Confidentiality Requested:

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1100704

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:
☐ Oil ☐ WSW ☐ SWD ☐ SIOW ☐ Gas ☐ D&A ☐ ENHR ☐ SIGW	Elevation: Ground: Kelly Bushing:
OG GSW Temp. Abd.	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	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	Drilling Fluid Management Plan
Plug Back Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
	Chloride content: ppm Fluid volume: bbls
Commingled Permit #:	Dewatering method used:
Dual Completion Permit #:	
SWD Permit #: ENHR Permit #:	Location of fluid disposal if hauled offsite:
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 of Recompletion Date of Recompletion Date of Recompletion Date Rec	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	11007		
Operator Nar	ne:			Lease Name:		_ Well #:	
Sec	Twp	_S. R	East West	County:			

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

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

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		-	n (Top), Depth an		Sample
Samples Sent to Geolog	gical Survey	Yes No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
			RECORD Ne				
		Report all strings set-o	conductor, surface, inte	ermediate, producti	on, 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 / SQL	JEEZE RECORD			
Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used		Type and Pe	ercent Additives	
Protect Casing Plug Back TD							
Plug Off Zone							

Did you perform a hydraulic fracturing treatment on this well?	Yes	No
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?	Yes	No
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?	Yes	No

Shots Per Foot		PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated				/		ement Squeeze Record <i>of Material Used)</i>	Depth	
TUBING RECORD:	Siz	ze:	Set At:		Packer	r At:	Liner R	un:	No	
Date of First, Resumed	Product	ion, SWD or ENHF	} .	Producing Meth	od: Pumj	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas I	Vlcf	Wate	ər	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITIO	ON OF (GAS:		М	ETHOD (OF COMPLE	TION:		PRODUCTION IN	TERVAL:
Vented Sold		Used on Lease		Open Hole	Perf.	Dually (Submit A	Comp. 1 <i>CO-5)</i>	Commingled (Submit ACO-4)		
(If vented, Sul	bmit ACC	D-18.)		Other (Specify)						

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

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

November 15, 2012

DEAN PATTISSON Woolsey Operating Company, LLC 125 N MARKET STE 1000 WICHITA, KS 67202-1729

Re: ACO1 API 15-007-23916-00-00 WARREN FEE 10 SW/4 Sec.18-32S-12W Barber 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, DEAN PATTISSON

ALLIED OIL & GAS	S SERVICES, LLC 053856
Federal Tax I.D	# 20-5975804
REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665	SERVICE POINT: <u>Medicine Lodge, K</u>
	LLED OUT ON LOCATION JOB START JOB FINISH
	COUNTY STATE
	Syphillpd, 3ks, Banben KS
OLD OR NEW (Circle one) w. t. N/in to	1201 120
CONTRACTOR Handt	OWNER Woolsey
TYPE OF JOB Suffice HOLE SIZE 143/4 T.D. 216	, CEMENT
CASING SIZE 1034 DEPTH 201+ 15' 8%	AMOUNT ORDERED 240 SX. class A + 5% cc.+
TUBING SIZE / DEPTH	2% jel
DRILL PIPE DEPTH TOOL DEPTH	1 1 200 1115 200010
PRES. MAX 200 MINIMUM	COMMON CLASSA 24054@ 16.25 3900 ")
MEAS, LINE SHOE JOINT MA	$\begin{array}{c} \text{POZMIX} \\ \text{GEL} \\ \hline \end{array} \\ \begin{array}{c} @ \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \begin{array}{c} @ \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \begin{array}{c} @ \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \begin{array}{c} @ \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \begin{array}{c} @ \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \begin{array}{c} @ \\ \hline \end{array} \\ \hline \end{array} \\ \begin{array}{c} @ \\ \hline \end{array} \\ \hline \end{array} \\ \begin{array}{c} @ \\ \hline \end{array} \\ \hline \end{array} \\ \begin{array}{c} @ \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} @ \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} @ \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} @ \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} @ \\ \end{array} \\$
PERFS.	CHLORIDE <u>958@58.00</u> 523.00
DISPLACEMENT 19 B6/stresh HD	ASC@
EQUIPMENT	
PUMPTRUCK CEMENTER D. Felio	
HSY8-545 HELPER H. Green 2	Regulatory Correspondence
BULK TRUCK	Test / Meters Operations
#364 DRIVER J. Halcomb 3 BULK TRUCK	
# DRIVER	HANDLING 259.5 fr @ 2.10 544.97
en la van de la suix s _{e e} la	MILEAGE 11.89 tons . 15. 2,31 411,10
REMARKS:	TOTAL 5492.
KEMAKAO.	TOTAL 3992.
See Job 109.	197,10 SERVICE
- See Job 109.	1971 Le SERVICE
	DEPTH OF JOB
- See Job 109.	DEPTH OF JOB
- See Job 109.	الله المركب ال
- See Job 109.	$\begin{array}{c} 101 \text{ KL} = 112 \\ \hline \\ \text{SERVICE} \\ \hline \\ \text{DEPTH OF JOB} \\ \text{PUMP TRUCK CHARGE} \\ \text{EXTRA FOOTAGE} \\ \text{MILEAGE} \\ 15 @ 7.7 \\ \hline \\ \text{MANIFOLD} \\ \text{MANIFOLD} \\ \text{MANIFOLD} \\ 15 @ 470 \\ \hline \\ \text{G} \\ 170 \\ \hline 170 $
See Job 109. Shutin - Coment Dil Htt:	$\frac{1}{125^{\circ}}$
- See Job 109.	$\frac{1}{125}$ $\frac{1}{2}$ $$
See Job 109. Shutin - Coment Dil Htt:	$\begin{array}{c} 101 \text{ KL} = 112 \\ \hline \\ \text{SERVICE} \\ \hline \\ \text{DEPTH OF JOB} \\ \text{PUMP TRUCK CHARGE} \\ \text{EXTRA FOOTAGE} \\ \text{MILEAGE} \\ 15 @ 7.7 \\ \hline \\ \text{MANIFOLD} \\ \text{MANIFOLD} \\ \text{MANIFOLD} \\ 15 @ 470 \\ \hline \\ \text{G} \\ 170 \\ \hline 170 $
See Job 109. Shutin - Coment Dil Htx CHARGE TO: Woolsey Open.	$\frac{1}{125}$ $\frac{1}{2}$ $$
See Job 109. Shutin - Coment Dil Hty.:: CHARGE TO: Woolsey Open. STREET.	$\frac{1}{125} \frac{1}{125} \frac{1}$
See Job 109. Shutin - Coment Dil Hty.:: CHARGE TO: Woolsey Open. STREET.	$\frac{1}{125} \frac{1}{125} \frac{1}$
See Job 109. Shutin - Coment Dil Hty CHARGE TO: Woolsey Open. STREET. CITYSTATEZIP To: Allied Oil & Gas Services, LLC.	$\frac{1}{10}$ SERVICE $\frac{1}{10}$ SERVICE $\frac{1}{10}$
See Job 109. Shutin - Coment Dil HHY CHARGE TO: Woolsey Open. STREET. CITYSTATEZIP To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment	$\frac{1}{10}$ SERVICE $\frac{1}{10}$ SERVICE $\frac{1}{10}$
<u>See Job 109</u> . <u>Shutin - Coment Dil</u> <u>HHY</u> CHARGE TO: <u>Woolsey Opene</u> , STREET. <u>CITY</u> <u>STATE</u> <u>ZIP</u> To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or	$\frac{1}{1290}$ SERVICE $\frac{1}{125}$ $\frac{1}{25}$ $\frac{1}{25$
<u>See Job 109</u> . <u>Shutin - Coment Dil</u> <u>HHY</u> CHARGE TO: <u>Woolsey Opene</u> . STREET. CITY <u>STATE</u> <u>ZIP</u> To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or	$\frac{1}{10}$ SERVICE $\frac{1}{10}$ SERVICE $\frac{1}{10}$
<u>See Job 109</u> . <u>Shutin - Coment Dil</u> <u>HHY</u> CHARGE TO: <u>Woolsey Opene</u> . STREET <u></u> CITY <u></u> STATE <u></u> ZIP To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL	$\frac{1}{1290}$ SERVICE $\frac{1}{125}$ $\frac{1}{25}$ $\frac{1}{25$
<u>See Job 109</u> . <u>Shutin - Coment Dil</u> <u>HHY</u> CHARGE TO: <u>Woolsey Opene</u> . STREET. CITY <u>STATE</u> <u>ZIP</u> To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or	$\frac{1}{129}$ SERVICE $\frac{1}{129}$ SERVICE $\frac{1}{129}$ $\frac{1}{129$
See Job 109. Shutin - Coment Dit HHY. CHARGE TO: Uloolsey Open. STREET. CITYSTATEZIP To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENBRAL TERMS AND CONDITIONS" listed on the reverse side.	$\frac{1}{1290}$ SERVICE $\frac{1}{1290}$ $\frac{1}{129$
See Job 109. Shutin - Coment Dit HHY. CHARGE TO: Uloolsey Open. STREET. CITYSTATEZIP To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENBRAL TERMS AND CONDITIONS" listed on the reverse side.	$ \frac{1}{129} $ SERVICE $ \frac{1}{129} $ $ \frac{1}{$
<u>See Job 109</u> . <u>Shutin - Coment Dil</u> <u>HHY</u> CHARGE TO: <u>Woolsey Operc</u> . STREET <u>CITY</u> <u>STATE</u> <u>ZIP</u> To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side. PRINTED NAME <u>Scatth All Monod</u>	$\frac{1}{1290}$ SERVICE $\frac{1}{1290}$ $\frac{1}{129$
See Job 109. Shutin - Coment Dit HHY. CHARGE TO: Uloolsey Open. STREET. CITYSTATEZIP To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENBRAL TERMS AND CONDITIONS" listed on the reverse side.	$ \frac{1}{129} $ SERVICE $ \frac{1}{129} $ $ \frac{1}{$

AUG 1 0 2012

!

ALLIED OIL & GAS SERVICES, LLC 053983 Federal Tax I.D.# 20-5975804

. .

F	edelal lax	1.0.# 20-59/5804			
REMIT TO P.O. BOX 31			SERV	/ICE POINT:	
RUSSELL, KANSAS 67665					he Lodge Ks
		ξ.		7.31	2-31
DATE 7-30-2012 SEC. 8 TWP. RANGE	2ω	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
DATE / 30-2012 10 325 /	en	L	l	1:45pm	3:30Bm
LEASE Fee WELL 10 LOCATION	N 160	& Gyp Hill Pd	3125	COUNTY BSIDEF	STATE
V	100	-191111-0	10120		1 105
OLD OR (NEW) (Circle one) W/in	10			1.02	8
CONTRACTOR H9rb+ 井1		OWNER WO	als- ar		
TYPE OF JOB Production		OWNER WO	Olsey Of	Prysing	
HOLE SIZE 7% T.D. 486	el	CEMENT			
CASING SIZE $5'_{12}$ DEPTH 47	71	AMOUNT ORD		1 miles	1.0.1
TUBING SIZE DEPTH	16	_ AMOUNTORD	ERED 105	¥60:40	4-10000
DRILL PIPE DEPTH		10050 C/4	SS # + 107	0000 710	Te) SCID-
TOOL DEPTH		6# Kolsen 125915 CISPI	T. 870 FL	160 + 44	Flosecy
		-			1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A
	111.1	COMMON CIS	SH TSO SK	@ 17.25	
	44	POZMIX	3000	@ 8.50	255.00
CEMENT LEFT IN CSG.		_ GEL	335	@ 21,25	63,75
PERFS.		CHLORIDE		_@	
DISPLACEMENT 1153 bis of freshive	ler	ASC	1.5	_@	172-1
EQUIPMENT		class p	455x		731,25
		Gypsori	1050	@ 34.20	342,00
PUMPTRUCK CEMENTER DGrin F	1	- 5912	1154	@23,95	263,45
	2	Kolsesi	600#	@ 0.85	534,00
BULK TRUCK		- FL160	75H	@17,20	1290.00
#381 DRIVER LEVIN W.	3	Floseci	25#	@ 270 .	67.50
BULK TRUCK	2	- Clapto	128915	@ 81,25	375,00
#				@	
# OYER		- HANDLING	264	@225	594,00
		MILEAGE	2641,11/10	. 2.35	290,40
REMARKS:			1-17		7,693,85
Pipe on bottom & brook Grauletion	· h	12	3.57	IUIAL	1101.103
7 St. Control & Diver Chellerion	1. 1912			a 1	
2550 for masse hole, min 505 > Sci	blensen	-	SERVI	CE	
Cement, Mix 10050 OF 19.9 Cement,			11.77/1		
bown, Wash pumpa lina, Pelesse	<u>, pros</u>		9116		
Start Lispiciement, L'Ft pressure	10.11	PUMP TRUCK			2405.00
80 bhis, slow rate to Shom 91	100 60			_@	-
bump Plus 4115/26/15 800-1500	psi	MILEAGE		@ 7,00	76.00
floct dis hold		- MANIFOLD /4			200.00 .
		Lish& Vshice	10 10	@ 4,00	40.00
			1	@	
CHARGETO: WOOLSey Operching					
		-		TOTAL	2715.00
TREET T TTTL		-		TORILL	N
STATE ZI	; D				
en e		- P	LUG & FLOAT	EQUIPMEN	Т
Nervoyers		542			
Drig Comp Occarations		the second secon	192 Shor	0	71.8.00
Tests / Meters Operations		FORU FIC	un Plus	_@	349.00
				@ \$6.00	277.00
To: Allied Oil & Gas Services, LLC.		9-Turbol.2		@ 76.00	720,00
You are hereby requested to rent cementing eq	uipment	32-Jeret	chers		2432.00
and furnish cementer and helper(s) to assist ow	vner or	•		_@	
contractor to do work as is listed. The above v					2
done to satisfaction and supervision of owner				TOTAL	3778.00
contractor. I have read and understand the "Gl			~ * *	/	
TERMS AND CONDITIONS" listed on the re			Any) -0		
I EVANO VIAD COMPLETIONO IISRA ON INC IC	verse side	•	SUI	191 00	

PRINTED NAME X Donald Buyd
signature Down Bay
Thenk vou!!!

Net # 11, 349.48 AUG 20 2012

SALES TAX (If Any) 120TOTAL CHARGES 14,186.85DISCOUNT 20 2837,37 IF PAID IN 30 DAYS Feild Estimete

A. 1 6.

1

	DRILL STEM TE	ST	REP	ORT				
RILOBITE	Woolsey Oper. Co. LLC.			18-	32s-12w	,		
ESTING , INC	125 N. Market Ste. 1000			Wa	rren Fe	e #1	D	
	Wichita, KS 67202-1729			Job	Ticket: 49	9528	DST	#:1
	ATTN: Scott Alberg			Tes	t Start: 20)12.07	.27 @ 09:22:49	9
GENERAL INFORMATION:								
Formation:MississippiDeviated:NoWhipstock:Time Tool Opened:11:15:04Time Test Ended:18:04:19	ft (KB)			Tes	ter:		ntional Bottom Reynolds	Hole (Initial)
Interval:4362.00 ft (KB) To4Total Depth:4423.00 ft (KB) (Hole Diameter:7.88 inches Ho				Ref	erence Ele KB t	evation	1615.	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 8790InsidePress@RunDepth:96.19 psigStart Date:2012.07.27Start Time:09:22:54TEST COMMENT:IF: Strong blowISI: No blow	End Date: End Time:	20)12.07.27 18:04:19	Capacity Last Cali Time On Time Off	b.: Btm: :		8000. 2012.07. 17.27 @ 11:12: 17.27 @ 15:44:	19
FSI: No blow Pressure vs.		mcf @	2 60min.	PI	RESSUF	RE SI	JMMARY	
2250	8790 Temperature	. †	Time	Pressure	Temp		notation	
			(Min.) 0	(psig) 2113.60	(deg F) 118.63	Initial	Hydro-static	
			3	38.94	120.18	Oper	To Flow (1)	
	115		32	59.50	122.55			
	110		92 93	1070.17 74.67			Shut-In(1) า To Flow (2)	
	Ind BinHin 2007	erature	153	96.19	125.01	Shut	- I n(2)	
760 600 600 600 600 761 761 761 761 761 761 761 761		mperature (deg F)	272 273	1076.66 2090.24	129.81 128.33		Shut-In(2) Hydro-static	
Recovery					Ga	l s Rat	es	
Length (ft) Description	Volume (bbl)				Choke (i	nches)	Pressure (psig)	Gas Rate (Mcf/d)
110.00 OGCM 15%oil, 25%ga			First Gas		().13	4.00	6.89
100.00 SLI OGCM 3%oil, 15%	gas, 82%mud 1.32		Last Gas		_	0.13	5.00	7.26
			Max. Ga	s Rate	().13	5.00	7.26
<u> </u>								

Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system Image: Constraint of the system I		2012.		Wa Job Test Test Unit	t Type: ter: No: erence El	ee #10 9528 012.07.2 Conven Ryan R 63	DST 27 @ 09:22:44 attional Bottom eynolds 5: 1625. 1615.	9 Hole (Initial) 00 ft (KB)
Wichita, I ATTN: S GENERAL INFORMATION: Formation: Mississippi Deviated: No Whipstock: Time Tool Opened: 11:15:04 Time Test Ended: 18:04:19 Interval: 4362.00 ft (KB) To 4423.00 ft (K Total Depth: 4423.00 ft (KB) (TVD) Hole Diameter: 7.88 inchesHole Condition: Serial #: 8792 Outside Press@RunDepth: psig @ 4360 Start Date: 2012.07.27 Enco Start Time: 09:18:55 Enco TEST COMMENT: IF: Strong blow . BOB 2min. ISI: No blow FF: Strong blow . BOB immed FF: Strong blow . BOB immed	KS 67202-1729 Scott Alberg ft (KB) B) (TVD) Fair 6.00 ft (KB) d Date:	2012.		Job Test Test Test Unit	Ticket: 4 t Start: 2 t Type: ter: No: erence El	9528 012.07.2 Conven Ryan R 63 evations	DST 27 @ 09:22:44 attional Bottom eynolds 5: 1625. 1615.	9 Hole (Initial) 00 ft (KB)
Wichita, I ATTN: S GENERAL INFORMATION: Formation: Mississippi Deviated: No Whipstock: Time Tool Opened: 11:15:04 Time Test Ended: 18:04:19 Interval: 4362.00 ft (KB) To 4423.00 ft (K Total Depth: 4423.00 ft (KB) (TVD) Hole Diameter: 7.88 inchesHole Condition: Serial #: 8792 Outside Press@RunDepth: psig @ 4360 Start Date: 2012.07.27 End Start Time: 09:18:55 End TEST COMMENT: IF: Strong blow . BOB 2min. ISI: No blow BOB 2min.	KS 67202-1729 Scott Alberg ft (KB) B) (TVD) Fair 6.00 ft (KB) d Date:	2012.		Job Test Test Test Unit	Ticket: 4 t Start: 2 t Type: ter: No: erence El	9528 012.07.2 Conven Ryan R 63 evations	DST 27 @ 09:22:44 attional Bottom eynolds 5: 1625. 1615.	9 Hole (Initial) 00 ft (KB)
GENERAL INFORMATION: Formation: Mississippi Deviated: No Whipstock: Time Tool Opened: 11:15:04 Time Tool Opened: 11:15:04 Time Tool Opened: 11:15:04 Time Test Ended: 18:04:19 Interval: 4362.00 ft (KB) To Total Depth: 4423.00 ft (KB) (TVD) Hole Diameter: 7.88 inchesHole Condition: Serial #: 8792 Outside Press@RunDepth: psig @ 436i Start Date: 2012.07.27 End Start Time: 09:18:55 End TEST COMMENT: IF: Strong blow . BOB 2min. ISI: No blow F: Strong blow . BOB immed	ft (KB) B) (TVD) Fair 6.00 ft (KB) I Date:	2012.		Test Test Unit	t Type: ter: No: erence El	Conven Ryan R 63 evations	ational Bottom eynolds s: 1625. 1615.	Hole (Initial) 00 ft (KB)
Formation: Mississippi Deviated: No Whipstock: Time Tool Opened: 11:15:04 Time Test Ended: 18:04:19 Interval: 4362.00 ft (KB) To 4423.00 ft (K Total Depth: 4423.00 ft (KB) (TVD) Hole Diameter: 7.88 inchesHole Condition: Serial #: 8792 Outside Press@RunDepth: psig @ 4360 Start Date: 2012.07.27 End Start Time: 09:18:55 End TEST COMMENT: IF: Strong blow . BOB 2min. ISI: No blow FF: Strong blow . BOB immediate FF: Strong blow . BOB immediate	B) (TVD) Fair 6.00 ft (KB) I Date:	2012.		Test Unit	ter: No: erence El	Ryan R 63 evations	eynolds s: 1625. 1615.	00 ft (KB)
Deviated: No Whipstock: Time Tool Opened: 11:15:04 Time Test Ended: 18:04:19 Interval: 4362.00 ft (KB) To 4423.00 ft (KB) Total Depth: 4423.00 ft (KB) (TVD) Hole Diameter: 7.88 inchesHole Condition: Serial #: 8792 Outside Press@RunDepth: psig @ 4361 Start Date: 2012.07.27 End Start Time: 09:18:55 End TEST COMMENT: IF: Strong blow . BOB 2min. ISI: No blow FF: Strong blow . BOB immediate FF: Strong blow . BOB immediate	B) (TVD) Fair 6.00 ft (KB) I Date:	2012.		Test Unit	ter: No: erence El	Ryan R 63 evations	eynolds s: 1625. 1615.	00 ft (KB)
Total Depth: 4423.00 ft (KB) (TVD) Hole Diameter: 7.88 inchesHole Condition: Serial #: 8792 Outside Press@RunDepth: psig @ 4360 Start Date: 2012.07.27 End Start Time: 09:18:55 End TEST COMMENT: IF: Strong blow . BOB 2min. ISI: No blow FF: Strong blow . BOB immediate	Fair 6.00 ft (KB) I Date:	2012.		Refe			1615.	
Press@RunDepth: psig @ 4360 Start Date: 2012.07.27 End Start Time: 09:18:55 End TEST COMMENT: IF: Strong blow . BOB 2min. ISI: No blow FF: Strong blow . BOB immediate	Date:	2012.					F: 10.	00 ft (CF) 00 ft
ISI: No blow FF: Strong blow . BOB immed		18:	.07.27 :06:20	Capacity: Last Calik Time On I Time Off	o.: Btm:		8000. 2012.07.	00 psig 27
Pressure vs. Time	 Temperature						MMARY	
27 Firsure 572 Presure 572 572 572 572 572 572 572 572	Temperature 130 130 130 130 130 130 130 130	(N	īme Vin.)	Pressure (psig)	Temp (deg F)	Ann	otation	
Recovery			ŀ	•	Ga	s Rate	es	
Length (ft) Description	Volume (bbl)				Choke ((inches)	Pressure (psig)	Gas Rate (Mcf/d)
110.00 OGCM 15%oil, 25%gas, 60%mud			First Gas			0.13	4.00	6.89
100.00 SLI OGCM 3%oil, 15%gas, 82%mu	ud 1.32		ast Gas			0.13	5.00	7.26
			Max. Gas	s Rate	ļ	0.13	5.00	7.26

		DRI	ILL STEM TEST REPO	RT		FLUID SUMMARY
	RILOBITE ESTING , INC.	Woolse	ey Oper. Co. LLC.	18-32s-12	?w	
	ESTING , INC.		Market Ste. 1000 a, KS 67202-1729	Warren I		DCT# 4
			Scott Alberg	Job Ticket:	49528 2012.07.27 @ 09	DST#:1
. uhedly		ATTN.			2012.07.27 @ 08	J.ZZ.49
	shion Information					
Mud Type: Gel Mud Weight:	Chem 9.00 lb/gal		Cushion Type: Cushion Length:	ft	Oil API: Water Salinity:	deg API 5000 ppm
Viscosity:	48.00 sec/qt		Cushion Volume:	bbl	Water Samily.	5000 ppm
Water Loss:	9.58 in ³		Gas Cushion Type:			
Resistivity:	ohm.m		Gas Cushion Pressure:	psig		
Salinity: Filter Cake:	5000.00 ppm 0.02 inches					
Recovery Inf						
Recovery IIII			Recovery Table			
	Leng ft	th	Description	Volume bbl		
		110.00	OGCM 15%oil, 25%gas, 60%mud	0.54		
		100.00	SLI OGCM 3%oil, 15%gas, 82%mud	1.32	21	
	Total Length:	210	0.00 ft Total Volume: 1.862	bbl		
	Recovery Com					



DRILL STEM TEST REPORT

Woolsey Oper. Co. LLC.

125 N. Market Ste. 1000 Wichita, KS 67202-1729

18-32s-12w

 Warren Fee #10

 Job Ticket: 49528
 DST#:1

ATTN: Scott Alberg

Test Start: 2012.07.27 @ 09:22:49

Gas Rates Information

Temperature:	59 (deg F)
Relative Density:	0.65
Z Factor:	0.8

Gas Rates Table

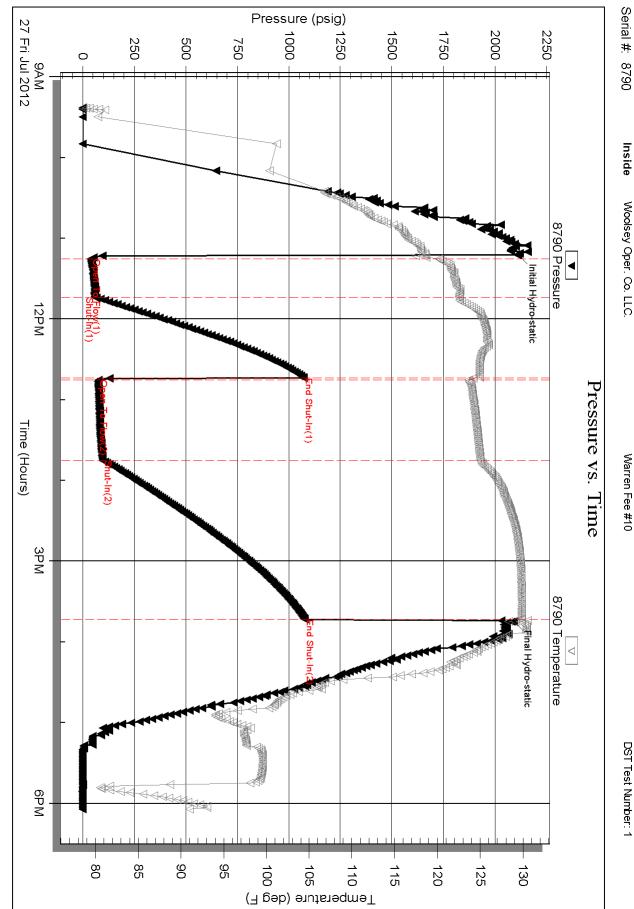
Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	45	0.13	4.00	6.89
2	45	0.13	4.00	6.89
2	50	0.13	5.00	7.26

GAS RATES

Printed: 2012.07.27 @ 23:42:41

Ref. No: 49528





Inside

Woolsey Oper. Co. LLC.

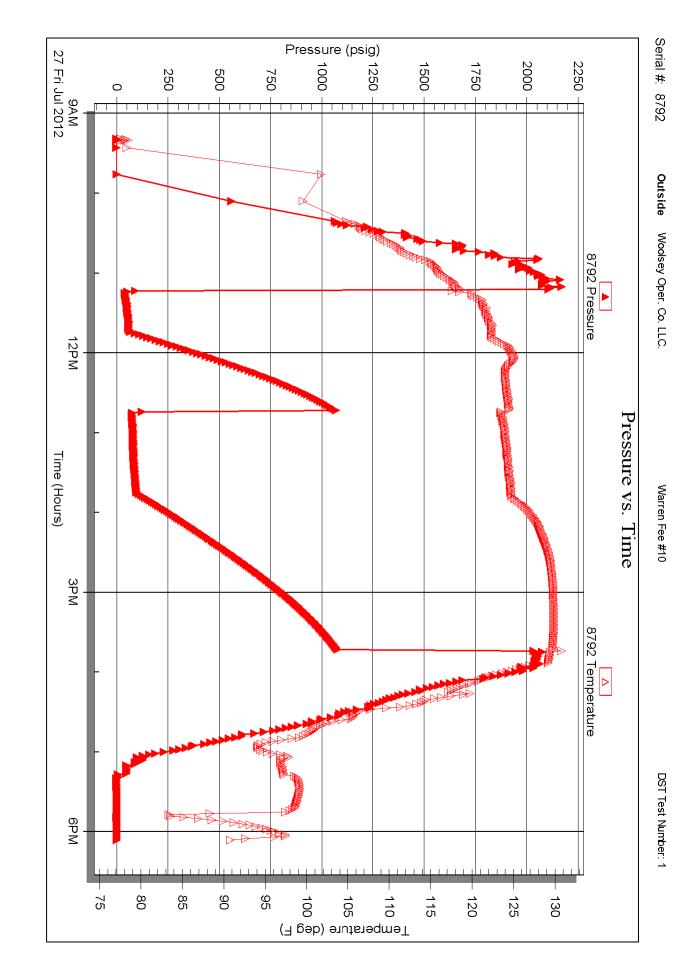
Warren Fee #10

DST Test Number: 1



Ref. No: 49528

Trilobite Testing, Inc



	DRILL STEM TES	TREP	ORT			
RILOBITE	Woolsey Oper. Co. LLC.		18-3	32s-12w		
ESTING , INC.	125 N. Market Ste. 1000		Wa	rren Fee # [,]	10	
	Wichita, KS 67202-1729			Ticket: 49529	DST	#:2
	ATTN: Scott Alberg				7.28 @ 02:13:2	
GENERAL INFORMATION:						
Formation:MissispiDeviated:NoWhipstock:Time Tool Opened:05:41:36Time Test Ended:12:59:36	ft (KB)		Test Test Unit	er: Ryan	entional Bottom Reynolds	Hole (Reset)
Interval:4424.00 ft (KB) To448Total Depth:4481.00 ft (KB) (TVHole Diameter:7.88 inches Hole	D)		Refe	erence Elevatio KB to GR	1615.	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 8790 Press@RunDepth: 211.50 psig (Start Date: 2012.07.28 Start Time: 02:13:26 TEST COMMENT: IF: Very strong bl ISI: Weak 1/4" BB FF: Strong blow . FSI: Fair 4" BB	End Date: End Time: ow . BOB 10 sec. GTS in 30min.	2012.07.28 12:59:36	Capacity: Last Calib Time On E Time Off	o.: Btm: 2012	8000. 2012.07. .07.28 @ 05:39: .07.28 @ 10:12:	21
Pressure vs. Ti			PR	RESSURE S	UMMARY	
25 Statul 212	Plan Hole-state Plan H	Time (Min.) 0 3 32 93 94 150 273 274	Pressure (psig) 2150.92 54.54 108.98 1341.50 76.14 211.50 1313.48 2137.05	(deg F) 117.40 117.57 0pe 119.04 Shu 121.44 Enc 120.98 0pe 122.31 Shu 124.56	nnotation al Hydro-static en To Flow (1) ut-In(1) I Shut-In(1) en To Flow (2) ut-In(2) I Shut-In(2) al Hydro-static	
Recovery				Gas Ra	ates	
Length (ft) Description	Volume (bbl)			Choke (inches)		Gas Rate (Mcf/d)
30.00 MCGCWO 15%mud, 20%	-	First Ga		0.13	10.00	9.13
60.00 MCGCO 15%mud, 20%g 300.00 Clean Gassy Oil 20%gas		Last Ga Max. Ga		0.13	48.00	23.35 23.35
* Recovery from multiple tests				1 0.10	.0.00	20.00

Trilobite Testing, Inc

	DRILL STEM TES	T REP	ORT			
RILOBITE	Woolsey Oper. Co. LLC.		18-3	2s-12w		
ESTING , INC	125 N. Market Ste. 1000		War	ren Fee #1	0	
	Wichita, KS 67202-1729			icket: 49529	DST	'#· 2
	ATTN: Scott Alberg				.28 @ 02:13:2	
GENERAL INFORMATION:						
Formation:MississippiDeviated:NoWhipstock:Time Tool Opened:05:41:36Time Test Ended:12:59:36	ft (KB)		Test ⁻ Teste Unit N	r: Ryan I	ntional Bottom Reynolds	Hole (Reset)
Interval:4424.00 ft (KB) To44Total Depth:4481.00 ft (KB) (THole Diameter:7.88 inches Hol			Refer	ence Elevation KB to GR/	1615	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 8792						
Press@RunDepth: psig			Capacity:			.00 psig
Start Date: 2012.07.28 Start Time: 02:08:50	End Date: End Time:	2012.07.28 13:01:30	Last Calib. Time On Bi		2012.07	28
			Time Off B	itm:		
Pressure vs. 7 8762 Piesure	Time	Time		ESSURE SU		
2250 2250	8792 Temperature - 125	Time (Min.)	Pressure (psig)	Temp Anı (deg F)	notation	
2000						
1500						
760						
	70					
3AM 6AM 28 Sat Jul 2012 Time (Hours)	9ÅM 12PM					
Recovery			• •	Gas Rat	es	
Length (ft) Description	Volume (bbl)			Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
30.00 MCGCWO 15%mud, 20%	-	First Ga	is Rate	0.13	10.00	9.13
60.00 MCGCO 15%mud, 20%		Last Ga		0.13	48.00	23.35
300.00 Clean Gassy Oil 20%ga	is, 80%oil 3.94	Max. Ga	as Rate	0.13	48.00	23.35
* Recovery from multiple tests Trilobite Testing. Inc	Ref. No: 49529			Printed: 2012.		

Trilobite Testing, Inc

	BITE		LL STEM TEST REPOR			FLUID SU	WIMAR
TESTING , INC.		Wools	Woolsey Oper. Co. LLC.		2w		
		125 N. Market Ste. 1000 Wichita, KS 67202-1729			Warren Fee #10 Job Ticket: 49529		
		ATTN:	Scott Alberg		2012.07.28 @ 02	2:13:21	ST#: 2 3:21
Aud and Cushion I	nformation	ļ					
Aud Type: Gel Chem Aud Weight: 9.0 /iscosity: 46.0 Vater Loss: 10.3 Resistivity: Salinity: 5000.0	00 lb/gal 00 sec/qt 38 in ³ ohm.m		Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure:	ft bbl psig	Oil API: Water Salinity:		deg A Pl ppm
ecovery Informati	on						
			Recovery Table				
	Leng ft	jth	Description	Volume bbl			
		30.00	MCGCWO 15%mud, 20%gas, 25%w ater				
		60.00	MCGCO 15%mud, 20%gas, 65%oil	0.2			
		300.00	Clean Gassy Oil 20%gas, 80%oil	3.9	944		
	Recovery Com	nonto.					



DRILL STEM TEST REPORT

Woolsey Oper. Co. LLC.

125 N. Market Ste. 1000 Wichita, KS 67202-1729

18-32s-12w

 Warren Fee #10

 Job Ticket: 49529
 DST#:2

 Test Start: 2012.07.28 @ 02:13:21

ATTN: Scott Alberg

Gas Rates Information

Temperature:	59 (deg F)
Relative Density:	0.65
Z Factor:	0.8

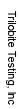
Gas Rates Table

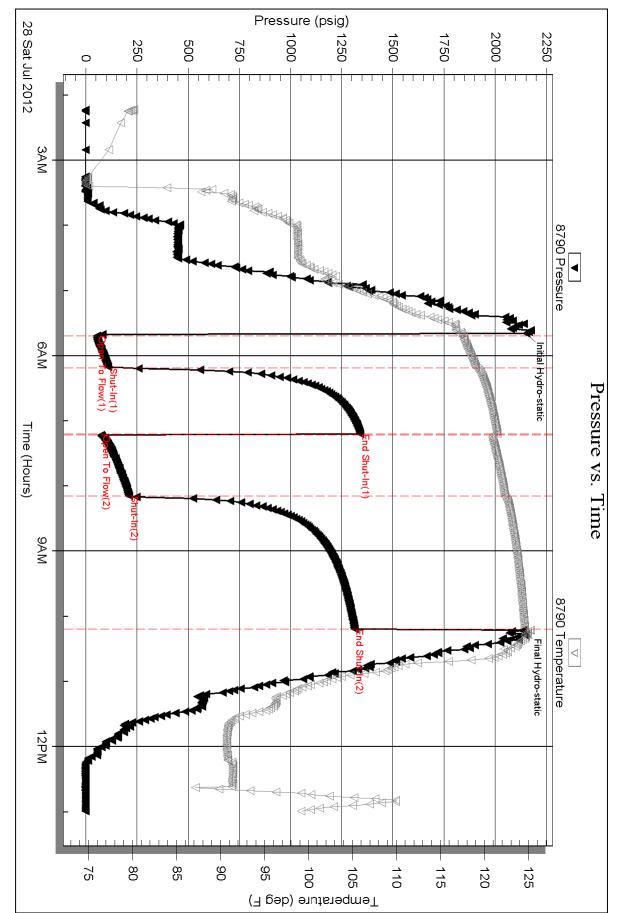
Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	5	0.13	10.00	9.13
2	5	0.13	10.00	9.13
2	10	0.13	13.50	10.44
2	20	0.13	23.00	14.00
2	30	0.13	30.00	16.62
2	40	0.13	42.00	21.11
2	50	0.13	48.00	23.35

GAS RATES

Printed: 2012.07.28 @ 19:16:09

Ref. No: 49529





Serial #: 8790

Woolsey Oper. Co. LLC.

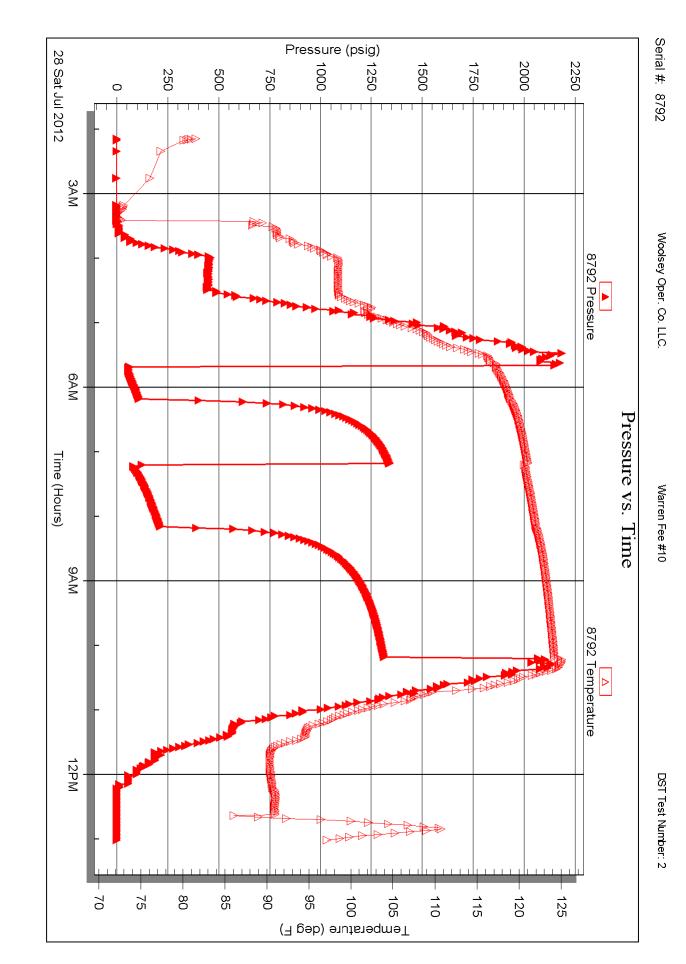
Warren Fee #10

DST Test Number: 2

Printed: 2012.07.28 @ 19:16:10

Ref. No: 49529





Woolsey Operating Company, LLC Scale 1:240 (5"=100') Imperial Measured Depth Log						
Well Name:	WARREN FEE 10					
Location:	NW SE SW SW					
License Number:	API: 15-007-23916-00-00 Region: Barber County, Kansas					
Spud Date:	July 18, 2012 Drilling Completed: July 30, 2012					
Surface Coordinates:	Section 18-T32S-R12W, 480' FSL, 785' FWL Medicine Lodge North Pool					
Bottom Hole	Vertical Hole					
Coordinates:						
Ground Elevation (ft):	1615 K.B. Elevation (ft): 1625					
Logged Interval (ft):	3500 To: RTD Total Depth (ft): 4865					
Formation:	McLish Shale					
Type of Drilling Fluid:	Chemical Mud, Displace at 3259'. Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com					

OPERATOR

Company: Woolsey Operating Company,LLC Address: 125 N. Market, Suite 1000 Wichita, KS 67202

GEOLOGIST

Name: W. Scott Alberg Company: Alberg Petroleum, LLC Address: 609 Meadowlark Lane Pratt, Kansas 67124

FORMATION TOPS

	SAMPLE TOPS	LOG TOPS
LECOMPTON	3530(-1905)	3531(-1906)
KANWAKA	3560(-1935)	3562(-1937)
HEEBNER	3695(-2070)	3697(-2072)
TORONTO	3711(-2085)	3712(-2086)
BROWN LIME	3865(-2240)	3866(-2241)
LANSING	3874(-2249)	3875(-2250)
HUSHPUCKNEY SHALE	4266(-2641)	4266(-2641)
B/KC	4327(-2702)	4326(-2701)
MISSISSIPPIAN	4397(-2772)	4398(-2773)
KINDERHOOK SHALE	4591(-2966)	4589(-2964)
WOODFORD SHALE	4656(-3031)	4656(-3021)
VIOLA	4686(-3061)	4686(-3061)
SIMPSON GROUP	4778(-3153)	4775(-3150)
RTD	4865(-3240)	
LTD		4865(-3240)

COMMENTS Surface Casing: Set 5 joints 10 3/4" at 216'(tallied 202') with 240 sxs Class A, 2% gel, 3% cc, plug down at 7:30 pm on July 18, 2012. Cement did Circulate. Production Casing: 5 1/2" Casing Ran. Deviation Surveys:1 1/4 - 216', 1- 1066', 1 - 1558', 1-2082, 3/4 2577', 1 - 3074', 1 - 3568', 2 - 4063', 3/4 - 4188', 2-4423', 1 3/4 - 4481', 1 1/4 - 4865'. Contractor Bit Record:

1- 14 3/4" out at 216'. 2- 7 7/8" out at 4865'.

Pipe Strap at 4423'

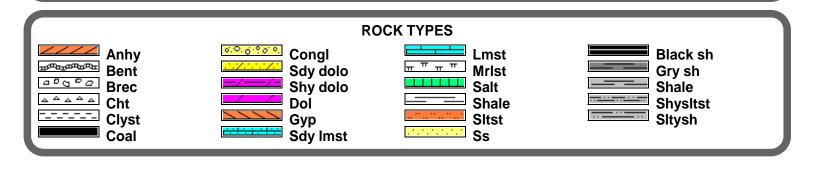
Board 4435.41' Strap 4438.69'

Strap long 3.28'.

Gas Detector: Woolsey Operating Company, Trailer #1 Mud System: Mud Co, Brad Bortz, Engineer DSTs: Trilobite Testing Logged by Superior Well Services. LTD - 4865'.

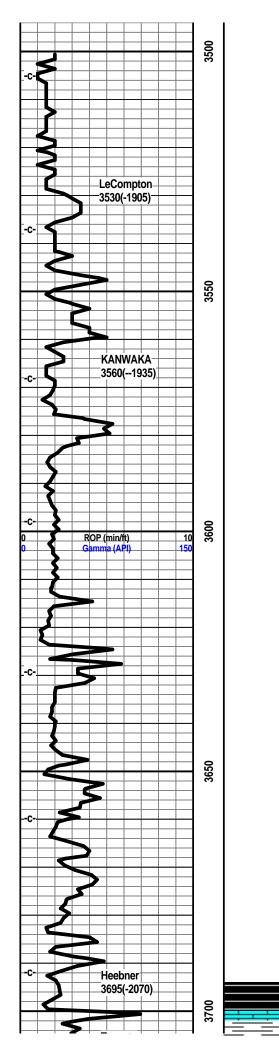
DST #1 4362 to 4423' Mississippi Times 30-60-60-120 1st Opening - Strong Blow BOB in 2 minutes - no blow back 2nd opening - Strong Blow, GTS 45 minutes - no blow back. IHP 2114# FHP 2090# IFP 39-60# FFP 75-96# ISIP 1070# FSIP 1076# Recovery: 100' SGOCM (15% g, 3% O, 82% M) 110' GOCM (25% g, 15% O, 60% M) Gas Gauge: 45 min 6.5 MCF 50 min 6.8 MCF 60 min 7.3 MCF DST #2 4424 to 4481' Mississippi Times 30-60-60-120 1st Opening - Strong Blow BOB 30 Seconds, GTS 30 min - Weak 1/4" blow back 2nd Opening - Strong Blow BOB immediately, GTS immediately. Fair 4" blow back IHP 2151# FHP 2137# IFP 55-109# FFP 76-212# ISIP 1342# FSIP 1313# Recovery: 300' GO (20% G, 80% O), 60' MC&GCO (20% G, 65% O, 15%M), 30' MC&GCWO (20% G, 40% O, 25% W, 15% M) Chlorides 95,000 ppm, 36 degree Gravity. Gas Gauge 5 min 8.5 MCF 10 min 9.7 MCF 20 min 13.0 MCF 30 min 15.5 MCF 40 min 19.6 MCF 50 min 21.7 MCF 60 min 23.8 MCF **CREWS** Hardt Drilling, Inc Rig #1

Tool Pusher - Scott Adelhardt Drillers - Days - Steve Myers Evening - Jody Divine Morning - Billy Maas



DSTs

		ACCESSORIES		
MINERAL ✓ Anhy ✓ Arg B Bent ✓ Bit ✓ Bit ✓ Bit ✓ Brecfrag ✓ Calc ✓ Carb ▲ Chtdk ✓ Chtlt ✓ Dol ● Ferrpel ✓ Glau ✓ Gyp ✓ Marl ● Nodule ● Phos 戶 Pyr ✓ Salt ✓ Sandy ✓ Silt	 Chlorite Dol Sand Slty FOSSIL Algae Algae Algae Belm Bioclst Brach Bryozoa Cephal Coral Coral Crin Echin Fish Fossil Gastro Oolite Ostra 	▼ Pelec ∅ Pellet ∅ Plant ∅ Plant ∅ Fuss ₀ Oomoldic STRINGER Anhy △ Arg ◙ Dol ⊠ Gyp Ls T ™ Sitstrg ∑ Ssstrg Carbsh Clystn Dol Dol	Grysh Gryslt Lms Sandylms Sh Sltstn TEXTURE Boundst C Chalky C Cryxln B Earthy FX Finexln Grainst L Lithogr Microxln Mudst Packst Wackest	
Curve Track 1 ROP (min/ft) Gamma (API)	July 18, July 19, July 20, July 21, July 22, July 23, July 24, July 25, July 26, July 27, July 28, July 28, July 29,	Geological Descriptions	TG, C1-C5 TG (units) C2 (units) C3 (units) C5 (units) C5 (units)	



Shale, black, grey, carb. Limestone, grey-white, xln, dense.

