Confidentiality Requested: Yes No

#### KANSAS CORPORATION COMMISSION **OIL & GAS CONSERVATION DIVISION**

1220944

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 Dorth / 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:	
Wellsite Geologist:	
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
	Elevation: Ground: Kelly Bushing:
	Total Vertical Depth: Plug Back Total Depth:
CM (Cool Red Mathema)	Amount of Surface Pipe Set and Cemented at: Feet
$\Box$ Control (Coal Bed Methane)	Multiple Stage Cementing Collar Used? Yes No
If Workover/Be-entry: Old Well Info as follows:	If ves, show depth set:
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to: w/ sx cmt
Original Comp. Date: Original Total Depth:	
	Duilling Fluid Management Disp
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 Two	1220944				
Operator Name:	Lease Name:	Well #:				
Sec TwpS. R East _ West	County:					
INCTRUCTIONS: Chain important tang of formations paratrated Da	tail all aaraa Danart all final	appiag of drill stamp tasts giving interval tastad, time task				

**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		og Formatio	on (Top), Depth ar	nd Datum	Sample	
Samples Sent to Geolog	gical Survey	Yes No	Nam	e		Тор	Datum	
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No						
List All E. Logs Run:								
		CASING Report all strings set-o	RECORD Ne	w Used ermediate, product	ion, etc.			
Purpose of String	Purpose of String         Size Hole         Size Casing         Wei           Drilled         Set (In O.D.)         Lbs.				Type of Cement	# Sacks Used	Type and Percent Additives	
		ADDITIONAL	CEMENTING / SQU	EEZE RECORD				
Purpose:	Depth	Trace of Ocean ant	III On also I land		Turne and D			

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

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

Yes	No
Yes	No
Yes	No

(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/Type Specify Footage of Each Interval Perforated				٨	Depth				
TUBING RECORD:	Siz	ze:	Set At:		Packe	r At:	Liner Ru	un:	No	
Date of First, Resumed	I Producti	ion, SWD or ENHF	ł.	Producing N	/lethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bbl	S.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
									I	
DISPOSITION OF GAS:			METHOD OF COMPLETIC			TION:		PRODUCTION INT	ERVAL:	
Vented Solo	d 🗌 l	Used on Lease		Open Hole	Perf.	Dually	Comp.	Commingled		
(If vented, Su	ıbmit ACC	D-18.)	(Submit A					(Submit ACO-4)		



### 10244 NE Hwy. 61 P.O. Box 8613 Pratt, Kansas 67124 Phone 620-672-1201

### FIELD SERVICE TICKET 1718 10770 A

THEODE		IN COLOR VVII ILLEII VL					DATE TICKET NO
DATE OF 7-9	14 0	DISTRICT	20				
CUSTOMER LD Drilling Inc					LEASE 3	-1-1-1	WELL NO. 2-12
ADDRESS					COUNTY	ooks	STATE KS
CITY STATE						NEW 2	at lement
AUTHORIZED BY	D				JOB TYPE:	8 3/8	Suiface - CNW
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQU	JIPMENT#	HRS	TRUCK CALLED DATE AM TIME
28443	1						ARRIVED AT JOB 7-9-14 AM 4.00
77686 19905							START OPERATION 7-9-14 AM 7:30
19831 19860							FINISH OPERATION 7- 9-14 AM 7:50
							RELEASED 7-9-14 AM 8:30
			1				MILES FROM STATION TO WELL

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered). The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP. / horocas 1 4 SIGNED:\_

(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
1+103	60/40 POZ	SK	250		3000,000
The second s	We construct the second se	· · · ·			
Cr 102	Celled lake	16	63		233,10
11109	Calcum Chlonde	16	645		671.29
F:00	Word Mileaux Putrups, Vens, C.	urs MI	175	45°	743.77
EIGI	Heavy Equipment Mileage	MI	350		24 50.00
1-113	Pino 4 Bulk Delineye, Charge	TM	1881		4130,79
CE 700	Dipth Charge 0-500	4/1/5			1000,00
LE 2.40	Blendary & Mixing Service Chan	ge SK	250		- 390. a
					100
3013	Service Superinser Learge	ta			115,00
	and the second				
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					1
The second second					
					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
CHE	EMICAL / ACID DATA:			SUD TOTAL	
	SERVICE & E	QUIPMENT	%TA	X ON \$	
	MATERIALS		%ТА	X ON \$	
				TOTAL	C110.7 95
				JC1	7,192 00
	1	1			
SERVICE REPRESENTATIN	THE ABOVE MATERIAL AND ORDERED BY CUSTOMER A	SERVICE ND RECEIVE	D BY:	have the	-yo
EIELD SERVICE (		(WELL C	WNER OPERAT	OR CONTRACTOR OR	AGENT)



### TREATMENT REPORT

na int	Lease No	Sector Carto	A Marin Partie		Date		
0	Well #	-12	a kind	4	1 . 7-	9-14	
ut		Casing		oth	County P	op 5	State
face	CNW		Formati	on		Legal De	scription
PERFORA	TING DATA	FLUID	USED		TREA		RESUME
Shots/Ft		Acid			RATE PRE	SS	ISIP
From	То	Pre Pad		Max			5 Min.
From	То	Pad	alle e V carrote and an	Min	a a star an	-legislari (m. 1963) 1	10 Min.
From	То	Frac		Avg			15 Min.
From	То			HHP Use	t t		Annulus Pressure
From	То	Flush		Gas Volu	ne		Total Load
in an arts	Statio	n Manager	un 1	revelley	Treater	041 6	heaves
905 16G	31					6.663	
ARC Je	11.		an fight Girl			128-14	
ibing ssure Bbl	s. Pumped	Rate			Serv	ice Log	
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St. Date -	North Rest.	i and a straight stra	AND STREET	1015 11 P.00	All and	and the second second	at a second second
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S. Sec. 1	AND	2 2 1 Ward	e risk en			2	100
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	Image: state stat	Image: state stat	Image: Casing factor     Casing factor       Factor     Image: Comparison of the second seco	Image: Casing State     Dest       Formati     Formati       PERFORATING DATA     FLUID USED       Shots/Ft     Acid       From     To       Station Manager     Control       Station Manager     Control <tr< td=""><td>Casing     Depth       Act     CNW       PERFORATING DATA     FLUID USED       Shots/Ft     Acid       From     To       Flush     Gas Volut       Station Manager     Gas Volut       Station     Gas Volut</td><td>Image: Casing State     Depth     County       Jacc     Image: Casing State     Formation       PERFORATING DATA     FLUID USED     TREA       Shots/Ft     Acid     RATE     PRE       From     To     Pre Pad     Max     Premain State       From     To     Pre Pad     Max     Premain State       From     To     Prace     Avg     Premain State       From     To     Frac     Avg     Premain State       From     To     Frac     Avg     Premain State       From     To     Flush     Gas Volume     State       Station Manager     Freeday     Treater State     State       State     State     State     State     State       State<td>Image: Casing of Formation     County formation       Formation     Legal De       PERFORATING DATA     FLUID USED     TREATMENT F       Shots/Ft     Acid     RATE     PRESS       From     To     Pre Pad     Max     Image: Casing of the state of the state</td></td></tr<>	Casing     Depth       Act     CNW       PERFORATING DATA     FLUID USED       Shots/Ft     Acid       From     To       Flush     Gas Volut       Station Manager     Gas Volut       Station     Gas Volut	Image: Casing State     Depth     County       Jacc     Image: Casing State     Formation       PERFORATING DATA     FLUID USED     TREA       Shots/Ft     Acid     RATE     PRE       From     To     Pre Pad     Max     Premain State       From     To     Pre Pad     Max     Premain State       From     To     Prace     Avg     Premain State       From     To     Frac     Avg     Premain State       From     To     Frac     Avg     Premain State       From     To     Flush     Gas Volume     State       Station Manager     Freeday     Treater State     State       State     State     State     State     State       State <td>Image: Casing of Formation     County formation       Formation     Legal De       PERFORATING DATA     FLUID USED     TREATMENT F       Shots/Ft     Acid     RATE     PRESS       From     To     Pre Pad     Max     Image: Casing of the state of the state</td>	Image: Casing of Formation     County formation       Formation     Legal De       PERFORATING DATA     FLUID USED     TREATMENT F       Shots/Ft     Acid     RATE     PRESS       From     To     Pre Pad     Max     Image: Casing of the state

10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • (620) 672-1201 • Fax (620) 672-5383



#### FIELD SERVICE TICKET 1718 10788 А

				DATE TICKET NO						
DATE OF 7-	18-14	ISTRICT Prat	<del>7</del>					CUSTOMER ORDER NO.:		
CUSTOMER LD Drilling inc					LEASE	B-07	TY		WELL NO.	2-12
ADDRESS					COUNTY	Roo	KS	STATE	И	
CITY	SERVICE C	DREW M	ATTA MC	1 m, 8/	3501, hranson	, sc				
AUTHORIZED BY					JOB TYPE:	cnu	v Longs	(rin) 2	5775-5-8	
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQ	JIPMENT#	HAS	TRUCK CALL	ED	DATE AN TIN	VIE
37580	3.5	19 826/19864	2.0-				ARRIVED AT	JOB	112 mg 4	100
33708/19905	3.5	11000/11000					START OPER	ATION 7-1	5-14 PM 318	55
						-	FINISH OPER	ATION	PM 7:	20
19831 19862	3.5						RELEASED		14 m	IS
							MILES FROM	STATION TO V	NELL 175	

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandlse is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

REF. NO.	MATERIAL, EQUIPMENT AND SERVICE	ES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUN	NT .
CPIUOC	common ent		SK	200	105	\$2.00	00
CP 101	A-con BLEAR		81	330	alle Alle	5,940	00
CC LUZ	Collofinky		16	87		307	10
CC 109	CALCUM Chloring		15	933		979	65
CC 111	SALT		16	823		411	50
cc 130	C-51		16	38		950	00
CCZUL	Sulsonite		1.6	1000		670	00
CF400	TWO STAGE CAT COLLAN	41/2	en-	1		4500	00
CF 600	LATCH DOWN PWy + BARty	442	er	1		720	s
CF 1250	ANTO FULL FLOAT Shup	41/2	er	1		330	00
GF 1660	TUBULTEN	4 1/2	eA	8		680	00
CF 1900	BHUNET	41/2	eA	l		270	00
CF 2000	CMT Scrachen CABLETYPE	4/2	04	8		560	d)
CC 151	Mud Rush		941	1000		1,500	¢0
					SUB TQTAL		
CHEI	MICAL / ACID DATA:				101		
		SERVICE & EQUIF	PMENT	%TAX	ON \$		
		MATERIALS		%TAX	ON \$		
					TOTAL		
					I		1

THE ABOVE MATERIAL AND SERVICE

FIELD SERVICE ORDER NO.

REPRESENTATIVE Mike MATTAT

ORDERED BY CUSTOMER AND RECEIVED BY: X (.), Datis By D 5 cott (Well OWNER OPERATOR CONTRACTOR OR AGENT)

SERVICE

(I) PRES		SIC * 102 P.C Pro SERVICES Pho NG & WIRELINE	244 NE Hwy. 61 ). Box 8613 att, Kansas 67124 one 620-672-1201	Conti	<mark>ላ ५                                   </mark>	FIELD SERVIC 1718-10 DATE TICKET NO.	се тіскет <del>789∽</del> А 789		
JOB 7-18	-14 0	STRICT Prat	7-				CUSTOMER ORDER NO.:		
CUSTOMER LD Drilling inc					LEASE BETTY WELL NO. 2-14				
ADDRESS				COUNTY	COUNTY ROOKS STATE 65				
CITY		STATE		SERVICE C	SERVICE CREW				
AUTHORIZED BY				JOB TYPE: CINIL- LOWESTRANC					
EQUIPMENT#	HRS	EQUIPMENT#	HRS EC	UIPMENT#	HRS	TRUCK CALLED	DATE AM PM	TIME	
						ARRIVED AT JOB	AM PM		
					-	START OPERATION	AM PM		
						FINISH OPERATION	AM PM		
						RELEASED	AM PM		
						MILES FROM STATION TO	WELL		

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered). The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

### (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SER	VICES USED	UNIT	QUANTITY		\$ AMOUN	Т
5100	P.u. Mily		mo	175		743	75
E 101	Heavy eq- miles		Mo	525		3.675	00
F 113	Prop + Bulk Del		TM	4366		9.605	75
Ce 204	Depth Chippe 3001-46	No0'	4.60	. I.		2,160	00
Ce240	BLOND + MIN Charlos		SK	530		742	00
ce 202	DEPT CHARGE 1001-2000	٢	441	1		1500	w
CC 504	Plug CONT		510	t		2,50	00
5003	SURA VISU		er			175	00
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СНЕ					SUB TOTAL	27676	22
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	(), (), (), (), (), (), (), (), (), (),						
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REPRESENTATIVE Milk MATTAL	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: X L.D. Davis BY D Scott

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)



### LOF Z TREATMENT REPORT

Customer	DO	1.5	line	1	Lease No.						Date					
Lease	sase Betty Well #					Z	2-12			- 1-18-14						
Field Order	Statio	n f	rat	t⊷			Casing	51/2	Depth	360	County	ROO	ins	and the second second	State	rs
Type Job C	nw lo	ng	STA	Ing	2 574	+J-e		For	mation				Legal D	escription -	6-	18
PIF	E DATA		PERI		G DATA		FLUID	USED			Т	REAT	MENT	RESUME		
Casing Size	L Tubing Si	ize	Shots/F	it	_	Acto	200	54	1 (0)	maria	PATE	PRES	S~#	JSIP	. 2	SI NCA
Depth 335	Depth		From	То		Pre	Pady 30	50	5 C	Max	39	C.	Yur	5 Min.		
Volume	Volume		From	То		Pad			*	Min			<u></u> _¥S	10 Min.		
Max Press	Max Pres	is l	From	То		Frac				Avg				15 Min,		
Well Connect	ion Annulus \	Vol.	From	То						HHP Used				Annulus I	Pressure	,
Plug Depth	5 Packer D	epth	From	То		Flus	30/2°	Ն	22	Gas Volum	ne			Total Loa	d	
Customer Re	presentative	L.	D		Station	n Mana	<sup>ger</sup> Ko	vin	Go	10 mg	Treat	er /	hike	MATT	A	
Service Units	37580			Ace	SIAN			9	iß	son			49	noon		
Driver Names	MATTAL		bing	33708	1990	15		198	31	1.9862	-		6982	6 198	50	
Time	Pressure	Pre	ssure	Bbis. Pu	mped	F	late					Service	e Log		_	
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Taylor Printing, Inc. 620-672-3656





TREATMENT REPORT

Customer L	0 0	rillyn	4	Lease No.	ease No.				Date	16	1.	
Lease Betty				Well# Z-12				7 1-18-14				
Field Order # Station					Casing	Depth Cour		County & J	ons		State	
Type Job C	$\mathbf{k}$	Long	string	2	STA	se	Formatio	n		Legal De	scription	-6-18
PIPE	DATA	PERI	ORATIN	IG DATA		FLUID U	ISED		TRE	ATMENT I	RESUME	
Casing Size	Tubing Siz	e Shots/F	t		Acid			1	RATE PR	ESS	ISIP	
Depth	Depth	From	т	<b>b</b>	Prel	Pad		Мах			5 Min.	
Volume	Volume	From	Te	o	Pad			Min			10 Min.	
Max Press	Max Press	From	Т	2	Frac	E.		Avg			15 Min.	
Well Connection	Annulus Vo	ol. From	Т	D .				HHP Used	d l		Annulus F	Pressure
Plug Depth	Packer De	pth From	Ta	>	Flus	h		Gas Volur	ne		Total Loa	d
Customer Repre	esentative			Station	1 Mana	ger .		_	Treater			
Service Units											_	
Driver Names												
Time	Casing Pressure	Pressure	Bbis, P	umped	F	Rate			Ser	vice Log	·	~ ~ ~ ~
7:10	1500	1	2	2			Pluy	DOWN	, releas	nn + h	ell c	MT TO Shi
7:15		5					Plug	(ATh	ore			
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#### DIAMOND TESTING P.O. Box 157 HOISINGTON, KANSAS 67544 (800) 542-7313 DRILL-STEM TEST TICKET FILE: <u>BTTY2-12DST1</u>

TIME ON: 2340 (7/13)

TIME OFF: 0745 (7/14)

Company L.D. DRILLING, INC.	Lease & Well No. BETTY #2-12
Contractor SKYTOP DRILLING, LLC. RIG 1	Charge to L.D. DRILLING, INC.
Elevation1894 GL EST. FormationLOWER TOPEK	A Effective PayFt. Ticket NoM673
Date 7/13/2014 Sec. 12 Twp. 6 S R	ange18 W County ROOKS State KANSAS
Test Approved By LOGAN WALKER	Diamond Representative MIKE COCHRAN
Formation Test No. 1 Interval Tested from 29	955 ft. to 2996 ft. Total Depth 2996 ft.
Packer Depth 2950 ft. Size 6 3/4 in.	Packer depth NA ft. Size 6 3/4 in.
Packer Depth 2955 ft. Size6 3/4 in.	Packer depth NA ft. Size 6 3/4 in.
Depth of Selective Zone Set	
Top Recorder Depth (Inside) 2942 ft.	Recorder Number0063_Cap6,000 P.S.I.
Bottom Recorder Depth (Outside) 2957 ft.	Recorder NumberE1150 Cap5,000 P.S.I.
Below Straddle Recorder Depthft.	Recorder Number Cap P.S.I.
Mud TypeCHEMViscosity	Drill Collar Length 143 ft. I.D 2 1/4 ir
Weight Water Loss 7.2cc.	Weight Pipe Length0_ft. I.D2 7/8 ii
Chlorides 600 P.P.M.	Drill Pipe Length 2785 ft. I.D 3 1/2 ii
Jars: Make STERLING Serial Number SAFTEY JT	Test Tool Length 27 ft. Tool Size 3 1/2-IF ir
Did Well Flow? NO Reversed Out NO	Anchor Length 41 ft. Size4 1/2-FH i
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in.	(31 DP) Surface Choke Size1 in. Bottom Choke Size_5/8 in
Blow: 1st Open: WSB, INCREASED TO 1"	(NO BB)
2nd Open: VWSB THAT DIED AFTER 20 MIN.	(NO BB)
Recovered 30 ft. of VSOSDM 100% DRLG MUD W/ A VERY	THIN SCUM OF OIL
Recovered 30 ft. of TOTAL FLUID	
Recovered ft. of	
Recovered ft. of	
Recoveredft. of	Price Job
Recoveredft. of	Other Charges
Remarks:	Insurance
TOOL SAMPLE: 1% OIL, 99% MUD	Total
Time Set Packer(s) 3:45 A.M. P.M. Time Started Off Bo	ottom5:45 A.MP.MMaximum Temperature95°F
Initial Hydrostatic Pressure	(A) 1397 P.S.I.
Initial Flow Period	(B) 7 P.S.I. to (C) 17 P.S.I.
Initial Closed In Period	(D)993 P.S.I.
Final Flow Period	(E) 18 P.S.I. to (F) 27 P.S.I.
Final Closed In Period	(G) 965 P.S.I.
Final Hydrostatic Pressure	(H) 1389 P.S.I.

Diamond Testing shall not be liable for damages of any kind to 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 statement or opinion concerning the result 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.

# DIAMOND TESTING

#### **Pressure Survey Report**

#### **General Information**

Company Name	L.D. DRILLING, INC.	Job Number	M673
Well Name	BETTY #2-12	Representative	MIKE COCHRAN
Unique Well ID	DST#1 2955-2996 LOWER TOPEKA	Well Operator	L.D. DRILLING, INC.
Surface Location	SEC.12-6S-18W ROOKS CO.KS.	Report Date	2014/07/14
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	LOGAN WALKER
		Test Unit	NO. 3

#### **Test Information**

Test Type	CONVENTIONAL
Formation	DST#1 2955-2996 LOWER TOPEKA
Test Purpose (AEUB)	Initial Test

Start Test Date	2014/07/13 Start Test Time	23:40:00
Final Test Date	2014/07/14 Final Test Time	07:45:00
	Well Fluid Type	01 Oil

0063

Gauge Name Gauge Serial Number

#### Test Results

Remarks RECOVERED:

30' VSOSDM 100% DRLG MUD W/ A VERY THIN SCUM OF OIL 30' TOTAL FLUID

TOOL SAMPLE: 1% OIL, 99% MUD

#### L.D. DRILLING, INC. DST#1 2955-2996 LOWER TOPEKA Start Test Date: 2014/07/13 Final Test Date: 2014/07/14



BETTY #2-12 Formation: DST#1 2955-2996 LOWER TOPEKA Pool: WILDCAT Job Number: M673

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#### DIAMOND TESTING P.O. Box 157 HOISINGTON, KANSAS 67544 (800) 542-7313 DRILL-STEM TEST TICKET FILE: <u>BTTY2-12DST2</u>

TIME ON: 2350 (7/14)

TIME OFF: 0700 (7/15)

Company L.D. DRILLING, INC.			Lease & Well No. B	ETTY #2-12		
Contractor_SKYTOP DRILLING,LLC	C. RIG 1		Charge to L.D. DRI	LING, INC.		
Elevation 1894 GL EST. Forma	tion TORONTO LA	NSING A,B,	DEffective Pay	Ft.	Ticket No	M674
Date 7/15/2014 Sec. 12	Twp	<u>6</u> S R	ange	18 W CountyR	OOKS S	tate KANSAS
Test Approved By LOGAN WALKER			_ Diamond Representati	veMIKE	COCHR	AN
Formation Test No. 2 Ir	terval Tested from	30	034 ft. to	3130 ft. Total Dep	oth	3130 ft.
Packer Depth 3029 ft.	Size6 3/4	in.	Packer depth	NA ft.	Size 6 3	1/4 in.
Packer Depth 3034 ft.	Size6 3/4	in.	Packer depth	NA ft.	Size 6 3	//4 in.
Depth of Selective Zone Set						
Top Recorder Depth (Inside)	÷	3021 <sub>ft.</sub>	Recorder Number_	0063 Cap	i	6,000 p.s.i.
Bottom Recorder Depth (Outside)		3036 <sub>ft.</sub>	Recorder Number_	E1150 Ca	o	5,000 P.S.I.
Below Straddle Recorder Depth		ft.	Recorder Number_	Cap	G	P.S.I.
Mud Type CHEM Viscosit	y60		Drill Collar Length_	143 ft.	I.D	<u>2 1/4</u> in
Weight 9.1 Water Loss	6.2	CC.	Weight Pipe Length	0 <sub>ft.</sub>	I.D	2 7/8 ir
Chlorides	600	P.P.M.	Drill Pipe Length	2864 <sub>ft.</sub>	I.D	3 1/2 in
Jars: Make STERLING Serial Nu	mberSAFT	EY JT	Test Tool Length	27 <sub>ft.</sub>	Tool Size	3 1/2-IF in
Did Well Flow? NO Rev	ersed Out	NO	Anchor Length	96 <sub>ft.</sub>	Size	4 1/2-FH ir
Main Hole Size 7 7/8 Too	Joint Size 4 1/2	2 XH _in.	(60' DP) Surface Choke Size	1in.	Bottom Choi	ke Size_5/8_ir
Blow: 1st Open: SSB, BUILT TO	11½"		(NO BB)			
2nd Open: GSB, BOB 33 MII	Ν		(1" BB)			1
Recovered 275 ft. of GIP		GRA	VITY:37.3 @ 60°			
Recovered 66 ft. of CO 100% O	IL					
Recovered114 ft. of GOCM 129	% GAS, 32% OIL	, 56% MU	D			
Recovered 180 ft. of TOTAL FL	JID					
Recoveredft. of				Price	Job	
Recoveredft. of				Othe	r Charges	
Remarks:				Insur	ance	
TOOL SAMPLE: 4% GAS, 81% OIL, 1	5% MUD			Tota		
Time Set Packer(s) 1:30 A.M.	A.M. _P.M. Time St	arted Off Bo	ottom4:30 A.M.	A.M. P.M. Maximum	Temperatur	e 96°F
Initial Hydrostatic Pressure			(A)	1440 P.S.I.		
Initial Flow Period	Minutes	30	(B)	11_P.S.I. to (C)		57 <sub>P.S.I.</sub>
Initial Closed In Period	Minutes	45	(D)	1051 P.S.I.		
Final Flow Period	Minutes	45	(E)	63 P.S.I. to (F)		80 <sub>P.S.I.</sub>
Final Closed In Period	Minutes	60	(G)	1032 P.S.I.		
Final Hydrostatic Pressure			(H)	1436 <sub>P.S.I.</sub>		

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# DIAMOND TESTING

**Pressure Survey Report** 

#### **General Information**

Company Name	L.D. DRILLING, INC.	Job Number	M674
Well Name	BETTY #2-12	Representative	MIKE COCHRAN
Unique Well ID	DST#2 3034-3130 TORONTO LANSING A,B,D	Well Operator	L.D. DRILLING, INC.
Surface Location	SEC.12-6S-18W ROOKS CO.KS.	Report Date	2014/07/15
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	LOGAN WALKER
		Test Unit	NO. 3

#### **Test Information**

Test Type	CONVENTIONAL
Formation	DST#2 3034-3130 TORONTO LANSING A,B,D
Test Purpose (AEUB)	Initial Test

Start Test Date	2014/07/14 Start Test Time	23:50:00
Final Test Date	2014/07/15 Final Test Time	07:00:00
	Well Fluid Type	01 Oil

Gauge Name Gauge Serial Number 0063

#### **Test Results**

Remarks RECOVERED:

275' GIP 66' CO 100% OIL 114' GOCM 12% GAS, 32% OIL, 56% MUD 180' TOTAL FLUID

GRAVITY: 37.3 @ 60 DEG

TOOL SAMPLE: 4% GAS, 81% OIL, 15% MUD

#### L.D. DRILLING, INC. DST#2 3034-3130 TORONTO LANSING A,B,D Start Test Date: 2014/07/14 Final Test Date: 2014/07/15

BETTY #2-12 Formation: DST#2 3034-3130 TORONTO LANSING A,B,D Pool: WILDCAT Job Number: M674





#### DIAMOND TESTING P.O. Box 157 HOISINGTON, KANSAS 67544 (800) 542-7313 DRILL-STEM TEST TICKET FILE: <u>BTTY2-12DST3</u>

TIME ON: 1925 (7/15)

TIME OFF: 0305 (7/16)

Company_L.D. DRILLING, INC.		Lease & Well No. BE	ETTY #2-12			
Contractor SKYTOP DRILLING, LLC. RIG 1		Charge to_L.D. DRIL	LING, INC.			
Elevation1894 GL EST Formation	LANSING	F/G Effective Pay		Ft. Ticke	t No	M675
Date 7/15/2014 Sec. 12 Twp.	<u>6</u> S	Range1	8 W County	ROOKS	State_	KANSAS
Test Approved By LOGAN WALKER		Diamond Representation	veMI	KE COC	HRAN	
Formation Test No. 3 Interval Teste	d from	3130 ft. to	3200 ft. Total I	Depth		3200 ft.
Packer Depth 3125 ft. Size6	3/4 in.	Packer depth	NA	ft. Size	6 3/4	in.
Packer Depth 3130 ft. Size6	3/4 in.	Packer depth	NA	ft. Size_	6 3/4	in.
Depth of Selective Zone Set						
Top Recorder Depth (Inside)	3117 <sub>ft.</sub>	Recorder Number	0063 (	Сар	6,00	0 P.S.I.
Bottom Recorder Depth (Outside)	3132 <sub>ft.</sub>	Recorder Number	E1150	Сар	5,00	<sup>00</sup> P.S.I.
Below Straddle Recorder Depth	ft.	Recorder Number	(	Сар		P.S.I.
Mud TypeCHEMViscosity	55	Drill Collar Length	143 ft	. I.D	2 1	/4in.
Weight 9.2 Water Loss	6.0	c. Weight Pipe Length	0 <sub>f</sub>	t. I.D	2 7	/8 ir
Chlorides	1,000 P.P.M.	Drill Pipe Length	2960 <sub>f</sub>	t. I.D	3 1	/2 in
Jars: MakeSTERLINGSerial Number	SAFTEY JT	Test Tool Length	27 <sub>ft</sub>	. Tool Si	ze31	/2-IF in
Did Well Flow? NO Reversed Out	NO	Anchor Length	70 <sub>f</sub>	t. Size	4 1	/2-FH ir
Main Hole Size 7 7/8 Tool Joint Size	4 1/2 XH in	(32' DP) Surface Choke Size	1ir	. Bottom	Choke Si	ize_5/8_in
Blow: 1st Open: WSB, INC. TO 2"		(NO BB)		_		
<sup>2nd Open:</sup> VWSB, INC. TO 3"		(NO BB)				Λ.
Recovered 30 ft. of GIP	GR	AVITY: 33.4 @ 60°				
Recovered 33 ft. of CO 100% OIL						
Recovered 77 ft. of GOCM 10% GAS, 339	% OIL, 57% M	UD				
Recovered110 ft. ofTOTAL FLUID		2				
Recoveredft. of			Р	rice Job		
Recoveredft. of			C	ther Charg	es	
Remarks:			Ir	surance		
TOOL SAMPLE: 2% GAS, 26% OIL, 72% MUD			T	otal		
Time Set Packer(s) 10:00 P.M. P.M. T	ime Started Off	Bottom 1:00 A.M.	P.M. Maxim	um Tempe	erature	96°F
Initial Hydrostatic Pressure		(A)	1484 P.S.I.			
Initial Flow Period Minute	s30	)(B)	9 P.S.I. to (0	C)	32	P.S.I.
Initial Closed In Period Minute	es45	(D)	912 P.S.I.			
Final Flow Period Minute	es45		36 P.S.I. to (F	)	56 <sub> </sub>	P.S.I.
Final Closed In PeriodMinute	s60	)(G)	885 P.S.I.			
Final Hydrostatic Pressure		(H)	1484 <sub>P.S.I.</sub>			

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# DIAMOND TESTING

**Pressure Survey Report** 

#### **General Information**

Company Name	L.D. DRILLING, INC.	Job Number	M675
Well Name	BETTY #2-12	Representative	MIKE COCHRAN
Unique Well ID	DST#3 3130-3200 LANSING F/G	Well Operator	L.D. DRILLING, INC.
Surface Location	SEC.12-6S-18W ROOKS CO.KS.	Report Date	2014/07/16
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	LOGAN WALKER
		Test Unit	NO. 3

#### **Test Information**

Test Type	CONVENTIONAL
Formation	DST#3 3130-3200 LANSING F/G
Test Purpose (AEUB)	Initial Test

Start Test Date	2014/07/15 Start Test Time	19:25:00
Final Test Date	2014/07/16 Final Test Time	03:05:00
	Well Fluid Type	01 Oil

0063

Gauge Name Gauge Serial Number

#### Test Results

Remarks RECOVERED:

30' GIP 33' CO 100% OIL 77' GOCM 10% GAS, 33% OIL, 57% MUD 110' TOTAL FLUID

GRAVITY: 33.4 @ 60 DEG

TOOL SAMPLE: 2% GAS, 26% OIL, 72% MUD

#### L.D. DRILLING, INC. DST#3 3130-3200 LANSING F/G Start Test Date: 2014/07/15 Final Test Date: 2014/07/16





**BETTY #2-12** 



#### DIAMOND TESTING P.O. Box 157 HOISINGTON, KANSAS 67544 (800) 542-7313 DRILL-STEM TEST TICKET FILE: <u>BTTY2-12DST4</u>

TIME ON: 1925 (7/16)

TIME OFF: 0415 (7/17)

Company L.D. DRILLING, INC.	Lease & Well No. BETTY #2-12	
Contractor SKYTOP DRILLING, LLC. RIG 1	Charge to L.D. DRILLING, INC.	
Elevation1894 GL EST. Formation LANSING H,I,	,K,L Effective Pay	Ft. Ticket No. M676
Date 7/16/2014 Sec. 12 Twp. 6 S	Range18 W County_	ROOKS State KANSAS
Test Approved By LOGAN WALKER	Diamond Representative	MIKE COCHRAN
Formation Test No. 4 Interval Tested from	3194 ft. to 3304 ft. To	otal Depth 3304 ft.
Packer Depth 3189 ft. Size6 3/4 in.	Packer depth	NA ft. Size 6 3/4 in.
Packer Depth 3194 ft. Size6 3/4 in.	Packer depth	NA_ft. Size6 3/4in.
Depth of Selective Zone Set		
Top Recorder Depth (Inside) 3181 ft.	Recorder Number00	63 Cap. 6,000 P.S.I.
Bottom Recorder Depth (Outside) 3196 ft.	Recorder Number E11	50 Cap. 5,000 P.S.I.
Below Straddle Recorder Depthft.	Recorder Number	Cap P.S.I.
Mud TypeCHEMViscosity	Drill Collar Length 14	<u>43 ft. I.D. 2 1/4 in.</u>
Weight Water Loss 7.6	cc. Weight Pipe Length	0 ft. I.D. 2 7/8 in
Chlorides 1,000 P.P.M.	Drill Pipe Length 30.	24 ft. I.D. <u>3 1/2</u> in
Jars: Make STERLING Serial Number SAFTEY JT	Test Tool Length	27 ft. Tool Size <u>3 1/2-IF</u> in
Did Well Flow? NO Reversed Out NO	Anchor Length 1	10_ft. Size4 1/2-FHir
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH i	n. Surface Choke Size 1	in. Bottom Choke Size5/8in
Blow: 1st Open: WSB, INCREASE TO 11/4"	(NO BB)	
<sup>2nd Open:</sup> VWSB, INCREASE TO ¼"	(NO BB)	
Recovered 25 ft. of VSOSDM 100% MUD W/ A THIN SCU	M OF OIL, SLIGHT ODOR	
Recovered 25 ft. of TOTAL FLUID		
Recoveredft. of		
Recoveredft. of		r
Recoveredft. of		Price Job
Recoveredft. of		Other Charges
Remarks:		Insurance
		-
TOOL SAMPLE: 100% MUD W/ A VERY THIN SCUM OF OIL	AM	lotal
Time Set Packer(s) 9:45 P.M. P.M. Time Started Off	Bottom 11:45 P.M. P.M. M	aximum Temperature94°F
Initial Hydrostatic Pressure	(A)1532_P.S.I.	
Initial Flow Period Minutes 3	0 <sub>(В)</sub> 11 <sub>Р.S.I.</sub>	to (C) 21 P.S.I.
Initial Closed In Period Minutes3	0(D)770 P.S.I.	
Final Flow Period Minutes3	0 (E) 22 P.S.I.	to (F)P.S.I.
Final Closed In Period	0 (G) 761 P.S.I.	
Final Hydrostatic Pressure	(H) 1522 <sub>P.S.I.</sub>	

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# DIAMOND TESTING

#### **General Information**

Company Name	L.D. DRILLING, INC.	Job Number	M676
Well Name	BETTY #2-12	Representative	MIKE COCHRAN
Unique Well ID	DST#4 3194-3304 LANSING H,I,J,K,L	Well Operator	L.D. DRILLING, INC.
Surface Location	SEC.12-6S-18W ROOKS CO.KS.	Report Date	2014/07/17
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	LOGAN WALKER
		Test Unit	NO. 3

#### **Test Information**

Test Type	CONVENTIONAL
Formation	DST#4 3194-3304 LANSING H,I,J,K,L
Test Purpose (AEUB)	Initial Test

Start Test Date	2014/07/16 Start Test Time	19:25:00
Final Test Date	2014/07/17 Final Test Time	04:15:00
	Well Fluid Type	01 Oil

0063

Gauge Name Gauge Serial Number

#### Test Results

Remarks **RECOVERED**:

25' VSOSDM 100% MUD W/ A THIN SCUM OF OIL, SLIGHT ODOR 25' TOTAL FLUID

TOOL SAMPLE: 100% MUD W/ A VERY THIN SCUM OF OIL

#### L.D. DRILLING, INC. DST#4 3194-3304 LANSING H,I,J,K,L Start Test Date: 2014/07/16 Final Test Date: 2014/07/17





	OPERATOR			
Company:	L. D. Drilling, Inc. 7 SW 26th Ave			
	Great Bend, KS 67530			
Contact Geologist:	Kim Shoemaker			
Contact Phone Nbr:	316-772-2939			
Well Name:	Betty #2-12			
Location:	Sec. 12 - 165 - R18W 15-163-24207-0000			
Pool:	13-103-24207-0000	Field:	Faubion	
State:	Kansas	Country:	USA	
	Scale 1:240 Imperia	al		
Well Name:	Betty #2-12			
Surface Location:	Sec. 12 - T6S - R18W			
Bottom Location:	15 162 24207 0000			
License Number:	6039			
Spud Date:	7/9/2014	Time:	7:30 AM	
Region:	Rooks County			
Drilling Completed:	7/17/2014 200' ENIL & 220' EW/	l'ime:	12:00 AM	
Bottom Hole Coordinates:	SO FILL & SSO FWE			
Ground Elevation:	1890.00ft			
K.B. Elevation:	1897.00ft	-		
Logged Interval:	2700.00ft	lo:	3360.00ft	
Formation:	Lansing/Kansas City			
Drilling Fluid Type:	Chemical/Fresh Water Gel			
	SURFACE CO-ORDINA	ATES		
Well Type:	Vertical			
Longitude:				
Latitude:				
N/S Co-ord:	390' FNL 330' FM/			
L/W 00 010.	000 1 112			
		•_		
	LOGGED BY Keith Reav Consulting Greeke	is vict		
	LOGGED BY <b>Keith Reav</b> Consulting Geolog	<b>is</b> pist		
Company:	LOGGED BY Keith Reave Consulting Geolog Keith Reavis, Inc. 3420 22nd Street	i <b>s</b> gist		
Company: Address:	LOGGED BY Keith Reave Consulting Geolog Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530	<b>is</b> gist		
Company: Address:	LOGGED BY Keith Reave Consulting Geolog Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530	i <b>s</b> gist		
Company: Address: Phone Nbr:	LOGGED BY Keith Reave Consulting Geolog Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530 620-617-4091	is gist		
Company: Address: Phone Nbr: Logged By:	LOGGED BY Keith Reave Consulting Geolog Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530 620-617-4091 Logan Walker	<b>is</b> gist Name:		
Company: Address: Phone Nbr: Logged By:	LOGGED BY Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530 620-617-4091 Logan Walker CONTRACTOR	<b>is</b> gist Name:		
Company: Address: Phone Nbr: Logged By: Contractor: Big #:	LOGGED BY Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530 620-617-4091 Logan Walker CONTRACTOR Skytop Drilling 1	<b>is</b> gist Name:		
Company: Address: Phone Nbr: Logged By: Contractor: Rig #: Rig Type:	LOGGED BY Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530 620-617-4091 Logan Walker CONTRACTOR Skytop Drilling 1 mud rotary	<b>is</b> gist Name:		
Company: Address: Phone Nbr: Logged By: Contractor: Rig #: Rig Type: Spud Date:	LOGGED BY Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530 620-617-4091 Logan Walker CONTRACTOR Skytop Drilling 1 mud rotary 7/9/2014	<b>is</b> gist Name: Time:	7:30 AM	
Company: Address: Phone Nbr: Logged By: Contractor: Rig #: Rig Type: Spud Date: TD Date:	LOGGED BY Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530 620-617-4091 Logan Walker CONTRACTOR Skytop Drilling 1 mud rotary 7/9/2014 7/17/2014	<b>is</b> gist Name: Time: Time:	7:30 AM 12:00 AM	
Company: Address: Phone Nbr: Logged By: Contractor: Rig #: Rig Type: Spud Date: TD Date: Rig Release:	LOGGED BY Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530 620-617-4091 Logan Walker CONTRACTOR Skytop Drilling 1 mud rotary 7/9/2014 7/17/2014	is gist Name: Time: Time: Time: Time:	7:30 AM 12:00 AM	
Company: Address: Phone Nbr: Logged By: Contractor: Rig #: Rig Type: Spud Date: TD Date: Rig Release:	LOGGED BY Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530 620-617-4091 Logan Walker CONTRACTOR Skytop Drilling 1 mud rotary 7/9/2014 7/17/2014 ELEVATIONS	<b>is</b> gist Name: Time: Time: Time:	7:30 AM 12:00 AM	
Company: Address: Phone Nbr: Logged By: Contractor: Rig #: Rig Type: Spud Date: TD Date: Rig Release: K.B. Elevation:	LOGGED BY Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530 620-617-4091 Logan Walker CONTRACTOR Skytop Drilling 1 mud rotary 7/9/2014 7/17/2014 ELEVATIONS 1897.00ft	is gist Name: Time: Time: Time: Time:	7:30 AM 12:00 AM	
Company: Address: Phone Nbr: Logged By: Contractor: Rig #: Rig Type: Spud Date: TD Date: Rig Release: K.B. Elevation: K.B. to Ground:	LOGGED BY Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530 620-617-4091 Logan Walker CONTRACTOR Skytop Drilling 1 mud rotary 7/9/2014 7/17/2014 1897.00ft 1897.00ft 7.00ft Great	is gist Name: Time: Time: Time: Time: Time:	7:30 AM 12:00 AM 1890.00ft	
Company: Address: Phone Nbr: Logged By: Contractor: Rig #: Rig Type: Spud Date: TD Date: TD Date: Rig Release: K.B. Elevation: K.B. to Ground:	LOGGED BY Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530 620-617-4091 Logan Walker CONTRACTOR Skytop Drilling 1 mud rotary 7/9/2014 7/17/2014 1897.00ft 1897.00ft SKOTES	is gist Name: Time: Time: Time: Time:	7:30 AM 12:00 AM 1890.00ft	
Company: Address: Phone Nbr: Logged By: Contractor: Rig #: Rig Type: Spud Date: TD Date: TD Date: Rig Release: K.B. Elevation: K.B. to Ground: Due to positive results of DST #2	LOGGED BY Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530 620-617-4091 Logan Walker CONTRACTOR Skytop Drilling 1 mud rotary 7/9/2014 7/17/2014 ELEVATIONS 1897.00ft 7.00ft NOTES and DST #3, it was determined to	is gist Name: Time: Time: Time: Time: that 5 1/'2" produ	7:30 AM 12:00 AM 1890.00ft ction casing be set and cemented a	
Company: Address: Phone Nbr: Logged By: Contractor: Rig #: Rig Type: Spud Date: TD Date: TD Date: Rig Release: K.B. Elevation: K.B. to Ground: Due to positive results of DST #2 that the Betty #2-12 be further test	LOGGED BY Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530 620-617-4091 Logan Walker CONTRACTOR Skytop Drilling 1 mud rotary 7/9/2014 7/17/2014 ELEVATIONS 1897.00ft 1897.00ft Contes and DST #3, it was determined to ted through perforations and stim	is gist Name: Time: Time: Time: Time: bund Elevation: that 5 1/'2" produ nulation.	7:30 AM 12:00 AM 1890.00ft ction casing be set and cemented a	
Company: Address: Phone Nbr: Logged By: Contractor: Rig #: Rig Type: Spud Date: TD Date: TD Date: Rig Release: K.B. Elevation: K.B. to Ground: Due to positive results of DST #2 that the Betty #2-12 be further tes The gamma ray and caliper curve	LOGGED BY Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530 620-617-4091 Logan Walker CONTRACTOR Skytop Drilling 1 mud rotary 7/9/2014 7/17/2014 ELEVATIONS 1897.00ft 7.00ft NOTES and DST #3, it was determined to ted through perforations and stimes store the electrical log suite we	is gist Name: Time: Time: Time: Time: that 5 1/'2" produ nulation. ere imported into	7:30 AM 12:00 AM 1890.00ft ction casing be set and cemented a this mudlog. The samples were sa	and
Company: Address: Phone Nbr: Logged By: Contractor: Rig #: Rig Type: Spud Date: TD Date: TD Date: Rig Release: K.B. Elevation: K.B. to Ground: Due to positive results of DST #2 that the Betty #2-12 be further test The gamma ray and caliper curve and will be available for review at	LOGGED BY Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530 620-617-4091 Logan Walker CONTRACTOR Skytop Drilling 1 mud rotary 7/9/2014 7/17/2014 ELEVATIONS 1897.00ft Skytop Drilling 1 mud rotary 7/9/2014 Great Skytop Drilling 1 mud rotary 7/9/2014 T/17/2014 Skytop Drilling 1 mud rotary T/9/2014 T/17/2014 Skytop Drilling 1 mud rotary T/9/2014 T/17/2014 Skytop Drilling 1 mud rotary T/9/2014 T/17/2014 Skytop Drilling 1 Skytop	is pist Name: Time: Time: Time: Time: Time: that 5 1/'2" produ nulation. ere imported into Vell Sample Libr	7:30 AM 12:00 AM 1890.00ft ction casing be set and cemented a this mudlog. The samples were sa ary located in Wichita, KS.	
Company: Address: Phone Nbr: Logged By: Contractor: Rig #: Rig Type: Spud Date: TD Date: Rig Release: K.B. Elevation: K.B. to Ground: Due to positive results of DST #2 that the Betty #2-12 be further test The gamma ray and caliper curve and will be available for review at	LOGGED BY Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530 620-617-4091 Logan Walker CONTRACTOR Skytop Drilling 1 mud rotary 7/9/2014 7/17/2014 ELEVATIONS 1897.00ft 1897.00ft Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street	is gist Name: Time: Time: Time: Time: Dund Elevation: that 5 1/'2" produ nulation. ere imported into Well Sample Libr	7:30 AM 12:00 AM 1890.00ft ction casing be set and cemented a this mudlog. The samples were sa ary located in Wichita, KS.	and
Company: Address: Phone Nbr: Logged By: Contractor: Rig #: Rig Type: Spud Date: TD Date: TD Date: Rig Release: K.B. Elevation: K.B. to Ground: Due to positive results of DST #2 that the Betty #2-12 be further tes The gamma ray and caliper curve and will be available for review at Respectfully submitted, Logan Walker and Keith Results	LOGGED BY Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530 620-617-4091 Logan Walker CONTRACTOR Skytop Drilling 1 mud rotary 7/9/2014 7/17/2014 ELEVATIONS 1897.00ft Start Great Start Street Start Bend, KS 67530 Geological Survey W	is gist Name: Time: Time: Time: Time: that 5 1/'2" produ nulation. ere imported into Vell Sample Libr	7:30 AM 12:00 AM 1890.00ft ction casing be set and cemented a this mudlog. The samples were sa ary located in Wichita, KS.	and
Company: Address: Phone Nbr: Logged By: Contractor: Rig #: Rig Type: Spud Date: TD Date: TD Date: Rig Release: K.B. Elevation: K.B. to Ground: Due to positive results of DST #2 that the Betty #2-12 be further tes The gamma ray and caliper curve and will be available for review at Respectfully submitted, Logan Walker and Keith Reavis	LOGGED BY Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530 620-617-4091 Logan Walker CONTRACTOR Skytop Drilling 1 mud rotary 7/9/2014 7/17/2014 ELEVATIONS 1897.00ft 1897.00ft Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street Street	is gist Name: Time: Time: Time: Time: Dund Elevation: that 5 1/'2" produ nulation. ere imported into Well Sample Libr	7:30 AM 12:00 AM 1890.00ft ction casing be set and cemented a this mudlog. The samples were sa ary located in Wichita, KS.	

#### daily drilling report

DATE	7:00 AM DEPTH	REMARKS
07/12/2014		Geologist Logan Walker on location @ 1902 hrs, 2657 ft, drilling ahead
07/13/2014	2873	drilling ahead, shows in the lower Topeka warrants test, mud problems, TOH w/bit
07/14/2014	2996	TIH w/tool, conduct and complete DST #1, successful test, TOH w/tool, TIH w/bit resumed drilling Heebner, Lansing A - D, show warrants test, TOH w/bit for DST #2
07/15/2014	3130	TIH w/tool, conduct and complete DST #2, successful test, TIH w/bit resumed drilling F - G, show warrants test, TOH w/bit for DST #3 TIH w/tool, conducting DST #3
07/16/2014	3216	conduct and complete DST #3, successful test, TOH w/tool, TIH w/bit, resume drilling H - L, TOH w/bit, TIH w/tool, conduct and complete DST #4 successful test
07/17/2014	3330	TOH w/tool, TIH W/ Bit, resume drilling, TD @3360' 0817hrs

## L.D. Drilling

## well comparison sheet

		DRILLING V	VELL		COMPARIS	ON WELL				
		Betty a	#2-12		Betty #1-12 919 FNL & 1408' FWL					
		390' FNL	& 330' F	WL						
		Sec 12-T6:	S-R18W		Sec 12-T6S-R18W					
						1	Struc	tural		
	1897	KB			1912 KB		Relationship			
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log		
Topeka	2833	-936	2833	-936	2846	-934	-2	-934		
Heebner	3037	-1140	3034	-1137	3047	-1135	-5	-1132		
Lansing	3078	-1181	3075	-1178	3088	-1176	-5	-1173		
Muncie Creek	3198	-1301	3199	-1302	3213	-1301		-1302		
Base KC	3303	-1406	3303	-1406	3320	-1408	2	-1408		
Arbuckle	Not R	eached			3440	-1528				
Total Depth	3360	-1463	3358	-1461	3483	-1571	108	-1569		

	DS	ST #1				
	DIAMOND P.O. B	OTESTING	TIME ON:	2340	(7/13)	
	HOISINGTON, I	KANSAS 67544	TIME OF	. 0745	(7/14)	
X	FILE: BTTY2-	TEST TICKET 12DST1				
Company L.D. DRILLING, INC.		Lease & Well No. BE	TTY #2-12			
Contractor SKYTOP DRILLING,LLC. RIG 1		Charge to L.D. DRIL	LING, INC.			
Elevation1894 GL EST. Formation	LOWER TOPEKA	Effective Pay	F	t. Ticket I	No. M673	5
Date 7/13/2014 Sec. 12 Twp.	6 S Ra	nge1	8 W County	ROOKS	StateKAI	ISAS
Test Approved By LOGAN WALKER		Diamond Representativ	eMIK	E COCH	HRAN	
Formation Test No. 1 Interval Test	ed from 29	55 ft. to	2996 ft. Total De	epth	299	6 ft.
Packer Depth 2950 ft. Size 6	i 3/4 in.	Packer depth	NAft	Size	6 3/4 i	n.
Packer Depth 2955 ft. Size 6	i 3/4 in.	Packer depth	NA ft.	Size	6 3/4 i	n.
Depth of Selective Zone Set						
Top Recorder Depth (Inside)	2942 ft.	Recorder Number	0063 Ca	p.	6,000 P.S	i.I.
Bottom Recorder Depth (Outside)	2957 <sub>ft.</sub>	Recorder Number	E1150 Ca	эр.	5,000 P.	S.I.
Below Straddle Recorder Depth	ft.	Recorder Number	Ca	p	P.3	5.1.
Mud Type CHEM Viscosity		Drill Collar Length	143 ft.	I.D	2 1/4	in
Weight Water Loss	7.2	Weight Pipe Length_	0 <sub>ft.</sub>	I.D	2 7/8	ir
Chlorides	600 P.P.M.	Drill Pipe Length	2785 <sub>ft.</sub>	I.D	3 1/2	in
Jars: Make STERLING Serial Number	SAFTEY JT	Test Tool Length	27 ft.	Tool Size	e3 1/2-IF	in
Did Well Flow? NO Reversed Out	NO	Anchor Length	41 <sub>ft.</sub>	Size	4 1/2-FH	ir
Main Hole Size 7 7/8 Tool Joint Size	4 1/2 XH in	(31' DP) Surface Choke Size	1 in	Bottom (	Choke Size 5	/8 ir

	JU ft. of V	SOSDM 1	00% DRLG ML	JD W/ A VERY T	HIN SO	CUM OF OIL			7	North Trues	
Recovered	30 ft. of T	OTAL FLU	IID					-	J		
Recovered	ft. of									171	
Recovered	ft. of										1_
Recovered	ft. of										-
Recovered	ft_ of				_				1		
Remarks:					_		_	1	1 -		
									New .	TARK DOCUMENT	
TOOL SAMPL	.E: 1% OIL, 9	9% MUD						in a s	3 3 a	11 04 14	
Time Set Packe	er(s)3:4	5 A.M.	P.M. Tim	ne Started Off Bot	tom	5:45 A.M.	P.M.	Maximu	m Temperati	ure95	°F
nitial Hydrostat	ic Pressure	*****			(A)_		1397 <sub>P</sub>	.S.I.			
nitial Flow Peri	od		Minutes_	30	(B)_		7 <sub>P</sub>	S.I. to (C)		17 P.S.I	•
nitial Closed In	Period		Minutes_	30	(D)		993 P	S.I.			
Final Flow Perio	od		Minutes_	30	_(E)		18 P.	S.I. to (F)_		27 P.S.I.	
inal Closed In	Period		Minutes_	30	_(G)		965 P.	S.I.			
Final Hydrostati	c Pressure				(H)_		1389 P	S.I.			



P.O. Box 157

TIME ON: 2350 (7/14)

	DF	(800) 5 RILL-STEM	42-7313 TEST TICKET -12DST2	TIME OF	=:0700 (7	/15)	
Company L.D. DRILLING, INC.			Lease & Well No.	BETTY #2-12			
Contractor SKYTOP DRILLING, LLC. R	IG 1		_ Charge to L.D. DF	RILLING, INC.			
Elevation 1894 GL EST. Formation	TORONTO LA	NSING A, B,	D Effective Pay	F	t. Ticket No	M674	
Date 7/15/2014 Sec. 12 T	wp	6 S R	ange	18 W County	ROOKS	State_KAN	ISAS
Test Approved By LOGAN WALKER			_ Diamond Representa	ativeMIK	ECOCH	RAN	
Formation Test No. 2 Interv	al Tested from	30	)34 ft. to	3130 ft. Total De	epth	3130	O ft.
Packer Depth 3029 ft. Siz	e 6 3/4	in.	Packer depth	NA ft	Size 6	3/4 in	۱.
Packer Depth 3034 ft. Siz	e6_3/4	in.	Packer depth	NA ft	Size 6	3/4 in	i.
Depth of Selective Zone Set							
Top Recorder Depth (Inside)		3021 ft.	Recorder Number	0063 <sub>Ca</sub>	p	6,000 P.S.	.L.
Bottom Recorder Depth (Outside)		3036 <sub>ft.</sub>	Recorder Number	E1150 <sub>C</sub>	ap.	5,000 P.S	s.1.
Below Straddle Recorder Depth		ft.	Recorder Number	Ca	p	P.S	i.I.
Mud TypeCHEMViscosity	60		Drill Collar Length	143 ft.	I.D	2 1/4	in
Weight 9.1 Water Loss	6.2	CC.	Weight Pipe Lengt	h0_ft.	I.D	2 7/8	ir
Chlorides	600	P.P.M.	Drill Pipe Length _	2864 ft.	I.D	3 1/2	ir
Jars: Make STERLING Serial Numbe	SAFT	TEY JT	Test Tool Length_	27 ft.	Tool Size	3 1/2-IF	in
Did Well Flow? NO Reverse	d Out	NO	Anchor Length	96 <sub>ft.</sub>	Size	4 1/2-FH	ir
Main Hole Size 7 7/8 Tool Join	nt Size 4 1	/2 XH _in.	(60' DP) Surface Choke Siz	e <u> 1 </u> in.	Bottom Ch	oke Size 5/	8_in
Blow: 1st Open: SSB, BUILT TO 11	1/2"		(NO BB)				
2nd Open: GSB, BOB 33 MIN			(1" BB)				
Recovered 275 ft. of GIP		GRA	/ITY:37.3 @ 60' =		-		TT
Recovered 66 ft. of CO 100% OIL			902		1000-8.2		
Recovered 114 ft. of GOCM 12% G	AS, 32% OIL	., 56% MUI	- C	V 1	6+102.11	1-	
Recovered 180 ft. of TOTAL FLUID			1=			1	2
Recovered ft. of			1				
Recovered ft. of						/	
Remarks:						7	
				2 110	#+6275 #+75.88		-
TOOL SAMPLE: 4% GAS, 81% OIL, 15%	MUD			10 FW ED 10 10 20 30	10 232 440 0 199770-0	20 10 12 AN	48 70
Time Set Packer(s) 1:30 A.M. P.	M. M. Time S	tarted Off Bo	4:30 A.N	A.M. P.M. Maximu	m Temperat	ure96° I	F
Initial Hydrostatic Pressure			(A)	1440 P.S.I.			
Initial Flow Period	. Minutes	30	(B)	11 P.S.I. to (C)		57 P.S.I.	
Initial Closed In Period	Minutes	45	(D)	1051 P.S.I.		1,000,000	
Final Flow Period	. Minutes	45	(E)	63 P.S.I. to (F)		80 <sub>P.S.I.</sub>	
Final Closed In Period	Minutes	60	(G)	1032 P.S.I.			
	and the second second second second			1 100			

#### DST #3

	DIAMO P.( HOISINGTO (800 DRILL-STI FILE: BTT	DND TESTING D. Box 157 DN, KANSAS 67544 D) 542-7313 EM TEST TICKET Y2-12DST3	TIME ON: 1925 TIME OFF: 0305	5 (7/15) 5 (7/16)
Company L.D. DRILLING, INC.		Lease & Well No.	3ETTY #2-12	
Contractor SKYTOP DRILLING,LLC. RIG	1	Charge to L.D. DR	ILLING, INC.	
Elevation 1894 GL EST. Formation	LANSING	F/G Effective Pay	Ft. Ticke	t No M675
Date 7/15/2014 Sec. 12 Twp.	6 S	Range	18 W County ROOKS	State KANSAS
Test Approved By LOGAN WALKER		Diamond Representa	MIKE COC	CHRAN
Formation Test No. 3 Interval Te	ested from	3130 ft. to	3200 ft. Total Depth	3200 ft.
Packer Depth 3125 ft. Size	6 3/4 in.	Packer depth	NA ft. Size	6 3/4 in.
Packer Depth 3130 ft. Size	6 3/4 in.	Packer depth	NA ft. Size	6 3/4 in.
Depth of Selective Zone Set				
Top Recorder Depth (Inside)	3117 ft.	Recorder Number_	0063 Cap.	6,000 P.S.I.
Bottom Recorder Depth (Outside)	3132 <sub>ft.</sub>	Recorder Number_	E1150 Cap.	5,000 P.S.I.
Below Straddle Recorder Depth	ft.	Recorder Number_	Cap	P.S.I.
OUEN	55		142 0 10	

Weight				Drill Conar Lengur	the ft.	1.0. 2 1/4	
2272 C 222000	9.2	Water Loss	6.0 _cc.	Weight Pipe Length_	0 <sub>ft.</sub>	I.D. 2 7/8	in
Chlorides			1,000 P.P.M.	Drill Pipe Length	2960 <sub>ft.</sub>	I.D3 1/2	in
Jars: Make STE	RLING	Serial Number	SAFTEY JT	Test Tool Length	27 ft.	Tool Size 3 1/2-	IF in
Did Well Flow?	NC	Reversed Out	NO	Anchor Length (32' DP)	<u>70 ft.</u>	Size 4 1/2-	FH in
Main Hole Size 7	7/8	Tool Joint Size	4 1/2 XH in.	Surface Choke Size	in,	Bottom Choke Size	<u>5/8</u> in
Blow: 1st Open: W	SB, IN	0.102"		(NO BB)			
2nd Open: VV	NSB, IN	NC. TO 3"		(NO BB)	-		1.01
Recovered 3	0 ft. of G	IP	GRAV	/ITY: 33.4 @ 60°		heper H.D.	
Recovered 3	3 ft. of C	O 100% OIL	01 570/ MU		7	N	·
Recovered 7	7_ft. of	OCM 10% GAS, 33	3% OIL, 57% MUL	D	/	(max)	× .
Recovered 11	0_ft. of _1	OTAL FLUID			-1 /	( )	
Recovered	ft. of						5.
Recovered	ft. of				/		
Remarks:				Mit of the second s	/ PO	t t tota	· •
TOOL SAMPLE: 2	% GAS, 2	26% OIL, 72% MUD				a joa <u>sa</u> ia ia	
Time Set Declard	10.0	DOP.M A.M.	Time Staded Off D	1:00 A M	A.M.	n Tomporatura (	96°F
Inne Set Packer(s)_		Р.М.	Time Started Off Bo	///	M. Maximur	n remperature	
Initial Hydrostatic Pr	essure	8.41	ae 30	(A)	9 per 6/0	32 p	51
Initial Flow Period	od.	Minut	es 45	(D)	912 p.s.i	<u> </u>	Q.I.
Final Flow Period		Minut	es 45	(E)	36 P.S.L to (F)	56 p s	S.I.
Final Closed In Perio	odbc	Minut	es 60	(G)	885 P.S.I.		
Final Hydrostatic Pro	essure		97. <del>6</del>	(H)	1484 PSI		
			DS	ST #4			
6	1 1	15 -	HOISINGTON	KANSAS 67544	TIME ON	. 0415 (7/17)	
1	X	P	HOISINGTON, (800) ( DRILL-STEN FILE: BTTY2	KANSAS 67544 542-7313 TEST TICKET 2-12DST4	TIME ON		
Company L.D. D	RILLIN	IG, INC.	HOISINGTON, (800) 5 DRILL-STEN FILE: <u>BTTY2</u>	KANSAS 67544 542-7313 I TEST TICKET 2-12DST4 Lease & Well No. Bi	TIME ON TIME OF	- 1923 (7/10) F: 0415 (7/17)	
Company_L.D. D Contractor_SKYTC		IG, INC. LING,LLC. RIG 1	HOISINGTON, (800) 5 DRILL-STEN FILE: <u>BTTY2</u>	KANSAS 67544 542-7313 M TEST TICKET 2-12DST4 Lease & Well NoBI Charge to_L.D. DRIL	TIME ON TIME OF ETTY #2-12 LING, INC.	- <u>1923 (7713)</u> F: 0415 (7/17)	_
Company L.D. D Contractor SKYTC Elevation 1894	RILLIN P DRIL GL EST	IG, INC. LING,LLC. RIG 1 F. Formation	HOISINGTON, (800) 5 DRILL-STEN FILE: <u>BTTY2</u> LANSING H,I,J,K	KANSAS 67544 542-7313 I TEST TICKET 12DST4 Lease & Well No. BI Charge to L.D. DRIL LEffective Pay	TIME ON TIME OF ETTY #2-12 LING, INC.	F: F: TTicket No	M676
Company L.D. D Contractor SKYTC Elevation 1894 Date 7/16/2014	RILLIN OP DRIL GL EST	IG, INC. LING,LLC. RIG 1 TFormation 12Twp	HOISINGTON, (800) 5 DRILL-STEN FILE: <u>BTTY2</u> LANSING H,I,J,K	KANSAS 67544 542-7313 <b>1 TEST TICKET</b> 2-12DST4 Lease & Well NoBI Charge toL.D. DRIL ,L_Effective Pay tange1	TIME ON TIME OF ETTY #2-12 LING, INC. F F	Ticket No.	M676 KANSAS
Company L.D. D Contractor SKYTC Elevation 1894 Date 7/16/2014 Test Approved By LO	RILLIN OP DRIL GL EST GAN WA	IG, INC. LING,LLC. RIG 1 T 12	HOISINGTON, (800) 5 DRILL-STEN FILE: <u>BTTY2</u> LANSING H,I,J,K <u>6</u> S R	KANSAS 67544           542-7313           1 TEST TICKET           2-12DST4	TIME ON TIME OF ETTY #2-12 LING, INC. F F W County veMIK	E. Ticket No ROOKSState State	M676 KANSAS
Company L.D. D Contractor SKYTC Elevation 1894 Date 7/16/2014 Test Approved By LO Formation Test No.	RILLIN DP DRIL GL EST GAN WA	IG, INC. LING,LLC. RIG 1 TFormation 12Twp LLKER 4Interval Test	HOISINGTON, (800) 5 DRILL-STEN FILE: <u>BTTY2</u> LANSING H,I,J,K <u>6</u> S R ed from <u>3</u>	KANSAS 67544           542-7313 <b>1 TEST TICKET</b> 2-12DST4	TIME ON TIME OF LING, INC. F weMIK MIK	Ticket No	M676 KANSAS 3304 ft.
Company L.D. D Contractor SKYTC Elevation 1894 Date 7/16/2014 Test Approved By LO Formation Test No. Packer Depth	RILLIN DP DRIL GL EST GAN WA	IG, INC. LING,LLC. RIG 1 T	HOISINGTON, (800) 5 DRILL-STEM FILE: <u>BTTY2</u> LANSING H,I,J,K <u>6</u> S R ed from <u>3</u> '	KANSAS 67544           542-7313           1 TEST TICKET          12DST4	TIME ON TIME OF ETTY #2-12 LING, INC. F W CountyF WeMIK MIK MIK NA ft. Total De NA ft.	E. Ticket No ROOKSState E COCHRAN apth Size6_3/4	M676 KANSAS 3304 ft. in.
Company L.D. D Contractor SKYTC Elevation 1894 Date 7/16/2014 Test Approved By LO Formation Test No. Packer Depth Packer Depth	RILLIN DP DRIL GL EST GAN WA	IG, INC. LING,LLC. RIG 1 TFormation 12Twp LKER 4Interval Test 3189 ft. Size6 3194 ft. Size6	HOISINGTON, (800) 5 DRILL-STEM FILE: <u>BTTY2</u> LANSING H,I,J,K <u>6</u> S R ed from <u>3'</u> 3 3/4 in. 5 3/4 in.	KANSAS 67544 542-7313 <b>1 TEST TICKET</b> Lease & Well NoBI Charge to_L.D. DRIL ,L Effective Pay ange1 Diamond Representativ 194 ft. to Packer depth Packer depth	TIME ON TIME OF ETTY #2-12 LING, INC. F F WeMIK MIK MIK NA ft NA ft	E. Ticket NoN ROOKSState E COCHRAN Size6 3/4 Size6 3/4	M676 KANSAS 3304 ft. in. in.
Company L.D. D Contractor SKYTC Elevation 1894 Date 7/16/2014 Test Approved By LO Formation Test No. Packer Depth Packer Depth Depth of Selective 2	RILLIN OP DRIL GL EST GAN WA	IG, INC. LING,LLC. RIG 1 TTop 12Twp LKER 4Interval Test 3189 ftSize0 3194 ftSize0	HOISINGTON, (800) 5 DRILL-STEM FILE: <u>BTTY2</u> LANSING H,I,J,K <u>6</u> S R ed from <u>3'</u> <u>3 3/4</u> in. <u>5 3/4</u> in.	KANSAS 67544 542-7313 <b>1 TEST TICKET</b> 12DST4 _ Lease & Well No. BI _ Charge to L.D. DRIL _ Charge to L.D. DRIL _ Leffective Pay ange1 _ Diamond Representativ 194 ft. to Packer depth Packer depth	TIME ON TIME OF ETTY #2-12 LING, INC. F F W County Ve 3304 ft. Total De  NA ft 	E. Ticket No ROOKS State E COCHRAN Size 6 3/4 Size 6 3/4	M676 KANSAS 3304 ft. in. in.
Company L.D. D Contractor SKYTC Elevation 1894 Date 7/16/2014 Test Approved By LO Formation Test No. Packer Depth Packer Depth Depth of Selective 2 Top Recorder Depth	RILLIN P DRIL GL EST Sec. GAN WA Cone Set (Inside)	IG, INC. LING,LLC. RIG 1 TFormation 12Twp LKER 4Interval Test 3189 ft. Size6 3194 ft. Size6	HOISINGTON, (800) 5 DRILL-STEM FILE: <u>BTTY2</u> LANSING H,I,J,K <u>6</u> S R ed from <u>3'</u> 3 3/4 in. 5 3/4 in. 3 3/4 jr.	KANSAS 67544 542-7313 TEST TICKET Lease & Well No. Bl Charge to L.D. DRIL Charge to L.D. DRIL LEffective Pay	TIME ON TIME OF TIME OF ETTY #2-12 LING, INC. 	F:       1020 (7710)         F:       0415 (7/17)         F:       0415 (7/17)         ROOKS       State         ROOKS       State         RECOCHRAN       State         Size       6 3/4         Size       6 3/4         Size       6 3/4         Size       6 3/4	M676 KANSAS 3304 ft. in. in.
Company L.D. D Contractor SKYTC Elevation 1894 Date 7/16/2014 Test Approved By LO Formation Test No. Packer Depth Packer Depth Depth of Selective Z Top Recorder Deptt Bottom Recorder Dept	RILLIN P DRIL GL EST GAN WA Cone Set n (Inside) epth (Outs	IG, INC. LING,LLC. RIG 1 T. Formation 12 Twp. LLKER 4 Interval Test 3189 ft. Size 3194 ft. Size side)	HOISINGTON, (800) 5 DRILL-STEM FILE: <u>BTTY2</u> LANSING H,I,J,K <u>6</u> S R ed from <u>3'</u> 5 3/4 in. 5 3/4 in. 3181 ft. 3196 ft.	KANSAS 67544 542-7313 <b>TEST TICKET</b> Lease & Well No. BI Charge to L.D. DRIL Leffective Pay tange1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 	TIME ON TIME OF ETTY #2-12 LING, INC. F WeMIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK M		M676 KANSAS 3304 ft. in. in. P.S.I. P.S.I.
Company_L.D. D Contractor_SKYTC Elevation1894 Date7/16/2014 Test Approved By_LO Formation Test No. Packer Depth Packer Depth Depth of Selective 2 Top Recorder Depth Bottom Recorder Depth Below Straddle Rec	RILLIN P DRIL GL EST GAN WA Cone Set_ n (Inside) epth (Outs order Dep	IG, INC. LING,LLC. RIG 1 TFormation 12Twp LKER 4Interval Test 3189 ft. Size6 3194 ft. Size6 side) side)	HOISINGTON, (800) 5 DRILL-STEM FILE: <u>BTTY2</u> LANSING H,I,J,K <u>6</u> S R ed from <u>3'</u> <u>3 3/4</u> in. <u>3 3/4</u> in. <u>3 3/4</u> in. <u>3 181 ft.</u> <u>3 196 ft.</u> <u>ft.</u>	KANSAS 67544 542-7313 TEST TICKET	TIME ON TIME OF TIME OF ETTY #2-12 LING, INC.	F:       1020 (7710)         F:       0415 (7/17)         F:       0415 (7/17)         ROOKS       State_         ROOKS       State_         RECOCHRAN       State_         Size6 3/4       Size6 3/4         Size6 3/4       Size6 3/4         sp5,000       Sp5,000	M676 KANSAS 3304 ft. in. in. P.S.I. P.S.I. P.S.I.
Company L.D. D Contractor SKYTC Elevation 1894 Date 7/16/2014 Test Approved By LO Formation Test No. Packer Depth Packer Depth Depth of Selective Z Top Recorder Deptt Bottom Recorder Deptt Below Straddle Rec Mud Type	RILLIN P DRIL GL EST GAN WA Cone Set n (Inside) epth (Outs order Dep CHEM	IG, INC. LING,LLC. RIG 1 T. Formation 12 Twp. LLKER 4 Interval Test 3189 ft. Size 3194 ft. Size side)  side)  Viscosity	HOISINGTON, (800) 5 DRILL-STEM FILE: <u>BTTY2</u> LANSING H,I,J,K <u>6</u> S R ed from <u>3'</u> 5 3/4 in. <u>3181 ft.</u> <u>3196 ft.</u> <u>ft.</u>	KANSAS 67544 542-7313 <b>A TEST TICKET</b> <u>-12DST4</u> _Lease & Well No. <u>BI</u> _ Charge to L.D. DRIL _ Charge to L.D. DRIL _ Leffective Pay tange1 _ Diamond Representativ 194 ft. to Packer depth Packer depth Recorder Number Recorder Number Drill Collar Length	TIME ON TIME OF ETTY #2-12 LING, INC. F WeMIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK MIK M	Image: 1920 (7710)         F: 0415 (7/17)         F: 0415 (7/17)         ROOKS State_         IE COCHRAN         epth         Size	M676 KANSAS 3304 ft. in. in. P.S.I. P.S.I. P.S.I. P.S.I. in.
Company L.D. D Contractor SKYTC Elevation 1894 Date 7/16/2014 Test Approved By LO Formation Test No. Packer Depth Packer Depth Depth of Selective 2 Top Recorder Depth Bottom Recorder Depth Bottom Recorder Depth Below Straddle Reco Mud Type	RILLIN P DRIL GL EST Sec. GAN WA Cone Set (Inside) epth (Outs order Dep CHEM	IG, INC. LING,LLC. RIG 1 TFormation 12Twp LKER 4Interval Test 3189 ft. Sizeft 3194 ft. Sizeft side)  pth  Water Loss	HOISINGTON, (800) 5 DRILL-STEM FILE: <u>BTTY2</u> LANSING H,I,J,K <u>6</u> S R ed from <u>3'</u> 3 3/4 in. <u>3 3/4 in.</u> 3 3/4 in. <u>3 3/4 in.</u> <u>3 181 ft.</u> <u>3 196 ft.</u> <u>ft.</u>	KANSAS 67544 542-7313 <b>1 TEST TICKET</b> _Lease & Well No. BI _Charge to L.D. DRIL _Leffective Pay _Effective Pay _Diamond Representative 194 ft. to Packer depth Packer depth Recorder Number Recorder Number Drill Collar Length . Weight Pipe Length	TIME ON TIME OF TIME OF ETTY #2-12 LING, INC.	F:       1020 (7710)         F:       0415 (7/17)         F:       0415 (7/17)         ROOKS       State         ROOKS       State         RE       COCHRAN         apth       6 3/4         Size       6 3/4         ap.       5,000         ap.       1.D.       2 1/4         1.D.       2 7/8	M676 KANSAS 3304 ft. in. P.S.I. P.S.I. P.S.I. in. 3in
Company L.D. D Contractor SKYTC Elevation 1894 Date 7/16/2014 Test Approved By LO Formation Test No. Packer Depth Packer Depth Depth of Selective Z Top Recorder Depth Bottom Recorder Depth Bottom Recorder Depth Below Straddle Rec Mud Type 0 Weight	RILLIN P DRIL GL EST GAN WA Cone Set n (Inside) epth (Outs order Dep CHEM	IG, INC. LING,LLC. RIG 1 T. Formation 12 Twp. LLKER 4 Interval Test 3189 ft. Size (1) 3194 ft. Size (1) side) Uiscosity Water Loss	HOISINGTON, (800) 5 DRILL-STEM FILE: <u>BTTY2</u> LANSING H,I,J,K <u>6</u> S R ed from <u>3'</u> <u>3 3/4</u> in. <u>3 3/4</u> in. <u>3 3/4</u> in. <u>3 181 ft.</u> <u>3 196 ft.</u> <u>ft.</u> 7.6 cc. <u>1,000 P.P.M.</u>	KANSAS 67544 542-7313 A TEST TICKET -12DST4 Lease & Well No. BI Charge to L.D. DRIL L Effective Pay ange1 Diamond Representation 194 ft. to Packer depth Packer depth Recorder Number Recorder Number Recorder Number Drill Collar Length Drill Pipe Length	TIME ON TIME OF TIME OF LLING, INC. F 	Image: 1020 (7710)         F: 0415 (7/17)         F: 0415 (7/17)         ROOKS       State         IE COCHRAN         Size       6 3/4         Size       6 3/4         size       6 3/4         size       6 3/4         ID       2 1/4         I.D.       2 1/2         I.D.       3 1/2	M676 KANSAS 3304 ft. in. in. P.S.I. P.S.I. P.S.I. in. 3in.
Company L.D. D Contractor SKYTC Elevation 1894 Date 7/16/2014 Test Approved By LO Formation Test No. Packer Depth Packer Depth Depth of Selective 2 Top Recorder Depth Bottom Recorder Depth Bottom Recorder Depth Bottom Recorder Depth Below Straddle Reco Mud Type 0 Weight Chlorides Jars: Make STE	RILLIN P DRIL GL EST Sec. GAN WA Cone Set (Inside) epth (Outs order Dep CHEM RLING	IG, INC. LING,LLC. RIG 1 TFormation 12Twp LKER 4Interval Test 3189 ft. Sizeft 3194 ft. Sizeft side) Viscosity Water Loss Serial Number	HOISINGTON, (800) 5 DRILL-STEM FILE: <u>BTTY2</u> LANSING H,I,J,K <u>6</u> S R ed from <u>3'</u> <u>3 3/4</u> in. <u>3 3/4</u> in. <u>3 3/4</u> in. <u>3 3/4</u> in. <u>3 181 ft.</u> <u>3 196 ft.</u> <u>ft.</u> <u>7.6 cc.</u> 1,000 p.p.M. SAFTEY JT	KANSAS 67544 542-7313 TEST TICKET	TIME ON TIME OF TIME OF LING, INC.	F:       1020 (7710)         F:       0415 (7/17)         F:       0415 (7/17)         ROOKS       State         ROOKS       State         E       COCHRAN         apth       6 3/4         Size       6 3/4         ap.       5,000         ap.       5,000         ap.       1.D.         1.D.       2 1/4         1.D.       3 1/2         Tool Size       3 1/2	M676 KANSAS 3304 ft. in. in. P.S.I. P.S.I. P.S.I. in. in. in. in.
Company L.D. D Contractor SKYTC Elevation 1894 Date 7/16/2014 Test Approved By LO Formation Test No. Packer Depth Packer Depth Depth of Selective Z Top Recorder Depth Bottom Re	RILLIN P DRIL GL EST GAN WA Cone Set n (Inside) epth (Outs order Dep CHEM RLING NC 7/2	IG, INC. LING,LLC. RIG 1 T. Formation 12 Twp. LKER 4 Interval Test 3189 ft. Size (1) 3194 ft. Size (1) side) Viscosity Water Loss Serial Number O Reversed Out	HOISINGTON, (800) 5 DRILL-STEM FILE: <u>BTTY2</u> LANSING H,I,J,K <u>6</u> S R ed from <u>3'</u> <u>3 3/4</u> in. <u>3 3/4</u> in. <u>3 3/4</u> in. <u>3 3/4</u> ft. <u>3 196 ft.</u> <u>ft.</u> 7.6 cc. 1,000 p.p.M. SAFTEY JT NO <u>4 1/2 YH</u>	KANSAS 67544 542-7313 <b>1 TEST TICKET</b> Lease & Well No. BI Charge to L.D. DRIL LEffective Pay ange1 1 1 	TIME ON TIME OF TIME OF LLING, INC. F 	ID20 (7710)         F:       0415 (7/17)         ROOKS       State         IE       COCHRAN         Epth       6 3/4         Size       6 3/4         Size       6 3/4         ID       2 1/4         I.D.       2 1/4         I.D.       2 1/2         Tool Size       3 1/2         Size       4 1/2	M676 KANSAS 3304 ft. in. in. P.S.I. P.S.I. P.S.I. in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3
Company L.D. D Contractor SKYTC Elevation 1894 Date 7/16/2014 Test Approved By LO Formation Test No. Packer Depth Packer Depth Depth of Selective 2 Top Recorder Depth Bottom Recorder Depth Bottom Recorder Depth Below Straddle Reco Mud Type 0 Weight 0 Chlorides 5 Jars: Make STE Did Well Flow? 1 Main Hole Size 7	RILLIN P DRIL GL EST Sec. GAN WA Cone Set (Inside) epth (Outs order Dep CHEM RLING NC 7/8	IG, INC. LING,LLC. RIG 1 TFormation 12Twp LKER 4Interval Test 3189 ft. SizeG 3194 ft. SizeG side)  Viscosity Water Loss Serial NumberOReversed Out Tool Joint Size4	HOISINGTON, (800) 5 DRILL-STEM FILE: <u>BTTY2</u> LANSING H,I,J,K <u>6</u> S R ed from <u>3'</u> <u>3 3/4</u> in. <u>3 3 3/4</u> in. <u>3 3 3/4</u> in. <u>3 181 ft.</u> <u>3 196 ft.</u> <u>1 000 p.p.M.</u> <u>3 AFTEY JT</u> <u>NO</u> <u>4 1/2 XH in.</u> <u>1/2''</u>	KANSAS 67544 542-7313 TEST TICKET	TIME ON TIME OF TIME OF LING, INC.	F:       1020 (7710)         F:       0415 (7/17)         F:       0415 (7/17)         ROOKS       State         IE       COCHRAN         apth       6 3/4         Size       6 3/4         size       6 3/4         ap.       5,000         ap.       5,000         ap.       1/2         I.D.       2 1/4         I.D.       3 1/2         Size       3 1/2         Size       4 1/2         Bottom Choke Size	M676 KANSAS 3304 ft. in. in. in. in. in. in. in. in. in. in. in. in. in. 
Company L.D. D Contractor SKYTC Elevation 1894 Date 7/16/2014 Test Approved By LO Formation Test No. Packer Depth Packer Depth Depth of Selective 2 Top Recorder Depth Bottom Recorder Depth Bottom Recorder Depth Below Straddle Reco Mud Type 0 Weight 0 Chlorides 5 Jars: Make STE Did Well Flow? 7 Blow: 1st Open: W	RILLIN P DRIL GL EST GAN WA Cone Set (Inside) epth (Outs order Dep CHEM RLING NC 7/8 SB, IN A(CE)	IG, INC. LING,LLC. RIG 1 T. Formation 12 Twp. LKER 4 Interval Test 3189 ft. Size (1) 3194 ft. Size (1) side) bth Viscosity Water Loss Serial Number O Reversed Out CREASE TO 1	HOISINGTON, (800) 5 DRILL-STEM FILE: <u>BTTY2</u> LANSING H,I,J,K <u>6</u> S R ed from <u>3'</u> <u>3 3/4</u> in. <u>3 3/4</u> in. <u>3 3/4</u> in. <u>3 3/4</u> in. <u>3 3/4</u> ft. <u>3 196 ft.</u> <u>ft.</u> <u>7.6 cc.</u> <u>1,000 P.P.M.</u> SAFTEY JT <u>NO</u> <u>4 1/2 XH in.</u> <u>1/4"</u>	KANSAS 67544 542-7313 TEST TICKET	TIME ON TIME OF TIME O	ID20 (7710)         F:       0415 (7/17)         ROOKS       State         CE COCHRAN         Epth         Size       6 3/4         Size       6 3/4         size       6 3/4         size       6 3/4         ID       2 1/4         I.D.       2 1/4         I.D.       3 1/2         Tool Size       3 1/2         Size       4 1/2         Bottom Choke Size	M676 KANSAS 3304 ft. in. in. P.S.I. P.S.I. P.S.I. in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3in. 3
Company L.D. D Contractor SKYTC Elevation 1894 Date 7/16/2014 Test Approved By LO Formation Test No. Packer Depth Packer Depth Depth of Selective 2 Top Recorder Depth Bottom Recorder Depth Chlorides Jars: Make Main Hole Size7 Blow: 1st Open: W 2nd Open: W	RILLIN P DRIL GL EST Sec. GAN WA Cone Set Cone Set (Inside) epth (Outs order Dep CHEM RLING NC 7/8 (SB, IN NSB, II)	IG, INC. LING,LLC. RIG 1 Formation 12_Twp LKER 4Interval Test 3189 ft. Size 3194 ft. Size side)  Viscosity Water Loss Serial Number OReversed Out Tool Joint Size ICREASE TO 1 NCREASE TO 1 NCR	HOISINGTON, (800) 5 DRILL-STEM FILE: <u>BTTY2</u> LANSING H,I,J,K <u>6</u> S R ed from <u>3'</u> <u>3 3/4</u> in. <u>3 3/4</u> ft. <u>3 196 ft.</u> <u>ft.</u> <u>7.6 cc.</u> <u>1,000 P.P.M.</u> <u>SAFTEY JT</u> <u>NO</u> <u>4 1/2 XH in.</u> <u>1/4''</u>	KANSAS 67544 542-7313 TEST TICKET	TIME ON TIME OF TIME O	F:       1020 (7710)         F:       0415 (7/17)         F:       0415 (7/17)         ROOKS       State         E       COCHRAN         E       COCHRAN         E       6 3/4         Size       6 3/4         Size       6 3/4         ID.       2 1/4         I.D.       2 1/4         I.D.       3 1/2         Size       4 1/2         Bottom Choke Size	M676 KANSAS 3304 ft. in. in. )P.S.I. P.S.I. P.S.I. 10 P.S.I. 2-FH in 2-FH in e 5/8 in 2-FH in
Company L.D. D Contractor SKYTC Elevation 1894 Date 7/16/2014 Test Approved By LO Formation Test No. Packer Depth Packer Depth Depth of Selective Z Top Recorder Depth Bottom Recorder Depth Chlorides Jars: Make Tel Main Hole Size Blow: 1st Open: W 2nd Open: W Recovered	RILLIN P DRIL GL EST GL EST	IG, INC. LING,LLC. RIG 1 F. Formation 12 Twp. LKER 4 Interval Test 3189 ft. Size 6 3194 ft. Size 6 3194 ft. Size 6 Side) bth Viscosity Water Loss Serial Number O Reversed Out CREASE TO 1 NCREASE TO 1 SOSDM 100% MUD 1 OTAL FLUID	HOISINGTON, (800) 5 DRILL-STEM FILE: <u>BTTY2</u> LANSING H,I,J,K <u>6</u> S R ed from <u>3'</u> <u>3 3/4</u> in. <u>3 3 3/4</u> in. <u>3 3 181 ft.</u> <u>3 181 ft.</u> <u>3 196 ft.</u> if. W/ A THIN SCUM (	KANSAS 67544 542-7313 A TEST TICKET Lease & Well No. Bl Charge to L.D. DRIL .Lease & Well No. Bl Charge to L.D. DRIL .Leffective Pay ange1 Diamond Representation 194 ft. to Packer depth Packer depth Packer depth Recorder Number Recorder Number Recorder Number Recorder Number Recorder Number Recorder Number Drill Collar Length Drill Pipe Length Test Tool Length Anchor Length Q1' DP) Surface Choke Size (NO Bl OF OIL, SLIGHT ODO	TIME ON TIME OF TIME O	F:       1020 (7710)         F:       0415 (7/17)         F:       0415 (7/17)         ROOKS       State         E       COCHRAN         E       COCHRAN         E       COCHRAN         Size       6 3/4         Size       6 3/4         Size       6 3/4         ID.       2 1/4         I.D.       2 1/4         I.D.       2 1/2         Size       4 1/2         Bottom Choke Size	M676 KANSAS 3304 ft. in. in. P.S.I. P.S.I. P.S.I. in. 3in 2in. 3in 2in 2in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3
Company L.D. D Contractor SKYTC Elevation 1894 Date 7/16/2014 Test Approved By LO Formation Test No. Packer Depth Packer Depth Depth of Selective 2 Top Recorder Depth Bottom Recorder Depth Chlorides Jars: Make Main Hole Size Blow: 1st Open: W 2nd Open: W Recovered Recovered	RILLIN P DRIL GL EST Sec. GAN WA Cone Set Cone Set	IG, INC. LING,LLC. RIG 1 Formation 12_Twp LKER 4Interval Test 3189 ft. Size 3194 ft. Size side) water Loss Serial Number Serial Number CREASE TO 1 NCREASE TO 1 NC	HOISINGTON, (800) 5 DRILL-STEM FILE: <u>BTTY2</u> LANSING H,I,J,K <u>6</u> S R ed from <u>3'</u> <u>3 3/4</u> in. <u>3 3/4</u> in. <u>3 3/4</u> in. <u>3 3/4</u> in. <u>3 3/4</u> in. <u>3 3/4</u> ft. <u>3 196 ft.</u> <u>ft.</u> <u>7.6 cc.</u> <u>1,000 P.P.M.</u> <u>SAFTEY JT</u> <u>NO</u> <u>4 1/2 XH in.</u> <u>1/4''</u> W/ A THIN SCUM (	KANSAS 67544 542-7313 TEST TICKET	TIME ON TIME OF TIME OF TIM	<pre></pre>	M676 KANSAS 3304 ft. in. in. P.S.I. P.S.I. P.S.I. P.S.I. In. 2 In. 3 in. 2 In. 3 in. 2 In. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. 3 in. in. in. in. in. in. in. in.
Company L.D. D Contractor SKYTC Elevation 1894 Date 7/16/2014 Test Approved By LO Formation Test No. Packer Depth Packer Depth Depth of Selective 2 Top Recorder Depth Bottom Recorder Depth Bottom Recorder Depth Bottom Recorder Depth Below Straddle Reco Mud Type 0 Weight 2 Chlorides 5 Jars: Make STE Did Well Flow? 7 Blow: 1st Open: W 2nd Open: W 2nd Open: W Recovered 2 Recovered 2	RILLIN P DRIL GL EST GL EST	IG, INC. LING,LLC. RIG 1 F. Formation 12 Twp. LKER 4 Interval Test 3189 ft. Size 6 3194 ft. Size 6 3194 ft. Size 6 Side) pth Viscosity Water Loss Serial Number O Reversed Out CREASE TO 1 NCREASE TO 1 NCREASE TO 1 SOSDM 100% MUD 1 OTAL FLUID	HOISINGTON, (800) 5 DRILL-STEM FILE: <u>BTTY2</u> LANSING H,I,J,K <u>6</u> S R ed from <u>3'</u> <u>3 3/4</u> in. <u>3 3/4</u> in. <u>3 3/4</u> in. <u>3 3/4</u> in. <u>3 3/4</u> in. <u>3 3/4</u> ft. <u>3 196 ft.</u> <u>ft.</u> <u>7.6 cc.</u> <u>1,000 P.P.M.</u> <u>SAFTEY JT</u> <u>NO</u> <u>4 1/2 XH in.</u> <u>1/4''</u> W/ A THIN SCUM (	KANSAS 67544 542-7313 TEST TICKET	TIME ON TIME OF TIME O	F:       1020 (7/10)         F:       0415 (7/17)         F:       0415 (7/17)         ROOKS       State         E       COCHRAN         E       COCHRAN         epth       .         .       Size       6 3/4         .       Size       3 1/2         .       Size       3 1/2         .       Size       4 1/2         Bottom Choke Size       Size	M676 KANSAS 3304 ft. in. in. P.S.I. P.S.I. P.S.I. in. 3in 2in. 3in 2in. 3in 2in. 3in 2in. 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3
Company_L.D. D Contractor_SKYTC Elevation	RILLIN Cone Set_ GAN WA Cone Set_ Cone S	IG, INC. LING,LLC. RIG 1 Formation 12_Twp LKER 4Interval Test 3189 ft. Size 3194 ft. Size side) water Loss Serial Number CReversed Out Tool Joint Size ICREASE TO 1 NCREASE TO 1	HOISINGTON, (800) 5 DRILL-STEM FILE: <u>BTTY2</u> LANSING H,I,J,K <u>6</u> S R ed from <u>3'</u> <u>3 3/4</u> in. <u>3 3 3 3/4</u> in. <u>3 3 1 3 1 ft.</u> <u>3 3 1 3 1 ft.</u> <u>3 3 1 3 1 ft.</u> <u>3 1 9 6 ft.</u> <u>1 0 00 P.P.M.</u> <u>5 AFTEY JT</u> <u>NO</u> <u>4 1/2 XH in.</u> <u>1 /4 1/2 XH in.</u>	KANSAS 67544 542-7313 TEST TICKET	TIME ON TIME OF TIME O	<pre> interpretation interpretation</pre>	M676 KANSAS 3304 ft. in. in. P.S.I. P.S.I. P.S.I. P.S.I. P.S.I. P.S.I. in. 2-IF ini 2-IF ini 2-IF ini 2-IF ini 2-IF ini
Company L.D. D Contractor SKYTC Elevation 1894 Date 7/16/2014 Test Approved By LO Formation Test No. Packer Depth Packer Depth Depth of Selective Z Top Recorder Depth Bottom Recorder Depth Bottom Recorder Depth Below Straddle Reco Mud Type 0 Weight C Chlorides Jars: Make STE Did Well Flow? Main Hole Size 7 Blow: 1st Open: W 2nd Open: W Recovered 2 Recovered 2 Reco	RILLIN P DRIL GL EST GL EST	IG, INC. LING,LLC. RIG 1 F. Formation 12 Twp. LKER 4 Interval Test 3189 ft. Size 6 3194 ft. Size 6 Side) bth Viscosity Water Loss Serial Number O Reversed Out CREASE TO 1 NCREASE TO 1 NCREASE TO 1 SOSDM 100% MUD 1 OTAL FLUID	HOISINGTON, (800) 5 DRILL-STEM FILE: <u>BTTY2</u> LANSING H,I,J,K <u>6</u> S R ed from <u>3'</u> <u>3 3/4</u> in. <u>3 3/4</u> in. <u>3 3/4</u> in. <u>3 3/4</u> in. <u>3 3/4</u> in. <u>3 3/4</u> ft. <u>3 196 ft.</u> <u>ft.</u> <u>7.6 cc.</u> <u>1,000 p.p.M.</u> SAFTEY JT <u>NO 4 1/2 XH in.</u> <u>1/4"</u> "	KANSAS 67544 542-7313 TEST TICKET	TIME ON TIME OF TIME O	E. Ticket No F: 0415 (7/17) F: 0415	M676 KANSAS 3304 ft. in. in. P.S.I. P.S.I. P.S.I. in. 3in 2in. 2in. 3in 2in. 3in 2in. 3in 2in. 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3in 3

TOOL SAMPLE: 100% MUD W/ A VERY THIN SCUM OF OIL A.M.

Remarks:

1401

			A M				AM		
Time	Set Packer(s)	9:45 P.M.	_P.M.	Time Started (	Off Bottor	n11:	45 P.M. P.M.	Maximum Te	mperature 94°F
Initial	I Hydrostatic Press	sure				(A)	1532 P.	S.I.	
Initial	I Flow Period		Minul	tes	30	(B)	11 <sub>P</sub>	S.I. to (C)	21 P.S.I.
Initial	I Closed In Period.		Minu	ites	30	(D)	770 <sub>P.</sub>	S.I.	
Final	Flow Period		Minu	tes	30	_(E)	22 P.	S.I. to (F)	29 P.S.I.
Final	Closed In Period.		Minul	tes	30	(G)	761 P.	S.I.	
Final	Hydrostatic Press	ure				(H)	1522 P.	S.I.	
	.mst fw<7	sha	ale, grn ale, gry		CESS	on Sh e, red		Ss	
					0200	UNLO			
<b>NERAL</b> Glauconite	FO	SSIL		STRINGER	2		TEXTURE		
Pyrite	↔ E	Bioclastic or Fra 3rachiopod Crinoids Fossils < 20% Dolite	gmental	Chert			CX Cryptocryst	alline	
Pyrite	↔ I ⊙ ( F F ¢ (	Bioclastic or Fra Brachiopod Crinoids Fossils < 20% Dolite	gmental	OTHI	ER SY	MBOL	CX Cryptocryst	alline	





	2	-		Shale, gray wash, sity	$\vdash$		++			
	>	-			 $\vdash$		$\downarrow$		-	
		+		Limestone white cryptocrtalline sub bioclastic fossiliferous chalky	+		+		_	$\vdash$
		-		a set to depend outfood atobing purities pip hole upon from all on brook	 +		+Mu	1-00	Mud	chk
	#	3240		son to dense, surface etching, pyrtic, pin hole vugs, free oil on break,	++	$\rightarrow$		1-001	4	7116
	<b>*</b> #	-		fair to poor fluorescence, fair to poor cut, good odor	+		+ $w$ $3$	2441	il.	
		-			 +		_085	0 nrs	. 7/16	5/14
	4.	-			+	_	_Vis.	. 47 V	Vt. 9.	1
	of @2248 0015	-			+	—	ĻΡV	16 YF	P 28	
13		+		Shale, gray wash to red to pale green, slity,	+	_	-WL	7.6		
	_nrs //16/14	+			+	_	-Cał	(e 1/3	\$2.	
		-		Limestone, cream, cryptocrystalline, fossiliferous, chalky, surface	+		nH	10.5	,	
	<b>J</b>	-		etching pyritic soft sharp pin hole wormy yugs dead black stain trace	+		-CH	100	0 nnr	n
		-		eterning, pyritic, soit, sharp, pir nole worrny vugs, dead black stain, trace	+			- 100 TP n	o ppi	
		3260		free oil on break, fleeting odor	++			I K P		
		- 200			+		_50	5.7 L		R#
114111		-		STADIC 2004 4007	$\vdash$			0 \$27	/6.00	
		_		STARK 3204 -1307			_CM	C \$69	372.0	5
		1			$\downarrow$		$\downarrow$			L
		L		Shale gray wash black carbonaceous						L
		L		Chaio, gray mach, black carbonaccous						
		<b>⊢</b> ∣			$\square$		$\square$			
	weight came	F								
	off	L I			$\square$					
		3280		Limestone, crean to light gray to gray, mircocrystalline to						
ĸ		13200		cryptocrystalline, bioclastic, fossiliferous, pin hole vugs. pvritic. sub						
		L		chalky dense spotty free oil on break fleeting odor						
		L	CX	Charky, dense, sporty hee on on break, heeting odor,						
		L								
		1								
		L								
				Limestone, white to cream to light gray, microcrystalline, sub bioclastic						
		Γ	F	fossiliferous pyritic soft alguconite sub politic no shows						
		[								
	>	3300								
		L								
	cfs @3304' 1430	L		BKC 3303 -1406						
	hrs 7/16/14	L		Chole, are used to hale green to block corbance out oils greek						
		L		Shale, gray wash to red to pale green to black carbonaceous, slity gray						
		L		gummy						
		L		Limestone, cream to light gray, microcrystalline, fossilierous, pyritic,						
		L		dense, pyritic, glauconite, no shows						
		2220								
		13320								
		L								
		F								
		L I		Shale, red wash to gray to pale green silty, red gummy	$\square$			<u> </u>		
		F					IVIUD	-Co N	viud c	nĸ
		F					@ 3	360 ft	ί.	
		L		Limestone tan to light gray to gray microcrystalline fossiliferous			0930	) hrs.	7/17	/14]
	•	L I		dense, aub shellar share no showe			Vis.	53 W	/t. 9.2	2
		L I	F .	uense, sub charky sharp no shows	$\square$		PV 1	4 YP	' 27	
		3340					-WL	7.8		
		10040		Shale, red wash to gray to pale green, sitly, red gummy			Cak	e 1/3	2	
		F					-nH 1	0.0	-,	
		F						1100	0 000	, I
		L						1100	2 hhu	<u>'</u>
		F		Limestone white to cream microcrystalline sub bioclatic fossiliferous				u ppr		- <i></i>
		F		challey weathered acft no chowe			Sol 6	5.4 L(	TMC	<b>K#</b> ]
		L I		chaiky, weathered, son, no shows			DMC	\$16	4.25	
		L					CMC	\$71	36.30	)
		L								
		2260		TD 3360' -1463						
	-ofo @2260' 0047-	2300								
10 3300	UIS WOODU UOI/-	L								
	nis //1//14	L								
		L								
		Γ I	1 1 1							