gallek 9.0       CEMENT LEFT in CASING 21.85 ST         SILURRY WEIGHT ( $3.4^{otherefferth}$ SURRY VOL 40 Bbl       WATER gallek 9.0       CEMENT LEFT in CASING 21.85 ST         SILURRY VOL 40.0       State 50 State 51.3 ST       State 51.85 State 5	ρ	A Bar 352					1	-		
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SILIRRY WEIGHT /3. (**)       SILIRRY VOL. 40 Bit       WATER gallak 9.0       CEMENT LEFT IN CASING 21.85 3.7         INSPLACEMENT 75. 26.       DISPLACEMENT PSI 20.0       The P										
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EMARKS: Safety meeting his is to 5% cosing in 1 (atating head. Bicax currentering of 5 kW fresh water lines 1/2 kBI (see gets) 5% to superiode pre-flish, 10 BBI 1564 972 water speci Alward 120 set thickset const in 1 5% ketsed /2× ( 18.4% float yield 1.8% washed purp 4 lines, celear latch dues plug. Augular of 25% BBI fresh water First 10 bbi was 27% tele water final purp pressure 200 BSF. Surp plug to 1100 BSI. weit 2 months, celeare pressure, float $\pm$ plug held. Geed Circulation ( a) times while constitut 2 months, celeare pressure, float $\pm$ plug held. Geed Circulation ( a) times while constitut 2 months, celeare pressure, float $\pm$ plug held. Geed Circulation ( a) times while constitut 2 months, celeare pressure, float $\pm$ plug held. Geed Circulation ( a) times while constitut 2 months, celeare pressure, float $\pm$ plug held. Geed Circulation ( a) times while constitute ( $400000000000000000000000000000000000$										
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Inter, (elease lotch down plug. Displace of 25th Bbl Fresh water. First 10 bbl was 27 fellwater. Final purp pressure 700 BST. Surp plug to 1100 BST. weit 2 monster, (classe pressure, fla $\pm$ plug held. Geed currelation $\mathcal{C}$ and times while connecting $\pm$ displacement of plug. The completeRig. dateCentralizers an Joints 1, 3, 5, 7, 7, 11Grades an Joints 2, 12"There for "Account control plug. Description of SERVICES or PRODUCTUNIT PRICETo Description of SERVICES or PRODUCTUNIT PRICECode24001PUMP CHARGE1264120 susChicurch consent.1264120 sus1264120 sus1264120 sus1264120 sus										
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Rig date         Centralizers on Joints 1, 3, 5, 7, 7, 11         Presents on Joints 2, 12         '- Three 1/2"         ACCOUNT CODE       QUANITY or UNITS       DESCRIPTION of SERVICES or PRODUCT       UNIT PRICE       TOT         State       1       PUMP CHARGE       1030.00       1030.         State       70       MILEAGE       1030.00       1030.         1126A       120 sizes       Ethicust covert.       19.20       230.9         1126A       120 sizes       Ethicust covert.       19.20       230.9         1126A       30 sizes       Ethicust covert.       19.20       570.00         State       Sizes	+ alua he	Id. Good CI	rculation C	al times	while lea	nting t di	splacement of	alog. Jub C.	molete.	
Centralizes an Joints 1, 3, 5, 7, 7, 11PREMISE an Joints 2, 12"-THARK 1/2"ACCOUNT CODEQUANITY or UNITSDESCRIPTION of SERVICES or PRODUCTUNIT PRICETOT CODEQUANITY or UNITSDESCRIPTION of SERVICES or PRODUCTUNIT PRICETOTCODEUNIT PRICETOTQUANITY or UNITSDESCRIPTION of SERVICES or PRODUCTUNIT PRICETOTStyleQUANITY or UNITSDESCRIPTION of SERVICES or PRODUCTUNIT PRICETOTStyleQUANITY or UNITSDESCRIPTION of SERVICES or PRODUCTUNIT PRICETOTStyleQUANITY or UNITSDESCRIPTION of SERVICES or PRODUCTUNIT PRICETOTStylePUMP CHARGE/ (000000000000000000000000000000000000							1	/		
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5401       1       PUMP CHARGE       1030.60       1030. $5406$ 70       MILEAGE       4.00       280.         1126A       120 5x3       thickst count.       19.20       2304         1100       755*       5* Kol-scol/3x       .46       345         1126A       30 sx3       thickst count.       19.20       576         1126A       30 sx3       thickst count.       Chingsod Pathole       19.20       576         1126A       30 sx3       thickst count.       Chingsod Pathole       19.20       576         1126A       30 sx3       thickst count.       Chingsod Pathole       19.20       576         1126A       30 sx3       thickst count.       Chingsod Pathole       19.20       576         1126A       30 sx3       thickst count.       Chingsod Pathole       19.20       576         1126A       30 sx4       thickst count.       Chingsod Pathole       19.20       576         1126A       30 sx5       thickst count.       Chingsod Pathole       19.20       576         1143       2 gals       Silt suspender pre-flab       46.40       80         1142       2 gals       S'/2" comot baskets       229.60		QUANITY	or UNITS	DE	SCRIPTION of	SERVICES or PI	RODUCT	UNIT PRICE	TOTAL	
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IIIGA $750^{+}$ $5^{+}$ Kol-seol/sk       .46 $345$ IIZEA $30 \text{ sks}$ thickset cenet (plugged lathole) $19.20$ $570$ Stora $8.25$ ton mileage bulk trk $1.34$ $773$ IIV3 $2$ gals       silt suspender pre-flash $46.40$ $80.$ IIV2 $2$ gals       silt suspender pre-flash $46.40$ $80.$ IIV3 $2$ gals       silt suspender pre-flash $46.40$ $80.$ IIV2 $2$ gals       silt suspender pre-flash $46.40$ $80.$ $1142$ $2$ gals       silt suspender pre-flash $46.40$ $80.$ $1142$ $2$ gals $126$ for were space to apple or t	1100							1	200.00	
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4203         1         51/2" Guide Shae         140.00         140.           42286         1         57/2" AFU insect         172.00         172.00	1								288.00	
4228 B 1 5% AFU insect 172.00 122.		(P				<u> </u>				
			<u>.</u>						I	
- 12 / 9/00 A05m 0/09 A0100 A010	ł								254.00	
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AUTHORIZTION Muchi D Marc

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

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TITLE\_

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/

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

October 16, 2012

Marge Schulte Farmer, John O., Inc. 370 W WICHITA AVE PO BOX 352 RUSSELL, KS 67665-2635

Re: ACO1 API 15-197-20296-00-00 Waugh B 2 SW/4 Sec.18-15S-12E Wabaunsee 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, Marge Schulte