KOLAR Document ID: 1348177

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

Form ACO-1
January 2018
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.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)
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	Elevation: Ground: Kelly Bushing:
☐ Gas ☐ DH ☐ EOR	Total Vertical Depth: Plug Back Total Depth:
☐ OG ☐ GSW	Amount of Surface Pipe Set and Cemented at: Feet
CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used? Yes No
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 EOR Conv. to SWD	Duilling Flyid Management Dlen
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
	Chloride content: ppm Fluid volume: bbls
Commingled Permit #:	Dewatering method used:
Dual Completion Permit #:	
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	Operator Name:
GSW Permit #:	Lease Name: License #:
	Quarter Sec TwpS. R
Spud Date or Date Reached TD Completion Date or 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 ☐ Drill Stem Tests Received
Geologist Report / Mud Logs Received
UIC Distribution
ALT I II Approved by: Date:

KOLAR Document ID: 1348177

Page Two

Operator Name:					Lease Nam	ne:			Well #:	
Sec Tw	pS. F	R [East	West	County:					
open and closed and flow rates if	, flowing and sh gas to surface t ty Log, Final Lo	nut-in pressurest, along wit	es, whe h final c ain Geo	ther shut-in pre hart(s). Attach physical Data a	essure reached extra sheet if r and Final Electr	station more : ric Loc	level, hydrosta space is needed	tic pressures, d.	bottom hole tempe	val tested, time tool erature, fluid recovery, Digital electronic log
Drill Stem Tests (Attach Addit			Ye	es No		Lo	og Formatio	n (Top), Deptl	n and Datum	Sample
Samples Sent to	Geological Sur	vey	Ye	es 🗌 No		Name)		Тор	Datum
Cores Taken Electric Log Run Geologist Repor List All E. Logs F	t / Mud Logs		Y€ Y€	es No						
			Repo		RECORD [Nev	w Used rmediate, producti	on. etc.		
Purpose of St		ze Hole Orilled	Siz	e Casing (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
				ADDITIONAL	OF MENTING /					
Purpose:	[Depth	Typo	of Cement	# Sacks Use		EEZE RECORD	Typo a	nd Percent Additives	
Perforate Protect Ca Plug Back	Top	Bottom	туре	or cement	# Sacks Use	,u		туре а	ia Percent Additives	
Plug Off Z										
Did you perform Does the volum Was the hydraul	e of the total base	fluid of the hyd	draulic fra	cturing treatmen		•	Yes ns? Yes	No (If No	, skip questions 2 an , skip question 3) , fill out Page Three o	,
Date of first Produ	ction/Injection or	Resumed Produ	uction/	Producing Meth			Coolift 0	thor (Fundain)		
Estimated Produc	otion	Oil Rh	le.	Flowing	Pumping			ther <i>(Explain)</i> bls.	Gas-Oil Ratio	Gravity
Per 24 Hours		Oil Bbls. Gas Mcf Wa		vvale	ı Di	JIS.	Gas-Oil Hallo	Gravity		
DISPO	OSITION OF GAS	S:		N	METHOD OF CO	MPLE.	TION:		PRODUCTIO	N INTERVAL:
Vented	Sold Use	d on Lease		Open Hole		Dually		nmingled	Тор	Bottom
(If vente	ed, Submit ACO-18	.)			(5	SUDITIIL I	ACO-5) (Subi	mit ACO-4)		
Shots Per Foot	Perforation Top	Perforation Bottom	on	Bridge Plug Type	Bridge Plug Set At		Acid,		Cementing Squeeze Kind of Material Used)	Record
TUBING RECOR	D: Size:		Set At:		Packer At:					

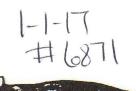
Form	ACO1 - Well Completion
Operator	RL Investment, LLC
Well Name	HOBBS 2-24
Doc ID	1348177

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Type and Percent Additives
Production	7.875	5.5	15.5	4064	Class A	3% gel, 2% CC
Surface	12.25	8.625	20	200	common	3% CC 2% gel



P. O. Box 466 Ness City, KS 67560 Off: 785-798-2300



Invoice

DATE	INVOICE #
12/5/2016	29510

BILL TO

R.L. Investment HC-1, Box 63 Morland, KS 67650-9718

- Acidizing
- Cement
- Tool Rental

TERMS Well	No.	Lease	County	Contractor	Wel	II Туре	W	ell Category	Job Purpose	Operator
Net 30 #2-2	24	Hobbs	Graham	STP Drilling		Oil	D	evelopment	2 Stage Long Stri.	David E.
PRICE REF.			DESCRIPT	TION		QTY	,	UM	UNIT PRICE	AMOUNT
575D 579D 290 281 221 402-5 403-5 407-5 408-5 411-5 330 325 284 283 285 276 581D 583D	Pum D-A Mud Liqu 5 1/2 5 1/2 5 1/2 5 1/2 5 1/2 Swiff Stand Calse Salt CFR Floce Serv Dray Subt	ir I Flush Id KCL (Clayfix 2" Centralizer 2" Cement Baske 2" Insert Float St 2" D.V. Tool & F 2" Recipo Scratch 2" D.V. Latch Do fit Multi-Density dard Cement eal I-1 ele ice Charge Ceme vage	et noe With Auto Plug Set her own Plug & Ba Standard (MID	iffle			1 7 7 0000 4 8 2 1 1 27 1 275 175 8 950 100 113 450	Miles Job Gallon(s) Gallon(s) Each Each Each Each Each Sacks Sacks Sack(s) Lb(s) Lb(s) Lb(s) Ton Miles	5.00 1,700.00 42.00 1.25 25.00 60.00 250.00 300.00 3,250.00 45.00 200.00 15.75 12.25 30.00 0.20 4.50 2.25 1.50 0.75	300.00 1,700.00 294.001 1,250.001 100.001 480.001 300.001 3,250.001 1,215.001 200.001 4,331.251 2,143.751 240.001 190.001 450.001 254.251 675.00 996.00 18,869.25 1,139.87

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	S	
CHARGE TO:	RL INVESTMENT	CITY STATE ZIP CODE

29510

TICKET

(

			-									-	Ø	
SERVICE LOCATIONS) WELLIF	WELL/PROJECT NO.		LEASE		COUNTY/PARISH		CITY			DATE	MO	OWNER	
1 1442		2.27		He	Hobbs	Graham	KS				12-5-16	٩		
2 NESS CITY	3	TICKET TYPE CONT SERVICE SALES	CONTRACTOR STP D	rillin	20	RIG NAME/NO.	SHIPPED	SHIPPED DELIVERED TO	100		ORDER NO.			
· · ·	WELL TYPE	TYPE		WELL C.	WELL CAPEGORY	3		WELL PERMIT NO.	NO.		WELL LOCATION	NC		
REFERRAL LOCATION	INVOICE	INVOICE INSTRUCTIONS	NS	2	Dewlooment	o state Cong String	J-Ling 1							
PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER		ACCOUNT LOC ACCT	ACCOUNTING ACCT DF		DESCRIPTION		OTY.	NM	QTY. U/M	UNIT	<u></u> ≡ 33	AMOUNT	
SŦS			-		MILEAGE 1 12	TRE # 113		9	, <u>₹</u>			25	360	20
579			_		Pomp C	PUMP CHROGE-TWO STINGE	. 35		EA		1700	00	1700	00
290					D-AiR			t	Col		7	20 (3	20/ HbC	8
381			_		MUDERUSH	SH		1000 Con	Gme			52	1250	000
221					Liguid	Lec		4	58		25	8	1,00	6
Lps			_		CENTRALIZER	LIZER		8	60	14,5	09	3	480	00
463					CEMENT	CEMENT BASKET		2	8		250	8	500	8
toh			_		INSERT	INSERT FLOAT SHOE W/ AUTO FIL	IN FILL		EA		300	8_	300	8
408			_		D.V. To	D.V. Tool & Plug Set			ER		3350	3	3355	00
==			_		Recipo	SCRATCHER		37	64		45	200	1215	8
414					D.V. C.A.	LIGHTH DOWN PING & BARFIE	Specie	_	P.P.		200	000	200	20
LEGAL TERMS: (LEGAL TERMS : Customer hereby acknowledges and agrees to	nowledges	and agree	es to			SURVEY	EY	AGREE	UN- DIS- DECIDED AGREE		D. 1	9589	20
		,	,		בעב	DENIT DAVANTAL TO:			-			DACE TOTAL	ı	

the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS IME SIGNED DATE SIGNED

SWIFT SERVICES, INC. NESS CITY, KS 67560 LINE PATMENTO. P.O. BOX 466 785-798-2300

9280 38 18869 TOTAL CUSTOMER DID NOT WISH TO RESPOND 2 WE OPERATED THE EQUIPMENT
AND PERFORMED JOB
CALCULATIONS
SATISFACTORILY?
ARE YOU SATISFIED WITH OUR SERVICE? OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?
WE UNDERSTOOD AND MET YOUR NEEDS? PERFORMED WITHOUT DELAY? □ YES **OUR SERVICE WAS**

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket. APPROVAL

A.M.

DAVID FOGERARY

SWIFT OPERATOR

Thank You!

N. S.
Sens

TICKET CONTINUATION

29510 TICKET No.

うと		PO Box 466		IICKEI CON INOAIION		No. 29510	01
Sexuices,	Inc.	Ness City, KS 67560 Off: 785-798-2300		CUSTOMER RL INVESTIMENTS	WELL LOBBS 3-24	DATE 12-5-16	PAGE OF A
PRICE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC ACCT DF	TIME	DESCRIPTION	MU YTO MU		AMOUNT
330				Swith Month News Lu	5%5		4331 25
325		7		STANDARD COMERS!		12 28	† –
284	2	Ø			8 548	30 80	240 00
283		3		Spect	950 65	30	190 00
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	v						
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5							
-							_
581		8	S	5	CUBIC FEET 450 SK8	25	075 00
583				MILEAGE TOTAL WEIGHT LOADED MILES CHARGE LUDGES	TON MILES	R	20 966

9230.25

CONTINUATION TOTAL

SWIFT Services, Inc. JOB LOG LEASE HOBBS CUSTOMER TICKET NO. 29510 WELL NO. JOB TYPE Investments TWO STAGE PRESSURE (PSI) VOLUME (BBL) (GAL) DESCRIPTION OF OPERATION AND MATERIALS TC TUBING CASING 600 DIATION RTD - 4060 TOTAL PIPE - 4064 Shoe - 20 BREELE - 4044 - D.V. 7001 - 2110 CENTROLIZERS - 3, 4, 4, 7, 9, 2, 11, 45 BASVETS- 13, 46 Flort EDVIPMENT RUN BY PRESTON 745 Pump MUDFIUSH - 500 GAR 12 200 20 200 Rump Kar Spreek 755 PLMP CMT - 175 EA-2 @ 15.5 ppg 42 200 Drop plus 810 0 START DISP W/ WTR 200 46 Disp W/ MUD 200 835 96 400 LAND Plug - Lift - 860 LAND-1400 845 DROP BOMB-WASH TRK 855 Open D.V. 1400 900 Break Circ -1150 Plua RAT Hole - 30 SKS 1155 12 POMP MUDFIUSH - 500 GAL 20 Pump Kel Spreek-35 400 Dump CMT-245 SKS SMD @ 11.2 prop plus 1245 50 DISPLACE CMT 600/1700 50 CIRCULATED 70 SKS CMT topit MANKS ISAAC P Preston



7103

LOCATION 100 Kley Kg

	1410, 110 00120	IELD TICKET & TREAT			400	
-431-9210 or		CEMENT		112 # W		KS
		VELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1-25-16 STOMER	7/7/ 1/8	66s 2-24	24	105	250	Grahm
	KL Tour	5 tments StPater	TRUCK#	DRIVER	TRUCK#	DRIVER
ILING ADDRESS			731	Cory 1		
169870	TERRACE	Ninto -	4160	Keithe		
fillaty	STATE	57642	639			
B TYPE_Sa	face HOLE SIZE	12/4 HOLE DEPTH	212	CASING SIZE &	WEIGHT 8	1/8 23A
SING DEPTH	214 DRILL PIPE	TUBING			OTHER	
URRY WEIGHT_	148 SLURRY VO	DL 1.24 WATER gal/sk		CEMENT LEFT IN	CASING	0'
SPLACEMENT_	1266 DISPLACE	MENT PSI MIX PSI		RATE		
EMARKS: 5	aftymecting	* ria un on STA	D#1	break ci	rculation	with
ia tree /	· (11 m 10)		wash up			
786 K	0 = shulin	Cloculo Lat and	10× 46	1 40 0:	1	4 00
1 1 100	3-14/	CITCARO SUP		1 Vps		
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Cons	SVY O	đ				***************************************
000	· late		***************************************		-11	
CITC	aranc				/ MANK	404
***************************************					Jerryo	-crew
					, ,	_
CODE	QUANITY or UNITS	DESCRIPTION of S	SERVICES or PRO	DUCT	UNIT PRICE	TOTAL
ENTIL	7	DUMP CHARCE			115000	11500
	30	PUMP CHARGE			7/2	21450
E0002	30	MILEAGE	1.		1 1200	7/90
601117	1.52	ton mileage de	elivery	(mi1)	66000	660-
		V				
C5871	160 SKs	Surface bland	IT	***************************************	2300	3680
	*					
	6				5 abtotal	5704
				-46	% discourt	25170
				\mathcal{L}		23675
					Subtotal	3/3/
				7		

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	1		<i>,</i>			
	1					101 4
vin 3737	1				SALES TAX	151.81
					ESTIMATED	3289 2
	11/1/11				IOIAL	251.6
UTHORIZTION_	butter	TITLE			DATE	

account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



DIAMOND TESTING, LLC P.O. Box 157

HOISINGTON, KANSAS 67544-0157 (800) 542-7313

DRILL-STEM TEST TICKET

FILE: HOBBS 77 74 155

TIME ON:	1845 1130
TIME OFF:	0330 12-1

Company K.L. INVESTIMENTS ILC	Lease & Well No. HOEE	5 224
Contractor STP SKILLING LhC	Charge to K. L. Julkst.	MENT LLC
Elevation 1460 Formation Aus A 48	_Effective Pay	Ft. Ticket No. 401417
Date_//-30-16 Sec	ingeW County_	RAHAM State KANSAS
Test Approved By	Diamond Representative	ALCOMARREIRA CARROLL
Formation Test No Interval Tested from//	ft. toft. Tota	al Depth 3816 ft.
Packer Depth 5/65 ft. Size 6 3/4 in.	Packer depth	ft. Size6 3/4 ** in.
Packer Depth ft. Size 6 3/4 in.	Packer depth	ftSize6_3/4in.
Depth of Selective Zone Set		
Top Recorder Depth (Inside)ft.	Recorder Number 5950	Cap. F.S.I.
Bottom Recorder Depth (Outside)ft.	Recorder Number 0230	Cap. 5K P.S.I.
Below Straddle Recorder Depthft.	Recorder Number	_CapP.S.I.
Mud Type ////// Viscosity //	Drill Collar Length 122	ft. I.D. <u>2 1/4</u> in.
Weight 92 Water Loss cc.	Weight Pipe Length_	_ft. I.D2 7/8in.
Chlorides 1500 P.P.M.	Drill Pipe Length 3623	_ft. I.D in.
Jars: Make STERLING Serial Number MA	Test Tool Length	ft. Tool Size 3 1/2-IF in.
Did Well Flow? Reversed Out 10	Anchor Length 45 (13.5A)	ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 / in.	Surface Choke Size 1	in. Bottom Choke Size 5/8 in.
		- //
Blow: 1st Open: 1004 SUD 10 To GOTTOM (1'E)	ON BLAD CFF) NOS	- Bush 10/14 1085
2nd Open: 10 Show - Buing To 1/4'	in 45 Hours	- BUILT 10/14 1088
2nd Open: //	IN 45 HINGTH	- BUINT 10/14 LOSE
2nd Open: No Brew-Burns To 11/4	IN 45 TINUTA	- BUINT 10/14 1088
2nd Open: 10 Brow - Eding To 11/4! Recovered 127 ft. of 100 100 76 14		- BUINT 10/14 1688
Recovered 127 ft. of MUD 100 % M Recovered 127 ft. of TOTAL FAUID		THANK YOU
2nd Open: 6 Bhew - Eding To IIII Recovered ft. of 100 76 14 Recovered ft. of TOTAL FLUID Recovered ft. of		THANK YOU Price Job
2nd Open: 6 Brew - Eding To My Recovered ft. of 100 % Recovered ft. of Recovered ft. of Recovered ft. of		THANK YOU
Recovered ft. of TOTAL FLUID Recovered ft. of Recovered ft. of Recovered ft. of ft. o		THANK YOU Price Job
Recovered ft. of TOTAL FLUID Recovered ft. of Recovered		Price Job Other Charges SHALK PLA Insurance
Recovered ft. of 100 100 100 100 100 100 100 100 100 10	THEINSPREKS	Price Job Other Charges SHALK PLA
Recovered ft. of TOTAL FLUID Recovered ft. of Recovered	MH EINSPRENS >196 DIN	Price Job Other Charges SHALK PLA Insurance
Recovered ft. of /// Recovered ft. of /// Recovered ft. of /// Recovered ft. of // Remarks: // A.M.	MH EINSPRENS >196 DIN	Price Job Other Charges SHALL PLA
Recovered ft. of ft. of Recovered ft. of Recovered ft. of	MH EINSPIERS >196 DIN Ottom 11:38 A.M. P.M. Mai	Price Job Other Charges SHALL PLANT Insurance Total ximum Temperature 110 F
Recovered ft. of ft. of Recovered ft. of Recovered ft. of ft. of A.M. Time Set Packer(s) P.M. Time Started Off Bollnitial Hydrostatic Pressure.	17H EIN SPINENS > 196 OIN Ottom 11:38 A.M. P.M. Max.	Price Job Other Charges SHALL PLANT Insurance Total ximum Temperature 110 F
Recovered ft. of ft. of Recovered ft. of Recovered ft. of ft. of A.M. Recovered ft. of Remarks: Time Set Packer(s)	ottom 11:38 A.M. Ma. (A) 1821 P.S.I. (B) 43 P.S.I.	Price Job Other Charges SIALA PLA Insurance Total ximum Temperature // 0 7 D (C) 63 P.S.I.
Recovered ft. of ft. of Recovered ft. of Recovered ft. of ft. of A.M. Recovered ft. of Remarks: A.M. Time Started Off Boundard Flow Period Minutes for the Minute	ottom 11:38 A.M. P.M. Mai(A) 1821 P.S.I. to (B) 908 P.S.I.	Price Job Other Charges SIALA PLA Insurance Total ximum Temperature // 0 7 D (C) 63 P.S.I.



P.O. Box 157

HOISINGTON, KANSAS 67544-0157 (800) 542-7313

DRIL	L-STE	M TES	TTICK	ET,
FILE:	168	B5#27	4/157	#2

C. 11 Turrents - 110	Lacco & Mall No Hall St #9-24
Company K. J. JAVKSTALKAST JAC	Lease & Well No. 70685 24
n/i	Charge to K.A. LNUKSTRIKET KAC
Elevation Formation Aug D	_Effective PayFt. Ticket NoFt.
DateSecS Ra	nge 5 W County State KANSAS MICHAEL
Test Approved By	Diamond Representative CARROLL
Formation Test NoInterval Tested from8/5	ft. toft. Total Depthft.
Packer Depth 3809 ft. Size 6 3/4 in.	Packer depthft. Size6 3/4in.
Packer Depth 38/5 ft. Size 6 3/4 in.	Packer depthft. Size6 3/4in.
Depth of Selective Zone Set	
Top Recorder Depth (Inside)ft.	Recorder Number 5950 Cap. 5K P.S.I.
Bottom Recorder Depth (Outside)ft.	Recorder Number 0230 Cap. 5K P.S.I.
Below Straddle Recorder Depthft.	Recorder Number Cap P.S.I.
Mud TypeHKM Viscosity48	Drill Collar Length / 12 ft. I.D. 2 1/4 in.
Weight Water Losscc.	Weight Pipe Lengthft. I.D2 7/8 in.
Chlorides 7500 P.P.M.	Drill Pipe Length
Jars: Make STERLING Serial Number	Test Tool Length ft. Tool Size 3 1/2-IF in.
Did Well Flow? Reversed Out	Anchor Lengthft. Size4 1/2-FHin.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 / in.	Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
Blow: 1st Open: 158- 64115 To 11/2" 11/2"	30 MINUTES LOBE
2nd Open: 10 Brown - Reliet To 1/2	"10 45 MINUTER 1/000
Recovered 65 ft. of MW 65 96 W 35 96 A	1 JUNEAUXS 34000 PPM
Recovered 65 ft. of TOTAL FALLO	RW. 3 Q 550F
Recoveredft. of	PH 7
Recoveredft. of	THANK YOU
Recoveredft. of	Price Job
Recoveredft. of	Other Charges 1 SHALETR
Remarks: Tour Sample: 5390W 4790	Insurance
WITH A FEW DIN	SPECKS
	Total
Time Set Packer(s) A.M. Time Started Off Bo	ttom
Initial Hydrostatic Pressure	(A) 1849 P.S.I.
Initial Flow Period Minutes	(B) /2 P.S.I. to (C) 3/ P.S.I.
Initial Closed In PeriodMinutes	(D) 6// P.S.I.
Final Flow PeriodMinutes	(E) 34 P.S.I. to (F) 44 P.S.I.
Final Closed In PeriodMinutesMinutes	(G) 4/62 P.S.I.
Final Hydrostatic Pressure	(H) /84/ P.S.I.



DIAMOND TESTING, LLC P.O. Box 157

HOISINGTON, KANSAS 67544-0157 (800) 542-7313

DRILL-STEM TEST TICKET

FILE: HORRS 19 157

TIME ON: _	1720	12	2
TIME OFF:	0140	12.	3

Company K. L. INVESTMENT LLC	Lease & Well No. HOBBS #2-24
Contractor TP Skilling LhC	Charge to R.L. INUKSTMENT ALC
Elevation 2460 Formation ANS/XC H	_Effective PayFt. Ticket No. P0/4/9
Date 12-1-16 Sec. 24 Twp. 10 S Rai	nge W County GRAHAM State KANSAS
Test Approved By	Diamond Representative MICHAEL CARROLL
Formation Test No Interval Tested from	ft. to 3920 ft. Total Depth 3920 ft.
Packer Depth 3887 ft. Size 6 3/4 in.	Packer depthft. Size6 3/4in.
Packer Depth 3893 ft. Size 6 3/4 in.	Packer depthft. Size6 3/4in.
Depth of Selective Zone Set	
Top Recorder Depth (Inside)ft.	Recorder Number 5950 Cap. SX P.S.I.
Bottom Recorder Depth (Outside)ft.	Recorder Number 0230 Cap. 5H P.S.I.
Below Straddle Recorder Depthft.	Recorder Number Cap P.S.I.
Mud Type HAM Viscosity 53	Drill Collar Length ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 7.6 cc.	Weight Pipe Length ft. I.D. 2 7/8 in.
Chlorides 2500 P.P.M.	Drill Pipe Length
Jars: Make STERLING Serial Number MA	Test Tool Lengthft. Tool Size3 1/2-IFin
Did Well Flow? Reversed Out	Anchor Length ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 / in.	Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
Blow: 1st Open: 158 - Eulht To 1/2" 120 3	OMMUTTES NOBB
2nd Open: No Brow - No Bulling	NOBB
Recovered 5 ft. of Mun 100% M	
Recovered 5 ft. of JOTAN FAUID	
Recoveredft. of	
Recoveredft. of	THANK YOU
Recoveredft. of	Price Job
Recoveredft. of	Other Charges 13HALK PKK
Remarks: Took SAMARK: 100% M	Insurance
A.M.	Total
Time Set Packer(s) 8:20 P.M. Time Started Off Bot	ttom
Initial Hydrostatic Pressure	(A) 1881 P.S.I.
Initial Flow Period	(B)P.S.I. to (C)P.S.I.
Initial Closed In Period MinutesMinutes	(D)P.S.I.
Final Flow Period Minutes 45	(E)P.S.I. to (F)P.S.I.
Final Closed In PeriodMinutesMinutes	(G)P.S.I.
Final Hydrostatic Pressure	(H) 1864 P.S.I.



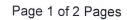
DIAMOND TESTING, LLC P.O. Box 157

HOISINGTON, KANSAS 67544-0157 (800) 542-7313

TIME ON:	1355		
TIME OFF:	2300		

DRILL-STEM TEST TICKET

FILE: HORK	5-9-24 (157-4	
Company K. L. TWUKSTMENT LLC	Lease & Well No. Hoßb	5 72 24
Contractor STP DRIVING LAC	Charge to K. L. Junks	TMENT LAC
Elevation 1460 Formation Austra J+K	_Effective Pay	Ft. Ticket No. 20150
Date //-3-/6 Sec. // Twp. /O S Ra	ngeW County_	GRAHAM State KANSAS
Test Approved By	Diamond Representative	ANDY CAPRISTES MICHAEL CARROLL
Formation Test No Interval Tested from 3943	ft. to 3984 ft. Tot	al Depth 3984 ft.
Packer Depth 3937 ft. Size 6 3/4 in.	Packer depth	
Packer Depth 3943 ft. Size 6 3/4 in.	Packer depth_	
Depth of Selective Zone Set		
Top Recorder Depth (Inside)ft.	Recorder Number 5950	Cap. 5K P.S.I.
Bottom Recorder Depth (Outside)ft.	Recorder Number 0230	Cap. 5K P.S.I.
Below Straddle Recorder Depthft.	Recorder Number	CapP.S.I.
Mud Type 4KM Viscosity 52	Drill Collar Length /22	_ft. I.D. <u>2 1/4</u> in.
Weight 9.3 Water Loss 8 cc.	Weight Pipe Length	ft. I.D2 7/8in.
Chlorides 2500 P.P.M.	Drill Pipe Length 3495	_ft. I.Din.
Jars: Make STERLING Serial Number 1/1	Test Tool Length 26	_ft. Tool Size3 1/2-IFin
Did Well Flow?Reversed Out	Anchor Length 4//	ft. Size4 1/2-FHin.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 // in.	Surface Choke Size 1	_in. Bottom Choke Size 5/8 in.
Blow: 1st Open: 1/2" Bury - Bush To Bok	IN 94105 505	+05 2"BB
2nd Open: / Brow-Burn To Bob	N 941NS 4554	-cs 81/2"BB
Recovered 8/8 ft. of GAS IN PIDE		
Recovered 194 ft. of CHEAN UN GRAVIT	4 32 600=	
Recovered 12h ft. of GHOCH 12906 43	900 45901	
Recovered 316 ft. of TOTAL FAULD		THANK YOU
Recoveredft. of		Price Job
Recoveredft. of		Other Charges 154915 PKA
Remarks: 1001 SAMPLE: 17290 189	4	Insurance
A.NA	A M	Total
Time Set Packer(s) 4 4 P.M. Time Started Off Bo	ttom 7.44 P.M. Ma	ximum Temperature /2/9-
Initial Hydrostatic Pressure	(A) 1923 P.S.I.	
Initial Flow Period	(B)P.S.I. t	o (C)P.S.I.
Initial Closed In Period	(D) ///O P.S.I.	
Final Flow Period Minutes 4/5	(E) 88 P.S.I. to	o (F) 126 P.S.I.
Final Closed In PeriodMinutes 60	(G) 1093 P.S.I.	
	1000	





P.O. Box 157 **HOISINGTON, KANSAS 67544**(620) 653-7550 • (800) 542-7313 HOBBS#2-24DST#1

Company R. L. Investment, LLC	Lease & Well No. Hobbs No. 2-24	
Elevation 2460 KB Formation Lansing "A" & "B"	Effective PayFt. Ticket NoP0	147
Date11-30-16	05)4/	
Test Approved By Patrick J. Deenihan	Diamond Representative Michael Carroll	-
Formation Test No1 Interval Tested from	3,771 ft. to 3,816 ft. Total Depth 3,816 ft	
Packer Depth3,765 ft. Size 6 3/4 in.	Packer Depthft. Sizein.	
Packer Depth3,771 ft. Size6 3/4 in.	Packer Depthft. Sizein.	
Depth of Selective Zone Setft.		
Top Recorder Depth (Inside) 3,758 ft.	Recorder Number5950 Cap5,000) psi
Bottom Recorder Depth (Outside) 3,808 ft.	Recorder Number 0230 Cap. 5,000	
Below Straddle Recorder Depthft.	Recorder NumberCap	
Drilling Contractor STP Drilling, LLC - Rig 1	Drill Collar Length122 ft I.D2 1	
Mud TypeChemicalViscosity49	Weight Pipe Lengthft I.D	
Weight 9.2 Water Loss 7.6 cc.	Drill Pipe Length 3,623 ft I.D. 3 1.	
ChloridesP.P.M.	Test Tool Length 26 ft Tool Size 3 1/2-	
Jars: MakeSterling Serial Number_ Not Run	Anchor Length 14' perf. w/31' drill pipe Size 4 1/2-F	
Did Well Flow? No Reversed Out No	Surface Choke Size1in. Bottom Choke Size5	
	Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-X	
Blow: 1st Open: Tool slid 10 ft. to bottom. 1 in. blow. Bled off. Weak, surfa 2nd Open: No blow increasing to 1 1/4 ins. in 45 mins. No blow back		
Recovered 127 ft. of mud = .671390 bbls. (Grind out: 100%-mud)		
Recoveredft. of		
Recoveredft. of		
Recoveredft. of		
Recovered ft. of		
Recovered ft. of Remarks ^T ool Sample Grind Out: 100%-mud w/oil specks >1%	4 oil	
Remarks	0 011	
	•	
Time Set Packer(s)9:38 P.M Time Started off Bottor	m12:38 A.M. Maximum Temperature 110°	
Initial Hydrostatic Pressure(A)	1821 P.S.I.	
Initial Flow PeriodMinutes30 (B)_	43 P.S.I. to (C)63 P.S.I.	
Initial Closed In PeriodMinutes 45 (D)	908 P.S.I.	
Final Flow PeriodMinutes 45 (E)	64 P.S.I to (F)	
Final Closed In PeriodMinutes60 (G)_	903 P.S.I.	
Final Hydrostatic Pressure(H)_	1814 P.S.I.	



Michael Carroll 620-617-0368 carroll.dtllc@gmail.com

Hoisington, Kansas

General Information

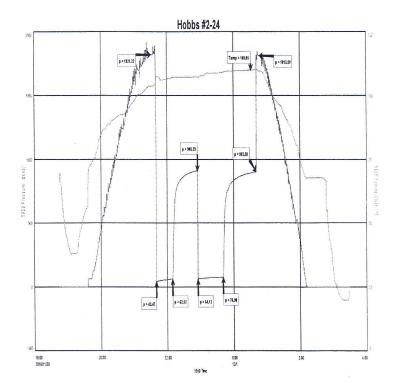
Company Name R. L. Investment, LLC

Contact
Well Name
Unique Well ID
Surface Location
Field
Well Type
Test Type
Well Operator

Randall Pfeifer
Hobbs #2-24
Dst #1 Lans "A&B" 3771-3816'
Sec 24-10s-25w Graham County
Martha Washington East
Vertical
Drill Stem Test
R. L. Investment, LLC

Formation
Well Fluid Type
Test Purpose
Start Test Date
Start Test Time
Final Test Time
Job Number
Report Date
Prepared By

Dst #1 Lans "A&B" 3771-3816' 01 Oil Initial Test 2016/11/30 18:45:00 03:30:00 P0147 2016/11/30 Michael Carroll



TEST RECOVERY

Remarks Recovery:

127'

Mud

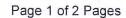
100% M

127'

Total Fluid

Tool Sample:

100% M With Oil Specks >1% Oil





P.O. Box 157 **HOISINGTON, KANSAS 67544**(620) 653-7550 • (800) 542-7313 HOBBS#2-24DST#2

Company R. L. Investment, LLC	_Lease & Well No. Hobbs	s No. 2-24	
Elevation 2460 KB Formation Lansing "D"	_ Effective Pay		Ticket No. P0148
Date12-1-16 Sec24Twp10SRange	25W County G	raham State_	Kansas
Test Approved By Patrick J. Deenihan	iamond Representative	Michae	l Carroll
Formation Test No. 2 Interval Tested from	3,815 _{ft. to} 3,83	36 ft. Total Depth	3,836 _{ft}
Packer Depth3,809 ft. Size6 3/4 in.	Packer Depth	ft. Size	
Packer Depth3,815 ft. Size6 3/4 in.	Packer Depth	ft. Siz	ein.
Depth of Selective Zone Setft.			
Top Recorder Depth (Inside) 3,802 ft.	Recorder Number	er5950_C	ap5,000 _{psi.}
Bottom Recorder Depth (Outside) 3,819 ft.	Recorder Number	er0230 C	ap5,000_psi.
Below Straddle Recorder Depthft.	Recorder Number	er C	appsi.
Drilling Contractor STP Drilling, LLC - Rig 1	Drill Collar Length	122 _{ft}	I.D. 2 1/4 in.
Mud TypeChemicalViscosity48	Weight Pipe Length		
Weight 9.3 Water Loss 7.6 cc.	Drill Pipe Length	3,667 _{ft}	I.D. 3 1/2 in.
Chlorides 2,500 P.P.M.	Test Tool Length	26 _{ft}	Tool Size 3 1/2-IF in.
Jars: Make <u>Sterling</u> Serial Number Not Run	Anchor Length	21 _{ft.}	Size4 1/2-FH_in.
Did Well Flow? No Reversed Out No	Surface Choke Size	1in. Bottom C	hoke Size5/8_in.
	Main Hole Size	77/8 in. Tool Joir	nt Size4 1/2-XH_in.
Blow: 1st Open: Weak, surface blow increasing to 1 1/2 ins. in 30 mins. No	blow back during shut-in.		
2nd Open: No blow increasing to 1/2 in. in 45 mins. No blow back dur	ng shut-in.		
Recovered 65 ft. of muddy water = .319800 bbls. (Grind out: 65%-w	ater: 35%-mud) Chlorides: 34.00	00 Ppm PH: 7.0 RW: :	30 @ 55°
Recovered ft. of			
Recoveredft. of	1		
Recovered ft. of			
Recovered ft. of			
Recovered ft. of			
Remarks_Tool Sample Grind Out: 53%-water; 47%-mud w/a fe	w oil specks		
Time Set Packer(s) 4:06 P.M. Time Started off Botton		Maximum Tempera	ture109°
Initial Hydrostatic Pressure(A)_			
Initial Flow PeriodMinutes(B)_	12 P.S.I.	to (C)	31 P.S.I.
Initial Closed In PeriodMinutes45(D)_	611 _{P.S.I.}		
Final Flow PeriodMinutes 45 (E)	34 P.S.I	to (F)	<u>44</u> P.S.I.
Final Closed In PeriodMinutes60(G)_	462 P.S.I.		
Final Hydrostatic Pressure(H)_	1841_P.S.I.		



Michael Carroll 620-617-0368 carroll.dtllc@gmail.com

Hoisington, Kansas

General Information

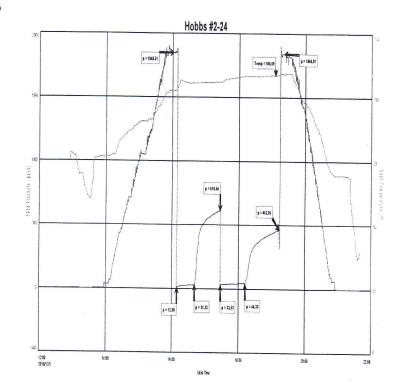
Company Name R. L. Investment, LLC

Contact
Well Name
Unique Well ID
Surface Location
Field
Well Type
Test Type
Well Operator

Randall Pfeifer Hobbs #2-24 Dst #2 Lans "D" 3815-3836' Sec 24-10s-25w Graham County Martha Washington East Vertical Drill Stem Test R. L. Investment, LLC

Formation
Well Fluid Type
Test Purpose
Start Test Date
Start Test Time
Final Test Time
Job Number
Report Date
Prepared By

Dst #2 Lans "D" 3815-3836'
06 Water
Initial Test
2016/12/01
12:55:00
21:40:00
P0148
2016/12/01
Michael Carroll



TEST RECOVERY

Remarks Recovery:

65' MW

65% W 35% M

65' Total Fluid

Tool Sample:

53% W 47% M With A Few Oil Specks

Chlorides: 34,000 PPM

PH: 7

RW: .3 @ 55 Degrees



P.O. Box 157 HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313 HOBBS#2-24DST#3

Company R. L. Investment, LLC	Lease & Well No. Hobbs No. 2-	24
Elevation2460 KBFormation_Lansing/Kansas City "H"_	Effective Pay	
Date <u>12-2-16</u> Sec. <u>24</u> Twp. <u>10S</u> Range	e25WCountyGraham	State Kansas
Test Approved ByPatrick J. Deenihan	Diamond Representative	Michael Carroll
Formation Test No3 Interval Tested from	3,893 _{ft. to} 3,920 _{ft.}	Total Depth3,920 ft
Packer Depth3,887 ft. Size6 3/4 in.		ft. Sizein.
Packer Depth3,893 ft. Size6 3/4 in.	Packer Depth	ft. Sizein.
Depth of Selective Zone Setft.		
Top Recorder Depth (Inside) 3,880 ft.	Recorder Number	5950 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 3,897 ft.	Recorder Number	0230 Cap. 5,000 psi.
Below Straddle Recorder Depthft.	Recorder Number	psi.
Drilling Contractor STP Drilling, LLC - Rig 1	Drill Collar Length	122 ft I.D. 2 1/4 in.
Mud TypeChemicalViscosity53	Weight Pipe Length	ft I.Din.
Weight9.2 Water Loss7.6 cc	Drill Pipe Length	3,745 ft I.D. 3 1/2 in.
Chlorides 2,500 P.P.M.	Test Tool Length	26 ft Tool Size 3 1/2-IF in.
Jars: Make <u>Sterling</u> Serial Number Not Run	Anchor Length	27 ft. Size4 1/2-FH in.
Did Well Flow?No Reversed OutNo	Surface Choke Size1in.	Bottom Choke Size5/8 in.
	Main Hole Size7 7/8 in.	Tool Joint Size 4 1/2-XH in.
Blow: 1st Open: Weak, surface blow increasing to 1/2 in. in 30 mins. No 2nd Open: No blow. No build. No blow back during shut-in. Recovered 5 ft. of mud = .024600 bbls. (Grind out: 100%-mud)	blow back during shut-in.	
Recovered ft. of Recovered ft. of		
Recoveredft. of		
Recoveredft. of		
Recovered ft. of		
Remarks Tool Sample Grind Out: 100%-mud		
		•
Time Set Packer(s) 8:20 P.M. Time Started off Bot		m Temperature111°
Initial Hydrostatic Pressure(A)P.S.I.	
Initial Flow PeriodMinutes(B	·	14 P.S.I.
Initial Closed In PeriodMinutes45 (E		
Final Flow PeriodMinutes45(E	/	17 P.S.I.
Final Closed In PeriodMinutes60 (G	5)P.S.I.	
Final Hydrostatic Pressure(F	I)P.S.I.	



Michael Carroll 620-617-0368 carroll.dtllc@gmail.com

Hoisington, Kansas

General Information

Company Name R. L. Investment, LLC

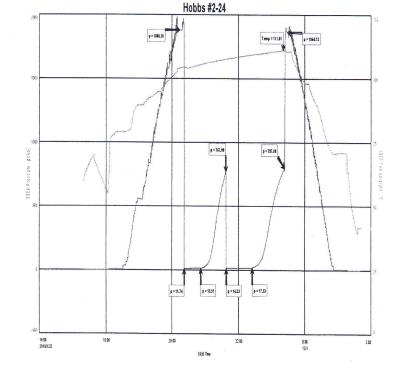
Contact
Well Name
Unique Well ID
Surface Location
Field
Well Type
Test Type
Well Operator

Randall Pfeifer
Hobbs #2-24
Dst #3 Lans/KC "H" 3893-3920'
Sec 24-10s-25w Graham County
Martha Washington East
Vertical
Drill Stem Test
R. L. Investment, LLC

Formation
Well Fluid Type
Test Purpose
Start Test Date
Start Test Time
Final Test Time
Job Number
Report Date

Prepared By

Dst #3 Lans/KC "H" 3893-3920'
01 Oil
Initial Test
2016/12/02
17:20:00
01:40:00
P0149
2016/12/02
Michael Carroll



TEST RECOVERY

Remarks Recovery:

5'

Mud

100% M

5' Total Fluid

Tool Sample:

100% M

P.O. Box 157 **HOISINGTON, KANSAS 67544**(620) 653-7550 • (800) 542-7313

HOBBS#2-24DST#4

Company R. L. Investment, LLC	Lease & Well No. Hobbs No. 2-2	4
Elevation 2460 KB Formation Lansing/Kansas City "J" & "	K" Effective Pay	Ft. Ticket No. P0150
Date12-3-16 Sec24Twp10SRang	0.5747	State Kansas
Test Approved By Patrick J. Deenihan	_ Diamond Representative	Michael Carroll
Formation Test No. 4 Interval Tested from	3,943 ft. to 3,984 ft. To	otal Depth3,984_ft
Packer Depth3,937 ft. Size6 3/4 in.	Packer Depth	
Packer Depth3,943 ft. Size6 3/4 in.	Packer Depth	
Depth of Selective Zone Setft.		
Top Recorder Depth (Inside) 3,930 ft.	Recorder Number_	5950 Cap. 5,000 psi.
Bottom Recorder Depth (Outside)ft.	Recorder Number	0230 Cap. 5,000 psi.
Below Straddle Recorder Depthft.	Recorder Number	
Drilling Contractor STP Drilling, LLC - Rig 1	Drill Collar Length	122 ft I.D. 2 1/4 in.
Mud Type Chemical Viscosity 52	Weight Pipe Length	
Weight 9.3 Water Loss 8.0 co		3,795 ft I.D. 3 1/2 in.
Chlorides 2,500 P.P.M.	Test Tool Length	
Jars: Make Sterling Serial Number Not Run	Anchor Length	
Did Well Flow? No Reversed Out No	4	Bottom Choke Size 5/8 in.
	Main Hole Size7 7/8 in.	Tool Joint Size 4 1/2-XH in.
Blow: 1st Open: 1/2 in. blow increasing. Off bottom of bucket in 9 mins. 4st 2nd Open: 1 in. blow increasing. Off bottom of bucket in 9 mins. 4st 2nd Open: 1 in. blow increasing. Off bottom of bucket in 9 mins. 4st 2nd Open: 1 in. blow increasing. Off bottom of bucket in 9 mins. 4st 2nd Open: 1 in. blow increasing. Off bottom of bucket in 9 mins. 4st 2nd Open: 1 in. blow increasing. Off bottom of bucket in 9 mins. 4st 2nd Open: 1 in. blow increasing. Off bottom of bucket in 9 mins. 4st 2nd Open: 1 in. blow increasing. Off bottom of bucket in 9 mins. 4st 2nd Open: 1 in. blow increasing. Off bottom of bucket in 9 mins. 4st 2nd Open: 1 in. blow increasing. Off bottom of bucket in 9 mins. 4st 2nd Open: 1 in. blow increasing. Off bottom of bucket in 9 mins. 4st 2nd Open: 1 in. blow increasing. Off bottom of bucket in 9 mins. 4st 2nd Open: 1 in. blow increasing. Off bottom of bucket in 9 mins. 4st 2nd Open: 1 in. blow increasing. Off bottom of bucket in 9 mins. 4st 2nd Open: 1 in. blow increasing. Off bottom of bucket in 9 mins. 4st 2nd Open: 1 in. blow increasing. Off bottom of bucket in 9 mins. 4st 2nd Open: 1 in. blow increasing. Off bottom of bucket in 9 mins. 4st 2nd Open: 1 in. blow increasing. Off bottom of bucket in 9 mins. 4st 2nd Open: 1 in. blow increasing. Off bottom of bucket in 9 mins. 4st 2nd Open: 1 in. blow increasing. Off bottom of bucket in 9 mins. 4st 2nd Open: 1 in. blow increasing. Off bottom of bucket in 9 mins. 4st 2nd Open: 1 in. blow increasing. Off bottom of bucket in 9 mins. 4st 2nd Open: 1 in. blow increasing. Off bottom of bucket in 9 mins. 4st 2nd Open: 1 in. blow increasing. Off bottom of bucket in 9 mins. 4st 2nd Open: 1 in. blow increasing. Off bottom of bucket in 9 mins. 4st 2nd Open: 1 in. blow increasing. Off bottom of bucket in 9 mins. 4st 2nd Open: 1 in. blow increasing. Off bottom of bucket in 9 mins. 4st 2nd Open: 1 in. blow increasing. Off bottom of bucket in 9 mins. 4st 2nd Open: 1 in. blow increasing. Off bucket in 9 mins. 4st 2nd Open: 1 in. blow increasing. Off bucket in	5 secs. 8 1/2 in. blow back during shut-in. bil) Gravity: 32 @ 60° 12%-gas; 43%-oil; 45%-mud)	
Time Set Packer(s) 4:47 P.M. Time Started off Bot		Temperature121°
Initial Hydrostatic Pressure(A		
Initial Flow PeriodMinutes(B	,	77 P.S.I.
Initial Closed In PeriodMinutes45([D)P.S.I.	
Final Flow PeriodMinutes45 (E	,	126 P.S.I.
Final Closed In PeriodMinutes60 (G	6)P.S.I.	
Final Hydrostatic Pressure(H	l)P.S.I.	



Michael Carroll 620-617-0368 carroll.dtllc@gmail.com

Hoisington, Kansas

General Information

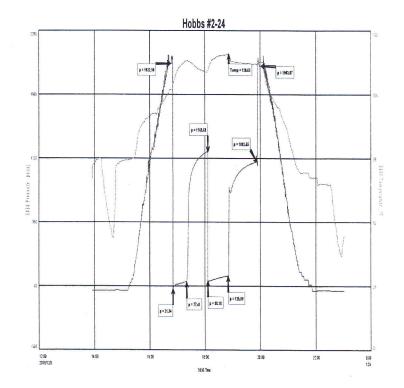
Company Name R. L. Investment, LLC

Contact **Well Name** Unique Well ID **Surface Location** Field Well Type Test Type Well Operator

Randall Pfeifer Hobbs #2-24 Dst #4 Lans/KC "J&K" 3943-3984' Sec 24-10s-25w Graham County Martha Washington East Vertical **Drill Stem Test** R. L. Investment, LLC

Formation Well Fluid Type **Test Purpose** Start Test Date Start Test Time **Final Test Time** Job Number Report Date Prepared By

Dst #4 Lans/KC "J&K" 3943-3984' 01 Oil **Initial Test** 2016/12/03 13:55:00 23:00:00 P0150 2016/12/03 Michael Carroll



TEST RECOVERY

Remarks Recovery:

818' Gas In Pipe

194'

Clean Oil Gravity: 32 @ 60 Degrees

122'

GCOM 12% G 43% O 45% M

316'

Total Fluid

Tool Sample:

72% O

28% M

Geo Log Header WellSight Systems

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

Well Name: Hobbs # 2-24

API: 15-065-24125-00-00

Location: 1405' FSL & 855' FEL

License Number: 33268 Region: Graham Co., KS Spud Date: 11-24-16 Drilling Completed: 12-04-16

Surface Coordinates: SE-SW-NE-SE of Sec: 24-!0S-25W

(1405' FSL & 855' FEL)

Bottom Hole

Coordinates:

Ground Elevation (ft): 2453'
Logged Interval (ft): 3450'
To: 4060'
K.B. Elevation (ft): 2460'
Total Depth (ft): 4060'

Formation: Lansing/ Kansas City
Type of Drilling Fluid: Chemical-Polymer

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: RL Investment, LLC.

Address: Hill City, KS.

GEOLOGIST

Name: Patrick J. Deenihan

Company: Independent Address: P.O. 781929

Wichita, KS 67278

DSTs

DST # 1 (3771'-3816) 30"-45"-45"-60"

IF: tool slid 10'-1" blow bled off. !/4' to 1.25". ISI: No Return FF: No blow buildt to 1.25". ISI: No Return

REC: 127 ' Drilling mud with oil spots in Tool.

IFP: 43#-63# FFP: 64#-77# BHT; 110 F

ISIP: 908# FSIP: 903# FHP: 1821# FHP: 1814#

DST # 2 (3815' - 3836') 30"-45"-45"-60" IF: 1.1/2" ISI: No Return

FF: 1/2" ISI: No Return
FSI: No Return

REC: 65" MW (53% Wtr., 47% Mud, with a few oil specks.) IFP: 12# -31# FFP: 34# -44# BHT; 109 F.

ISIP: 611# FSIP: 462# IHP: 1849 FHP: 1841#

DST: #3 (3893' - 3920') 30"-45"-45"-60"

IF: 1/2" ISI: No Return FSI: No Return

REC 5' Mud (100% Mud)

11 1 . 1277" 1 477 FFF . 14#"1/# ISIP: 767# FSIP: 798# IHP: 1881# FHP: 1864#

DST #4 (3943' -3984') 30"-45"-45"-60" IF: BOB in 9", 50secs. ISI: 2" Return Blow FSI: 8.5" Return Blow

REC: 818' GIP; 194' Clean Oil (Gravity = 32 @ 60 degrees F.; 122'GHOCM (12% Gas, 43% Oil & 45% Mud)

TOTAL FLUID = 316' (72% Oil & 28% Mud)

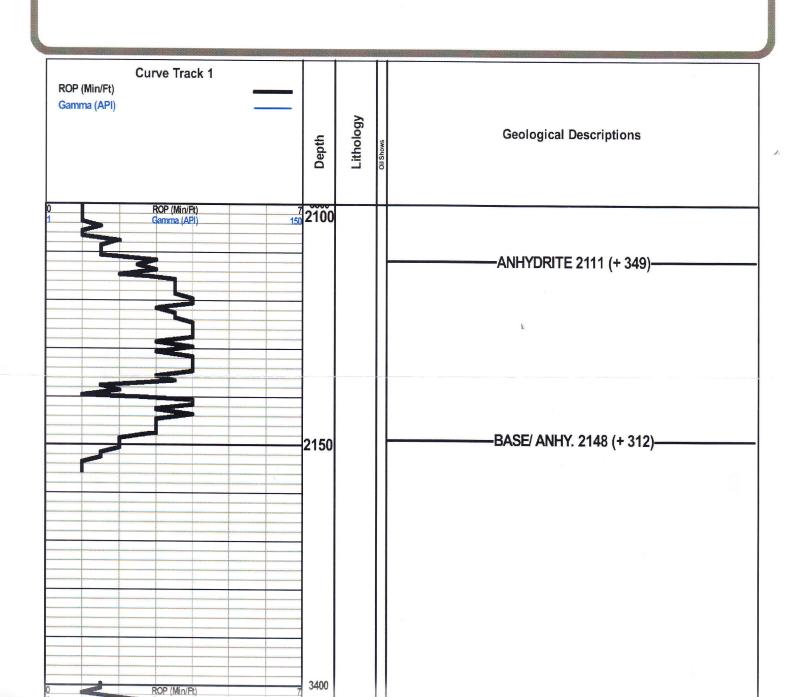
IFP: 21#-77# ISIP: 1170#

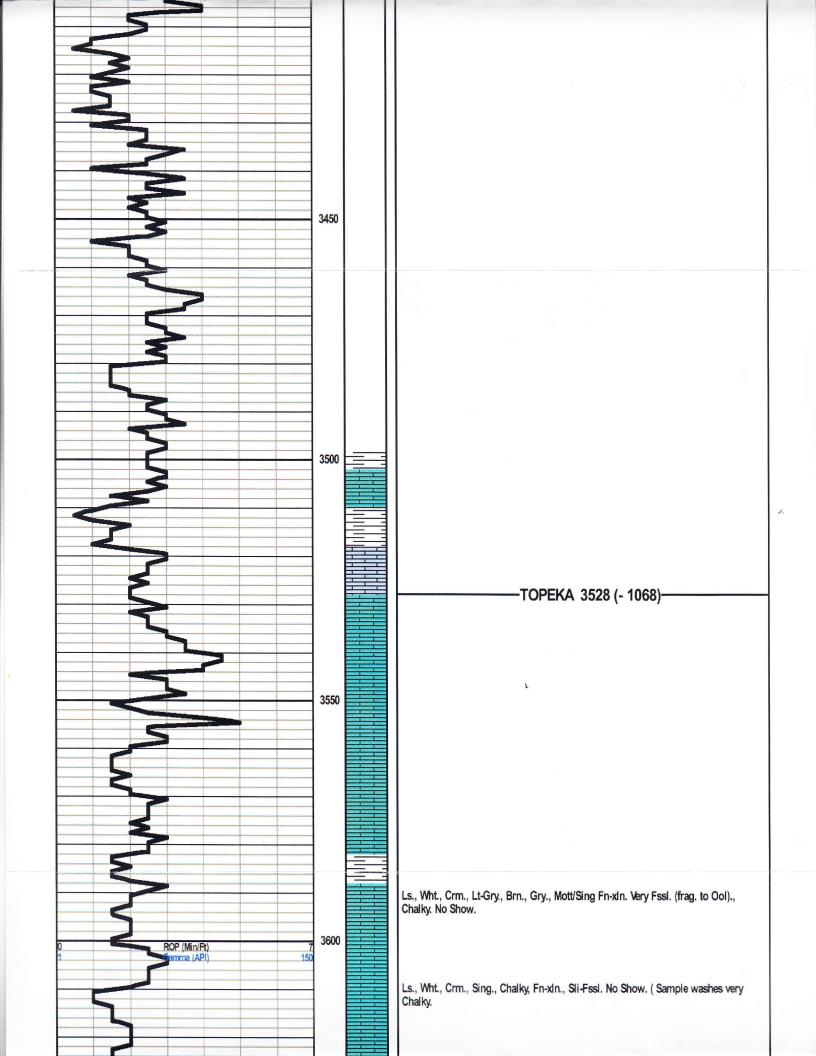
FFP: 88#-126# FSIP: 1093#

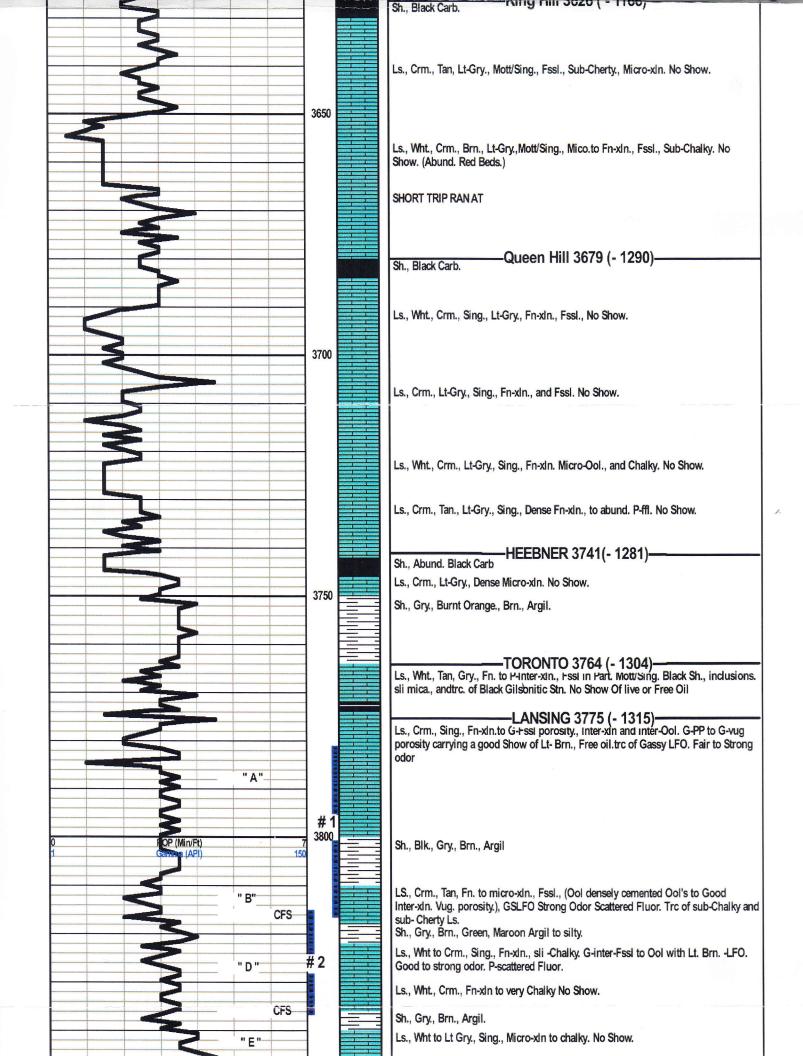
Gravity: 32 BHT: 121

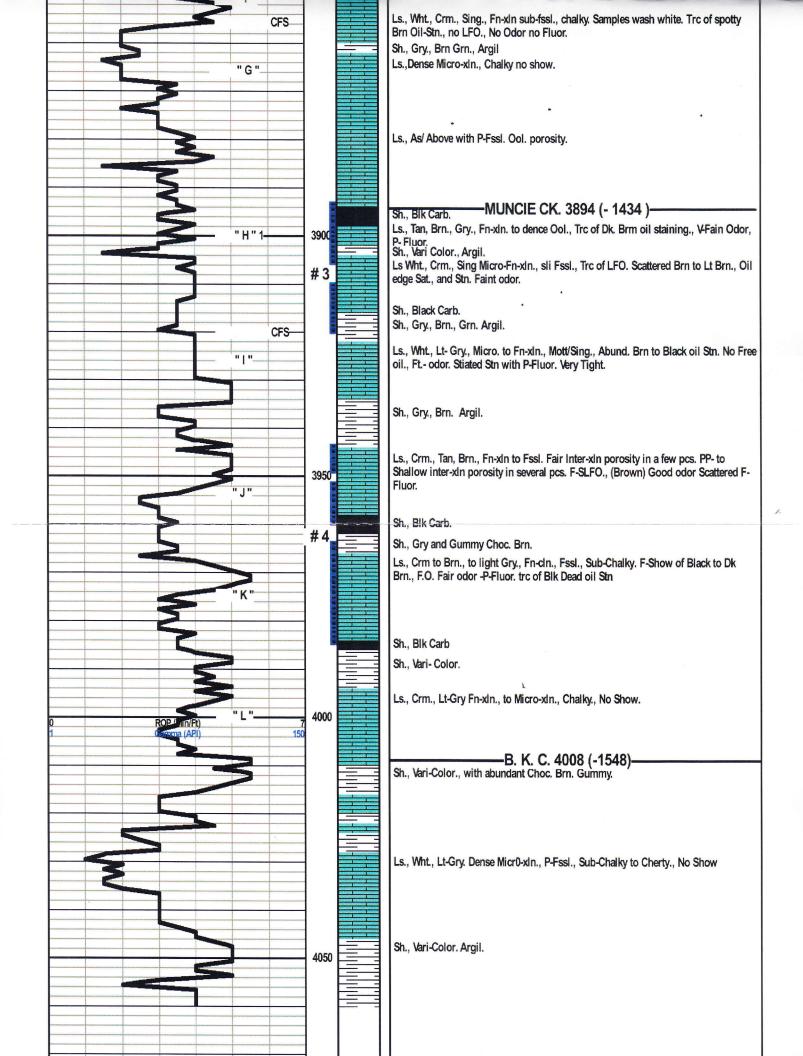
IHP: 1923#

FHP: 1903#









4100		

k.