Confidentiality Requested: Yes No

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

1151471

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

#### WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #		API No. 15
Name:		Spot Description:
Address 1:		
Address 2:		Feet from North / South Line of Section
City: State: Zip:	+	Feet from East / West Line of Section
Contact Person:		Footages Calculated from Nearest Outside Section Corner:
Phone: ()		
CONTRACTOR: License #		GPS Location: Lat:, Long:
Name:		(e.g. xx.xxxx) (e.gxxx.xxxx)
Wellsite Geologist:		Datum: NAD27 NAD83 WGS84
Purchaser:		County:
Designate Type of Completion:		Lease Name: Well #:
	orkover	Field Name:
Oil       WSW       SWD         Gas       D&A       ENHR         OG       GSW         CM (Coal Bed Methane)       GSW         Cathodic       Other (Core, Expl., etc.):         If Workover/Re-entry:       Old Well Info as follows:         Operator:	SIOW SIGW Temp. Abd.	Producing Formation:
Plug Back Conv. to GSW Commingled Permit #:	Conv. to Producer	(Data must be collected from the Reserve Pit) Chloride content: ppm Fluid volume: bbls
Dual Completion Permit #:		Dewatering method used:
SWD Permit #:		Location of fluid disposal if hauled offsite:
ENHR Permit #:		Operator Name:
GSW Permit #:		Lease Name:
		Quarter Sec TwpS. R Rest
	bletion Date or mpletion Date	QuarterSec.         TwpS.         R.        East         West           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	1151471
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	
INCTRUCTIONS, Chow important tang of formations papatrated	Datail all aaraa Bapart all	final conice of drill stome tests giving interval tested, time test

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken (Attach Additional She	eets)	Yes No		.og Formatio	on (Top), Depth and	d Datum	Sample
Samples Sent to Geolog	,	Yes No	Nam	е		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
		CASING Report all strings set-c	RECORD Ne		on, etc.		
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
		ADDITIONAL	CEMENTING / SQU	JEEZE RECORD			
Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used		Type and Pe	ercent Additives	
Protect Casing							
Plug Off Zone							
Did you perform a hydraulic	fracturing treatment of	on this well?		Yes	No (If No. skip	o questions 2 an	d 3)
Does the volume of the total	0		ceed 350,000 gallons			o question 3)	/

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?

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

Shots Per Foot				RD - Bridge Plugs Each Interval Perfor		e		Acid, Fracture, Shot, Ce (Amount and Kind		Depth
TUBING RECORD:	Siz	ze:	Set At:		Packer	At:	Liner R		] No	
Date of First, Resumed	Product	ion, SWD or ENHF	3.	Producing Method	d: Pump	oing	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas M	cf	Wate	ər	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITI	ON OF C	GAS:		ME	THOD C	OF COMPLE	TION:		PRODUCTION IN	ERVAL:
Vented Solo	J 🗌 k	Used on Lease		Open Hole	Perf.	Uually (Submit A		Commingled (Submit ACO-4)		
(If vented, Su	bmit ACC	0-18.)		Other (Specify)		(Oublinit P	,	(000//// 200-4)		

Yes

No

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

Form	ACO1 - Well Completion
Operator	Morris, Terry E. dba G L M Company
Well Name	Major 5
Doc ID	1151471

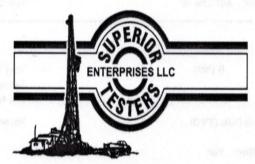
Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3212 to 3214		
4	3117 to 3120		
4	3080 to 3084		
4	2978 to 2981		
4	2938 to 2942		
4	2933 to 2936		
4	2910 to 2914		

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

Phone 785-483-2025 Cell 785-324-1041	Home Office	2 (C 3)2	1995 - 1997 - 19	28 - <sup>54</sup> W.	10.243	On Location	7253
Date 6 - 28 - 13	Twp. Range	1	Sell	State	,		9 45 pM
Adding	45	Locatio	n Bunker	HELL	5 10	DE JE Y	15 was inte
Lease	Well No.	9 - Al	Owner				ж. Ц.
Contractor Royal #2	-		To Quality Oilw You are hereby	requested	d to rent o	cementing equipmen	t and furnish
Type Job Surface	305-12		and the second sec	nelper to a	ssist own	er or contractor to d	o work as listed.
Hole Size 12 14	T.D. 205		To GL	<u>M_</u>			
Csg. \$5/8	Depth	4.10	Street	4-	1		
Tbg. Size	Depth	1 a 8	City		114 114	State	
Tool	Depth	2	The above was o	tone to sati	sfaction ar	nd supervision of owner	r agent or contractor.
Cement Left in Csg. 20 (+	Shoe Joint	-	Cement Amour	nt Ordered	180	) 347	
Meas Line	Displace	1.0	10 T 10 L				
5 No. Cementer			Common				
Pumptrk / Helper			Poz. Mix	·,			
Bulktrk			Gel.		1.1		
Bulktrk No. Driver			Calcium				· · · · · · · · · · · · · · · · · · ·
JOB SERVICES	& REMARKS		Hulls		-	1	St. L. D.C.
Remarks:		$= \frac{1}{2} \sum_{i=1}^{n-1} \frac{1}{2} \sum_{i=1}^{n$	Salt	5	1		
Rat Hole	in ciri	- <sup>1</sup> 9 90	Flowseal		1		
Mouse Hole		0.1	Kol-Seal		1		
Centralizers	2 C		Mud CLR 48				
Baskets			CFL-117 or CD	110 CAF :	38		<u> </u>
D/V or Port Collar	-IIISan		Sand		est.		1
		À	Handling		Call State	Beer of	
		1.	Mileage	- 49	(	Contraction of the second second	
	A CONTRACTOR OF A			FLOAT	EQUIPMI	ENT	ba <sup>2</sup>
	Contraction of the second second		Guide Shoe				
		131010	Centralizer				
1			Baskets	100		10.0-10	
		S. 18	AFU Inserts			1 am 1	1.41
		R. R.Y.	Float Shoe			1 (Second )	
			Latch Down	686 US		100 Maggiot - 100 K	
		k.	a di sa	1			
1	CAN PARTY	10000	1.001		CE ST	and the second s	
21	5711		Pumptrk Charg	e			l
	1		Mileage	3		to part -	
6 Jake		1997	2 K .			Тах	
Bland	, is the vicity	; ::{::	a line in	8. J.C.		Discount	-
X Signature			· 12 - 25	and the sum of	1.8	Total Charge	

Phone 785-483-2025 Cell 785-324-1041	Home Office	P.O. Box 32 Russell, KS 67665 No.
7 11 13 Sec.	Twp. Range	County State On Location Finish
Date 1-4-11.4	19 12	194572011 112 6.00/11/1 1.13
		Location San MA hill Sto Und End FTO
Lease Mu Joh	Well No. 🥥	To Quality Oilwell Cementing, Inc.
Contractor h0/11	and they int	Volution boroby requested to rent cementing equipment and turnish
Type Job APC 506	0000	cementer and helper to assist owner or contractor to do work as listed. Charge
Hole Size 718	T.D.3760	
Csg. 4/2	Depth 7, 9.55	Street () F VI I
Tbg. Size	Depth	City State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contract
Cement Left in Csg. 3.4.63	Shoe Joint 94,6	5 Cement Amount Ordered 200 Com 10% 214
Meas Line 0,5 7	Displace 51.5B1	1/ 5/0
EQUIP		Common
Pumptrk 6 No. Cementer Helper 772	11	Poz. Mix
Bulktrk 3 No. Driver	nie	Gel.
Bulktrk	id	Calcium
JOB SERVICES	& REMARKS	Hulls
Remarks:		Salt
Rat Hole 30 545	en ser si	Flowseal
Mouse Hole 15 545		Kol-Seal
Centralizers 1, 296, 8,	10, 61	Mud CLR 48 5009
Baskets	/	CFL-117 or CD110 CAF 38
D/V or Port Collar	i sig willings	Sand
allowich an obstance in the		Handling
- 6 <sup>-16</sup> 1 61 - 11	e e konstanto	Mileage
	2-15 - 1 - 10-1	UK FLOAT EQUIPMENT
an an an an te Bellinkse an ta		Guide Shoe
		Centralizer 7 + UF 603
		Baskets
网络马马克马克马马马马克	and a second sec	AFU Inserts
	en de la composition de la composition En la composition de l	Float Shoe
The start washing as	- Leng (* <sup>19</sup> 15) Straffer	Latch Down
a contra a c	Politic Science of Filter The Politic Science	COMPARED STREAM OF DESCRIPTION OF THE AND ADDRESS OF THE ADDRESS OF THE ADDRESS OF THE ADDRES
4.	A	
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de la francisco de la completa e m	and for the fail	Mileage
A10.	a state of all	Tax
6 LAR	An and an	Discount
Signature	An other Phillippen in 8	Total Charge



# DRILL STEM TEST REPORT

#### Prepared For: GLM Company

PO Box 193 Russell, Kansas 67665-0193

ATTN: Jeff Lawler

# Major #5

#### 4/15s/12w/Russell

Start Date: 2013.07.02 @ 19:30:00 End Date: 2013.07.03 @ 01:36:30 Job Ticket #: 18405 DST #: 1

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

Printed: 2013.07.02 @ 01:52:36

ENTERPRISES LLC	GLM Cor	mpany		4/1	5s/12w/I	Russel	I	
	PO Box	193 Kansas 67665-0193			<b>jor #5</b> Ticket: 18	3405	DST	#:1
T	ATTN:	Jeff Law ler		Test	t Start: 20	13.07.0	2 @ 19:30:0	D
ENERAL INFORMAT	10N:							
eviated: No me Tool Opened: 21:05:30 me Test Ended: 01:36:30	Whipstock: )	ft (KB)		Test	ter:	Shane K	ional Bottom íonzem /Great Bend	Hole (Initial)
,	( <b>KB) To 3012.00 ft (H</b> 0 ft (KB) (TVD) 8 inches Hole Condition:			Refe	erence Be KB t	evations to GR/CF	1745.	00 ft (KB) 00 ft (CF) 00 ft
-	2013.07.02 End	06.50 ft (KB) d Date: d Time:	2013.07.03 01:36:30	Capacity Last Calit Time On Time Off	b.: Btm: 2		5000. 2013.07. .02 @ 20:59: .03 @ 00:13:	30
1st 2nd	Shut In/ 60 Minutes. d Open/ 30 Minutes.	. Fair blow built to both No blow back. Fair blow built to both No blow back.	_					
2nd	Shut In/ 60 Minutes. d Open/ 30 Minutes.	No blow back. Fair blow built to bott	_	ucket in 20 n		RESU	MMARY	
1st 2nd 2nd 500 500 500 500 500 500 500 500 500 50	Shut In/ 60 Minutes.	No blow back. Fair blow built to bott	Time (Min.)	ucket in 20 n	ninutes. Temp (deg F) 96.98 96.85 96.97 97.31 97.22 97.31	Anno Initial F Open Shut-Ir End Sh Open Shut-Ir End Sh	hydro-static To Flow (1) h(1) hut-ln(1) To Flow (2)	
1st 2nd 2nd	Shut In/ 60 Minutes.	No blow back. Fair blow built to both No blow back.	Time (Min.) 0 6 37 95 96 126 191	Pressure (psia) 1475.63 82.18 113.48 636.13 115.81 139.29 613.52	ninutes. RESSUF Temp (deg F) 96.98 96.85 96.97 97.31 97.22 97.31 97.56 97.77	Anno Initial F Open Shut-Ir End Sh Open Shut-Ir End Sh	hydro-static To Flow (1) h(1) hut-ln(1) To Flow (2) h(2) hut-ln(2) hydro-static	
1st 2nd 2nd	Shut In/         60 Minutes.           Open/         30 Minutes.           Shut In/         60 Minutes.           Pressure vs. Time         90           Image: State s	No blow back. Fair blow built to both No blow back.	Time (Min.) 0 6 37 95 96 126 191	Pressure (psia) 1475.63 82.18 113.48 636.13 115.81 139.29 613.52	ninutes. RESSUF Temp (deg F) 96.98 96.85 96.97 97.31 97.22 97.31 97.56 97.77	Anno Initial F Open Shut-Ir End St Open Shut-Ir End St Final F	hydro-static To Flow (1) h(1) hut-ln(1) To Flow (2) h(2) hut-ln(2) hydro-static	Gas Rate (Mct/c
1st 2nd 2nd 200 700 700 700 700 700 700 700 700 700	Shut In/ 60 Minutes. d Open/ 30 Minutes. d Shut In/ 60 Minutes. Pressure vs. Time Pressure vs. Time Pre	No blow back. Fair blow built to both No blow back.	Time (Min.) 0 6 37 95 96 126 191	Pressure (psia) 1475.63 82.18 113.48 636.13 115.81 139.29 613.52	ninutes. RESSUF Temp (deg F) 96.98 96.85 96.97 97.31 97.22 97.31 97.56 97.77 Ga	Anno Initial F Open Shut-Ir End St Open Shut-Ir End St Final F	hydro-static To Flow (1) h(1) hut-In(1) To Flow (2) h(2) hut-In(2) hydro-static	Gas Rate (Mcf/d

Printed: 2013.07.02 @ 01:52:36

	ALL ALL	DRILL STEM				100	125,7385	and the same	p - share at the
EN'	TERPRISES LLC	GLM Company			4/1	5s/12w/	Russel	1 201 Egylorig	
	Forth?	PO Box 193			Ma	jor #5			
		Russell, Kansas 67665-	0193		Job	Ticket: 18	3405	DST	<b>#: 1</b>
		ATTN: Jeff Law ler			Tes	t Start: 20	013.07.0	2 @ 19:30:00	in de la la
GENERAL	INFORMATION:							00	ie možna ko
îme Tool Ope	LKC A-G No Whipstock: ned: 21:05:30 ed: 01:36:30	ft (KB)			Tes	ter:	Shane K	ional Bottom I onzem 'Great Bend	Hole (Initial)
n <b>terval:</b> <sup>T</sup> otal Depth: <del>I</del> ole Diameter:	3012.00 ft (KB) (TVD				Ref	erence Be KB t	evations: to GR/CF	1745.0	00 ft(KB) 00 ft(CF) 00 ft
Serial #: 8 ress@RunDe tart Date: tart Time:	epth: 615.32 psia @ 2013.07.02 19:30:00	) 3007.50 ft (KB) End Date: End Time: Minutes. Fair blow built		2013.07.03 01:37:00	Capacity Last Cali Time On Time Off	b.: Btm: 2 Btm: 2		2013.07.0 02 @ 21:02:3 03 @ 00:13:0	30
	1st Shut In/ 60 2nd Open/ 30	Minutes. No blow back. Minutes. Fair blow built t	o bottom o	of 5 gallon b	ucket in 20 r	minutes.			
	1st Shut In/ 60 2nd Open/ 30	Minutes. Fair blow built t Minutes. No blow back.	o bottom o	an an an a san a san an a	Pf	RESSUF			kan ka kan kan kan kan kan kan
	1st Shut In/ 60 2nd Open/ 30 2nd Shut In/ 60 I Pressure vs. Tim	Minutes. Fair blow built t Minutes. No blow back.		of 5 gallon b Time (Min.) 0 3 34 92		00.0	Anno Initial H Open 1 Shut-In	tation ydro-static ro Flow (1) (1)	denio Todi elue elue arceena arceena arceena arceena arceena arceena
500	1st Shut In/ 60 2nd Open/ 30 2nd Shut In/ 60 I Pressure vs. Tim	Minutes. Fair blow built t Minutes. No blow back.	Timperstare (deg 7)	Time (Min.) 0 3 34	Pressure (psia) 1474.81 84.09 116.15	RESSUF Temp (deg F) 98.52 98.11 98.12	Anno Initial H Open T Shut-In End Sh Open T Shut-In End Sh Final H	tation ydro-static To Flow (1) (1) (1) ut-ln(1) To Flow (2)	denio Tod dua dua ange Que S ange Que S ange Que S ange Que ange ange ange ange
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<b>233</b>	1st Shut In/ 60 2nd Open/ 30 2nd Shut In/ 60 I Pressure vs. Tim	Minutes. Fair blow built t Minutes. No blow back.	5 99 16 (645 F)	Time (Min.) 0 3 34 92 93 123 188	Pressure (psia) 1474.81 84.09 116.15 640.51 117.91 141.70 615.32	RESSUR (deg F) 98.52 98.11 98.12 98.57 98.38 98.44 98.84 99.20	Anno Initial H Open T Shut-In End Sh Open T Shut-In End Sh Final H	tation ydro-static To Flow (1) (1) ut-In(1) To Flow (2) (2) ut-In(2) ydro-static	denio Tori dias dias das Das S 2 Po 2 Po 2 De dos dono condos
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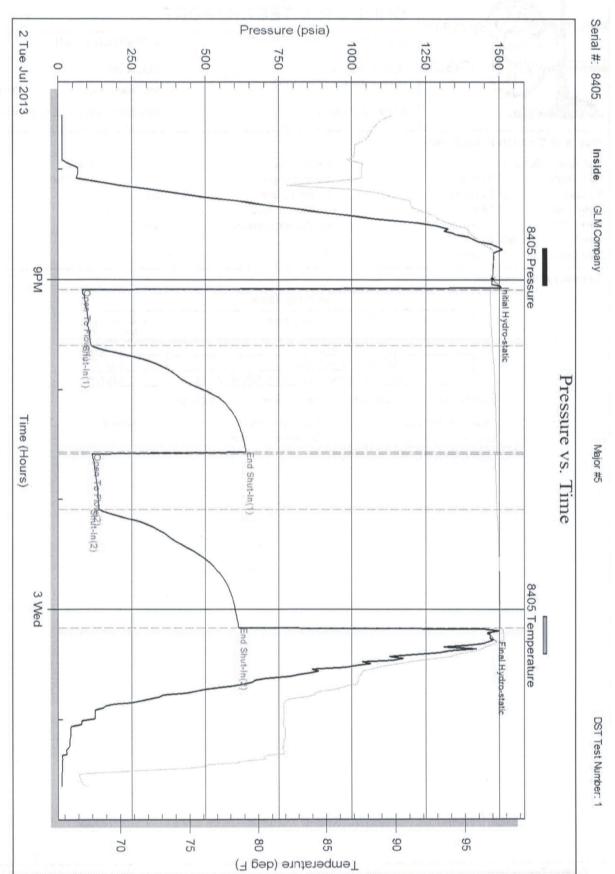
RERIA		DRII	L STE	M TEST	REPOR	<b>F</b> 1940	TOOL D	IAGRA
ENTERPRISES LLC	0	GLM Co	mpany			4/15s/12w/Russell	States .	
		PO Box	193			Major #5		
		Russell,	Kansas 6766	5-0193		Job Ticket: 18405	DST#:1	
		ATTN:	Jeff Law ler			Test Start: 2013.07.02 (	@ 19:30:00	
Tool Information							100401000	
Drill Pipe: Length:	2905.00 ft	Diameter:	3.80 inc	hes Volume:	40.75 bbl	Tool Weight:	2000.00 lb	
Heavy Wt. Pipe: Length:	0.00 ft	Diameter:	0.00 inc	hes Volume:	0.00 bbl	Weight set on Packer	r: 20000.00 lb	
Drill Collar: Length:	0.00 ft	Diameter:	0.00 inc	hes Volume:	0.00 bbl	Weight to Pull Loose:	54000.00 lb	
Drill Pipe Above KB:	20.00 ft		-	Fotal Volume:	40.75 bbl	Tool Chased	0.00 ft	
Depth to Top Packer:	2906.00 ft					String Weight: Initial	40000.00 lb	
Depth to Bottom Packer:	2300.00 ft					Final	40000.00 lb	
nterval betw een Packers:								
Tool Length:	127.50 ft							
Number of Packers:	2	Diameter:	6.75 inc	hes				
Tool Comments:								
-	Le	/	Serial No.	Position	Depth (ft) Ac	cum. Lengths	11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	
-	Le	<b>ngth (ft)</b> 1.00	Serial No.	Position	Depth (ft) Ac	cum. Lengths		
Change Over Sub	Le		Serial No.	Position		cum. Lengths		
Change Over Sub Shut-In Tool	Le	1.00	Serial No.	Position	2886.00	cum. Lengths		
Change Over Sub Shut-In Tool Hydroic Tool	Le	1.00 5.00	Serial No.	Position	2886.00 2891.00	21.00	Bottom Of To	op Packer
Change Over Sub Shut-In Tool Hydroic Tool Packer	Le	1.00 5.00 5.00	Serial No.	Position	2886.00 2891.00 2896.00	e entre solo Roman e colo Nota March Charles	Bottom Of To	op Packer
Change Over Sub Shut-In Tool Hydroic Tool Packer Packer	Le	1.00 5.00 5.00 5.00	Serial No.	Position	2886.00 2891.00 2896.00 2901.00	e entre solo Roman e colo Nota March Charles	Bottom Of To	op Packer
Change Over Sub Shut-In Tool Hydroic Tool Packer Packer Perforations	Le	1.00 5.00 5.00 5.00 5.00	Serial No.	Position	2886.00 2891.00 2896.00 2901.00 2906.00	e entre solo Roman e colo Nota March Charles	Bottom Of To	op Packer
Change Over Sub Shut-In Tool Hydroic Tool Packer Packer Perforations Change Over Sub	Le	1.00 5.00 5.00 5.00 5.00 5.00	Serial No.	Position	2886.00 2891.00 2896.00 2901.00 2906.00 2911.00	e entre solo Roman e colo Nota March Charles	Bottom Of To	op Packer
Change Over Sub Shut-In Tool Hydroic Tool Packer Packer Perforations Change Over Sub Drill Pipe	Le	1.00 5.00 5.00 5.00 5.00 5.00 0.75	Serial No.	Position	2886.00 2891.00 2896.00 2901.00 2906.00 2911.00 2911.75	e entre solo Roman e colo Nota March Charles	Bottom Of To	op Packer
Change Over Sub Shut-In Tool Hydroic Tool Packer Packer Perforations Change Over Sub Drill Pipe Change Over Sub	Le	1.00 5.00 5.00 5.00 5.00 5.00 0.75 63.00	Serial No.	Position	2886.00 2891.00 2896.00 2901.00 2906.00 2911.00 2911.75 2974.75	e entre solo Roman e colo Nota March Charles	Bottom Of To	op Packer
Change Over Sub Shut-In Tool Hydroic Tool Packer Packer Perforations Change Over Sub Drill Ape Change Over Sub Perforations	Le	1.00 5.00 5.00 5.00 5.00 5.00 0.75 63.00 0.75	Serial No.	Position	2886.00 2891.00 2896.00 2901.00 2906.00 2911.00 2911.75 2974.75 2975.50	e entre solo Roman e colo Nota March Charles	Bottom Of To	op Packer
Tool Description Change Over Sub Shut-In Tool Hydroic Tool Packer Packer Packer Packer Change Over Sub Drill Pipe Change Over Sub Perforations Recorder Recorder	Le	1.00 5.00 5.00 5.00 5.00 0.75 63.00 0.75 30.00			2886.00 2891.00 2896.00 2901.00 2911.00 2911.75 2974.75 2975.50 3005.50	e entre solo Roman e colo Nota March Charles	Bottom Of To	op Packer

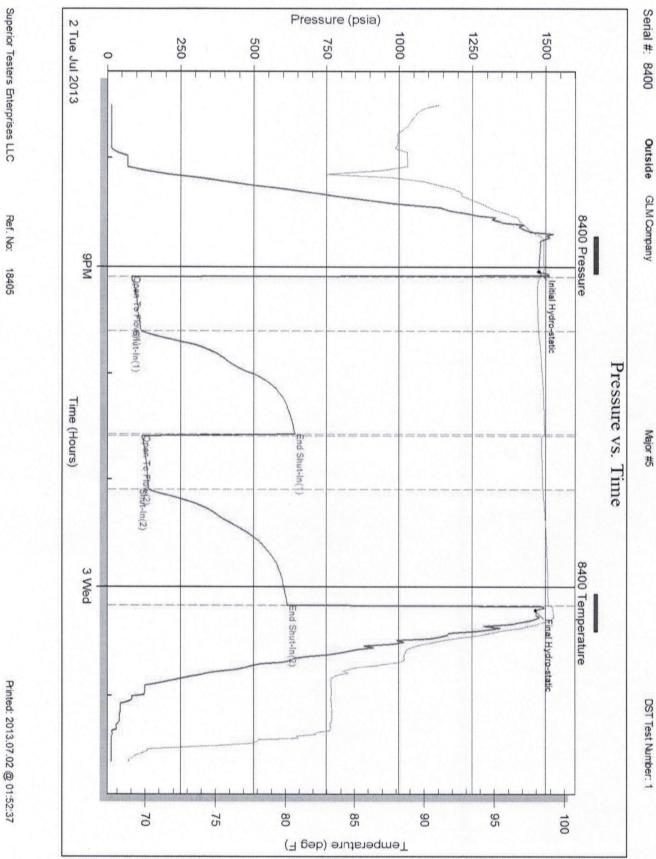
Total Tool Length: 127.50

Printed: 2013.07.02 @ 01:52:37

	C B		Company	I TEST REPO		/12w/Ri	ueno II	FLOID	SUMMAR
		197					issen		
	STER		ox 193 ell, Kansas 67665	5-0193	Majo			1	
						cket: 1840		DST#	:1
		ATIN	: Jeff Law ler		Test S	tart: 2013	3.07.02 @	19:30:00	1
ud and Cus	hion Informatio	on							
d Type: Gel d Weight: acosity: ater Loss: sistivity: linity: er Cake:	Chem 9.00 lb/gal 54.00 sec/qt 8.79 in <sup>3</sup> ohm.m 3800.00 ppm inches		Cushior Gas Cu	n Type: n Length: n Volume: shion Type: shion Pressure:	ft bbl psia		API: ater Salini	ity:	deg AP ppm
covery Info	ormation				a an				û3
				ery Table					
	L	ength ft	Des	cription	Volubl	ume bl			
		0.00	250 feet gas			0.000			
		83.00 126.00	5% oil, 95% m	ud. 5 w ater, 10% oil, 20% ga		1.164			
21 20082	Total Length Num Fluid S Laboratory Recovery C	amples: 0 Name:	Num	n Gas Bombs: 0 oratory Location:	S	erial #:			
onti er mise	Num Fluid S Laboratory	amples: 0 Name:	Num		S	erial #:			
SUIL AV MURE	Num Fluid S Laboratory	amples: 0 Name:	Num		S	erial #:			
0.0011 21 200382	Num Fluid S Laboratory	amples: 0 Name:	Num		S	erial #:			
anna maisteanna ann ann ann ann ann ann ann ann an	Num Fluid S Laboratory	amples: 0 Name:	Num		S	erial #:			
SCHIT AV SAURE	Num Fluid S Laboratory	amples: 0 Name:	Num		S	erial #:			
oritoria artematica danse	Num Fluid S Laboratory	amples: 0 Name:	Num		S	erial #:			
ordenes ordenes	Num Fluid S Laboratory	amples: 0 Name:	Num		S	erial #:			
anderes anderes 2006	Num Fluid S Laboratory	amples: 0 Name:	Num		S	erial #:			
outras antenas aprenantas 2006	Num Fluid S Laboratory	amples: 0 Name:	Num		S	erial #:			
Source 1005	Num Fluid S Laboratory	amples: 0 Name:	Num		S	erial #:			







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# DRILL STEM TEST REPORT

Prepared For: GLM Company

**PO Box 193** Russell, Kansas 67665-0193

ATTN: Jeff Lawler

#### Major #5

#### 4/15s/12w/Russell

2013.07.02 @ 05:15:00 Start Date: End Date: 2013.07.02 @ 10:37:00 Job Ticket #: 18406 DST #: 2

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

Printed: 2013.07.02 @ 21:38:36

**GLM** Company

4/15s/12w/Russell

Major #5

**DST # 2** 

LKC I-L

2013.07.02

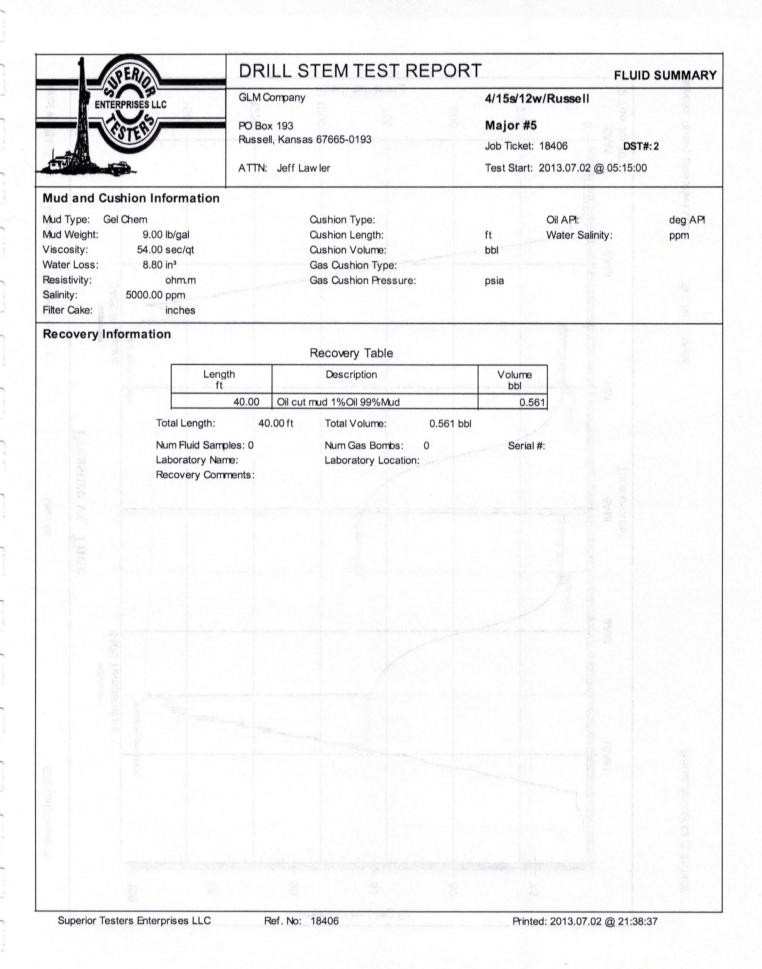
- S - S - S - S - S - S - S - S - S - S			ORT	- 110			
ENTERPRISES LLC	GLM Company		4/1	5s/12w/I	Russe	11	
WITH STATE	PO Box 193 Russell, Kansas 67665-0193			<b>jor #5</b> Ticket: 18	3406	DST#:	2
	ATTN: Jeff Lawler		Tes	t Start: 20	)13.07.0	02 @ 05:15:00	
GENERAL INFORMATION:	/ 1	1 C 12					
Formation:LKC I-LDeviated:NoWhipstock:Time Tool Opened:06:28:30Time Test Ended:10:37:00	ft (KB)		Tes	ter: [	Dustin E	tional Bottom H ∃lis )/Great Bend	ole (Initial)
Interval:3059.00 ft (KB) To3Total Depth:3160.00 ft (KB) (THole Diameter:7.88 inches Ho			Ref	erence Be KB t	evations to GR/Cl	1745.00	0 ft (KB) 0 ft (CF) 0 ft
1st Shut In/ 2nd Open/	<ul> <li>3154.73 ft (KB) End Date: End Time:</li> <li>30 Minutes. Weak blow built to 1.4 60 Minutes. No blow back</li> <li>30 minutes. Weak blow built to 5 in 60 minutes. No blow back.</li> </ul>			b.: Btm: 2 Btm: 2		5000.00 2013.07.03 7.02 @ 06:27:30 7.02 @ 09:31:00	2
Pressure vs.	Time		PF	RESSUR	RE SUI	MMARY	
9405 Pressure	8405 Tempendure	Time	Pressure	Temp		otation	
	ata fractione action and a second sec	(Min.) 0 1 32 94 95 124 183 184	(psia) 1666.59 77.97 82.89 839.91 81.80 91.62 809.28 1640.14	(deg F) 98.79 98.46 98.38 98.90 98.77 98.88 99.27 99.40	Open Shut-li End Sl Open Shut-li End Sl	hut-ln(1) To Flow (2)	
	AD 19-00	0 1 32 94 95 124 183	1666.59 77.97 82.89 839.91 81.80 91.62 809.28	98.79 98.46 98.38 98.90 98.77 98.88 99.27 99.40	Open Shut-li End Sl Open Shut-li End Sl	To Flow (1) n(1) hut-ln(1) To Flow (2) n(2) hut-ln(2) tydro-static	

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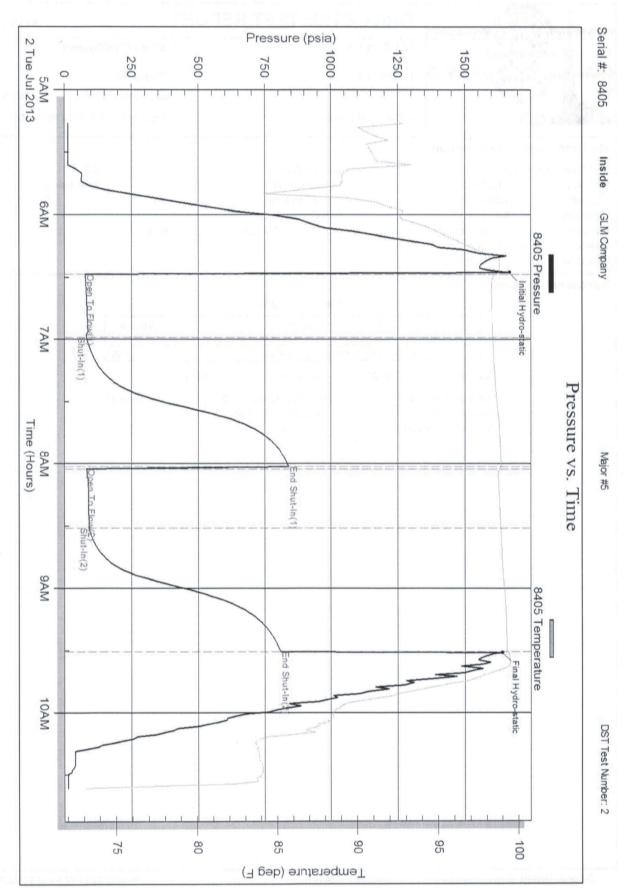
	ISES LLC	ompany			4/1	5s/12w/	Russell		
	PO Box	: 193 I, Kansas 67665-019	3			jor #5 Ticket: 18	3406	DST	±-2
	ATTN:	Jeff Law ler						2 @ 05:15:00	
GENERAL INFO	RMATION:							00	in mutter i se
Formation:	<b>_KC I-L</b> № Whipstock:	ft (KB)			Tes			onal Bottom	Hole (Initial)
Time Test Ended:					100			Great Bend	
Interval: 305 Total Depth: Hole Diameter:	9.00 ft (KB) To 3160.00 ft ( 3160.00 ft (KB) (TVD) 7.88 inches Hole Condition				Ref	erence Be KB t	evations:	1745.0	00 ft(KB) 00 ft(CF) 00 ft
									an a
Serial #: 8400 Press@RunDepth: Start Date: Start Time:	2013.07.02 E	55.73 ft (KB) nd Date: nd Time:		3.07.02 0:37:00	Capacity Last Cali Time On Time Off	b.: Btm: 2		5000.0 2013.07.0 02 @ 06:27:0 02 @ 09:31:0	00
- total and the con-	and the second								
	Pressure vs. Time		_			RESSUR	-		
1750 1550	Pressure vs. Time	53 Temperature		Time (Min.) 0	Pressure (psia) 1669.05	Temp (deg F) 100.33	Annot		etter Hunddong abyo Over S
	Pressure vs. Time	89 Temperature	- 95	(Min.) 0 1 32	Pressure (psia) 1669.05 79.35 84.15	Temp (deg F) 100.33 99.67 99.69	Annot Initial Hy Open To Shut-In(	ation ydro-static o Flow (1) (1)	
	Pressure vs. Time	89 Temperature		(Min.) 0 1	Pressure (psia) 1669.05 79.35 84.15 841.79 84.45	Temp (deg F) 100.33 99.67 99.69 100.24 99.97	Annot Initial Hy Open To Shut-In( End Shu Open To	ation ydro-static o Flow (1) (1) ut-In(1) o Flow (2)	
	Pressure vs. Time	B Temperature		(Min.) 0 1 32 95	Pressure (psia) 1669.05 79.35 84.15 841.79	Temp (deg F) 100.33 99.67 99.69 100.24 99.97 100.00	Annot Initial Hy Open To Shut-In( End Shu Shut-In( End Shu	ation ydro-static o Flow (1) (1) ut-In(1) o Flow (2) (2)	
			S S S	(Min.) 0 1 32 95 96 124 183	Pressure (psia) 1669.05 79.35 84.15 841.79 84.45 94.33 809.58	Temp (deg F) 100.33 99.67 99.69 100.24 99.97 100.00 100.56	Annot Initial Hy Open To Shut-In( End Shu Shut-In( End Shu Final Hy	ation ydro-static o Flow (1) (1) ut-In(1) o Flow (2) (2) ut-In(2)	
<b>2</b> 500 <b>A A A A A A A A A A</b>	Pressure vs. Time	B <sup>2</sup> Trapinate	S S S	(Min.) 0 1 32 95 96 124 183	Pressure (psia) 1669.05 79.35 84.15 841.79 84.45 94.33 809.58	Temp (deg F) 100.33 99.67 99.69 100.24 99.97 100.00 100.56	Annot Initial Hy Open To Shut-In( End Shu Shut-In( End Shu Final Hy	ation ydro-static o Flow (1) (1) ut-In(1) o Flow (2) (2) ut-In(2) ydro-static	
		B) Tompride	S S S	(Min.) 0 1 32 95 96 124 183	Pressure (psia) 1669.05 79.35 84.15 841.79 84.45 94.33 809.58	Temp (deg F) 100.33 99.67 99.69 100.24 99.97 100.00 100.56 100.84	Annot Initial Hy Open To Shut-In( End Shu Shut-In( End Shu Final Hy	ation ydro-static o Flow (1) (1) ut-In(1) o Flow (2) (2) ut-In(2) ydro-static	

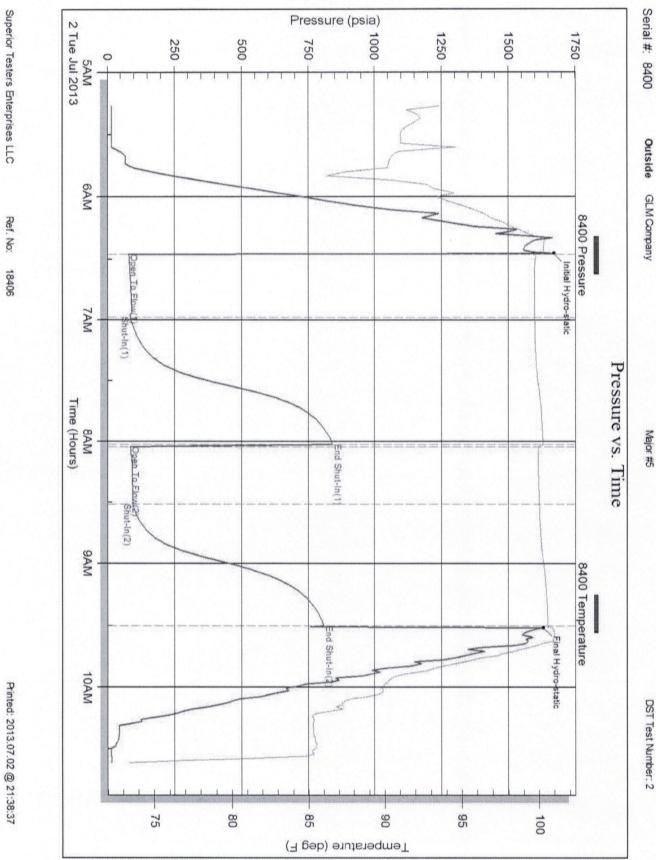
SP ER		LSIE	MIESI	REPOR	I	TOOL	IAGRA
ENTERPRISES LLC	GLM Com	pany			4/15s/12w/Russe	ell	6
- CANTERS	PO Box 1				Major #5		
	Russell, K	ansas 676	65-0193		Job Ticket: 18406	DST#:2	
	ATTN: J	eff Law ler			Test Start: 2013.07.	.02 @ 05:15:00	
Tool Information						- 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1999, 1	
Drill Pipe: Length: 3070.00 f	t Diameter:	3.80 ind	ches Volume:	43.06 bbl	Tool Weight:	2000.00 lb	
Heavy Wt. Pipe: Length: 0.00 f	t Diameter:	0.00 ind	ches Volume:	0.00 bbl	Weight set on Pa	cker: 20000.00 lb	
Drill Collar: Length: 0.00 f	t Diameter:	0.00 inc	ches Volume:	0.00 bbl	Weight to Pull Loo	ose: 50000.00 lb	
Drill Pipe Above KB: 32.00 f	t		Total Volume:	43.06 bbl	Tool Chased	0.00 ft	
Depth to Top Packer: 3059.00 f					String Weight: In		
					FI	nal 43000.00 lb	
Depth to Bottom Packer: f	t						
	-						
nterval betw een Packers: 101.73 f	t						
nterval betw een Packers: 101.73 f	t	6.75 ind	ches				
nterval betw een Packers: 101.73 f fool Length: 122.73 f Number of Packers: 2 fool Comments:	t Diameter:	6.75 ind	Position	Depth (ft) Ad	ccum. Lengths		
Interval betw een Packers:       101.73 f         iool Length:       122.73 f         Number of Packers:       2         iool Comments:       2         Fool Description       L	t Diameter:			<b>Depth (ft)</b> Ac 3039.00	ccum. Lengths		
nterval betw een Packers: 101.73 f Fool Length: 122.73 f Number of Packers: 2 Fool Comments:	t Diameter: ength (ft) S			,	ccum. Lengths		
nterval betw een Packers: 101.73 f Fool Length: 122.73 f Number of Packers: 2 Fool Comments: 2 Fool Description L Change Over Sub	t Diameter: ength (ft) S 1.00			3039.00	ccum. Lengths		
terval betw een Packers: 101.73 f ool Length: 122.73 f lumber of Packers: 2 ool Comments: Cool Description L Change Over Sub Shut-In Tool tydroic Tool	t Diameter: ength (ft) S 1.00 5.00			3039.00 3044.00	ccum. Lengths 21.00	Bottom Of Te	op Packe
terval betw een Packers: 101.73 f ool Length: 122.73 f lumber of Packers: 2 ool Comments: <b>Tool Description L</b> Change Over Sub Shut-In Tool Hydroic Tool acker	t Diameter: ength (ft) S 1.00 5.00 5.00			3039.00 3044.00 3049.00		Bottom Of Te	op Packe
terval betw een Packers: 101.73 f ool Length: 122.73 f lumber of Packers: 2 ool Comments: Cool Description L Change Over Sub Shut-In Tool tydroic Tool acker Packer	t Diameter: ength (ft) S 1.00 5.00 5.00 5.00			3039.00 3044.00 3049.00 3054.00		Bottom Of To	op Packe
nterval betw een Packers: 101.73 f iool Length: 122.73 f lumber of Packers: 2 iool Comments: <b>Fool Description</b> Change Over Sub Shut-In Tool tydroic Tool Packer Packer Perforations	ength (ft) S 1.00 5.00 5.00 5.00 5.00			3039.00 3044.00 3049.00 3054.00 3059.00		Bottom Of Te	op Packe
nterval betw een Packers: 101.73 f fool Length: 122.73 f lumber of Packers: 2 fool Comments: fool Description L Change Over Sub Shut-In Tool Hydroic Tool Packer Packer Packer Parforations Change Over Sub	t Diameter: Diameter: 1.00 5.00 5.00 5.00 5.00 5.00			3039.00 3044.00 3049.00 3054.00 3059.00 3064.00		Bottom Of To	op Packe
terval betw een Packers: 101.73 f ool Length: 122.73 f lumber of Packers: 2 ool Comments: Cool Description L Change Over Sub Shut-In Tool tydroic Tool tydroic Tool tacker terforations Change Over Sub Change Over Sub Change Over Sub	ength (ft) S 1.00 5.00 5.00 5.00 5.00 5.00 0.75			3039.00 3044.00 3049.00 3054.00 3059.00 3064.00 3064.75		Bottom Of Te	op Packe
Interval betw een Packers:       101.73 f         iool Length:       122.73 f         Iumber of Packers:       2         iool Comments:       2         iool Description       L         Change Over Sub       3         Shut-In Tool       4         Hydroic Tool       2         Packer       2         Packer       3         Partors       3         Change Over Sub       3         Shut-In Tool       4         Hydroic Tool       4         Packer       4         Partors       4	ength (ft) S 1.00 5.00 5.00 5.00 5.00 0.75 61.23			3039.00 3044.00 3049.00 3054.00 3059.00 3064.00 3064.75 3125.98		Bottom Of Te	op Packe
Interval betw een Packers: 101.73 f iool Length: 122.73 f lumber of Packers: 2 iool Comments: 2 iool Comments: 2 <b>fool Description</b> L Change Over Sub Shut-In Tool Hydroic Tool Packer Packer Packer Packer Packer Change Over Sub Change Over Sub Change Over Sub Packer Pa	ength (ft) S 1.00 5.00 5.00 5.00 5.00 5.00 0.75 61.23 0.75			3039.00 3044.00 3049.00 3054.00 3059.00 3064.00 3064.75 3125.98 3126.73		Bottom Of Te	op Packe
nterval betw een Packers: 101.73 f Fool Length: 122.73 f Number of Packers: 2 Fool Comments: 2 Fool Description L Change Over Sub Shut-In Tool	ength (ft) S 1.00 5.00 5.00 5.00 5.00 0.75 61.23 0.75 27.00	erial No.	Position	3039.00 3044.00 3049.00 3054.00 3059.00 3064.00 3064.75 3125.98 3126.73 3153.73		Bottom Of To	op Packe

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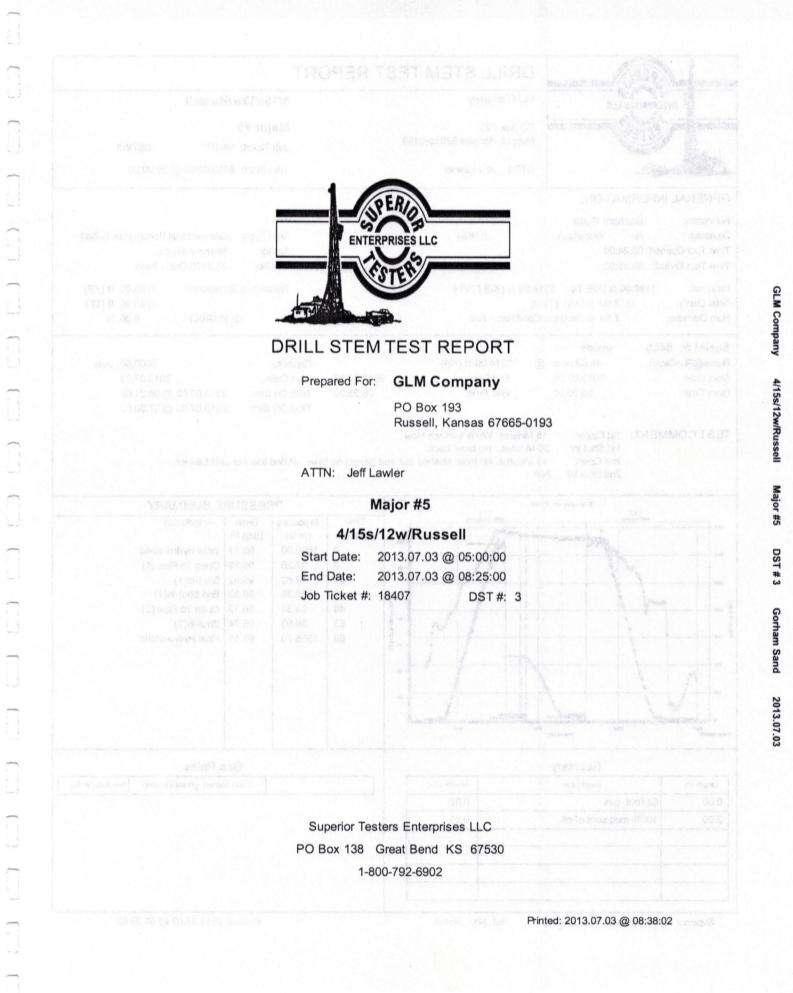
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Ref. No: 18406





ENTERPRISES LLC	GLM Company		4/15	5s/12w/F	Russel	I	
	PO Box 193 Russell, Kansas 67665-0193			j <b>or #5</b> Ticket: 18	3407	DST	#:3
	ATTN: Jeff Law ler		Test	Start: 20	13.07.0	3 @ 05:00:00	)
ENERAL INFORMATION:	1.5						
eviated: No Whipstock: me Tool Opened: 06:24:00 me Test Ended: 08:25:00	ft (KB)		Test Test Unit	er: S	Shane K	ional Bottom onzem /Great Bend	Hole (Initial)
terval:3190.00 ft (KB) To3otal Depth:3218.00 ft (KB) (1ole Diameter:7.88 inches Ho			Refe	erence Ee KB te	evations: o GR/CF	1745.	00 ft (KB) 00 ft (CF) 00 ft
erial #:         8405         Inside           ess@RunDepth:         48.62 psia           art Date:         2013.07.03           art Time:         05:00:00	End Date:	2013.07.03 08:25:00	Capacity: Last Calib Time On B Time Off	o.: 3tm: 2		5000. 2013.07. .03 @ 06:21: .03 @ 07:30:	00
1st Shut In/	15 Minutes. Weak surface blow . 30 Minutes. No blow back.						
1st Shut In/ 2nd Open/	30 Minutes. No blow back. 15 Minutes. No blow flushed tool a N/A.	Ind gained no	43°, 24	tool per J RESSUR Temp (deg F)	RESUN		
1st Shut In/ 2nd Open/ 2nd Shut In/ Pressure vs.	30 Minutes. No blow back. 15 Minutes. No blow flushed tool a N/A.	Time (Min.) 0 3 21 48 48 63	Pressure (psia) 1590.00 37.29 48.62 558.38 38.30 39.93	RESSUR Temp (deg F) 95.71 95.89 95.82 96.23 96.13 96.74	RE SUM Anno Initial H Open 1 Shut-In End Sh Open 1 Shut-In	MMARY tation lydro-static To Flow (1) h(1) hut-In(1) To Flow (2) h(2)	
1st Shut In/ 2nd Open/ 2nd Shut In/ Pressure vs.	30 Minutes. No blow back. 15 Minutes. No blow flushed tool a N/A.	Time (Min.) 0 3 21 48 48 63	Pressure (psia) 1590.00 37.29 48.62 558.38 38.30	RESSUR Temp (deg F) 95.71 95.89 95.82 96.23 96.13 96.74	RE SUM Anno Initial H Open 1 Shut-In End Sh Open 1 Shut-In	MMARY tation lydro-static Fo Flow (1) h(1) hut-ln(1) Fo Flow (2)	
1st Shut In/ 2nd Open/ 2nd Shut In/	30 Minutes. No blow back. 15 Minutes. No blow flushed tool a N/A.	Time (Min.) 0 3 21 48 48 63	Pressure (psia) 1590.00 37.29 48.62 558.38 38.30 39.93	RESSUR Temp (deg F) 95.71 95.89 95.82 96.23 96.13 96.74 97.11	RE SUM Anno Initial H Open 1 Shut-In End Sh Open 1 Shut-In	MMARY tation fo Flow (1) h(1) hut-In(1) fo Flow (2) h(2) ydro-static	
2nd Open/ 2nd Shut In/ Pressure vs.	30 Minutes. No blow back. 15 Minutes. No blow flushed tool a N/A.	Time (Min.) 0 3 21 48 48 63	Pressure (psia) 1590.00 37.29 48.62 558.38 38.30 39.93	RESSUR Temp (deg F) 95.71 95.89 95.82 96.23 96.13 96.74 97.11	RE SUN Anno Initial H Open T Shut-In End Sh Open T Shut-In Final H	MMARY tation fo Flow (1) h(1) hut-In(1) fo Flow (2) h(2) ydro-static	Gas Rate (Mct/d)

Printed: 2013.07.03 @ 08:38:02

CALLER CALLER	<b>N</b> <sup>3</sup>	GLM Company		<u></u>	4/1	5s/12w/	Russell	Table State	
	RPRISES LLC	PO Box 193				jor #5	Contractor		
	STER	Russell, Kansas 67	665-0193			Ticket: 18	3407	DST#:	3
	<b>A</b> .	ATTN: Jeff Law ler					013.07.03 @		-AME
SENERAL IN	FORMATION:							- Strift	scontal tec
ormation:	Gorham Sand								
eviated: ime Tool Opene ime Test Endec	60.00.24.00	ft (KB)			Tes	ter:	Conventiona Shane Konzo 3330/70/Gre	em	ole (Initial)
	3190.00 ft (KB) To	3218.00 ft (KB) (TVD)				erence Be			) ft (KB)
otal Depth: lole Diameter:	3218.00 ft (KB) (						o GR/CF:		ft (CF)
erial #: 84	00 Outside			1930 (1930) - P	16 19	ar al		ingel:	nin vinkin
ress@RunDep tart Date:	oth: 560.58 psia 2013.07.03	-		2013.07.03	Capacity Last Cali			5000.00 2013.07.03	) psia
tart Time:	05:10:00			08:34:30	Time On Time Off	Btm: 2	2013.07.03 ( 2013.07.03 (	@ 06:29:30	)
	2nd Open/ 2nd Shut In/	15 Minutes. No blow fl	usiled tool all	a gamea no	blow. Pullet	i tooi per o	en Lawier.		
in transminent	ison	30.02	0010			120.2			en una conserva-
	Pressure vs	s. Time	001.0 28:35 0:374		PI		RE SUMM	ARY	e koe Ekster
789	1.00	30.44	······································	Time (Min.)	Pressure	Temp	RE SUMM		cioc 1861 Brockhore
	Pressure vs	s. Time	199 	(Min.) 0	Pressure (psia) 1608.09	Temp (deg F) 97.47	Annotatio	on o-static	n kon 1986 Primaria Primaria Primaria
F30	Pressure vs	s. Time		(Min.) 0 5	Pressure (psia) 1608.09 40.01	Temp (deg F) 97.47 97.18	Annotatio Initial Hydro Open To Fl	on o-static	e koe 5 865 20 miliona 20 miliona 20 miliona 20 miliona
500	Pressure vs	s. Time		(Min.) 0	Pressure (psia) 1608.09	Temp (deg F) 97.47	Annotatio Initial Hydro Open To Fl Shut-In(1)	on o-static low (1)	okie 1882 1880 1880 1997 1997 1997 1997 1997
<b>1990</b>	Pressure vs	s. Time	900 1900 1900 1900 1900 1900 1900 1900	(Min.) 0 5 25 49 50	Pressure (psia) 1608.09 40.01 65.31 560.58 41.50	Temp (deg F) 97.47 97.18 97.14 97.52 97.33	Annotatio Initial Hydro Open To Fl Shut-In(1) End Shut-Ir Open To Fl	on o-static low (1) n(1)	nior 1881 1980 1980 1997 1997 1997 1997 1997 1997 1997 199
739				(Min.) 0 5 25 49	Pressure (psia) 1608.09 40.01 65.31 560.58	Temp (deg F) 97.47 97.18 97.14 97.52 97.33	Annotatio Initial Hydro Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2)	on o-static low (1) n(1) low (2)	nior 1881 1980 1980 1997 1997 1997 1997 1997 1997 1997 199
	Pressure vs	S. Time	Tamperture	(Min.) 0 5 25 49 50 65	Pressure (psia) 1608.09 40.01 65.31 560.58 41.50 42.98	Temp (deg F) 97.47 97.18 97.14 97.52 97.33 97.69 98.67	Annotatio Initial Hydro Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2)	on o-static low (1) n(1) low (2)	okie 1882 1880 1880 1997 1997 1997 1997 1997
200	Pressure va	S. TEIRC	Tempereture (deg F)	(Min.) 0 5 25 49 50 65	Pressure (psia) 1608.09 40.01 65.31 560.58 41.50 42.98	Temp (deg F) 97.47 97.18 97.14 97.52 97.33 97.69 98.67	Annotatio Initial Hydro Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2) Final Hydro	on o-static low (1) n(1) low (2) o-static	riser Eksi Ehrailons Gerdar Gorse
200 200 200 200 200 200 200 200 200 200	Pressure va	s. Time	Tempereture (deg F)	(Min.) 0 5 25 49 50 65	Pressure (psia) 1608.09 40.01 65.31 560.58 41.50 42.98	Temp (deg F) 97.47 97.18 97.14 97.52 97.33 97.69 98.67	Annotatio Initial Hydro Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2) Final Hydro	on o-static low (1) n(1) low (2) o-static	riser Eksi Ehrailons Gerdar Gorse
250 250 250 250 250 250 250 250	Pressure va	S. TEIRC	Tempereture (deg F)	(Min.) 0 5 25 49 50 65	Pressure (psia) 1608.09 40.01 65.31 560.58 41.50 42.98	Temp (deg F) 97.47 97.18 97.14 97.52 97.33 97.69 98.67	Annotatio Initial Hydro Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2) Final Hydro	on o-static low (1) n(1) low (2) o-static	rker Ekei Ehraitons Gerder Gorker
279	Pressure va	s. Time	Tempereture (deg F)	(Min.) 0 5 25 49 50 65	Pressure (psia) 1608.09 40.01 65.31 560.58 41.50 42.98	Temp (deg F) 97.47 97.18 97.14 97.52 97.33 97.69 98.67	Annotatio Initial Hydro Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2) Final Hydro	on o-static low (1) n(1) low (2) o-static	o kor GRBF Provinsona Gorrobbe

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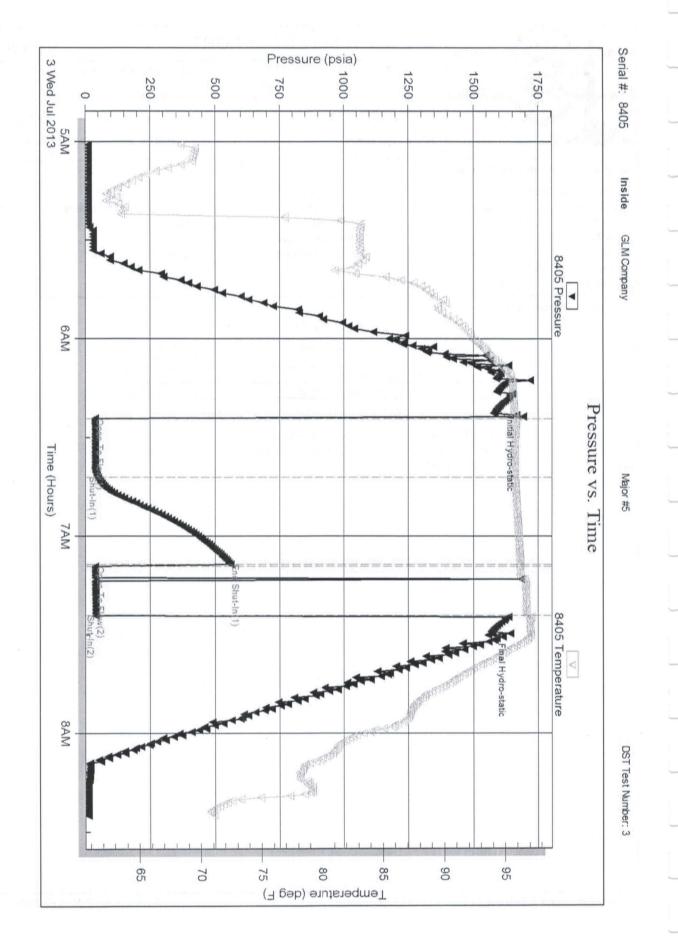
Iteremess Lc         GLM Company         4/15s/12w/Russell           PO Box 193 Russell, Kansas 67665-0193         Major #5           Job Ticket: 18407         DST#:3           ATTN: Jeff Law ler         Test Start: 2013.07.03 (2) 05:00:00           Tool Information         Drill Pipe: Length: 3193.00 ft         Dameter: 0.00 inches Volume: 0.00 bbl         Tool Weight: 2000.00 b           Drill Pipe: Length: 0.00 ft         Dameter: 0.00 inches Volume: 0.00 bbl         Weight set on Packer: 20000.00 b         Weight set on Packer: 20000.00 b           Drill Pipe Above KB: 24.00 ft         Donothes Volume: 0.00 bbl         Tool Keight to Pall Lose: 45000.00 b         Tool Length: 184.07         DST#: 3           Depth to Datom Packer: 3190.00 ft         Dameter: 0.00 inches Volume: 0.00 bbl         Weight to Pall Lose: 45000.00 b         Tool Comments           Tool Length: 61         Barneter: 6.75 inches         Tool Comments:         Tool Comments:         Statistical Volume: 6.75 inches           Tool Comments:         1.00         3170.00         Statistical Volume: 0.00         Packer           Packer         5.00         3180.00         Packer         Packer           Packer         5.00         3180.00         Packer           Packer         5.00         3180.00         Packer           Packer         5.00 <td< th=""><th>RERIO</th><th></th><th>DRI</th><th>LL STE</th><th>MTEST</th><th>REPO</th><th>RT</th><th></th><th>TOOL D</th><th>IAGRA</th></td<>	RERIO		DRI	LL STE	MTEST	REPO	RT		TOOL D	IAGRA
Russell, Kansas 67665-0193         Job Ticket: 18407         DST#: 3           ATTN:         Jeff Law ler         Test Start: 2013.07.03 @ 05:00:00           Tool Information          Test Start: 2013.07.03 @ 05:00:00           Drill Pipe:         Length: 3193.00 ft         Diameter:         3.80 inches Volume:         44.79 bbl           Heavy Wt. Pipe:         Length:         0.00 ft         Diameter:         0.00 inches Volume:         0.00 bbl         Weight set on Packer:         2000.00 b           Drill Pipe Above KB:         24.00 ft         Total Volume:         44.79 bbl         Tool Chased         0.00 it           Depth to Top Packer:         3190.00 ft         Total Volume:         44.79 bbl         Tool Chased         0.00 it           Interval betw een Packer:         28.00 ft         Total Volume:         44.79 bbl         Tool Chased         0.00 it           Number of Packer:         1         100         String Weight: Initial 38000.00 ib         Final 38000.00 ib           Shut-h Tool         5.00         3175.00         3175.00         Stuth Tool         5.00         3180.00           Packer         5.00         3180.00         3130.0         Packer         5.00         Stuth Tool         Stuth Tool         Stuth Tool         Stuth Tool         S	ENTERPRISES LLC	;	GLM Co	ompany			4/15s/12w	/Russell		
Job licke:         18407         DST#:3           ATTN:         Jeff Law ler         Test Start:         2013.07.03 @ 05:00:00           Tool Information         Drill Pipe:         Length:         3193.00 ft         Diameter:         3.80 inches Volume:         44.79 bbl         Tool Weight:         2000.00 ib           Drill Pipe:         Length:         0.00 ft         Diameter:         0.00 inches Volume:         0.00 bbl         Weight set on Packer:         2000.00 ib           Drill Pipe:         Length:         0.00 ft         Diameter:         0.00 inches Volume:         0.00 bbl         Weight for Packer:         2000.00 ib           Drill Pipe Above KB:         24.00 ft         Total Volume:         44.79 bbl         Tool Chased         0.00 ft           Depth to Bottom Packer:         3190.00 ft         Total Volume:         44.79 bbl         Tool Chased         0.00 ft           Depth to Bottom Packer:         ft         Interval between Packers:         28.00 ft         String Weight: Initial 38000.00 lb           Number of Packers:         2         Diameter:         6.75 inches         String Weight: Initial 38000.00 lb           Shut-In Tool         5.00         3170.00         3175.00         Packer         5.00         3180.00           Packer         5.00			PO Box	193			Major #5			
Tool Information         Tool Normation           Drill Ppe:         Length:         3193.00 ft         Diameter:         3.80 inches Volume:         44.79 bbl         Tool Weight set on Packer: 2000.00 lb           Pill Collar:         Length:         0.00 ft         Diameter:         0.00 inches Volume:         0.00 bbl         Weight set on Packer: 2000.00 lb           Drill Ppe:         Length:         0.00 ft         Diameter:         0.00 inches Volume:         0.00 bbl         Weight set on Packer: 2000.00 lb           Drill Ppe Above KB:         24.00 ft         Diameter:         0.00 inches Volume:         44.79 bbl         Tool Chased         0.00 ft           Depth to Top Packer:         3190.00 ft         Total Volume:         44.79 bbl         Tool Chased         0.00 ft           Depth to Bottom Packer:         ft         It         Total Volume:         44.79 bbl         String Weight: Initial         38000.00 lb           Number of Packers:         2         Diameter:         6.75 inches         String Weight: Packer         String Weight: Packer           Tool Comments:         1.00         3170.00         3170.00         Sture         Packer         Stool         21.00         Bottom Of Top Packer           Packer         5.00         3180.00         21.00         Bottom Of			Russell	, Kansas 676	65-0193		Job Ticket: 1	8407	DST#:3	
Drill Rpe:         Length:         3193.00 ft         Diameter:         3.80 inches Volume:         44.79 bbl         Tool Weight:         2000.00 lb           Heavy Wt. Ppe:         Length:         0.00 ft         Dameter:         0.00 inches Volume:         0.00 bbl         Weight set on Packer:         2000.00 lb           Drill Collar:         Length:         0.00 ft         Dameter:         0.00 inches Volume:         0.00 bbl         Weight set on Packer:         2000.00 lb           Drill Rpe Above KB:         24.00 ft         Total Volume:         44.79 bbl         Tool Chased         0.00 ft           Depth to Top Packer:         3190.00 ft         Total Volume:         44.79 bbl         Tool Chased         0.00 ft           Depth to Bottom Packer:         ft         Total Volume:         44.79 bbl         Tool Chased         0.00 ft           Depth to Bottom Packer:         ft         thterval betw een Packers:         2         Dameter:         6.75 inches         Final         38000.00 lb           Tool Comments:         1.00         3170.00         3170.00         3175.00         Hydroic Tool         5.00         3180.00         Packer         5.00         3180.00         Packer         5.00         3180.00         Packer         5.00         3188.00         21.00 <th></th> <th></th> <th>ATTN:</th> <th>Jeff Law ler</th> <th></th> <th></th> <th>Test Start: 2</th> <th>2013.07.03 @ 0</th> <th>05:00:00</th> <th></th>			ATTN:	Jeff Law ler			Test Start: 2	2013.07.03 @ 0	05:00:00	
Heavy Wt. Pipe:       Length:       0.00 ft       Diameter:       0.00 inches Volume:       0.00 bbl       Weight set on Packer:       20000.00 lb         Drill Collar:       Length:       0.00 ft       Diameter:       0.00 inches Volume:       0.00 bbl       Weight set on Packer:       20000.00 lb         Drill Rpe Above KB:       24.00 ft       Total Volume:       44.79 bbl       Weight set on Packer:       45000.00 lb         Depth to Top Packer:       3190.00 ft       Total Volume:       44.79 bbl       Tool Chased       0.00 ft         Depth to Bottom Packer:       ft       Total Volume:       44.79 bbl       Tool Chased       0.00 lb         Number of Packers:       28.00 ft       Total Volume:       44.79 bbl       String Weight: hitial       38000.00 lb         Number of Packers:       2       Diameter:       6.75 inches       Final       38000.00 lb         Tool Comments:       1.00       3170.00       3175.00       Packer       Packer       5.00       3180.00         Packer       5.00       3180.00       3180.00       Packer       Packer       5.00       String Weight: hital       <	Tool Information							10.00	03422-0111	
Drill Collar:Length:0.00 ftDiameter:0.00 inches Volume:0.00 bblWeight to Pull Loose:45000.00 lbDrill Rpe Above KB:24.00 ftTotal Volume:44.79 bblWeight to Pull Loose:45000.00 lbDepth to Top Packer:3190.00 ftTotal Volume:44.79 bblString Weight:IntitalDepth to Bottom Packer:190.00 ftFinal38000.00 lbFinalDepth to Bottom Packer:2Diameter:6.75 inchesFinalTool DescriptionLength (ft)Serial No.PositionDepth (ft)Accum. LengthsTool Comments:1.003170.003175.00FinalString Weight:Change Over Sub1.003175.003185.0021.00Bottom Of Top PackerPacker5.003185.0021.00Bottom Of Top PackerPackerFor Corol5.003190.00String Weight:FinalString Weight:Packer5.003185.0021.00Bottom Of Top PackerPacker5.003190.00String Weight:String Weight:Packer5.003185.0021.00Bottom Of Top PackerPacker5.003190.00String Weight:String Weight:Packer5.003185.0021.00Bottom Of Top PackerPacker5.003213.00String Weight:String Weight:Recorder1.008400Outside3215.00String Weight:Bullnose3.003218.0028.00Bottom Packers & A	Drill Pipe: Length:	3193.00 ft	Diameter:	3.80 in	ches Volume:	44.79 bb	Tool Weig	ght:	2000.00 lb	
Total Volume:44.79 bblTool Chased0.00 ftDepth to Top Packer:3190.00 ftString Weight:Initial38000.00 lbDepth to Bottom Packers:28.00 ftFinal38000.00 lbFinalTool Length:49.00 ft49.00 ftFinal38000.00 lbNumber of Packers:2Dameter:6.75 inchesTool Comments:2Dameter:6.75 inchesTool Comments:Depth (ft)Serial No.PositionDepth (ft)Accum. LengthsChange Over Sub1.003170.00Shut-In Tool5.003175.00Hydroic Tool5.003180.00Packer5.003180.00Packer5.003180.00Packer5.003190.00Packer5.003190.00Recorder1.008405Inside3214.00Recorder1.008400Sullnose3.0028.00Bullnose3.00	Heavy Wt. Pipe: Length:	0.00 ft	Diameter:	0.00 in	ches Volume:	0.00 bb	Weight s	et on Packer: 2	20000.00 lb	
Drill Pipe Above KB:         24.00 ft         String Weight: Initial 38000.00 lb           Depth to Top Packer:         3190.00 ft         Final 38000.00 lb           Depth to Bottom Packer::         ft         Final 38000.00 lb           Depth to Bottom Packer::         28.00 ft         String Weight: Initial 38000.00 lb           Tool Length:         49.00 ft         Hometer:         6.75 inches           Tool Comments:         2         Diameter:         6.75 inches           Tool Comments:         1.00         3170.00           Shut-In Tool         5.00         3175.00           Packer         5.00         3185.00           Packer         5.00         3185.00           Packer         5.00         3190.00           Packer         5.00         3190.00           Packer         5.00         3185.00           Packer         5.00         3190.00           Packer         5.00         3190.00           Packer         5.00         3190.00           Packer         5.00         3190.00           Packer         5.00         3213.00           Recorder         1.00         8405         Inside         3214.00           Recorder <td< td=""><td>Orill Collar: Length:</td><td>0.00 ft</td><td>Diameter:</td><td>0.00 in</td><td>ches Volume:</td><td>0.00 bb</td><td>Weight to</td><td>Pull Loose: 4</td><td>45000.00 lb</td><td></td></td<>	Orill Collar: Length:	0.00 ft	Diameter:	0.00 in	ches Volume:	0.00 bb	Weight to	Pull Loose: 4	45000.00 lb	
Depth to Top Packer:3190.00 ftFinal38000.00 lbDepth to Bottom Packer:ftDepth to Bottom Packers:28.00 ftTool Length:49.00 ftNumber of Packers:2Diameter:6.75 inchesTool Comments:Tool Comments:Tool DescriptionLength (ft)Serial No.PositionDepth (ft)Accum. LengthsChange Over Sub1.003170.00Shut-In Tool5.003175.00Shut-In Tool5.003185.0021.00Packer5.003185.0021.00Packer5.003190.00Packer1.008405InsideBalknos21.008405InsideBalknos3.003213.00Recorder1.008400OutsideBullnose3.003218.0028.00Bullnose3.003218.0028.00Bullnose3.003218.003218.00	Drill Pipe Above KR:	24 00 ft			Total Volume:	44.79 bb			0.00 ft	
Depth to Bottom Packer:ftInterval betw een Packers:28.00 ftTool Length:49.00 ftNumber of Packers:22Diameter:6.75 inchesTool Comments:2Tool DescriptionLength (ft) Serial No.PositionDepth (ft)Accum. LengthsChange Over Sub1.003170.003175.00Shut-In Tool5.00Shut-In Tool5.00Shut-In Tool5.00Packer5.00Packer5.00Stater5.00Stater3190.00Packer5.00Stater3.00Ballnose3.00States3218.00States3.00 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>String We</td><td>-</td><td></td><td></td></td<>							String We	-		
nterval between Packers: 28.00 ft Tool Length: 49.00 ft Number of Packers: 2 Diameter: 6.75 inches Tool Comments: Tool Description Length (ft) Serial No. Position Depth (ft) Accum. Lengths Change Over Sub 1.00 3170.00 Shut-In Tool 5.00 3175.00 Hydroic Tool 5.00 3185.00 21.00 Bottom Of Top Pack Packer 5.00 3185.00 21.00 Bottom Of Top Pack Packer 5.00 3190.00 Perforations 23.00 3190.00 Perforations 23.00 3213.00 Recorder 1.00 8405 Inside 3214.00 Recorder 1.00 8400 Outside 3215.00 Bullnose 3.00 28.00 Bottom Packers & Anch								Final	38000.00 lb	
Tool Length:49.00 ftNumber of Packers:2Diameter:6.75 inchesTool Comments:Tool DescriptionLength (ft)Serial No.PositionDepth (ft)Accum. LengthsChange Over Sub1.003170.00Shut-In Tool5.003175.00Hydroic Tool5.003185.0021.00Bottom Of Top PackerPacker5.003190.00Perforations23.003213.00Recorder1.008405InsideRecorder1.008400Outside3215.0028.00Bottom Packers & AncherBullnose3.003218.0028.00Bottom Packers & Ancher										
Tool Comments:         Length (ft)         Serial No.         Position         Depth (ft)         Accum. Lengths           Change Over Sub         1.00         3170.00         3175.00										
Tool Description         Length (ft)         Serial No.         Position         Depth (ft)         Accum. Lengths           Change Over Sub         1.00         3170.00         3175.00	Number of Packers:	2	Diameter:	6.75 in	ches					
Change Over Sub         1.00         3170.00           Shut-In Tool         5.00         3175.00           Hydroic Tool         5.00         3180.00           Packer         5.00         3185.00         21.00           Packer         5.00         3190.00           Packer         5.00         3213.00           Perforations         23.00         3213.00           Recorder         1.00         8405         Inside           Bullnose         3.00         28.00         Bottom Packers & Ancher	Tool Comments:				,					
Change Over Sub         1.00         3170.00           Shut-In Tool         5.00         3175.00           Hydroic Tool         5.00         3180.00           Packer         5.00         3185.00         21.00           Packer         5.00         3190.00           Packer         5.00         3213.00           Perforations         23.00         3214.00           Recorder         1.00         8400         Outside           Bullnose         3.00         28.00         Bottom Packers & Ancher										
Change Over Sub         1.00         3170.00           Shut-In Tool         5.00         3175.00           Hydroic Tool         5.00         3180.00           Packer         5.00         3185.00         21.00           Packer         5.00         3190.00           Packer         5.00         3213.00           Perforations         23.00         3214.00           Recorder         1.00         8400         Outside           Bullnose         3.00         28.00         Bottom Packers & Ancher										
Change Over Sub       1.00       3170.00         Shut-In Tool       5.00       3175.00         Hydroic Tool       5.00       3180.00         Packer       5.00       3185.00       21.00         Packer       5.00       3190.00         Packer       5.00       3213.00         Perforations       23.00       3213.00         Recorder       1.00       8405       Inside       3214.00         Bullnose       3.00       28.00       Bottom Packers & Ancher	Tool Description	Le	ngth (ft)	Serial No.	Position	Depth (ft)	Accum. Length	S		
Hydroic Tool       5.00       3180.00         Packer       5.00       3185.00       21.00       Bottom Of Top Pack         Packer       5.00       3190.00       21.00       Bottom Of Top Pack         Packer       5.00       3213.00       21.00       Bottom Of Top Pack         Perforations       23.00       3213.00       21.00       Bottom Of Top Pack         Recorder       1.00       8405       Inside       3214.00       28.00       Bottom Packers & Anch         Bullnose       3.00       28.00       Bottom Packers & Anch       3218.00       28.00       Bottom Packers & Anch						,		-		
Hydroic Tool       5.00       3180.00         Packer       5.00       3185.00       21.00       Bottom Of Top Pack         Packer       5.00       3190.00       21.00       Bottom Of Top Pack         Packer       5.00       3213.00       21.00       Bottom Of Top Pack         Perforations       23.00       3213.00       21.00       Bottom Of Top Pack         Recorder       1.00       8405       Inside       3214.00       28.00       Bottom Packers & Anch         Bullnose       3.00       28.00       Bottom Packers & Anch       3218.00       28.00       Bottom Packers & Anch	Shut-In Tool		5.00			3175.00				
Packer         5.00         3185.00         21.00         Bottom Of Top Pack           Packer         5.00         3190.00         3213.00         921.00         92										
Perforations         23.00         3213.00           Recorder         1.00         8405         Inside         3214.00           Recorder         1.00         8400         Outside         3215.00           Bullnose         3.00         3218.00         28.00         Bottom Packers & Ancher	,						21.00	La seconda	Bottom Of To	p Packe
Recorder         1.00         8405         Inside         3214.00           Recorder         1.00         8400         Outside         3215.00           Bullnose         3.00         3218.00         28.00         Bottom Packers & Ancher	Packer		5.00			3190.00				
Recorder1.008400Outside3215.00Bullnose3.003218.0028.00Bottom Packers & Ancher	Perforations		23.00			3213.00				
Bullnose 3.00 3218.00 28.00 Bottom Packers & Anche	Recorder		1.00	8405	Inside	3214.00				
	Recorder		1.00	8400	Outside	3215.00				
Total Tool Length: 49.00	Bullnose		3.00			3218.00	28.00	Botto	om Packers &	Ancho
	Total Too	Length:	49.00							
		1.1								

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ENTERP	RISES LLC	GLMC	Company	4/15s/12w/Russell	
-	TER?	PO Bo		Major #5	
		Russe	ll, Kansas 67665-0193	Job Ticket: 18407	DST#:3
	<b>}_</b>	ATTN:	Jeff Law ler	Test Start: 2013.07.03 @	@ 05:00:00
ud and Cush	ion Information	-		e.	
ud Type: Gel C			Cushion Type:	Oil API:	deg AP
ud Weight: iscosity:	9.00 lb/gal 54.00 sec/qt		Cushion Length: Cushion Volume:	ft Water Salin bbl	lity: ppm
ater Loss:	8.80 in <sup>3</sup>		Gas Cushion Type:	DDI	
esistivity:	ohm.m		Gas Cushion Pressure:	psia	
alinity: ter Cake:	5000.00 ppm inches				
ecovery Infor	rmation		and the second		
			Recovery Table		
	Len	t	Description	Volume bbl	
	and the second sec	0.00	62 foot. gas	0.000	
	Total Length:	2.00	100% mud spot of oil. 2.00 ft Total Volume: 0.028 t	0.028	
	Num Fluid San Laboratory Na	ame:	Num Gas Bombs: 0 Laboratory Location:	Serial #:	
n.T. av aruses		ame:		Serial #:	
setti av aruser	Laboratory Na	ame:		Serial #:	
astri av aruser	Laboratory Na	ame:		Serial #:	
out autor	Laboratory Na	ame:		Serial #:	
cond. Av anteen	Laboratory Na	ame:		Serial #:	
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Cashing V. Street	Laboratory Na	ame:		Serial #:	
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Cashing A. Million	Laboratory Na	ame:		Serial #:	
A BUIRE OF A	Laboratory Na	ame:		Serial #:	
anticity of the	Laboratory Na	ame:		Serial #:	

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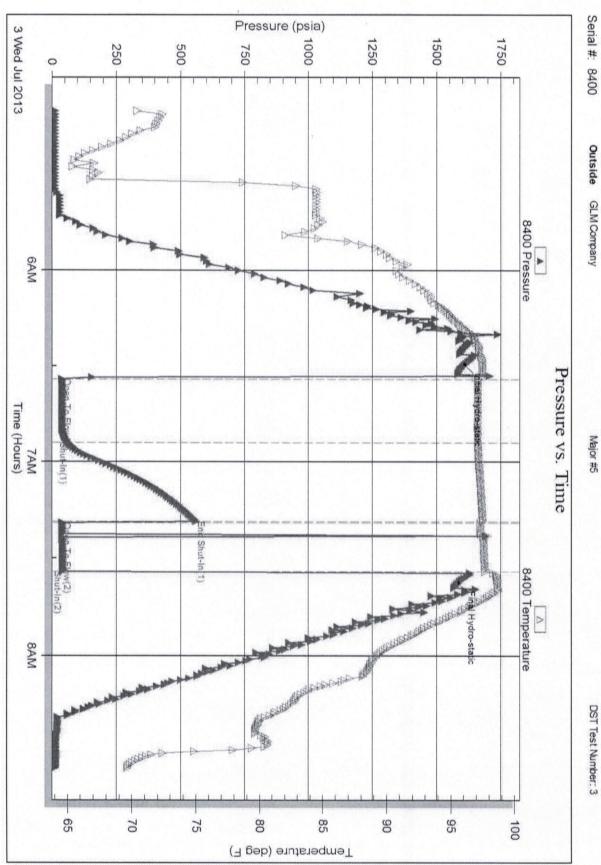


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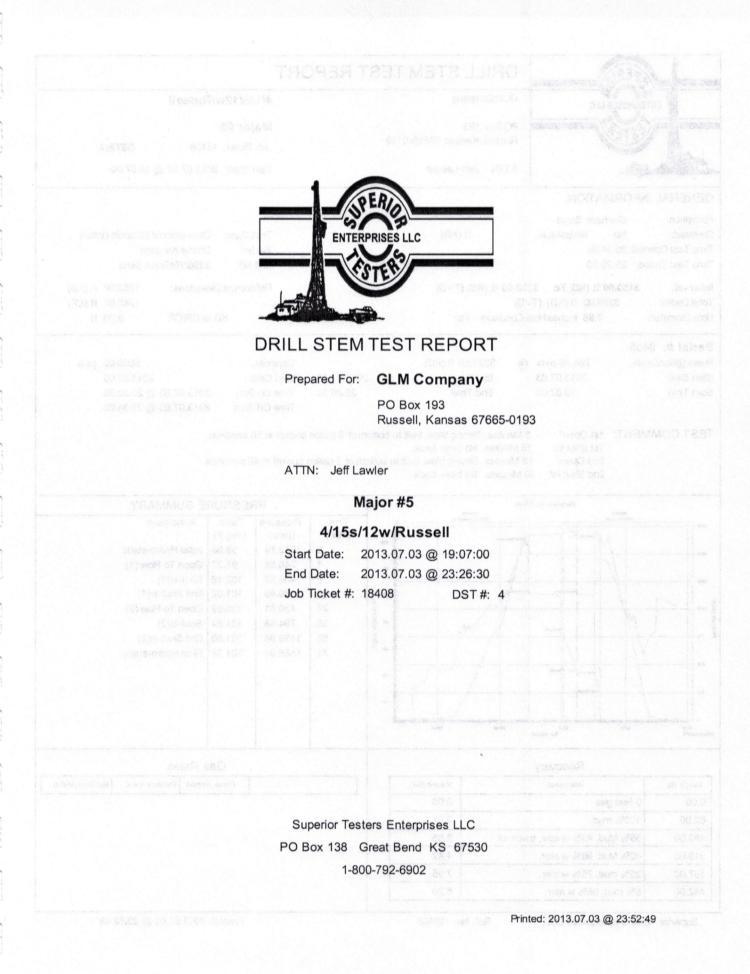
Superior Testers Enterprises LLC Ref. No: 18407

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	DRIL	L STEM TES	ST REPO	ORT				
	GLM Com	pany		4/1	5s/12w/I	Russell		
	PO Box 1 Russell, k	93 Kansas 67665-0193			<b>jor #5</b> Ticket: 18	3408	DST#:4	ı
	ATTN: J	eff Law ler		Test	Start: 20	13.07.03 @	0 19:07:00	
GENERAL	INFORMATION:		9					
Formation:	Gorham Sand							
	No Whipstock: ened: 20:24:30 led: 23:26:30	ft (KB)		Test Test Unit	ter:	Convention Shane Konz 3330/70/Gr		nitial)
I <b>nterval:</b> Total Depth: Hole Diameter	<b>3150.00 ft (KB) To 3230.00 ft (KB</b> 3256.00 ft (KB) (TVD) 7.88 inches Hole Condition:			Refe	erence Be		1753.00 1745.00	ft (CF)
nole Diameter	7.88 Inches Hole Condition:	Fair		A Constanting	KBt	o GR/CF:	8.00	τι
Press@RunD Start Date: Start Time:	2013.07.03 End 19:07:00 End	7.50 ft (KB) Date: Time: trong blow built to bot	2013.07.03 23:26:30	Capacity: Last Calit Time On I Time Off	o.: Btm: 2 Btm: 2	2013.07.03	5000.00 2013.07.03 @ 20:23:30 @ 21:34:00	psia
	1st Shut In/ 15 Minutes.	No blow back.						
	2nd Shut In/ 30 Minutes. N	Strong blow built to bo No blow back.	ttom of 5 gallor					
279			Time (Min.) 0 1 6 23 24 38		RESSUR Temp (deg F) 96.88 97.27 102.16 101.02 100.89 101.84 101.50	RE SUMM Annotati Initial Hydr Open To F Shut-In(1) End Shut-	on ro-static Flow (1) In(1) Flow (2) In(2)	
9533	2nd Shut In/ 30 Minutes. N	Vo blow back.	Time (Min.) 0 1 6 23 24 38 69	Pressure (psia) 1612.74 245.58 406.62 1136.48 430.31 794.48 1138.86	RESSUR Temp (deg F) 96.88 97.27 102.16 101.02 100.89 101.84 101.50 101.38	E SUMM Annotati Open To F Shut-In(1) End Shut- Open To F Shut-In(2) End Shut-	on ro-static Flow (1) In(1) Flow (2) In(2)	
253 773 900 255 774	2nd Shut In/ 30 Minutes. N	Vo blow back.	Time (Min.) 0 1 6 23 24 38 69	Pressure (psia) 1612.74 245.58 406.62 1136.48 430.31 794.48 1138.86	RESSUR Temp (deg F) 96.88 97.27 102.16 101.02 100.89 101.84 101.50 101.38	RE SUMM Annotati Open To F Shut-In(1) End Shut- Open To F Shut-In(2) End Shut- Final Hydr	on ro-static Flow (1) In(1) Flow (2) In(2) ro-static	as Rate (Mcf/d)
223 729 729 729 729 729 729 729 729 729 729	2nd Shut In/ 30 Minutes. N	Vo blow back.	Time (Min.) 0 1 6 23 24 38 69	Pressure (psia) 1612.74 245.58 406.62 1136.48 430.31 794.48 1138.86	RESSUR Temp (deg F) 96.88 97.27 102.16 101.02 100.89 101.84 101.50 101.38	RE SUMM Annotati Open To F Shut-In(1) End Shut- Open To F Shut-In(2) End Shut- Final Hydr	on ro-static Flow (1) In(1) Flow (2) In(2) ro-static	as Rate (Mct/d)
239	2nd Shut In/ 30 Minutes. N	Volume (bbl) Volume (bbl)	Time (Min.) 0 1 6 23 24 38 69	Pressure (psia) 1612.74 245.58 406.62 1136.48 430.31 794.48 1138.86	RESSUR Temp (deg F) 96.88 97.27 102.16 101.02 100.89 101.84 101.50 101.38	RE SUMM Annotati Open To F Shut-In(1) End Shut- Open To F Shut-In(2) End Shut- Final Hydr	on ro-static Flow (1) In(1) Flow (2) In(2) ro-static	as Rate (Mcf/d
200	2nd Shut In/ 30 Minutes. N	Volume (bbl) 0.00 0.87	Time (Min.) 0 1 6 23 24 38 69	Pressure (psia) 1612.74 245.58 406.62 1136.48 430.31 794.48 1138.86	RESSUR Temp (deg F) 96.88 97.27 102.16 101.02 100.89 101.84 101.50 101.38	RE SUMM Annotati Open To F Shut-In(1) End Shut- Open To F Shut-In(2) End Shut- Final Hydr	on ro-static Flow (1) In(1) Flow (2) In(2) ro-static	as Rate (Mcf/d
233 233 233 233 233 233 234 235 235 235 235 235 235 235 235	2nd Shut In/ 30 Minutes. N Pressure vs. Time Pressure vs. Time Pres	Volume (bbl) 0.00 0.87 2.65	Time (Min.) 0 1 6 23 24 38 69	Pressure (psia) 1612.74 245.58 406.62 1136.48 430.31 794.48 1138.86	RESSUR Temp (deg F) 96.88 97.27 102.16 101.02 100.89 101.84 101.50 101.38	RE SUMM Annotati Open To F Shut-In(1) End Shut- Open To F Shut-In(2) End Shut- Final Hydr	on ro-static Flow (1) In(1) Flow (2) In(2) ro-static	as Rate (Mcf/d
259 778 259 259 259 259 259 259 259 259	2nd Shut In/ 30 Minutes. N Pressure vs. Time Pressure vs. Time Pres	Volume (bbl) 0.00 0.87 2.65 4.42	Time (Min.) 0 1 6 23 24 38 69	Pressure (psia) 1612.74 245.58 406.62 1136.48 430.31 794.48 1138.86	RESSUR Temp (deg F) 96.88 97.27 102.16 101.02 100.89 101.84 101.50 101.38	RE SUMM Annotati Open To F Shut-In(1) End Shut- Open To F Shut-In(2) End Shut- Final Hydr	on ro-static Flow (1) In(1) Flow (2) In(2) ro-static	as Rate (Mcf/d
500 500 500 500 500 500 500 500	2nd Shut In/ 30 Minutes. N Pressure vs. Time Pressure vs. Time Pres	Volume (bbl) 0.00 0.87 2.65	Time (Min.) 0 1 6 23 24 38 69	Pressure (psia) 1612.74 245.58 406.62 1136.48 430.31 794.48 1138.86	RESSUR Temp (deg F) 96.88 97.27 102.16 101.02 100.89 101.84 101.50 101.38	RE SUMM Annotati Open To F Shut-In(1) End Shut- Open To F Shut-In(2) End Shut- Final Hydr	on ro-static Flow (1) In(1) Flow (2) In(2) ro-static	as Rate (Mcf/d

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	GLM Comp	any		4/11	5s/12w/Ru		NATIONAL CONTRACTOR
EN	ITERPRISES LLC	Jany				ussen	
	PO Box 19	3 ansas 67665-0193		and the second	jor #5		
	Russell, Ka	ansas 67665-0195		Job	Ticket: 1840	08	DST#:4
T	ATTN: Je	ff Law ler		Test	Start: 2013	3.07.03 @ 19:	07:00
ENERAL	INFORMATION:					MOTAM:	MERAL MECO
me Tool Ope	Gorham Sand No Whipstock: 1 ened: 20:24:30 ded: 23:26:30	ft (KB)		Test	Type: Co ter: Sh	nane Konzem	addle (Initial) end
	<b>3150.00 ft (KB) To 3230.00 ft (KB)</b> 3256.00 ft (KB) (TVD) r: 7.88 inches Hole Condition:				erence Eleva KB to	5-11-00-001 <b>1</b>	753.00 ft (KB) 745.00 ft (CF) 8.00 ft
erial #: { ess@RunD art Date: art Time: EST COM	Xepth: psia @ 3256. 2013.07.03 End D 18:44:00 End T	Time: rong blow built to bot	2013.07.03 23:16:00 ttom of 5 gallor	Last Calit Time On I Time Off	Btm: Btm:	2013	5000.00 psia 3.07.03
	1st Shut In/ 15 Minutes. N 2nd Open/ 15 Minutes. St 2nd Shut In/ 30 Minutes. N	trong blow built to bo		n bucket in 4			
	2nd Open/ 15 Minutes. St 2nd Shut In/ 30 Minutes. N Pressure vs. Time	trong blow built to be o blow back.		add od 120	1184 DE - 1	E SUMMAR'	Y
	2nd Open/ 15 Minutes. St 2nd Shut In/ 30 Minutes. No Pressure vs. Time Pressure vs. Time	trong blow built to be		add od 120	1184 DE - 1	and Shak	Υ
778	2nd Open/ 2nd Shut In/ 30 Minutes. No Pressure vs. Time	trong blow built to be	Time (Min.)	Pressure	RESSURE Temp (deg F)	E SUMMAR' Annotation	Υ
779	2nd Open/ 15 Minutes. St 2nd Shut In/ 30 Minutes. N	trong blow built to be	Time (Min.)	PF Pressure (psia)	RESSURE Temp (deg F)	E SUMMAR' Annotation	
78	2nd Open/ 15 Minutes. St 2nd Shut In/ 30 Minutes. N Pressure vs. Time Pressure vs. Time	trong blow built to be to blow back.	Time (Min.)	PF Pressure (psia)	RESSURE Temp (deg F)	E SUMMAR' Annotation	
779	2nd Open/ 15 Minutes. St 2nd Shut In/ 30 Minutes. N Pressure vs. Time Pressure vs. Time	Volume (bbl)	Time (Min.)	PF Pressure (psia)	RESSURE Temp (deg F)	E SUMMAR' Annotation	sia) Gas Rate (Mcf/d
779 259 259 259 259 259 259 259 25	2nd Open/ 15 Minutes. St 2nd Shut In/ 30 Minutes. N Pressure vs. Time Pressure vs. Time	Volume (bbl)	Time (Min.)	Pressure (psia)	RESSURE Temp (deg F)	E SUMMAR' Annotation	
778 778 778 778 778 778 778 778	2nd Open/ 15 Minutes. St 2nd Shut In/ 30 Minutes. No Pressure vs. Time Pressure vs. Time	Volume (bbl) 0.00 0.87	Time (Min.)	Pressure (psia)	RESSURE Temp (deg F) Gas Choke (inc	E SUMMAR' Annotation	sia) Gas Rate (Mcf/d
	2nd Open/ 15 Minutes. St 2nd Shut In/ 30 Minutes. N Pressure vs. Time Pressure vs. Time	Volume (bbl) 0.00 0.87 2.65	Time (Min.)	Pressure (psia)	RESSURE Temp (deg F) Gas Choke (inc	E SUMMAR' Annotation	sia) Gas Rate (Mcf/d

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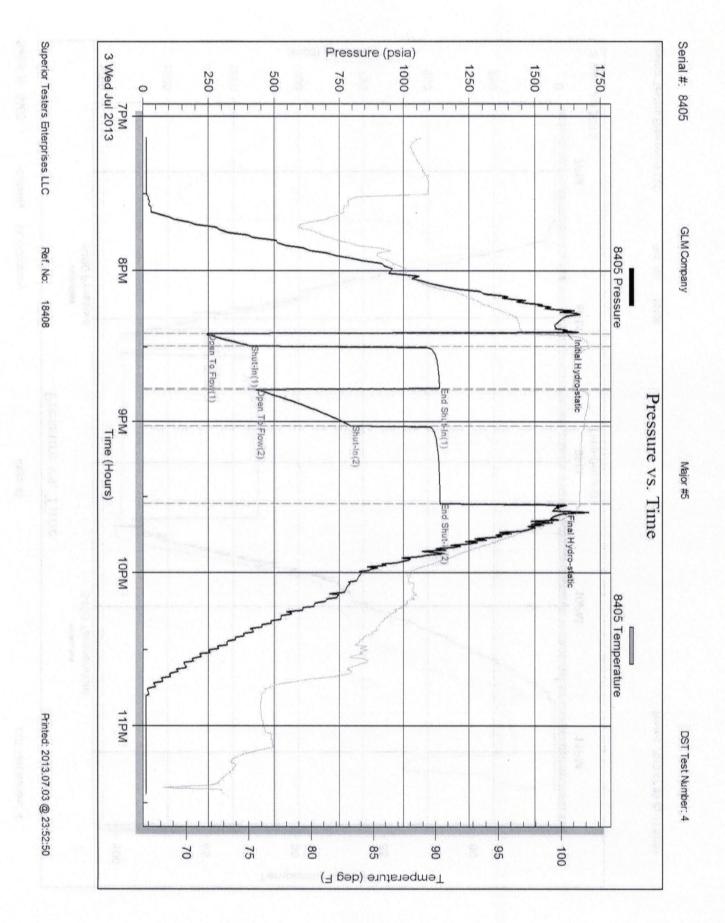
1	DRI	LL STEM TES	T REP	ORT			1.68		
E	NTERPRISES LLC	ompany		4/1	5s/12w/	Russel			
	PO Box	: 193 , Kansas 67665-0193			<b>jor #5</b> Ticket: 18	3408	DST	<i>t</i> :4	
TRA	ATTN:	Jeff Law ler					3 @ 19:07:00		
GENERAL	. INFORMATION:		2				- Steel Cit		0.17
	Gorham Sand No Whipstock: bened: 20:24:30 ded: 23:26:30	ft (KB)		Tes Tes Unit	ter:	Shane Ke	onal Straddle onzem Great Bend	(Initial)	
Interval: Total Depth: Hole Diameter	<b>3150.00 ft (KB) To 3230.00 ft (</b> 3256.00 ft (KB) (TVD) ar: 7.88 inches Hole Condition			Refe	erence Ee KB t	evations: o GR/CF	1745.0	00 ft (KB) 00 ft (CF) 00 ft	
Serial #: ( Press@RunD Start Date: Start Time: TEST COM	Depth: 1141.89 psia @ 32 2013.07.03 Er 19:07:00 Er	28.50 ft (KB) nd Date: nd Time: Strong blow built to botto	2013.07.03 23:25:00 om of 5 gallon	Capacity Last Calit Time On Time Off bucket in 50	o.: Btm: 2 Btm: 2	2013.07.	5000.0 2013.07.0 03 @ 20:22:3 03 @ 21:33:3	30	
		. No blow back.			_				
	2nd Shut In/ 30 Minutes Pressure vs. Time	. Strong blow built to bott No blow back.			26 Ja	54 A.A.	IMARY		
1779 279 279 279 279 279 279 279	2nd Shut In/ 30 Minutes.	Strong blow built to both	Time (Min.) 0 1 6 23 24 38 69 71		RESSUF Temp (deg F) 94.84 94.60 101.05 101.05 101.05 100.77 102.22	E SUM Annot Initial H Open T Shut-In End Shu Open T Shut-In End Shu	ation /dro-static o Flow (1) (1) ut-In(1) o Flow (2) (2)		
709	2nd Shut In/ 30 Minutes.	Wo blow back.	Time (Min.) 0 1 6 23 24 38 69	Pressure (psia) 1613.52 244.33 402.57 1135.10 432.60 791.96 1141.89	RESSUF Temp (deg F) 94.84 94.60 101.05 101.05 100.77 102.22 102.56 102.67	E SUM Annot Initial H Open T Shut-In End Shu Open T Shut-In End Shu	ation /dro-static o Flow (1) (1) ut-In(1) o Flow (2) (2) ut-In(2) /dro-static		
	2nd Shut In/ 30 Minutes.	Wo blow back.	Time (Min.) 0 1 6 23 24 38 69	Pressure (psia) 1613.52 244.33 402.57 1135.10 432.60 791.96 1141.89	RESSUF Temp (deg F) 94.84 94.60 101.05 101.05 100.77 102.22 102.56 102.67	E SUM Annol Initial H Open T Shut-In End Shi Final Hy Final Hy	ation /dro-static o Flow (1) (1) ut-In(1) o Flow (2) (2) ut-In(2) /dro-static	Gas Rate (Mcf/	(d)
9 700 700 700 700 700 700 700 700	2nd Shut In/ 30 Minutes.	Wo blow back.	Time (Min.) 0 1 6 23 24 38 69	Pressure (psia) 1613.52 244.33 402.57 1135.10 432.60 791.96 1141.89	RESSUF Temp (deg F) 94.84 94.60 101.05 101.05 100.77 102.22 102.56 102.67	E SUM Annol Initial H Open T Shut-In End Shi Final Hy Final Hy	ation /dro-static o Flow (1) (1) ut-ln(1) o Flow (2) (2) (2) ut-ln(2) /dro-static	Gas Rate (Mcfr	(d)
709 509 200 714 300 714 Wed JJ 2943 Leng th (ft)	2nd Shut In/ 30 Minutes.	No blow back.	Time (Min.) 0 1 6 23 24 38 69	Pressure (psia) 1613.52 244.33 402.57 1135.10 432.60 791.96 1141.89	RESSUF Temp (deg F) 94.84 94.60 101.05 101.05 100.77 102.22 102.56 102.67	E SUM Annol Initial H Open T Shut-In End Shi Final Hy Final Hy	ation /dro-static o Flow (1) (1) ut-ln(1) o Flow (2) (2) (2) ut-ln(2) /dro-static	Gas Rate (Mcfr	(d)
789 789 200 789 200 789 789 789 789 789 789 789 789	2nd Shut In/ 30 Minutes.	Wo blow back.           61 Temperature           62 Temperature           63 Temperature           65 Temperature           66 Temperature           78 Temperater <t< td=""><td>Time (Min.) 0 1 6 23 24 38 69</td><td>Pressure (psia) 1613.52 244.33 402.57 1135.10 432.60 791.96 1141.89</td><td>RESSUF Temp (deg F) 94.84 94.60 101.05 101.05 100.77 102.22 102.56 102.67</td><td>E SUM Annol Initial H Open T Shut-In End Shi Final Hy Final Hy</td><td>ation /dro-static o Flow (1) (1) ut-ln(1) o Flow (2) (2) (2) ut-ln(2) /dro-static</td><td>Gas Rate (Mcfr</td><td>(d)</td></t<>	Time (Min.) 0 1 6 23 24 38 69	Pressure (psia) 1613.52 244.33 402.57 1135.10 432.60 791.96 1141.89	RESSUF Temp (deg F) 94.84 94.60 101.05 101.05 100.77 102.22 102.56 102.67	E SUM Annol Initial H Open T Shut-In End Shi Final Hy Final Hy	ation /dro-static o Flow (1) (1) ut-ln(1) o Flow (2) (2) (2) ut-ln(2) /dro-static	Gas Rate (Mcfr	(d)
2000 7000 200 2000 2	2nd Shut In/ 30 Minutes.	Wo blow back.           67 Temperature           68 Temperature           69 Temperature           69 Temperature           69 Temperature           60 Temperature           70 Temperature      <	Time (Min.) 0 1 6 23 24 38 69	Pressure (psia) 1613.52 244.33 402.57 1135.10 432.60 791.96 1141.89	RESSUF Temp (deg F) 94.84 94.60 101.05 101.05 100.77 102.22 102.56 102.67	E SUM Annol Initial H Open T Shut-In End Shi Final Hy Final Hy	ation /dro-static o Flow (1) (1) ut-ln(1) o Flow (2) (2) (2) ut-ln(2) /dro-static	Gas Rate (Mcfr	(d)
200 200 200 200 200 200 200 189.00	2nd Shut In/ 30 Minutes.	Wo blow back.           67 Tempendue           95     <	Time (Min.) 0 1 6 23 24 38 69	Pressure (psia) 1613.52 244.33 402.57 1135.10 432.60 791.96 1141.89	RESSUF Temp (deg F) 94.84 94.60 101.05 101.05 100.77 102.22 102.56 102.67	E SUM Annol Initial H Open T Shut-In End Shi Final Hy Final Hy	ation /dro-static o Flow (1) (1) ut-ln(1) o Flow (2) (2) (2) ut-ln(2) /dro-static	Gas Rate (Mcfr	(b)

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ENTERPRISES LLC	GLM Com	pany	Venera	4/15s/12w/Russell	LI CHARGE PRINT
				Maine #F	
STER	PO Box 19 Russell, K	ansas 67665-0193		Major #5	VAL A
	T DRAFT ORDE			Job Ticket: 18408	DST#:4
	ATTN: Je	eff Law ler		Test Start: 2013.07.03 @	2 19:07:00
Tool Information				naijumol	n) noimeit) has to
Drill Pipe: Length: 3152.00 f	t Diameter:	3.80 inches Volu	ume: 44.21 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe: Length: 0.001	t Diameter:	0.00 inches Volu	ume: 0.00 bbl	Weight set on Packer	: 20000.00 lb
Drill Collar: Length: 0.00 f	t Diameter:	0.00 inches Volu	ume: 0.00 bbl	Weight to Pull Loose:	54000.00 lb
		Total Volu	ume: 44.21 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB: 23.00 f				String Weight: Initial	40000.00 lb
Depth to Top Packer: 3150.00 1 Depth to Bottom Packer: 3229.25 1				Final	47000.00 lb
nterval betw een Packers: 79.25					
Fool Length: 132.25					
Number of Packers: 3	Diameter:	6.75 inches			
Fool Comments:					
Tool Description	enath (ft) S	erial No. Positio	on Depth (ft) Acc	sum Lengths	
	<b>.ength (ft) S</b> 1.00	erial No. Positio	on Depth (ft) Acc 3130.00	cum. Lengths	
Change Over Sub	A REAL PROPERTY AND A REAL	erial No. Positic	Contract of the second second second	cum. Lengths	
Change Over Sub Shut-In Tool	1.00	erial No. Positio	3130.00	cum. Lengths	
Change Over Sub Shut-In Tool Hydroic Tool	1.00 5.00	erial No. Positio	3130.00 3135.00	cum. Lengths	Bottom Of Top Packer
Change Over Sub Shut-In Tool Hydroic Tool Packer	1.00 5.00 5.00	erial No. Positio	3130.00 3135.00 3140.00 3145.00 3150.00	21.00	
Change Over Sub Shut-In Tool Hydroic Tool Packer Packer	1.00 5.00 5.00 5.00	erial No. Positio	3130.00 3135.00 3140.00 3145.00 3150.00	001 355 067.786 11 05 544	
Change Over Sub Shut-In Tool Hydroic Tool Packer Packer C.O. Sub	1.00 5.00 5.00 5.00 5.00		3130.00 3135.00 3140.00 3145.00 3150.00	21.00	ſ
Change Over Sub Shut-In Tool Hydroic Tool Packer Packer C.O. Sub Drill Pipe	1.00 5.00 5.00 5.00 5.00 0.75	9694 2010 2010 2010 2010 2010 2010 2010 201	3130.00 3135.00 3140.00 3145.00 3150.00 3150.75	21.00	1
Change Over Sub Shut-In Tool Hydroic Tool Packer Packer C.O. Sub Drill Pipe C.O. Sub	1.00 5.00 5.00 5.00 5.00 0.75 62.00	9694 2010 2010 2010 2010 2010 2010 2010 201	3130.00 3135.00 3140.00 3145.00 3150.00 3150.75 3212.75	21.00 21.00	
Change Over Sub Shut-In Tool Hydroic Tool Packer Packer C.O. Sub Drill Pipe C.O. Sub Perforations	1.00 5.00 5.00 5.00 5.00 0.75 62.00 0.75	9694 2010 2010 2010 2010 2010 2010 2010 201	3130.00 3135.00 3140.00 3145.00 3150.00 3150.75 3212.75 3213.50	21.00	
Change Over Sub Shut-In Tool Hydroic Tool Packer C.O. Sub Drill Pipe C.O. Sub Perforations Recorder	1.00 5.00 5.00 5.00 0.75 62.00 0.75 13.00	96561 2010 - 2010 - 2010 2020 - 0 2020 - 0 2020 - 0	3130.00 3135.00 3140.00 3145.00 3150.00 3150.75 3212.75 3213.50 3226.50	21.00	
Change Over Sub Shut-In Tool Hydroic Tool Packer Packer C.O. Sub Drill Pipe C.O. Sub Perforations Recorder Recorder	1.00 5.00 5.00 5.00 0.75 62.00 0.75 13.00 1.00	8405	3130.00 3135.00 3140.00 3145.00 3150.75 3212.75 3213.50 3226.50 3227.50	21.00	
Change Over Sub Shut-In Tool Hydroic Tool Packer Packer C.O. Sub Drill Pipe C.O. Sub Perforations Recorder Recorder Blank Off Sub	1.00 5.00 5.00 5.00 0.75 62.00 0.75 13.00 1.00 1.00	8405	3130.00 3135.00 3140.00 3145.00 3150.75 3212.75 3213.50 3226.50 3227.50 3228.50	21.00 21.00	
Change Over Sub Shut-In Tool Hydroic Tool Packer C.O. Sub Drill Pipe C.O. Sub Perforations Recorder Recorder Blank Off Sub Packer	1.00 5.00 5.00 5.00 0.75 62.00 0.75 13.00 1.00 1.00 0.75	8405	3130.00 3135.00 3140.00 3145.00 3150.00 3150.75 3212.75 3213.50 3226.50 3227.50 3228.50 3229.25	21.00 21.00	
Change Over Sub Shut-In Tool Hydroic Tool Packer Packer C.O. Sub Drill Pipe C.O. Sub Perforations Recorder Recorder Blank Off Sub Packer Perforations	1.00 5.00 5.00 5.00 0.75 62.00 0.75 13.00 1.00 1.00 0.75 5.00	8405	3130.00 3135.00 3140.00 3145.00 3150.75 3212.75 3213.50 3226.50 3227.50 3228.50 3228.50 3229.25 3234.25 3234.25 3255.25	21.00 21.00	
Tool Description       L         Change Over Sub       Shut-In Tool         Hydroic Tool       Packer         Packer       Packer         CO. Sub       Drill Pipe         C.O. Sub       Perforations         Recorder       Blank Off Sub         Packer       Perforations         Recorder       Blank Off Sub	1.00 5.00 5.00 5.00 0.75 62.00 0.75 13.00 1.00 1.00 0.75 5.00 21.00	8405 6651	3130.00 3135.00 3140.00 3145.00 3150.75 3212.75 3213.50 3226.50 3227.50 3228.50 3228.50 3229.25 3234.25 3234.25	21.00	

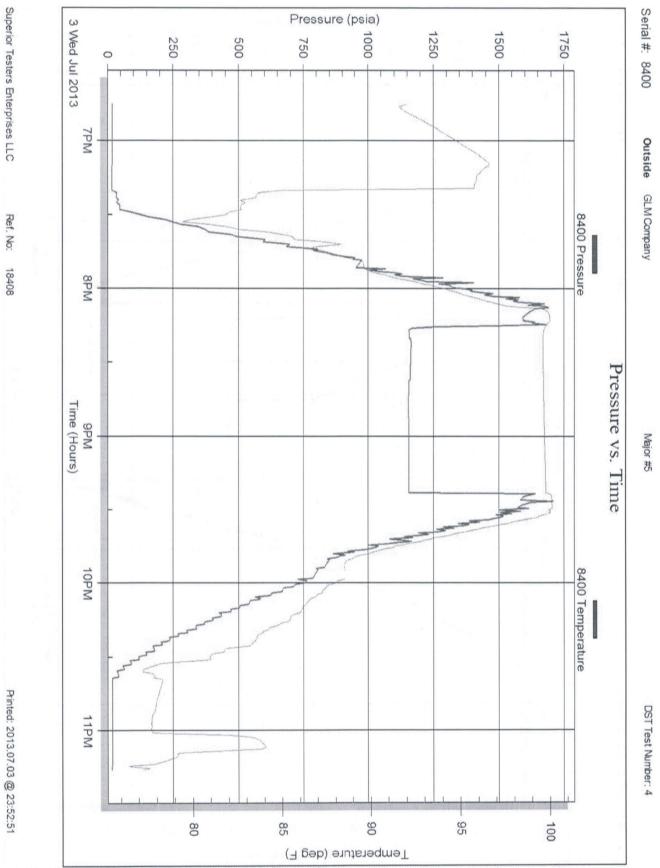
PERIA	DRI	DRILL STEM TEST REPORT			FLUID SUMMARY	
ENTERPRISES LLC	GLM C	ompany	4/15s/12w/Russell Major #5 Job Ticket: 18408 DST# Test Start: 2013.07.03 @ 19:07:00		Section of the	
	the second second	x 193 II, Kansas 67665-0193			ST#:4	
Production of California		Jerr Lawier	Test Start: 2	2013.07.03 @ 19:01	1:00	
lud and Cushion Info	rmation					
Aud Type: Gel Chem Aud Weight: 10.00 lb /iscosity: 55.00 s Vater Loss: 10.40 in &esistivity: ol	ec/qt	Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure:	ft bbl psia	Oil API: Water Salinity:	deg API ppm	
Salinity: 9000.00 p ilter Cake: in	pm iches					
Recovery Information						
tecovery mormation		Recovery Table				
	Length ft	Description	Volume bbl	]		
	0.00	0 feet gas	0.000	5		
	62.00	100% mud	0.870	2		
	189.00	55% Mud, 45% water, trace oil.	2.65*			
	315.00	40% Mud, 60% w ater.	4.419			
	567.00 442.00	25% mud, 75% w ater.	7.954	-		
	0.00	5% mud, 95% w ater. Chloride recov. 26000 ppm.	6.200	-		
and the second	0.00	resist recov21 ohms at 50 degrees.	0.000	-		
Tota	al Length: 1575	0.00 ft Total Volume: 22.094 bbl				
Nun	n Fluid Samples: 0	Num Gas Bombs: 0	Serial #	:		
Laboratory Name:		Laboratory Location:				
Rec	covery Comments:					

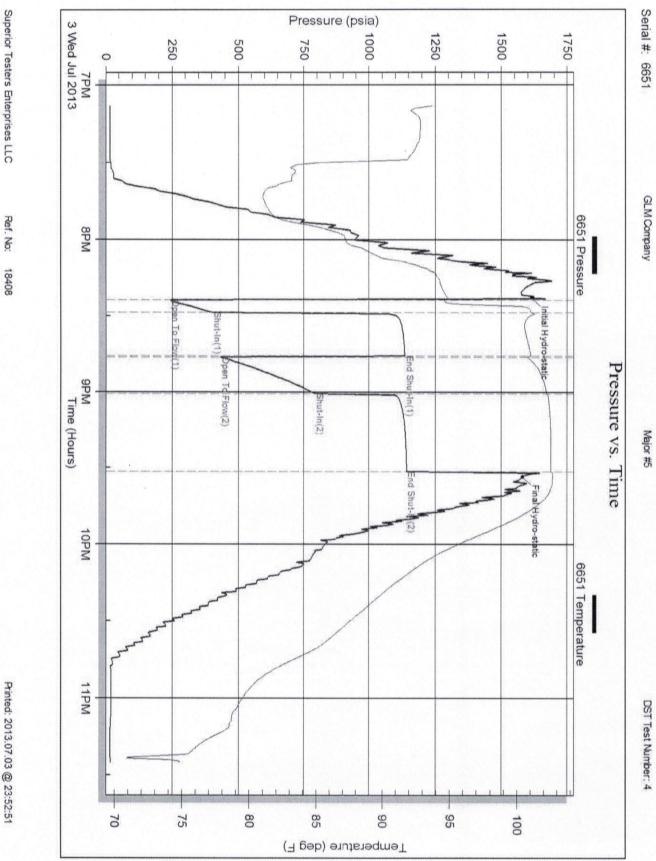
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