

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1193714

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15		
Name:	Spot Description:		
Address 1:	SecTwpS. R East Wes		
Address 2:	Feet from North / South Line of Section		
City: State: Zip:+	Feet from East / West Line of Section		
Contact Person:	Footages Calculated from Nearest Outside Section Corner:		
Phone: ()	□NE □NW □SE □SW		
CONTRACTOR: License #	GPS Location: Lat:, Long:		
Name:	(e.g. xx.xxxxxx) (e.gxxx.xxxxxx)		
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84		
Purchaser:	County:		
Designate Type of Completion:	Lease Name: Well #:		
New Well Re-Entry Workover	Field Name:		
☐ Oil ☐ WSW ☐ SHOW ☐ Gas ☐ D&A ☐ ENHR ☐ SIGW ☐ OG ☐ GSW ☐ Temp. Abd. ☐ CM (Coal Bed Methane) ☐ Cathodic ☐ Other (Core, Expl., etc.): If Workover/Re-entry: Old Well Info as follows: Operator:	Producing Formation: Elevation: Ground: Kelly Bushing: Feet Total Vertical Depth: Plug Back Total Depth: Feet Multiple Stage Cementing Collar Used? Yes No If yes, show depth set: Feet If Alternate II completion, cement circulated from: sx cmt.		
Original Comp. Date: Original Total Depth: Deepening Re-perf. Conv. to ENHR Conv. to SWD Plug Back Conv. to GSW Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)		
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls Dewatering method used: Location of fluid disposal if hauled offsite: Operator Name:		
GSW Permit #:	Lease Name:		
Spud Date or Date Reached TD Completion Date or 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



Operator Name:			L	ease Name: _			Well #:	
Sec Twp	S. R	East We	est C	County:				
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ring and shut-in pres	sures, whether sh	ut-in pressur	e reached stati	c level, hydrosta	tic pressures, bott		
Final Radioactivity Lo files must be submitted					gs must be ema	iled to kcc-well-log	gs@kcc.ks.go	. Digital electronic log
Drill Stem Tests Taker (Attach Additional		Yes	No	L		n (Top), Depth an		Sample
Samples Sent to Geo	logical Survey	Yes	No	Nam	e		Тор	Datum
Cores Taken Electric Log Run		Yes Yes	No No					
List All E. Logs Run:								
		(CASING REC	ORD Ne	w Used			
		· ·		ıctor, surface, inte	ermediate, producti		T	
Purpose of String	Size Hole Drilled	Size Casin Set (In O.D		Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
		ADD	ITIONAL CEN	MENTING / SQL	JEEZE RECORD			
Purpose:	Depth Top Bottom	Type of Cem	ent #	Sacks Used		Type and Pe	ercent Additives	
Perforate Protect Casing	100 20111111							
Plug Back TD Plug Off Zone								
1 lag on zono								
Did you perform a hydrau	ulic fracturing treatment	on this well?			Yes	No (If No, ski)	o questions 2 ar	nd 3)
Does the volume of the to		•				_	o question 3)	(" 100 ")
Was the hydraulic fractur	ing treatment information	on submitted to the c	hemical disclo	sure registry?	Yes	No (If No, fill o	out Page Three	of the ACO-1)
Shots Per Foot		ION RECORD - Bri Footage of Each Int				cture, Shot, Cement		d Depth
	, ,				,		,	
TUBING RECORD:	Size:	Set At:	Pa	acker At:	Liner Run:			
						Yes No		
Date of First, Resumed	Production, SWD or Ef		cing Method: owing	Pumping	Gas Lift C	ther <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil	Bbls. G	as Mcf	Wate	er Bl	ols. G	ias-Oil Ratio	Gravity
DIODOCITI	ON OF CAS:		, 4 CT - 1		TION:		DRODUCTIO	AN INTEDVAL.
Vented Solo	ON OF GAS: Used on Lease	Open Ho		IOD OF COMPLE \Box		nmingled	PHODUCIIC	ON INTERVAL:
	bmit ACO-18.)	Other (S	necify)	(Submit		mit ACO-4)		

Form	ACO1 - Well Completion
Operator	RJM Company
Well Name	Kevin Wirth 1
Doc ID	1193714

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	23	350	Common	225	3% cc 2% gel
Production	7.75	5.50	15.5	3496	Common	180	10% salt, 5% gilsonite

QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Phone 785-483-2025

Home Office P.O. Box 32 Russell, KS 67665

No. 7594

Cell 785-324-1041					distance and by		AND THE RESIDENCE OF THE PERSONS
	ec. Twp.	Range	Bo	County	K5	On Location	6.15 PM
-KliwleM Jang Kinu mance	per snigger	81 Yo star a J	Locati	18 Groi	Galatia	Blackton -	1/2 E 5/5
Lease Kevin Wi	th 1	Well No.	proboss	Owner	is Contract provid	If Horiz triava on oligin	liopardi ani pulbrata
Contractor South w	1 47	Thics lagal i	umbom	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Type Job Surface	Wall Harake	TOUR CONTRACTOR	Contact of	Charge R	neiper to assist ov	wher or contractor to d	Work as listed.
Hole Size 12 1/4 II	T.D.	454		To KS	m Con	pany	
Csg. 8 3/8"	Depth	lo vita acroini	e of asing	Street	non or proceeding	PEER II VIEGEN GO	ABMECTT
Tbg. Size	Depth	4541		City		State	THE STATE OF THE S
Tool	Depth	# schedule #	eria sonq	The above was	done to satisfaction	and supervision of owner	
Cement Left in Csg. 201	Shoe J	oint 26	7	Cement Amou	int Ordered 225	5 SX Commo	on 3%CC
Meas Line	Displac	e 27 1	12 BLS	2% Gel	mozeen a sakmili	ARGESHOUALITY W	- TOMBNO CH
LALIO VIO NOTATIONE N. EC	QUIPMENT	medala n diga ed Ballmans ev		Common 22	5	to arosaed as ap or	Classified YTLLs G
Pumptrk 16 No. Cemente Helper	Rolly			Poz. Mix	PEMO	or and osed by CUST	Antenitopopa grino
Bulktrk 14 No. Driver Driver	Jaura	ONED HEIMO	EUU on	Gel. 5	and or instabation	A OHARGES To low	374646969
Bulktrk D W. Driver Driver	Rick	200 B J360	TOO ENTY	Calcium 7	therwise specifie	SWICTOUT JIMESSAN Versand CRASIFAHO	RIANGE OF
	ICES & REMA	RKS	derection of	Hulls			
Remarks: Cement	202	CRICIA	late	Salt			
Rat Hole	occupate sens	ofeuc Custo	rimam er	Flowseal			
Mouse Hole			2 11 (01) (00)	Kol-Seal			
Centralizers	a gniegioni in	by any perso	tripuord ,	Mud CLR 48			
Baskets	inmage misir	vok losa, ot t	reser thus	CFL-117 or CD110 CAF 38			
D/V or Port Collar	Since District On the	ealbriandise	lo prine	Sand to sell to some modern and the sell to se			
damste to prograde a cast			Lenarts A	Handling 2	37	is paged by the	seco loss ot dania pr
	Talrut	7.57	3.77	Mileage			
	25.00				FLOAT EQUIP	MENT	O PT - NEW TOWN
		en encorone	710	Guide Shoe	gogen	(naramusee lon as	el YTEMIXI E
-darphow box talketem ni	alpetals rapid	am) ad of Kiu	1	Centralizer	- Ruids.	erika — refew ir notis	in total the set to read
not aprior 2'YTLIAUC have	dem end Inter	manner provi	ont ni-ba	Baskets	acu bas, policien	Intertwisuppersibility or	at ferm makes as
A DESCRIPTION OF THE PROPERTY	THE TOTAL PROPERTY.		910 177 6	AFU Inserts	TELEGIS MAGEST	a bottonil statement is	PENSH IN STA
ADYA BARKA II III				Float Shoe			200000000000000000000000000000000000000
			Latch Down				
	a zoligeus re-	tale, products		Takah uni Tussa a	a to west collina	a to howard thomson	Agust to starter and o
Contract to the second						1915	2. kdom sylpting
			1	Pumptrk Char	ge Surfac	0,	I II WATER THE
CHIEFOR, OTHER DOUGLOS	o eaocroanico	10 (56)	Pumptrk Charge Surface Mileage 2				
STI di convictiona sti se sco	HALM'S IN THE	fandana an		willeage /	The second second	Ta	x 30 7 3 1 3 4 4 4
7-01		17	20.81	ne wanur minur (C), Work dar		Discour	
X Signature Welleden	CX a	dan)	fo) erti riskomo		Total Charg	A PERSON NAMED IN COLUMN TO THE PARTY OF THE
Signaturo Company	160						

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

- TERMS: Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwith-standing the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

- ATTORNEY FEES: In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a

reasonable sum as and attorney's fees.

- PRICES AND TAXES: All merchandise listed in "QUALITY'S" current price shall schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER.

-TOWING CHARGES: QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.

- PREPARATION CHARGES: If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay QUALITY for the expenses incurred by QUALITY as a result of the cancellation.

- DEADHAUL, CHARGES: Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'S

current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

- SERVICE CONDITIONS AND LIABILITIES: 1. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:
- (A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:
- (B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.
- 2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.
- 3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements

caused by contamination of water or other fluids.

WARRANTIES: 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be constructed as a warranty by QUALITY of the success or the effectiveness of the result of any

work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Phone 785-483-2025

Home Office P.O. Box 32 Russell, KS 67665

No. 7692

Lesses Kevin Wirth Contractor Seuthwind #2 Contractor Seuthwind #2 To Quality Oliwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. Cas. 5½ 15.5# Depth 3493 Street Cas. 5½ 15.5# Depth 3493 Street Compositive Depth The above was done to satisfaction and supervision of owner agent or contractor. Common Left in Cag. Shoe Joint 10.2.3 Cement Amount Ordered 180 sx Com, 10 % saft , 5% Gilbsen's Buiktrik 3 No. Depth Towner Left in Cag. Buiktrik 3 No. Depth Contractor. Common 80 Pumptrik 5 No. Cementer Heliper Longle M. Poz. Mix Buiktrik 3 No. Depth Contractor. Buiktrik 3 No. Depth Contractor. Substance Calcium JOB SERVICES a REMARKS Huils Remarks: Sait 17 Flowseal 900 # Controllaters 1, 2, 3, 4, 5, 6, 7, 8, 9 Baskets 2, 6 Controllaters 1, 2, 3, 4, 5, 6, 7, 8, 9 Baskets 2, 6 Controllater 1, 2, 3, 4, 5, 6, 7, 8, 9 Baskets 2, 6 Controllater 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Cell 785-324-1041								· · · · · · · · · · · · · · · · · · ·	
Lease Kevin Wirth Lease Kevin Wirth Wall No. Contractor Sewthwine #2 Type Job Inng Atring #2 Type Job Inng Atring #2 Type Job Inng Atring #3 Type Job Inng Atring		Sec.	Twp.	l	1			On Location		
Lease Kevin Wirth Contractor Surthwind #72 Type Job Jong String Type Jong String Type Jon Jong String Type Jong String Type Jon Jong String Type Jon Jong String Type Jon Jone Jone Jone Jone Jone Jone Jone	Date 1-23-14	25	16	14						
Lease Kevin Wirth Contractor Surthwind #72 Type Job Jong String Type Jong String Type Jon Jong String Type Jong String Type Jon Jong String Type Jon Jong String Type Jon Jone Jone Jone Jone Jone Jone Jone		•	_		Locati	ion 28/4	Galatia Black	top, 12E, S	<u>n Z</u>	
Contractor Sant hwind #2 Type Job Jong String Tipe Job Jong RJM Street Tipe Job Jong RJM Street Tipe Job Jong Jong RJM Street Tipe Job Jong Jong RJM Street Tipe Job Jong Jong RJM The above was done to satisfaction and supervision of owner agent or contractor. Comment Left in Csg. Shoe Join 10,23 Comment Amount Ordered 190 5x Cem, 10 % salt , 5% Gilsenit Bushink S No. Commentor Pumptik S No. Commentor Pumptik S No. Commentor Helper Lannie w. Bushink B No. Commentor JOB SERVICES & REMARKS Hulls Salt 17 Flat Hote 30 5x Koi-Seal 900 # Mud CLR 48 500 ga Sand Pige on botton, brink & circulation Imped Handling D S Salt , 5% Gilsenit Shut down and String Inc. Washed Fat Hole Jos and Place Bole Composite String Inc. Lift Fresure 800 psi Rusher plug Plugged Rat hole with 30 xx and Place Bole Composite String and held. Lift Fresure 800 psi Rusher plug Mileage 2 Pumptik Shurg Mileage 2 Pumptik Sharp Pluge Mileage 2 Pumptik Shurg Mileage 2 Pumptik Sharp Pluge Mileage 2 Pumptik Shurg Mileage 2 Pumptik Sharp Pluge Mileage 2 Tax Discount	Lease Kevin Wirt	h	,	Well No.		Owner				
Comment Left in Csg. Shoe Joint 10,23 Comment Left in Csg. Shoe Joint 10,23 Comment Left in Csg. Shoe Joint 10,23 Comment Left in Csg. Comment Amount Ordered 30 sx C cm, 10 % salt , 5 % Gilson in Csg. Comment Left in Csg. Comment Amount Ordered 30 sx C cm, 10 % salt , 5 % Gilson in Csg. Comment Amount Ordered 30 sx C cm, 10 % salt , 5 % Gilson in Csg. Comment Amount Ordered 30 sx C cm, 10 % salt , 5 % Gilson in Csg. Comment Amount Ordered 30 sx C cm, 10 % salt , 5 % Gilson in Csg. Comment Amount Ordered 30 sx C cm, 10 % salt , 5 % Gilson in Csg. Comment Amount Ordered 30 sx C cm, 10 % salt , 5 % Gilson in Csg. Comment Amount Ordered 30 sx C cm, 10 % salt , 5 % Gilson in Csg. Comment Amount Ordered 30 sx C cm, 10 % salt , 5 % Gilson in Csg. Comment Amount Ordered 30 sx C cm, 10 % salt , 5 % Gilson in Csg. Comment Amount Ordered 30 sx C cm, 10 % salt , 5 % Gilson in Csg. Comment Amount Ordered 30 sx C cm, 10 % salt , 5 % Gilson in	,			·		You are here	eby requested to ren	t cementing equipmer	nt and furnish	
Hole Size 73 T.D. 3497 Cag. 5 1/2 15.5 T.D. Depth 3493 Street Depth Gily State Depth Gily State Common I So Carment Amount Ordered I 30 sx Cdm, I 0 /2 salt, 5 % Gilsen/1 Displace 82.8664 Meas Line EQUIPMENT Common I SO Pumptrk 5 No Cementer Lonnie M. Bulkirk 3 No Direct Lonnie M. Bulkirk 3 No Direct Lonnie M. Bulkirk 3 No Direct Lonnie M. Bulkirk No Direct Lonnie M. Bulkirk Ph No Direct Travis Calcium Bulkirk No Direct Travis Calcium JOB SERVICES & REMARKS Hulls Remarks: Salt /7 Rat Hole 30 sx Kol-Sal 9 CFL-117 or CD110 CAF 38 Baskets 2,6 DAY or Port Collar Fige On bottom broke circulation flateged Handling AD Bulkirk 130 salt in						cementer an	d helper to assist ov	vner or contractor to c	lo work as listed.	
Tool Depth The above was done to satisfaction and supervision of cowner agent or contractor. Cement Left in Csg. Shoe Joint 10,2,3 Cament Amount Ordered 180 SX Cam, 10% saft, 5% 6ilsen't Displace 82,886bly EQUIPMENT Common 180 Pumptrk 5 No. Camenter Heliper Lannie M. Poz. Mix Bulktrk 3 No. Driver Clatten Bulktrk 7 No. Driver Clatten Bulktrk 9 No. Driver Cla	Hole Size 7%		T.D.	3497		Charge RJ	M			
Tool Depth The above was done to satisfaction and supervision of owner agent or contractor. Cement Left in Csg. Shoe Joint 10,2,3 Cement Amount Ordered 180 sx Cem, 10% saft , 5% Gilsanit Bould Beautiful Common 180 Pumptrik 5 No. Cementer Poz. Mix	Csg. 5½ 15.5#		Depth	3493		Street			·	
Cement Left in Csg. Shoe Joint 10,23 Cement Amount Ordered 180 sx Cdm, 10% salt, 5% 6ilsen't Displace 82,86bb EQUIPMENT Common 80 Pumpt 5 No. Cementer Poz. Mix Bulktr 3 No. Driver Clatten Bulktr 3 No. Driver Clatten Bulktr 4 No. Driver Clatten JOB SERVICES & REMARKS Hulls JOB SERVICES & REMARKS Remarks: Rat Hole 30 sx Kol-Seal 900 # Ko	Tbg. Size		Depth	A 30 m 1 m 1		Gity		-State		
Meas Line Displace 82,886W Common 80 Pumptrk 5 No. Cementor Poz. Mix	Tool		Depth							
Pumptrk 5 No. Common 80 Pumptrk 5 No. Common 80 Bulktrk 7 No. Collum Calcium Bulktrk 80 Baskets 80 Common 80 Bulktrk 7 No. Collum Calcium Bulktrk 80 Baskets 80 Common 80 Bulktrk 7 No. Collum Calcium Bulktrk 80 Baskets 80 Baskets 80 Baskets 80 Bulktrk 7 No. Collum 80 Bulktrk 7 No. Collum 80 Bulktrk 7 No. Collum 80 Baskets 80 Bask	Cement Left in Csg.		Shoe J	loint 10,23		Cement Am	ount Ordered 180	sx Com, 10% sa	14,5% Gilsonite	
Pumptrk 5 No. Cementer Helpor Lonnie W. Bulktrk 7 No. Driver Driver Clatron Bulktrk PU No. Driver Clatron JOB SERVICES & REMARKS Remarks: Rat Hole 30 5x Rose Hole 15 5x Koi-Seal 900 # Koi-Seal 900 # Mud CLR 48 500 qc Centralizers 1,2,3,4,5,6,7,8,9 Baskets 2,6 Corn Collar Ripe on bo thom broke sircustation flumped Handling 0 6 500 qc Mark CLR 48 with 0 bit for behind it is Mileage Pluged Rat hole with 30 5x and Mouse hole with 15 5x. Hooked to 5 1/2 and Mixed 1355x Gom, 10 % Salt , 5 % Gibsonite, Shut down and 1 centralizer 9 turbos Baskets 2 Plugand displaced on ith 82 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Meas Line		Displac	e 82.886Ы						
Punptr 3 No. Driver Lannie W. Gel. Builkirk 3 No. Driver Claten Driver Claten JOB SERVICES & REMARKS Remarks: Rat tole 30 sx Rouse Hole 15 sx Centralizers 1,2,3,4,5,6,7,8,9 Baskets 2,6 Driver Claten Mud CLR 48 500 gc. CFL-117 or CD110 CAF 38 Driver Claten Fipe on bottom broke circulation Purped Handling Driver Could be and Mised 15 sx. Hooked to 5 sc and Mouse hole. Pluged Rat hole with 30 sx and Mouse hole. With 15 sx. Hooked to 5 sc and Mixed 135sx (Guide Shoe I Com., 10% Satt, 5% Gilsonite, Shut down and Controller General Sand Little Punped Driver Com., 10% Satt, 5% Gilsonite, Shut down and Controller General Sand Handling Driver Com., 10% Satt, 5% Gilsonite, Shut down and Controller 9 throas Plugand displaced in the 824361 ft plug landed Float Shoe Lift Pressure 800 psi Rubber plug Plug landed at 11100 psi Punptrk Charge Drive String Mileage 2) Tax Discount Discount			MENT			Common	80			
Bulkirk Pu No. Driver Travis JOB SERVICES & REMARKS Hulls Remarks: Salt /7 Rat Hole 305x Mouse Hole 155x Centralizers 1,2,3,4,5,6,7,8,9 Baskets 2,6 CFL-117 or CD110 CAF 38 DN or Port Collar Fipe on bottom broke sicculation funged Handling DB Songal Mud CLR 48 with 10 bit fw behind it. Milesge Pluged Rat hole with 305x and Mouse hole with 155x. Hooked to 51 and Mixed (35xx Guide Shoe) Com, 10% Salt, 5% Gilsonite, 5hut down and Captralizer 9 turbos ###################################	Pumptrk 3 Help	er Los	nnle w	1		Poz. Mix				
Bulkirk PU JOB SERVICES & REMARKS Hulls Remarks: Salt /7 Flowseal Mouse Hole 155x Koi-Seal 900 # Centralizers 1,2,3,4,5,6,7,8,9 Baskets 2,6 DIV or Port Collar Fige on bo them broke circulation. Purped Handling 0 6 500 gal Mand CLR 48 vith 10 bbl for behind it Mileage Fluged Rat hole with 30sx and Mouse hole With 155x. Hooked to 5% and Mouse hole With 155x. Hooked to 5% and Mouse hole Com, 10% Salt, 5% Gilsonite, Shut down and Centralizer 9 turbo's Bridge of the with 30xx and form and Centralizer 9 turbo's Flogand displaced in th82xth for plag landed Artificents Float Shoe Lift Pressure 800 psi Plug landed at 1400 psi Plug landed at 1400 psi Pumpirk Charge 0 od String Mileage 2.1 Tax Discount	Bulktrk > Drive	er Cloati	ÞΛ	V.		Gel.				
Actions of the state of the sta	Bulktrk Pu No. Drive		5			Calcium				
Rat Hole 305x Mouse Hole 155x Centralizers 1,2,3,4,5,6,7,8,9 Baskets 2,6 CFL-117 or CD110 CAF 38 DN or Port Collar Pipe on bottom broke circulation. Pumped Handling DE 500gal MundCLR 48 with 10 bb fw behind it Mileage Pluged Rat hole with 305x and Mouse hole With 155x. Hooked to 512 and Mixed 135xx Quide Shoe Com, 10% Salt, 5% Gilsonite, Shut down and Centralizer 9 turbos Baskets 2 Plugant Displaced with 824bb for plug landed Arulinsers Float Shoe Lift Pressure 300 psi Rubber plug Mileage 2 / Tax Discount Tax Discount				ARKS		Hulls				
Mouse Hole 155X Centralizers 1,2,3,4,5,6,7,8,9 Baskets 2,6 DN or Port Collar Pipe on bottom broke circulation Runged Handing 206 500ggl Mud CLR 48 with 10 bbl & behind it. Pluged Rat hole with 305x and Mouse hole with 155x And Mixed 1355x Com, 10% Salt, 5% Gilsonite, Shut down and Centralizer 9 turbos Baskets 2 Plugant displaced with 824th & plug landed AFU inserts Float Food Shoe Lift Pressure 800 psi Rubber plug Mileage 2./ Pumptrk Charge Produ String Mileage 2./ Tax Discount	Remarks:					Salt /7				
Centralizers 1,2,3,4,5,6,7,8,9 Baskets 2,6 CFL-117 or CD110 CAF 38 DIV or Port Collar Sand Pipe on bottom broke circulation Pumped Handling 20 6 500gal MudCLR 48 with 10 bit for behind it Mileage Pluged Rathole with 30 sx and Mouse hole With 15 sx. Hooked to 5 % and Mixed 135 sx Guide Shoe Com, 10% Salt, 5% Gilsonite Shot down and Saskets 2 Plugand displaced with 82 shot for plug landed AFU inserts Gand held Flores and Life Plug Plug landed at 1400 psi Pumptrk Charge Plug Mileage 2 / Tax Discount Discount Discount Tax	Rat Hole 30 sx	•								
Centralizers 1,2,3,4,5,6,7,8,9 Baskets 2,6 CFL-117 or CD110 CAF 38 DIV or Port Collar Sand Pipe on bottom broke circulation Pumped Handling 20 6 500gal MudCLR 48 with 10 bit for behind it Mileage Pluged Rathole with 30 sx and Mouse hole With 15 sx. Hooked to 5 % and Mixed 135 sx Guide Shoe Com, 10% Salt, 5% Gilsonite Shot down and Saskets 2 Plugand displaced with 82 shot for plug landed AFU inserts Gand held Flores and Life Plug Plug landed at 1400 psi Pumptrk Charge Plug Mileage 2 / Tax Discount Discount Discount Tax	Mouse Hole /55x		•	'. "		Kol-Seal 908#				
Baskets 2,6 DIV or Port Collar Sand Pipe on bottom broke circulation Purped Handling 206 500 gal Must CLR 48 with 10 bbt for behind it. Mileage Pluged Rat hale with 30 sx and Mouse hale with 15 sx. Hooked to 5 the and Mixed 135 sx. Com, 10% Salt, 5% Gilsonite Shut down and Capitalizer 9 turbos Baskets 2 Plugand olisplaced with 82 kbbl for plug landed AFU inserts Float Shoe Latch Down Lift Pressure 300 psi Plug landed at 1400 psi Pumptrk Charge Produ Sting Mileage 2 / Tax Discount	Centralizers 1,2,3,4,5	6.7.8.	.9							
Pipe on bottom broke circulation. Pumped 500gal MudCLR 48 with 10 bbl fw behind it. Pluged Rathole with 30 sx and Mouse hole with 15 sx. Hooked to 5 1/2 and Mixed 13 5 sx. Guide Shoe Com, 10 % Salt, 5 % Gilsonite, Shut down and Captralizer 9 turbo's Baskets 2 Plugand displaced with 82 x bbl fw plug landed AFU inserts and held. Lift Pressure 300 psi Rubber plug Plug landed at 1400 psi Pumptrk Charge prod 5 tring Mileage 2.1 Tax Discount	Baskets 2,6	, . , . , . ,								
500gg Mud CLR 48 with 10 bbl for behind it. Mileage Pluged Rathale with 30sx and Monse hole With 15 sx. Hooked to 5 1/2 and Mixed 13 5 sx. Quide Shoe Com, 10% Salt, 5% Gilsonite, Shut down and Centralizer 9 turbo's Baskets 2 Plugand displaced with 82 xibl for plug landed AFU inserts and held. Lift Pressure 800 psi Rubber plug Plug landed at 1400 psi Pumptrk Charge Prod 5 tring Mileage 2.1 Tax Discount	D/V or Port Collar		e and the second			AND				
500gg Mud CLR 48 with 10 bbl for behind it. Mileage Pluged Rathale with 30sx and Monse hole With 15 sx. Hooked to 5 1/2 and Mixed 13 5 sx. Quide Shoe Com, 10% Salt, 5% Gilsonite, Shut down and Centralizer 9 turbo's Baskets 2 Plugand displaced with 82 xibl for plug landed AFU inserts and held. Lift Pressure 800 psi Rubber plug Plug landed at 1400 psi Pumptrk Charge Prod 5 tring Mileage 2.1 Tax Discount	Pipe on bottom	Leok	e circu	lation Rum	ped 🗟	Handling	06			
Pluged Rathole with 30sx and Mouse hole with 15sx. Hocked to 5th and Mixed 135sx Quide Shoe com, 10% Salt, 5% Gilsonite Shut down and Cantralizer 9 turbo's statement washed pumpand lines, Realesed Baskets 2 Plugand displaced with 824st for plug landed AFU inserts Float Shoe Latch Down Lift Pressure 800 ps i Rubber plug Mileage 2 / Tax Discount	500 gal Mud CLI	748 W	ith 10	bblfw behi	nd it.	Mileage		and the second second		
with 15 sx. Hooked to 5 1/2 and Mixed 135 sx Guide Shoe com, 10% Saft, 5% Gilsonite, Shut down and Centralizer 9 turbo's state of the state of the shut down and Centralizer 9 turbo's Baskets 2 Plugam displaced with 82 table for plug landed AFU inserts Float Shoe Latch Down Lift Pressure 300 psi Rubber plug Plug landed at 1400 psi Pumptrk Charge peod String Mileage 2 / Tax Discount Discount Tax Discount D	Pluged Rathole	with	30 <i>sx</i> a	nd Mouse	hole		£ 000000000000000000000000000000000000	MENT	**	
Com, 10% Saft, 5% Gilsonite Shut down and Cantralizer 9 turbos Stiff washed pumpand lines Realesed Baskets 2 Plagand displaced with 82% that for plan landed AFU inserts Float Shoe Latch Down Lift Pressure 800 psi Rubber plan Plany landed at 1,400 psi Pumptrk Charge prod String Mileage 2 / Mileage 2 / Tax Discount										
Plugant displaced with 82% the plug landed AFU inserts and held. Lift Pressure 800 ps; Plug landed at 1400 ps; Purptrk Charge Prod String Mileage 2.1 Tax Discount	· · · · · · · · · · · · · · · · · · ·				3.000,380,00	**NA 20000008	9 turbos			
Plugand displaced with 824861 file plug landed AFU Inserts Float Shoe Latch Down Lift Pressure 800 psi Rubber plug Plug landed at 1400 psi Pumptrk Charge prod String Mileage 2.1 Tax Discount		_		1		Başkets 2	2			
Float Shoe Latch Down Lift Pressure 800 psi Plug landed at 1400 psi Pumptrk Charge Deod String Mileage 2 / Tax Discount				· 🔐 🕬 😭			it a land			
Lift Pressure 800 ps i Rubber plug Plug landred at 1400 ps i Pumptrk Charge Prod String Mileage 2 / Tax Discount			(J. 1877)		Vic.or	Float Shoe				
Plug landed at 1400 ps; Pumptrk Charge Prod String Mileage 2.1 Tax Discount		48,000	1000 pp. 100.		, j	Latch Down			6 8	
Plug landed at 1400 ps; Pumptrk Charge Prod String Mileage 2.1 Tax Discount	Lift Pres	Sure 8	00 2	osi		1 Rubber	r Alua			
Mileage 2./ Tax Discount) // ·	10/20	To V			
Mileage 2./ Tax Discount	Plug land	400	מלפט איני		Pumptrk Ch	arge prod	String			
Tax Discount	J						1	To the second se		
X 1/2///////////////////////////////////	<u> </u>	. 1		1	7			Ta	Χ	
Signature / / / / / Charge Total Charge	1 / ///		:_/					Discour	ıt	
	X Signature//////	Um	5	Kich	~~_		ar experience (2)	Total Charg	е	

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

TERMS: Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwith-standing the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

- ATTORNEY FEES: In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a

reasonable sum as and attorney's fees.

- PRICES AND TAXES: All merchandise listed in "QUALITY'S" current price shall schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER.

-TOWING CHARGES: QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.

PREPARATION CHARGES: If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay QUALITY for the expenses incurred by QUALITY as a result of the cancellation.

- DEADHAUL, CHARGES: Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

- SERVICE CONDITIONS AND LIABILITIES: 1. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:
- (A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:
- (B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.
- 2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before-return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.
- 3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be constructed as a warranty by GUALITY of the success or the effectiveness of the result of any

work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.



Prepared For: **RJM Company**

P.O. Box 256 Claflin ks, 67525-0256

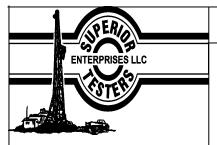
ATTN: Jim Musgrove

Kevin Wirth #1

25/16s/14w/Barton

Start Date: 2014.01.21 @ 02:55:00 End Date: 2014.01.21 @ 11:34:30 Job Ticket #: 18231 DST #: 1

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902



RJM Company

25/16s/14w/Barton

Tester:

Unit No:

P.O. Box 256

Kevin Wirth #1

Claflin ks, 67525-0256

Job Ticket: 18231 **DST#:1**

Shane Konzem

3325/50/Great Bend

1968.00 ft (CF)

ATTN: Jim Musgrove

Test Start: 2014.01.21 @ 02:55:00

GENERAL INFORMATION:

Formation: LKC "A-F"

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

Time Tool Opened: 06:44:30 Time Test Ended: 11:34:30

Interval: 3204.00 ft (KB) To 3284.00 ft (KB) (TVD) Reference Elevations: 1977.00 ft (KB)

Total Depth: 3284.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 9.00 ft

Serial #: 65663

Press@RunDepth: 99.20 psia @ ft (KB) Capacity: 5000.00 psia

 Start Date:
 2014.01.21
 End Date:
 2014.01.21
 Last Calib.:
 2014.01.21

 Start Time:
 02:55:00
 End Time:
 11:34:30
 Time On Btm:
 2014.01.21 @ 06:38:30

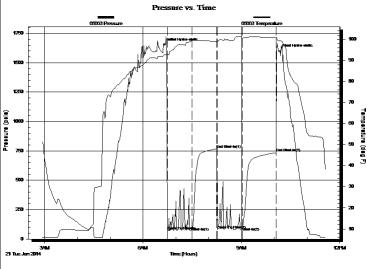
 Time Off Btm:
 2014.01.21 @ 10:09:00

TEST COMMENT: 1st Open/ 45 Minutes. Fair blow built to 5 inches in 5 gallon bucket of deisel.

1st Shut In/ 45 Minutes. No blow Back.

2nd Open/ 45 Minutes. Fair blow built to 3.5 inches into 5 gallon bucket of deisel.

2nd Shut In/ 60 Minutes. No blow back.



	FIXESSUIVE SUIVIIVIAIX I						
	Time	Pressure	Temp	Annotation			
	(Min.)	(psia)	(deg F)				
	0	1649.76	92.62	Initial Hydro-static			
	6	72.91	92.92	Open To Flow (1)			
	51	99.35	99.37	Shut-In(1)			
,	96	765.76	98.99	End Shut-In(1)			
3	98	81.74	98.64	Open To Flow (2)			
	144	99.20	100.51	Shut-In(2)			
•	205	734.68	100.84	End Shut-In(2)			
9	211	1597.99	99.25	Final Hydro-static			

PRESSURE SUMMARY

Recovery

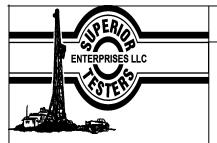
Length (ft)	Description	Volume (bbl)
40.00	100% mud	0.56

Gas Rates Choke (inches) | Pressure (psia) | Gas Rate (Mct/d)

Superior Testers Enterprises LLC

Ref. No: 18231

Printed: 2014.01.21 @ 11:56:00



RJM Company

25/16s/14w/Barton

P.O. Box 256

Kevin Wirth #1

Job Ticket: 18231

Unit No:

DST#:1

Claflin ks, 67525-0256

OD HOROL 10201

Test Start: 2014.01.21 @ 02:55:00

ATTN: Jim Musgrove

GENERAL INFORMATION:

Formation: LKC "A-F"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:44:30 Time Test Ended: 11:34:30

Interval: 3204.00 ft (KB) To 3284.00 ft (KB) (TVD)

Total Depth: 3284.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem

3325/50/Great Bend

Reference Elevations: 1977.00 ft (KB)

1968.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6838 Outside

Press@RunDepth: 735.14 psia @ 3281.61 ft (KB) Capacity: 5000.00 psia

 Start Date:
 2014.01.21
 End Date:
 2014.01.21
 Last Calib.:
 2014.01.21

 Start Time:
 02:55:00
 End Time:
 11:35:30
 Time On Btm:
 2014.01.21 @ 06:38:00

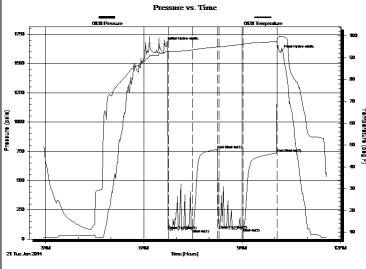
 Time Off Btm:
 2014.01.21 @ 10:10:30

TEST COMMENT: 1st Open/ 45 Minutes. Fair blow built to 5 inches in 5 gallon bucket of deisel.

1st Shut In/ 45 Minutes. No blow Back.

2nd Open/ 45 Minutes. Fair blow built to 3.5 inches into 5 gallon bucket of deisel.

2nd Shut In/ 60 Minutes. No blow back.



	PRESSURE SUMMARY							
1	Time	Pressure	Temp	Annotation				
	(Min.)	(psia)	(deg F)					
	0	1662.63	92.49	Initial Hydro-static				
	7	74.82	92.92	Open To Flow (1)				
	52	84.85	93.62	Shut-In(1)				
	97	766.36	94.96	End Shut-In(1)				
3	100	79.07	94.91	Open To Flow (2)				
	144	93.56	96.25	Shut-In(2)				
,	206	735.14	97.42	End Shut-In(2)				
9	213	1597.69	99.85	Final Hydro-static				

Recovery

Length (ft)	Description	Volume (bbl)
40.00	100% mud	0.56

Gas Rat	es	
Choke (inches)	Pressure (nsia)	Gas Rate (Mcf/d)

Superior Testers Enterprises LLC Ref. No: 18231

Printed: 2014.01.21 @ 11:56:00



TOOL DIAGRAM

DST#: 1

RJM Company

25/16s/14w/Barton

P.O. Box 256

Kevin Wirth #1

Claflin ks, 67525-0256

Job Ticket: 18231

ATTN: Jim Musgrove

Test Start: 2014.01.21 @ 02:55:00

Tool Information

Drill Collar:

Drill Pipe: Length: 3204.00 ft Diameter: Heavy Wt. Pipe: Length:

3.80 inches Volume: 44.94 bbl 0.00 bbl 0.00 inches Volume: 0.00 ft Diameter: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl

Total Volume:

44.94 bbl

Tool Weight: 2000.00 lb Weight set on Packer: 20000.00 lb

Drill Pipe Above KB: 20.00 ft

Length:

Weight to Pull Loose: 60000.00 lb Tool Chased 1.00 ft

Depth to Top Packer: 3204.00 ft Depth to Bottom Packer: ft String Weight: Initial 42000.00 lb Final 43000.00 lb

Printed: 2014.01.21 @ 11:56:00

Interval between Packers: 80.61 ft Tool Length:

100.61 ft

2

Diameter:

6.75 inches

Ref. No: 18231

Tool Comments:

Number of Packers:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3189.00		
Hydrolic Tool	5.00			3194.00		
Packer	5.00			3199.00	20.00	Bottom Of Top Packer
Packer	5.00			3204.00		
Change Over Sub	0.75			3204.75		
Drill Pipe	32.11			3236.86		
Change Over Sub	0.75			3237.61		
Anchor	42.00			3279.61		
Recorder	1.00	6663	Inside	3280.61		
Recorder	1.00	6838	Outside	3281.61		
Bullnose	3.00			3284.61	80.61	Bottom Packers & Anchor

Total Tool Length: 100.61



FLUID SUMMARY

RJM Company

25/16s/14w/Barton

P.O. Box 256

Kevin Wirth #1

Serial #:

Printed: 2014.01.21 @ 11:56:00

Claflin ks, 67525-0256

Job Ticket: 18231 **DST#:1**

ATTN: Jim Musgrove

Test Start: 2014.01.21 @ 02:55:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight: 9.00 lb/gal Cushion Length: ft
Viscosity: 55.00 sec/qt Cushion Volume: bbl

Water Loss: 8.00 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psia

Salinity: 4800.00 ppm Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	100% mud	0.561

Total Length: 40.00 ft Total Volume: 0.561 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Ref. No: 18231

Laboratory Name: Laboratory Location:

Recovery Comments:

50

60

Temperature (deg F)

80

90

70

100

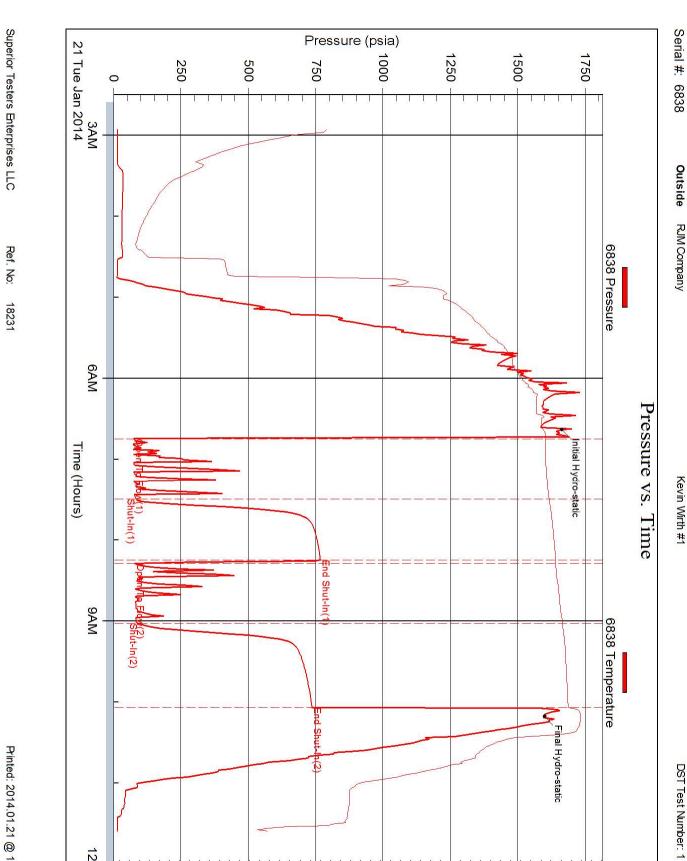
12PM

10

20

30

40



Temperature (deg F)

12PM



Prepared For: **RJM Company**

P.O. Box 256 Claflin ks, 67525-0256

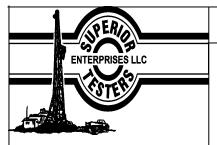
ATTN: Jim Musgrove

Kevin Wirth #1

25/16s/14w/Barton

Start Date: 2014.01.21 @ 21:50:00 End Date: 2014.01.22 @ 04:58:30 Job Ticket #: 18232 DST #: 2

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902



RJM Company

25/16s/14w/Barton

P.O. Box 256

Kevin Wirth #1

Job Ticket: 18232

Unit No:

DST#: 2

Claflin ks, 67525-0256

ATTN: Jim Musgrove

Test Start: 2014.01.21 @ 21:50:00

GENERAL INFORMATION:

Formation: LKC "H-K"

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

Time Tool Opened: 23:52:30 Time Test Ended: 04:58:30

Interval: 3340.00 ft (KB) To 3379.00 ft (KB) (TVD)

Total Depth: 3379.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Tester: Shane Konzem

3325/50/Great Bend

Reference Elevations: 1977.00 ft (KB)

1968.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6663 Inside

Press@RunDepth: 91.82 psia @ 3375.00 ft (KB) Capacity: 5000.00 psia

 Start Date:
 2014.01.21
 End Date:
 2014.01.22
 Last Calib.:
 2014.01.22

 Start Time:
 21:50:00
 End Time:
 04:58:30
 Time On Btm:
 2014.01.21 @ 23:50:30

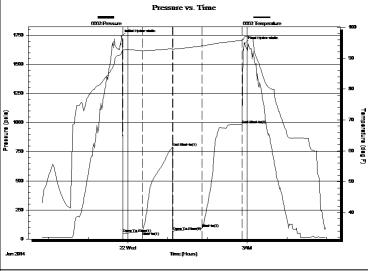
Time Off Btm: 2014.01.22 @ 02:56:00

TEST COMMENT: 1st Open/ 30 Minutes. Good blow built to bottom of 5 gallon bucket of deisel in 3 minutes and 15 seconds.

1st Shut In/ 45 Minutes. No blow back.

2nd Open/ 45 Minutes. Good blow built to bottom of 5 gallon bucket of deisel in 4 minutes.

2nd Shut In/ 60 Minutes. No blow back.



	PRESSURE SUMMARY							
Ī	Time	Pressure	Temp	Annotation				
	(Min.)	(psia)	(deg F)					
	0	1738.38	91.81	Initial Hydro-static				
	2	52.29	92.59	Open To Flow (1)				
	32	65.40	92.47	Shut-In(1)				
.	77	788.63	93.10	End Shut-In(1)				
	78	66.67	92.94	Open To Flow (2)				
	122	91.82	93.97	Shut-In(2)				
2	183	983.77	95.79	End Shut-In(2)				
'	186	1677.69	96.95	Final Hydro-static				

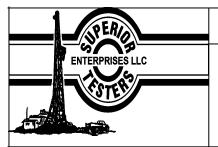
Recovery

Description	Volume (bbl)		
46.00 100% Clean gassy oil			
Oil gravity 42 corrected.	0.00		
	100% Clean gassy oil		

Gas Rates			
Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)	

Printed: 2014.01.22 @ 05:19:56

Superior Testers Enterprises LLC Ref. No: 18232



RJM Company

25/16s/14w/Barton

P.O. Box 256

Kevin Wirth #1

Job Ticket: 18232

Tester:

Unit No:

DST#: 2

1968.00 ft (CF)

Claflin ks, 67525-0256

000 110110111 10202

ATTN: Jim Musgrove

Test Start: 2014.01.21 @ 21:50:00

Shane Konzem

3325/50/Great Bend

GENERAL INFORMATION:

Formation: LKC "H-K"

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

Time Tool Opened: 23:52:30 Time Test Ended: 04:58:30

Interval:

3340.00 ft (KB) To 3379.00 ft (KB) (TVD) Reference Elevations: 1977.00 ft (KB)

Total Depth: 3379.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 9.00 ft

ine Diameter. 7.00 inches note condition. Fool NB to Giver. 9.00 i

Serial #: 6838 Outside

 Press@RunDepth:
 977.90 psia
 @ 3376.00 ft (KB)
 Capacity:
 5000.00 psia

 Start Date:
 2014.01.21
 End Date:
 2014.01.22
 Last Calib.:
 2014.01.22

 Start Time:
 21:50:00
 End Time:
 04:58:30
 Time On Btm:
 2014.01.21 @ 23:51:00

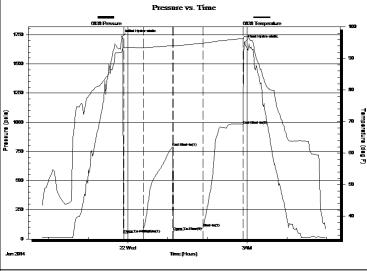
Time Off Btm: 2014.01.22 @ 02:56:00

TEST COMMENT: 1st Open/ 30 Minutes. Good blow built to bottom of 5 gallon bucket of deisel in 3 minutes and 15 seconds.

1st Shut In/ 45 Minutes. No blow back.

2nd Open/ 45 Minutes. Good blow built to bottom of 5 gallon bucket of deisel in 4 minutes.

2nd Shut In/ 60 Minutes. No blow back.



PRESSURE SUMMARY						
1	Time	Pressure	Temp	Annotation		
	(Min.)	(psia)	(deg F)			
	0	1733.41	92.12	Initial Hydro-static		
	3	48.26	93.32	Open To Flow (1)		
	33	84.56	93.43	Shut-In(1)		
	77	789.57	94.08	End Shut-In(1)		
	78	66.96	94.00	Open To Flow (2)		
	122	96.81	94.83	Shut-In(2)		
,	183	977.90	96.29	End Shut-In(2)		
9	185	1684.51	97.03	Final Hydro-static		

Recovery

Description	Volume (bbl)	
146.00 100% Clean gassy oil		
Oil gravity 42 corrected.	0.00	
	100% Clean gassy oil	

Gas Rates		
Choko (inchos)	Proceuro (peia)	Gas Pato (Mof/d)

Superior Testers Enterprises LLC Ref. No: 18232 Printed: 2014.01.22 @ 05:19:56



TOOL DIAGRAM

0.00 ft

RJM Company

25/16s/14w/Barton

P.O. Box 256

Kevin Wirth #1

Claflin ks, 67525-0256

ATTN: Jim Musgrove

Job Ticket: 18232 **DST#: 2**

Test Start: 2014.01.21 @ 21:50:00

Tool Information

Drill Collar:

Drill Pipe: Length: 3336.00 ft Diameter: Heavy Wt. Pipe: Length: 0.00 ft Diameter:

Length:

3.80 inches Volume: 46.80 bbl 0.00 inches Volume: 0.00 bbl 0.00 inches Volume: 0.00 bbl

Total Volume:

6.75 inches

Tool Weight: 2000.00 lb Weight set on Packer: 20000.00 lb Weight to Pull Loose: 70000.00 lb

Drill Pipe Above KB: 16.00 ft

0.00 bbl Weight to Pull Loose: 70 46.80 bbl Tool Chased

Depth to Top Packer: 3340.00 ft
Depth to Bottom Packer: ft

String Weight: Initial 42000.00 lb Final 44000.00 lb

Interval betw een Packers: 39.00 ft
Tool Length: 59.00 ft

00 ft

Diameter:

0.00 ft Diameter:

2

Tool Comments:

Number of Packers:

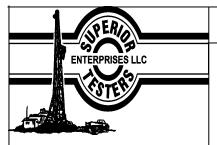
Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3325.00		
Hydrolic Tool	5.00			3330.00		
Packer	5.00			3335.00	20.00	Bottom Of Top Packer
Packer	5.00			3340.00		
Anchor	34.00			3374.00		
Recorder	1.00	6663	Inside	3375.00		
Recorder	1.00	6838	Outside	3376.00		
Bullnose	3.00			3379.00	39.00	Bottom Packers & Anchor

Total Tool Length: 59.00

Superior Testers Enterprises LLC

Ref. No: 18232

Printed: 2014.01.22 @ 05:19:56



FLUID SUMMARY

DST#: 2

RJM Company

25/16s/14w/Barton

P.O. Box 256

Kevin Wirth #1

Claf lin ks, 67525-0256

Job Ticket: 18232

ATTN: Jim Musgrove

Test Start: 2014.01.21 @ 21:50:00

Printed: 2014.01.22 @ 05:19:56

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight:9.00 lb/galCushion Length:ftViscosity:78.00 sec/qtCushion Volume:bbl

8.80 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psia

Salinity: 6000.00 ppm Filter Cake: inches

Recovery Information

Water Loss:

Recovery Table

Length ft	Length Description ft	
146.00	100% Clean gassy oil	2.048
0.00	Oil gravity 42 corrected.	0.000

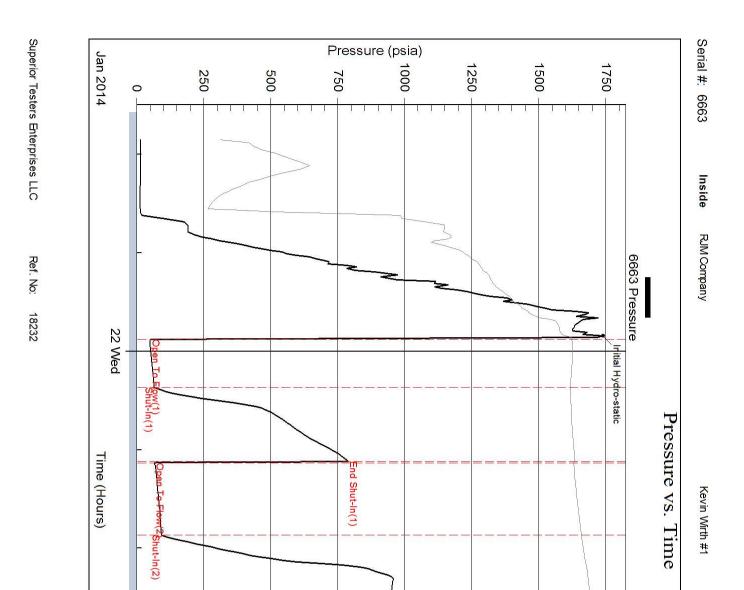
Total Length: 146.00 ft Total Volume: 2.048 bbl

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

Laboratory Name: Laboratory Location:

Ref. No: 18232

Recovery Comments:



6663 Temperature

100

DST Test Number: 2

Final Hydro-static

90

80

3AM

40

50

60

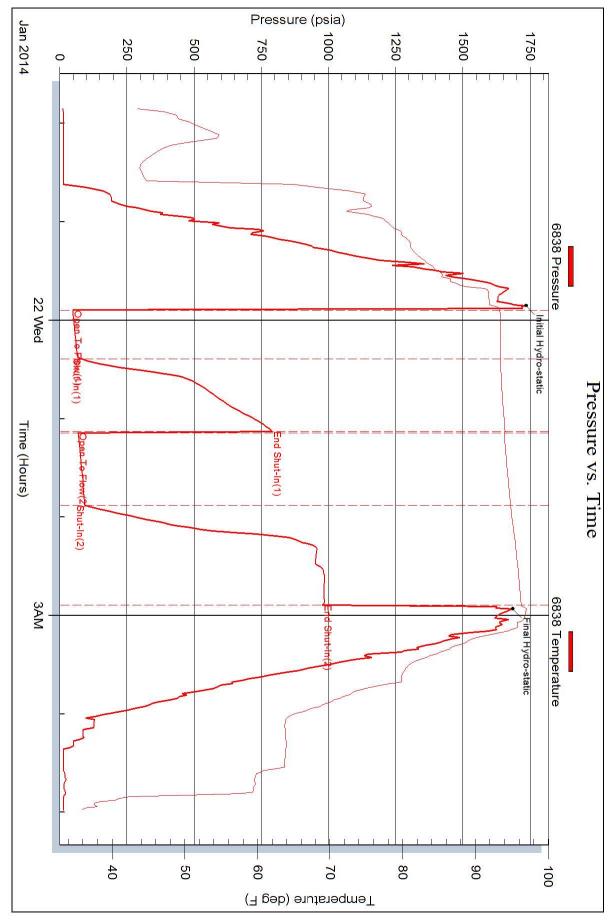
70

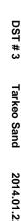
Temperature (deg F)

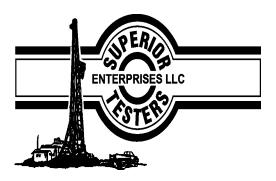
Printed: 2014.01.22 @ 05:19:57

Serial #: 6838

Outside RJM Company







Prepared For: RJM Company

P.O. Box 256 Claflin ks, 67525-0256

ATTN: Jim Musgrove

Kevin Wirth #1

25/16s/14w/Barton

Start Date: 2014.01.22 @ 16:55:00 End Date: 2014.01.22 @ 23:50:30 Job Ticket #: 18233 DST#: 3

Superior Testers Enterprises LLC PO Box 138 Great Bend KS 67530 1-800-792-6902



RJM Company

25/16s/14w/Barton

P.O. Box 256

Kevin Wirth #1 Job Ticket: 18233

Tester:

Unit No:

DST#: 3

1977.00 ft (KB)

1968.00 ft (CF)

Claflin ks, 67525-0256

ATTN: Jim Musgrove

Test Start: 2014.01.22 @ 16:55:00

GENERAL INFORMATION:

Formation: Tarkeo Sand

Deviated: Whipstock: Test Type: Conventional Bottom Hole (Initial) ft (KB)

Time Tool Opened: 18:18:00 Time Test Ended: 23:50:30

3384.00 ft (KB) To 3457.00 ft (KB) (TVD) Interval: Reference Elevations:

Total Depth: 3457.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF:

9.00 ft

Shane Konzem

3325/50/Great Bend

Serial #: 6663 Inside

Press@RunDepth: 5000.00 psia 89.94 psia @ 3452.96 ft (KB) Capacity: Start Date: 2014.01.22 End Date: 2014.01.22 Last Calib.: 2014.01.22 Start Time: 16:55:00 End Time: 23:50:30 Time On Btm: 2014.01.22 @ 18:14:30

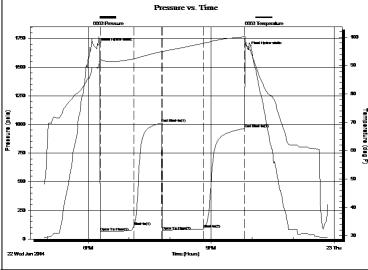
Time Off Btm: 2014.01.22 @ 21:54:00

TEST COMMENT: 1st Open/ 45 Minutes. Weak blow built to 7.5 inches into 5 gallon bucket of deisel.

1st Shut In/ 45 Minutes. No blow back.

2nd Open/ 60 Minutes. Weak blow built to 8 inches into 5 gallon bucket of deisel.

2nd Shut In/ 60 Minutes. No blow back.



PRESSURE SUMMARY						
1	Time	Pressure	Temp	Annotation		
	(Min.)	(psia)	(deg F)			
	0	1692.52	89.08	Initial Hydro-static		
	4	62.98	91.17	Open To Flow (1)		
	53	113.41	92.37	Shut-In(1)		
	93	1012.74	94.85	End Shut-In(1)		
	94	74.72	94.81	Open To Flow (2)		
	155	89.94	97.84	Shut-In(2)		
,	215	965.05	100.10	End Shut-In(2)		
9	220	1658.37	96.49	Final Hydro-static		

Recovery

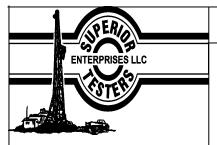
Description	Volume (bbl)
100% Clean Oil.	0.14
40% Oil, 60% Mud	0.77
Oil gravity 42 corrected	
	100% Clean Oil. 40% Oil, 60% Mud

Gas Rates			
Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)	

Superior Testers Enterprises LLC

Ref. No: 18233

Printed: 2014.01.23 @ 00:03:57



RJM Company

25/16s/14w/Barton

P.O. Box 256

Kevin Wirth #1 Job Ticket: 18233

Unit No:

DST#: 3

Claflin ks, 67525-0256

Test Start: 2014.01.22 @ 16:55:00

ATTN: Jim Musgrove

GENERAL INFORMATION:

Formation: Tarkeo Sand

Deviated: Whipstock: ft (KB)

Time Tool Opened: 18:18:00 Time Test Ended: 23:50:30

3384.00 ft (KB) To 3457.00 ft (KB) (TVD) Interval:

Total Depth: 3457.00 ft (KB) (TVD)

7.88 inches Hole Condition: Poor Hole Diameter:

Test Type: Conventional Bottom Hole (Initial) Tester: Shane Konzem

3325/50/Great Bend

1977.00 ft (KB)

1968.00 ft (CF)

Reference Elevations:

KB to GR/CF: 9.00 ft

Serial #: 6838 Outside

Press@RunDepth: 965.45 psia @ 5000.00 psia 3453.96 ft (KB) Capacity:

Start Date: 2014.01.22 End Date: 2014.01.22 Last Calib.: 2014.01.23 Start Time: 16:55:00 End Time: 23:50:00 Time On Btm: 2014.01.22 @ 18:10:30

Time Off Btm: 2014.01.22 @ 21:54:30

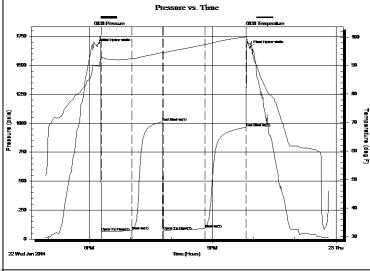
PRESSURE SUMMARY

TEST COMMENT: 1st Open/ 45 Minutes. Weak blow built to 7.5 inches into 5 gallon bucket of deisel.

1st Shut In/ 45 Minutes. No blow back.

2nd Open/ 60 Minutes. Weak blow built to 8 inches into 5 gallon bucket of deisel.

2nd Shut In/ 60 Minutes. No blow back.



	111200011200111111111111111111111111111					
	Time	Pressure	Temp	Annotation		
	(Min.)	(psia)	(deg F)			
	0	1670.74	89.94	Initial Hydro-static		
	7	62.78	92.58	Open To Flow (1)		
	52	72.92	92.40	Shut-In(1)		
	97	1013.27	94.58	End Shut-In(1)		
	98	74.63	94.51	Open To Flow (2)		
	158	89.52	97.34	Shut-In(2)		
,	219	965.45	100.04	End Shut-In(2)		
,	224	1650.75	97.60	Final Hydro-static		

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% Clean Oil.	0.14
55.00	40% Oil, 60% Mud	0.77
0.00	Oil gravity 42 corrected	0.00

Gas Rates			
Choke (inches)	Drocoure (poie)	Coo Roto (Mof/d)	

Superior Testers Enterprises LLC

Ref. No: 18233

Printed: 2014.01.23 @ 00:03:57



TOOL DIAGRAM

RJM Company

25/16s/14w/Barton

P.O. Box 256

Kevin Wirth #1

Claflin ks, 67525-0256

Job Ticket: 18233 **DST#: 3**

ATTN: Jim Musgrove

Test Start: 2014.01.22 @ 16:55:00

Tool Information

Drill Pipe: Length: 3380.00 ft Diameter: Heavy Wt. Pipe: Length: 0.00 ft Diameter: Drill Collar: Length: 0.00 ft Diameter:

 30.00 ft
 Diameter:
 3.80 inches Volume:
 47.41 bbl

 0.00 ft
 Diameter:
 0.00 inches Volume:
 0.00 bbl

 0.00 ft
 Diameter:
 0.00 inches Volume:
 0.00 bbl

Total Volume:

47.41 bbl

Tool Weight: 2000.00 lb Weight set on Packer: 20000.00 lb Weight to Pull Loose: 66000.00 lb

Drill Pipe Above KB: 16.00 ft

Tool Chased 0.00 ft String Weight: Initial 44000.00 lb

Depth to Top Packer: 3384.00 ft
Depth to Bottom Packer: ft

Final 46000.00 lb

Printed: 2014.01.23 @ 00:03:57

Interval between Packers: 72.96 ft Tool Length: 92.96 ft

Tool Length: 92.96 ft
Number of Packers: 2

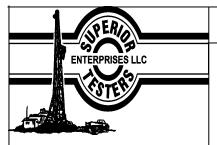
Diameter: 6.75 inches

Ref. No: 18233

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3369.00		
Hydrolic Tool	5.00			3374.00		
Packer	5.00			3379.00	20.00	Bottom Of Top Packer
Packer	5.00			3384.00		
Change Over Sub	0.75			3384.75		
Drill Pipe	31.46			3416.21		
Change Over Sub	0.75			3416.96		
Anchor	35.00			3451.96		
Recorder	1.00	6663	Inside	3452.96		
Recorder	1.00	6838	Outside	3453.96		
Bullnose	3.00			3456.96	72.96	Bottom Packers & Anchor

Total Tool Length: 92.96



FLUID SUMMARY

RJM Company

25/16s/14w/Barton

P.O. Box 256

Kevin Wirth #1

Claflin ks, 67525-0256

Job Ticket: 18233 **DST#: 3**

ATTN: Jim Musgrove

Test Start: 2014.01.22 @ 16:55:00

Printed: 2014.01.23 @ 00:03:57

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight:9.00 lb/galCushion Length:ftViscosity:48.00 sec/qtCushion Volume:bbl

Water Loss: 8.80 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psia

Salinity: 5000.00 ppm Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100% Clean Oil.	0.140
55.00	40% Oil, 60% Mud	0.772
0.00	Oil gravity 42 corrected	0.000

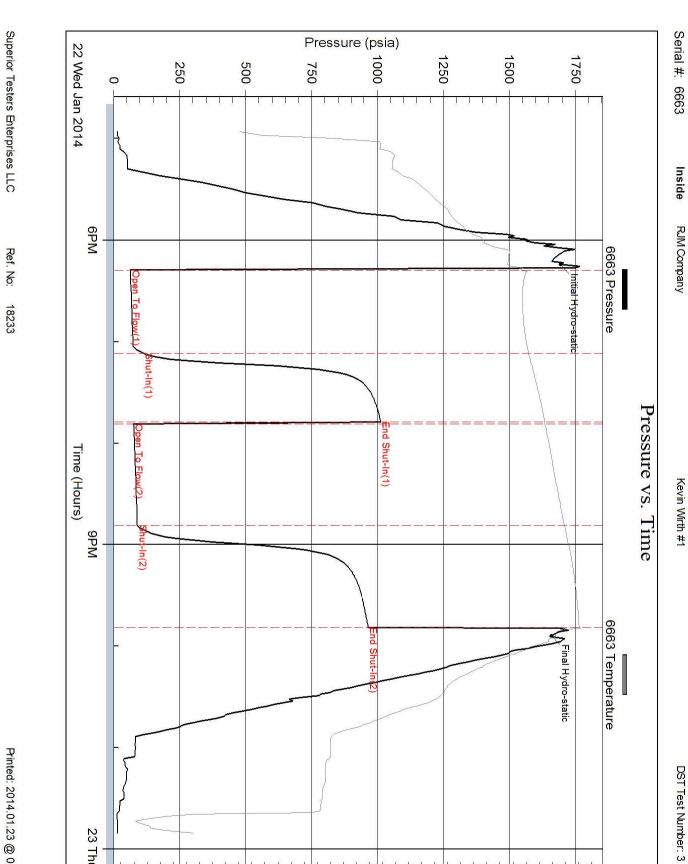
Total Length: 65.00 ft Total Volume: 0.912 bbl

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

Laboratory Name: Laboratory Location:

Ref. No: 18233

Recovery Comments:



23 Thu

Temperature (deg F)