

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
June 2009

Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33921
Name: Gra Ex, LLC
Address 1: P.O. Box #32
Address 2: _____
City: Kingman State: KS Zip: 67068 + _____
Contact Person: Mr. Don Graber
Phone: (620) 532-2644
CONTRACTOR: License # 5822
Name: VAL Energy, Inc.
Wellsite Geologist: Jeffrey Burk
Purchaser: N/A (SWDW)

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
 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: N/A
Well Name: N/A
Original Comp. Date: N/A Original Total Depth: N/A
 Deepening Re-perf. Conv. to ENHR Conv. to SWD
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

12/11/09	12/22/10	05/24.10
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 145-21,596-00-00
Spot Description: 100' East of C SW SE
100' E C SW SE Sec. 19 Twp. 23 S. R. 15 East West
590 Feet from North / South Line of Section
1,910 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Pawnee
Lease Name: Gingrich Well #: #1 (SWD)
Field Name: Benson
Producing Formation: Arbuckle (Disposal Zone)
Elevation: Ground: 2048' Kelly Bushing: 2057'
Total Depth: 4250' Plug Back Total Depth: 4250'
Amount of Surface Pipe Set and Cemented at: 340' Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 3252 Feet
If Alternate II completion, cement circulated from: N/A
feet depth to: N/A w/ N/A sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 13,7000 ppm Fluid volume: 950 bbls
Dewatering method used: Hauled clear fluids and then allowed to evaporate.
Location of fluid disposal if hauled offsite:
Operator Name: Belport Oil Inc.
Lease Name: Jennie Owen SWD License #: 33809
Quarter NW/4 Sec. 27 Twp. 22s S. R. 15 East West
County: Pawnee Permit #: KCC Docket #26,450

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: [Signature]
Title: Agent for Gra Ex, LLC Date: 07/06/10

KCC Office Use ONLY

Letter of Confidentiality Received

Date: _____

Confidential Release Date: _____

Wireline Log Received

Geologist Report Received

UIC Distribution

ALT I II III Approved by: [Signature] Date: 8/11/10

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Operator Name: Gra Ex, LLC Lease Name: Gingrich Well #: #1 (SWD)
 Sec. 19 Twp. 23 S. R. 15 East West County: Pawnee

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Compensated Neutron/PEL, Dual Induction, Sector Bond Log, (No Geologic Report)	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input checked="" type="checkbox"/> Log</td> <td>Formation (Top), Depth and Datum</td> <td><input type="checkbox"/> Sample</td> </tr> <tr> <td>Name</td> <td>Top</td> <td>Datum</td> </tr> <tr> <td>Anhydrite</td> <td>995</td> <td>(+1062)</td> </tr> <tr> <td>Heebner</td> <td>3510</td> <td>(-1453)</td> </tr> <tr> <td>Lansing/Kansas City</td> <td>3650</td> <td>(-1593)</td> </tr> <tr> <td>Base/Kansas City</td> <td>3900</td> <td>(-1843)</td> </tr> <tr> <td>Mississippian</td> <td>4018</td> <td>(-1961)</td> </tr> <tr> <td>Arbuckle</td> <td>4084</td> <td>(-2027)</td> </tr> <tr> <td>Total Depth (Log)</td> <td>4247</td> <td>(-2190)</td> </tr> </table>	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample	Name	Top	Datum	Anhydrite	995	(+1062)	Heebner	3510	(-1453)	Lansing/Kansas City	3650	(-1593)	Base/Kansas City	3900	(-1843)	Mississippian	4018	(-1961)	Arbuckle	4084	(-2027)	Total Depth (Log)	4247	(-2190)
<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample																										
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Heebner	3510	(-1453)																										
Lansing/Kansas City	3650	(-1593)																										
Base/Kansas City	3900	(-1843)																										
Mississippian	4018	(-1961)																										
Arbuckle	4084	(-2027)																										
Total Depth (Log)	4247	(-2190)																										

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, 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
Surface	12 1/4"	8 5/8" (New)	24#	340'	Common	250	2% gel/3% cc
Production	7 7/8"	5 1/2" (New)	15.5#	4165'	AA2	155 (1st Stage)	5#/sx gilsonite, 10% salt,
					ACON Blend	390 (2nd Stage)	.5% FR, .5% Gas Check

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
N/A	4165' - 4250' (Open Hole) No perforations used	3000 gallons of 28% NE/FE Acid	4165'

TUBING RECORD: Size: <u>2 7/8" (SealTite Lined)</u> Set At: <u>4121'</u> Packer At: <u>4121'</u> Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. Subject to Docket Approval (Est 08/05/10)	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input checked="" type="checkbox"/> Other (Explain) <u>Salt Water Disposal</u>
Estimated Production Per 24 Hours	Oil Bbls. <u>N/A</u> Gas Mcf <u>N/A</u> Water Bbls. <u>N/A</u> Gas-Oil Ratio <u>N/A</u> Gravity <u>N/A</u>

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input checked="" type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>4165'-4250' (Open Hole)</u>
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PAGE 1 of 1	CUST NO 10017	INVOICE DATE 12/15/2009
INVOICE NUMBER 1718 - 90197632		

Pratt (620) 672-1201
 B GRA-EX LLC
 I PO Box: 32
 L KINGMAN
 L KS US 67068
 T
 O ATTN:

J LEASE NAME Gingrich 1
 O LOCATION
 B COUNTY Pawnee
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/PI
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40128778	20920		Net - 30 days	01/14/2010
For Service Dates: 12/12/2009 to 12/12/2009				
0040128778				
171801021A Cement-New Well Casing/PI 12/12/2009				
Cement	250.00	EA	8.00	1,999.99 T
Common Additives	63.00	EA	1.85	116.55 T
Cello-flake Additives	470.00	EA	0.13	58.75 T
Cement Gel	705.00	EA	0.53	370.13 T
Calcium Chloride	1.00	EA	80.00	80.00
Cement Float Equipment				
Wooden Cement Plug, 8 5/8"	70.00	MI	3.50	245.00
Mileage				
Heavy Equipment Mileage	411.00	MI	0.80	328.80
Mileage				
Proppant and Bulk Delivery Charge	250.00	MI	0.70	175.00
Mileage				
Blending & Mixing Service Charge	35.00	HR	2.13	74.38
Pickup				
Unit Mileage Charge-Pickups, Vans & Cars	1.00	HR	500.00	500.00
Pump Charge-Hourly				
Depth Charge; 0-500'	1.00	EA	125.00	125.00
Cementing Head w/Manifold				
Plug Container Utilization Charge	1.00	HR	87.50	87.50
Supervisor				
Service Supervisor				
PLEASE REMIT TO:			SEND OTHER CORRESPONDENCE TO:	
BASIC ENERGY SERVICES, LP			BASIC ENERGY SERVICES, LP	
PO BOX 841903			PO BOX 10460	
DALLAS, TX 75284-1903			MIDLAND, TX 79702	
			SUB TOTAL 4,161.10	
			TAX 160.36	
			INVOICE TOTAL 4,321.46	

GRA EX, LLC

VENDOR: BASIC Basic Energy Servi

DATE: 12/18/2009 TOTAL: \$4,321.46

2793

INVOICE
1718-90197632

AMOUNT PAID
4,321.46

DISCOUNT
0.00

BACKUP W/H
0.00

TAX W/H
0.00

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PAGE 1 of 2	CUST NO 1001703	INVOICE DATE 12/30/2009
INVOICE NUMBER 1718 - 90209339		

Pratt (620) 672-1201
 B GRA-EX LLC
 I PO Box: 32
 L KINGMAN
 L KS US 67068
 T
 O ATTN:

J LEASE NAME Gingrich 1
 O LOCATION
 B COUNTY Pawnee
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.		TERMS	DUE DATE
40133918	27463			Net - 30 days	01/29/2010
		QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 12/23/2009 to 12/23/2009</i>					
0040133918					
171801177A Cement-New Well Casing/Pi 12/23/2009					
Cement		155.00	EA	10.20	1,581.00 T
AA2 Cement		390.00	EA	10.80	4,212.00 T
Cement		50.00	EA	7.20	360.00 T
A-Con Blend Common		98.00	EA	2.22	217.56 T
Cement		796.00	EA	0.30	238.80 T
60/40 POZ		73.00	EA	3.60	262.80 T
Additives		775.00	EA	0.40	311.55 T
Cello-flake		500.00	EA	0.92	459.00 T
Additives		1,101.00	EA	0.63	693.63 T
Salt(Fine)		1.00	EA	3,660.00	3,660.00 T
Additives		1.00	EA	510.00	510.00 T
Cement Friction Reducer		1.00	EA	2,220.00	2,220.00 T
Additives		10.00	EA	66.00	660.00 T
Gilsonite		2.00	EA	174.00	348.00 T
Additives		105.00	MI	4.20	441.00 T
Super Flush II		973.00	MI	0.96	934.08 T
Calcium Chloride					
Cement Float Equipment					
Two Stage Cement Collar, 5 1/2" (Red)					
Cement Float Equipment					
5 1/2" Latch Down Plug & Assembly (Red)					
Cement Float Equipment					
Cement Shoe Packer Type, 5 1/2" (Red)					
Cement Float Equipment					
Turbolizer, 5 1/2" (Blue)					
Cement Float Equipment					
5 1/2" Basket (Blue)					
Mileage					
Heavy Equipment Mileage					
Mileage					
Proppant and Bulk Delivery Charge					

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pd 1-5-2010
CK 2809

SWD per Don



BASIC[™]
ENERGY SERVICES

PAGE 2 of 2	CUST NO 1001703	INVOICE DATE 12/30/2009
INVOICE NUMBER 1718 - 90209339		

Pratt (620) 672-1201
B GRA-EX LLC
I PO Box: 32
L KINGMAN
L KS US 67068
T
O ATTN:

J LEASE NAME Gingrich 1
O LOCATION
B COUNTY Pawnee
S STATE KS
I JOB DESCRIPTION Cement-New Well Casing/Pi
E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.		TERMS	DUE DATE
40133918	27463			Net - 30 days	01/29/2010
				UNIT PRICE	INVOICE AMOUNT
Mileage		595.00	MI	0.84	499.80
Blending & Mixing Service Charge					
Pickup		35.00	HR	2.55	89.25
Unit Mileage Charge-Pickups, Vans & Cars					
Pump Charge-Hourly		1.00	HR	1,512.00	1,512.00
Depth Charge; 4001-5000'		1.00	EA	150.00	150.00
Cementing Head w/Manifold					
Plug Container Utilization Charge					
High Head Charge		1.00	EA	180.00	180.00
Supervisor		1.00	HR	105.00	105.00
Service Supervisor					

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NO fast pay
discount
per tow BASIC
1-4-10

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	19,645.47
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	525.19
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	20,170.66
DALLAS, TX 75284-1903	MIDLAND, TX 79702		

BASIC

energy services, L.P. #1 Bottom Stage

TREATMENT REPORT

Customer GRA EX LLC	Lease No.	Date 12 23-09	
Lease GINGRICH	Well # 1		
Field Order # 1218177A	Station PLATH KS	Casing 5/2	Depth 104250
Type Job 5/2 2-Stage PKR Shoe L.S. CNW	Formation	County Pawnee	State KS
		Legal Description 19-23-15	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5/2	Tubing Size	Shots/Ft	Bottom Stage	Acid	Stage 12 BBL SUPERFLUSH II	RATE	PRESS	ISIP
Depth 4165'	Depth	From	To	Pre Pad	155 SKs AA2 cement @ 15 #/gal	Max		5 Min.
Volume 98	Volume	From	To	Pad		Min		10 Min.
Max Press 1500#	Max Press	From	To	Frac		Avg		15 Min.
Well Connection P.C.	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth 4142	Packer Depth	From	To	Flush	Water + mud	Gas Volume		Total Load

Customer Representative Jeff Burke	Station Manager Dave Scott	Treater Allen F. Werth
---------------------------------------	-------------------------------	---------------------------

Service Units	28443	27463	19960	21010	14355	14284				
Driver Names	A Werth	K Leslie	Mike	McGrath	Chad	H. W.				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
2130					on loc. Discuss Safety, Set up Plan Job Rig engine down Drill Collars out of Hole w/B.T. Rig up to Run 5/2 csg
2148					Start 5/2 csg. 15.5" Shoe It 21.93 w/PKR Shoe + L.D. Baffle in collar
0040					cont-1-4-10-16-22-31-41-54-65-79 Basket 2-22
0330	400#				Casing @ 4165' set PKR Shoe w/Rig.
0437			12	5	mix + Pump 12 BBLs Superflush II
			5	5	Pump 5 BBLs H ² O spacer
			39	6	mix + pump 155 SKs AA2 cement Finish mix - wash out Pump + Lin. Drop Latch down Plug.
0500			20 BBL H ² O	6	Start Disp csg cap 98 BBLs 78 BBLs mud
			↓	5	enough Lift Pst w/ 68 BBLs out
0530	1500#		98	4	Plug down
0525					Drop Part To open DV
0545	900#				open DV = c.r w/ R RECEIVED

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continued KCC WICHITA

BASIC

energy services, L.P. #2 TOP STAGE

TREATMENT REPORT

Customer GRA FX LLC	Lease No.	Date 12-23-09
Lease GINGRICH	Well # 1	
Field Order # 17181177A	Station Pratt KS	Casing " 5 1/2
		Depth 3256
		County RAWNEE
		State KANS.
Type Job, 5 1/2 - 2-Stage PKR Shoe L.S.	Formation cnw	Legal Description 19-23-15

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
5 1/2		390	50	50	12	gal	5 Min.	
Depth 3256'	Depth	From	To	Pre Pad	Max		10 Min.	
Volume 77 1/2	Volume	From	To	Pad	Min		15 Min.	
Max Press 1700	Max Press	From	To	Frac	Avg		HHP Used	
Well Connection P.C.	Annulus Vol.	From	To				Annulus Pressure	
Plug Depth 3256	Packer Depth	From	To	Flush Fresh water	Gas Volume		Total Load	

Customer Representative Jeff Burke	Station Manager DAVE SCOT	Treater Allen F. Worth
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Service Units	28443	27463	19960	1100	14355	14224					
Driver Names	Worth	Lesley	Mike	McGraw	Finz						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
					on loc. Discuss, Safety, Set up, Plan Job for Top Stage
0745	300		178	5 1/2	Start mix 390SKS A-CON Blend @ 12 gal
					Finish mix cement
				6	Release closing plug for DV
0845	1705		77 1/2		Start 0.5% CASING CAP. 77 1/2 BBL
					Plug down DV closes
					Plug RAT Hole + Mouse Hole
					w/ 50SKS 60/40 Por.
					Washup Equip
0900					Rack up Equip.
0930					Job complete.

cut did not circ.

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DRILL STEM TEST REPORT

Prepared For: **GRA EX L.L.C.**

PO BOX 32
2435 N MARQUETTE
KINGMAN KS 67068

ATTN: JEFF BURK

19-23S-15W

GINGRICH#1

Start Date: 2009.12.18 @ 00:30:00

End Date: 2009.12.18 @ 08:43:30

Job Ticket #: 15878 DST #: 1

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

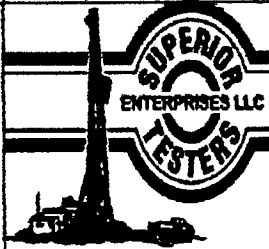
Printed: 2009.12.22 @ 16:04:19

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GRA EX L.L.C. GINGRICH#1 19-23S-15W DST # 1 LANSING F-G 2009.12.18



DRILL STEM TEST REPORT

TOOL DIAGRAM

GRA EX L.L.C.

GINGRICH#1

PO BOX 32
2435 N MARQUETTE
KINGMAN KS 67068
ATTN: JEFF BURK

19-23S-15W

Job Ticket: 15878

DST#: 1

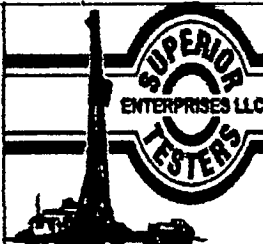
Test Start: 2009.12.18 @ 00:30:00

Tool Information

Drill Pipe:	Length: 3723.00 ft	Diameter: 3.80 inches	Volume: 52.22 bbl	Tool Weight: 2000.00 lb
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 to Pull Loose: 70000.00 lb
			<u>Total Volume: 52.22 bbl</u>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	3741.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	65.00 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			3721.00	
Shut-In Tool	5.00			3726.00	
Hydroic Tool	5.00			3731.00	
Packer	5.00			3736.00	21.00 Bottom Of Top Packer
Packer	5.00			3741.00	
Perforations	39.00			3780.00	
Recorder	0.00	8400	inside	3780.00	
Recorder	0.00	4143	Outside	3780.00	
Bullnose	5.00			3785.00	44.00 Bottom Packers & Anchor
Total Tool Length:	65.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

GRA EX L.L.C.

GINGRICH#1

PO BOX 32
2435 N MARQUETTE
KINGMAN KS 67068
ATTN: JEFF BURK

19-23S-15W
Job Ticket: 15878 DST#: 1
Test Start: 2009.12.18 @ 00:30:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ²	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 8400.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

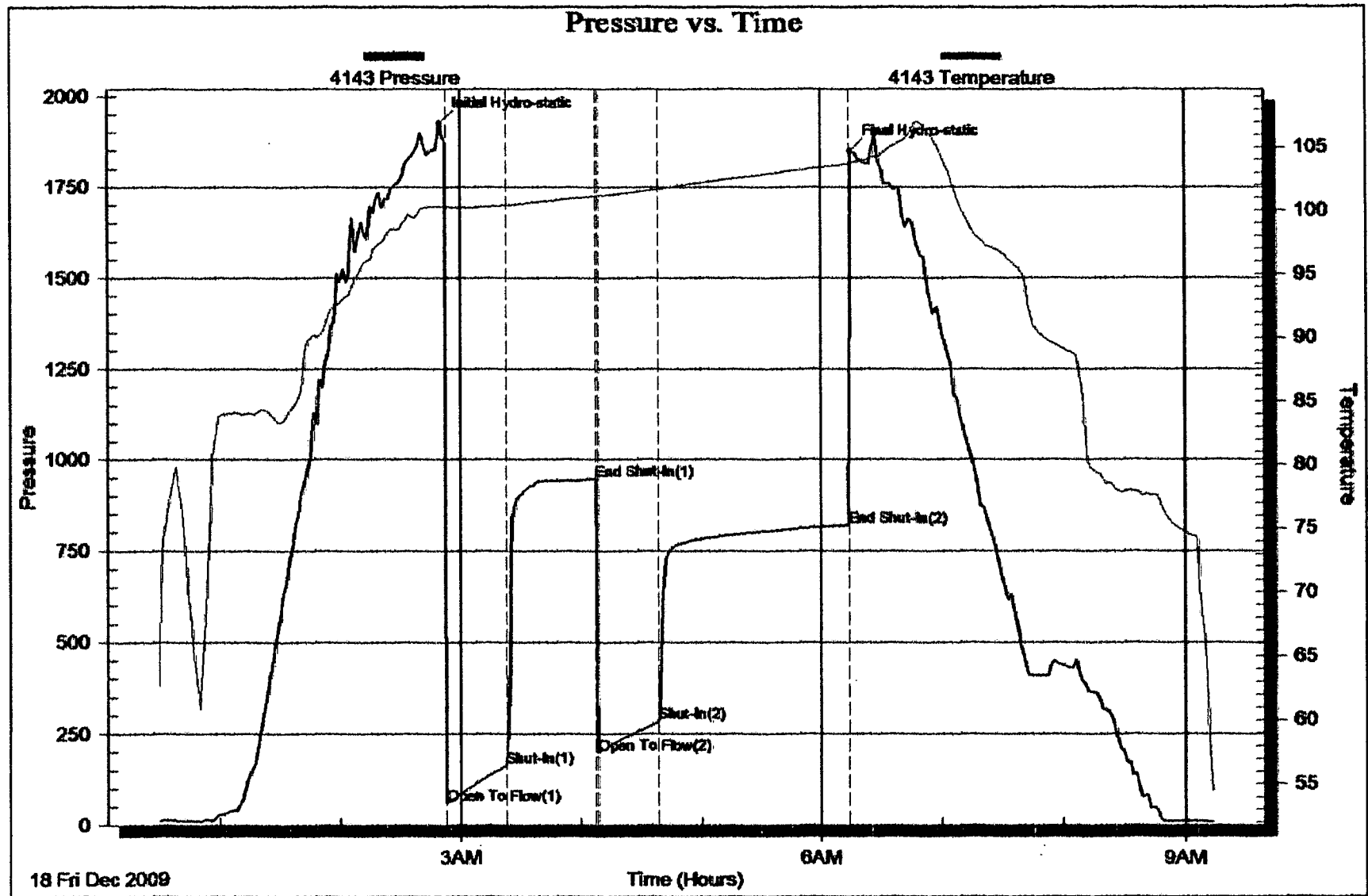
Length ft	Description	Volume bbl
5.00	CLEAN OIL 100%O	0.070
1450.00	MUDDY WATER SHOW OF GAS 5%G10%M8	20.340

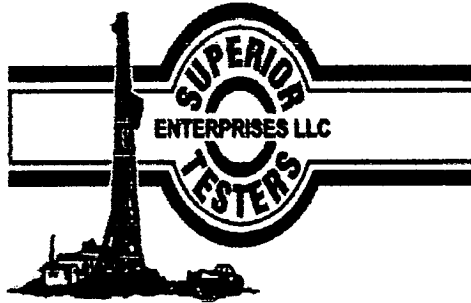
Total Length: 1455.00 ft Total Volume: 20.410 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **GRA EX L.L.C.**

PO BOX 32
2435 N MARQUETTE
KINGMAN KS 67088

ATTN: JEFF BURK

19-23S-15W

GINGRICH#1

Start Date: 2009.12.19 @ 21:30:00

End Date: 2009.12.20 @ 07:06:30

Job Ticket #: 15879 DST #: 2

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

Printed: 2009.12.22 @ 16:05:01

GRA EX L.L.C.

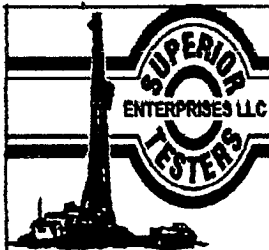
GINGRICH#1

19-23S-15W

DST # 2

LANSING H-1

2009.12.19



DRILL STEM TEST REPORT

GRA EX LLC

GINGRICH#1

PO BOX 32
2435 N MARQUETTE
KINGMAN KS 67068
ATTN: JEFF BURK

19-23S-15W

Job Ticket: 15879

DST#: 2

Test Start: 2009.12.19 @ 21:30:00

GENERAL INFORMATION:

Formation: LANSING HI

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:03:00

Time Test Ended: 07:06:30

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 3345 68 MGB

Interval: 3782.00 ft (KB) To 3817.00 ft (KB) (TVD)

Total Depth: 3817.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2057.00 ft (KB)

2048.00 ft (CF)

KB to GRVCF: 9.00 ft

Serial #: 8400

Inside

Press@RunDepth: 511.44 psia @ 3812.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2009.12.19

End Date:

2009.12.20

Last Calib.: 2009.12.19

Start Time: 21:31:00

End Time:

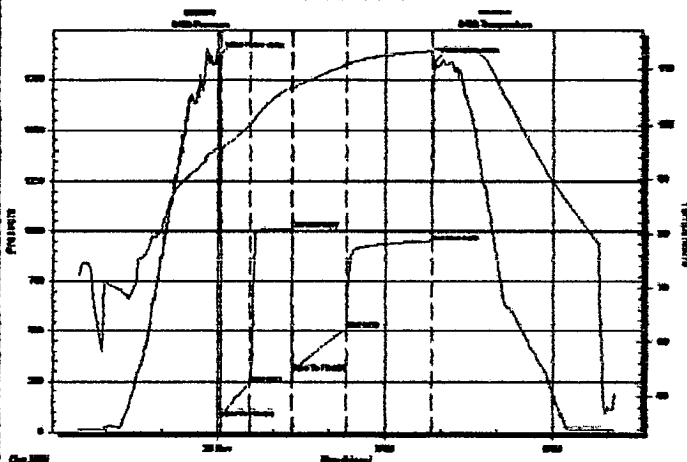
07:06:30

Time On Btm: 2009.12.20 @ 00:01:00

Time Off Btm: 2009.12.20 @ 03:53:00

TEST COMMENT: 30-INITIAL OPENING GOOD BLOW BOTTOM OF THE BUCKET IN 8 MINS
45-INITIAL SHUT IN GOOD BLOW BACK
60-FINAL OPENING GOOD BLOW BOTTOM OF THE BUCKET IN 5 MINS
90-FINAL SHUT IN GOOD BLOW BACK

Pressure vs. Time



PRESSURE SUMMARY

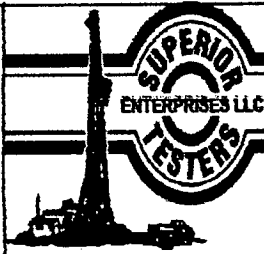
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1865.35	96.05	Initial Hydro-static
2	67.62	95.89	Open To Flow (1)
34	241.21	100.25	Shut-in(1)
79	1010.47	106.82	End Shut-in(1)
80	296.41	106.73	Open To Flow (2)
138	511.44	110.74	Shut-in(2)
230	946.76	113.34	End Shut-in(2)
232	1837.83	113.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
260.00	GAS OIL CUT WATERY MUD 10%G10%G3.65;M40%W	
600.00	WATER WITH A SHOW OF OIL 3%O97%W	18.42
300.00	WATER 100%W	4.21
60.00	WATER CUT MUD 50%M50%W	0.84

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

GRA EX L.L.C.

GINGRICH#1

PO BOX 32
2435 N MARQUETTE
KINGMAN KS 67068
ATTN: JEFF BURK

19-23S-15W

Job Ticket: 15879

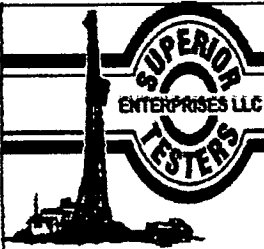
DST#: 2

Test Start: 2009.12.19 @ 21:30:00

Tool Information

Drill Pipe:	Length: 3764.00 ft	Diameter: 3.80 inches	Volume: 52.80 bbl	Tool Weight: 2000.00 lb
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 to Pull Loose: 80000.00 lb
			<u>Total Volume: 52.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	3782.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	56.00 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			3762.00	
Shut-In Tool	5.00			3767.00	
Hydroic Tool	5.00			3772.00	
Packer	5.00			3777.00	21.00 Bottom Of Top Packer
Packer	5.00			3782.00	
Perforations	30.00			3812.00	
Recorder	0.00	8400	Inside	3812.00	
Recorder	0.00	4143	Outside	3812.00	
Bullnose	5.00			3817.00	35.00 Bottom Packers & Anchor
Total Tool Length:	56.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

GRA EX L.L.C.

GINGRICH#1

PO BOX 32
2435 N MARQUETTE
KINGMAN KS 67068
ATTN: JEFF BURK

19-23S-15W
Job Ticket: 15879 DST#: 2
Test Start: 2009.12.19 @ 21:30:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 14.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 10900.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

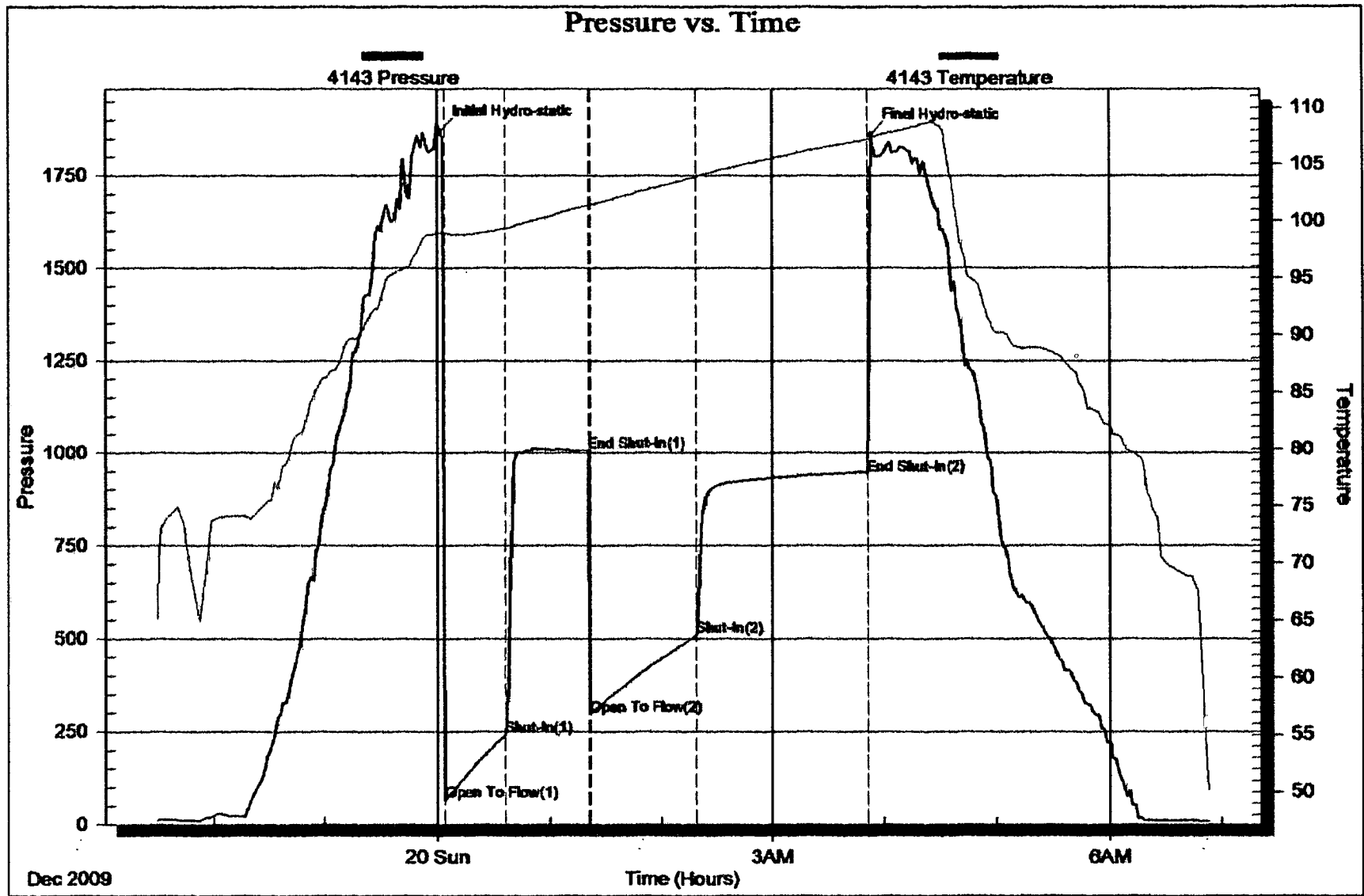
Length ft	Description	Volume bbl
260.00	GAS OIL CUT WATERY MUD 10%G10%G40%	3.647
600.00	WATER WITH A SHOW OF OIL 3%O97%W	8.416
300.00	WATER 100%W	4.208
60.00	WATER CUT MUD 50%M50%W	0.842

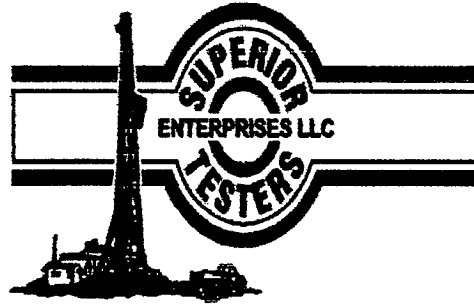
Total Length: 1220.00 ft Total Volume: 17.113 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **GRA EX L.L.C.**

PO BOX 32
2435 N MARQUETTE
KINGMAN KS 67068

ATTN: JEFF BURK

19-23S-15W

GINGRICH#1

Start Date: 2009.12.20 @ 22:00:00

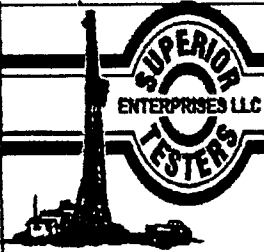
End Date: 2009.12.21 @ 05:53:30

Job Ticket #: 15880 DST #: 3

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

Printed: 2009.12.22 @ 16:06:10

GRA EX L.L.C. GINGRICH#1 19-23S-15W DST # 3 LANSING J-K-L 2009.12.20



DRILL STEM TEST REPORT

GRA EX L.L.C.

GINGRICH#1

PO BOX 32
2435 N MARQUETTE
KINGMAN KS 67068
ATTN: JEFF BURK

19-23S-15W

Job Ticket: 15880

DST#: 3

Test Start: 2009.12.20 @ 22:00:00

GENERAL INFORMATION:

Formation: **LANSING J-K-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:17:30

Time Test Ended: 05:53:30

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 3345

Interval: 3821.00 ft (KB) To 3910.00 ft (KB) (TVD)

Total Depth: 3910.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2057.00 ft (KB)

2048.00 ft (CF)

KB to GRVCF: 9.00 ft

Serial #: 8400

Inside

Press@RunDepth: 108.86 psia @ 3905.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2009.12.20

End Date:

2009.12.21

Last Calib.: 2009.12.20

Start Time: 22:01:00

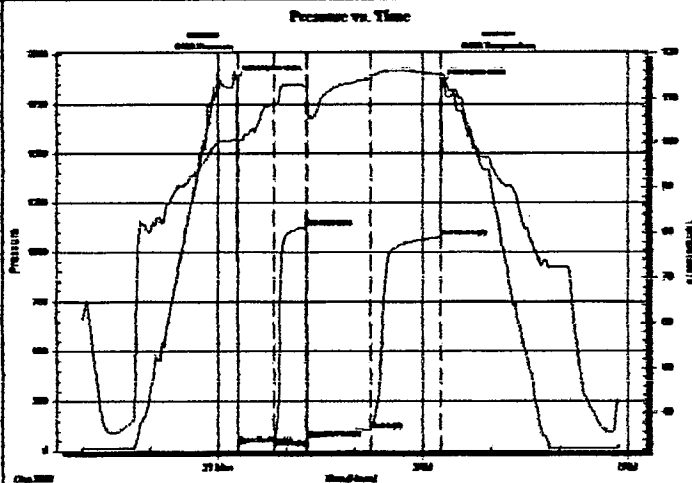
End Time:

05:53:30

Time On Btrr: 2009.12.21 @ 00:16:00

Time Off Btrr: 2009.12.21 @ 03:17:00

TEST COMMENT: 30-INITIAL OPENING SURFACE BLOW DIED AFTER 5 MINS FLUSHED TOOL WEAK BLOW BUILT TO 1 INCH
30-INITIAL SHUT IN NO BLOW BACK
60-FINAL OPENING WEAK BLOW BUILT TO 7 INCHES INTO WATER
60-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

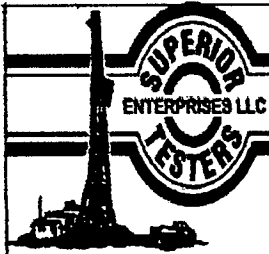
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1877.92	100.95	Initial Hydro-static
2	32.70	100.44	Open To Flow (1)
33	61.90	108.78	Shut-In(1)
62	1127.56	112.63	End Shut-In(1)
63	67.46	110.36	Open To Flow (2)
118	108.86	114.32	Shut-In(2)
180	1075.18	115.29	End Shut-In(2)
181	1855.38	115.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	MUDDY WATER TRACE OF OIL 40%MS72.19:%O	

Gas Rates

	Choke (Inches)	Pressure (psia)	Gas Rate (Mscfd)



DRILL STEM TEST REPORT

TOOL DIAGRAM

GRA EX L.L.C.

GINGRICH#1

PO BOX 32
2435 N MARQUETTE
KINGMAN KS 67068
ATTN: JEFF BURK

19-23S-15W

Job Ticket: 15880

DST#: 3

Test Start: 2009.12.20 @ 22:00:00

Tool Information

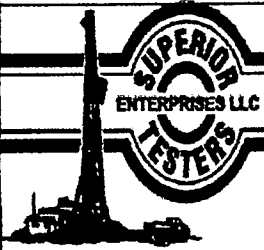
Drill Pipe:	Length: 3803.00 ft	Diameter: 3.88 inches	Volume: 55.62 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Full Loose: 80000.00 lb
			<u>Total Volume: 55.62 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	3821.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	89.00 ft			
Tool Length:	110.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3801.00	
Shut-In Tool	5.00			3806.00	
Hydroic Tool	5.00			3811.00	
Packer	5.00			3816.00	21.00 Bottom Of Top Packer
Packer	5.00			3821.00	
Change Over Sub	0.75			3821.75	
Drill Pipe	62.50			3884.25	
Change Over Sub	0.75			3885.00	
Perforations	20.00			3905.00	
Recorder	0.00	8400	Inside	3905.00	
Recorder	0.00	4143	Outside	3905.00	
Bullnose	5.00			3910.00	89.00 Bottom Packers & Anchor

Total Tool Length: 110.00



DRILL STEM TEST REPORT

FLUID SUMMARY

GRA EX L.L.C.

GINGRICH#1

PO BOX 32
2435 N MARQUETTE
KINGMAN KS 67068
ATTN: JEFF BURK

19-23S-15W
Job Ticket: 15880 DST#: 3
Test Start: 2009.12.20 @ 22:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 49.00 sec/qt
Water Loss: 15.99 in³
Resistivity: ohm.m
Salinity: 14600.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psia

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

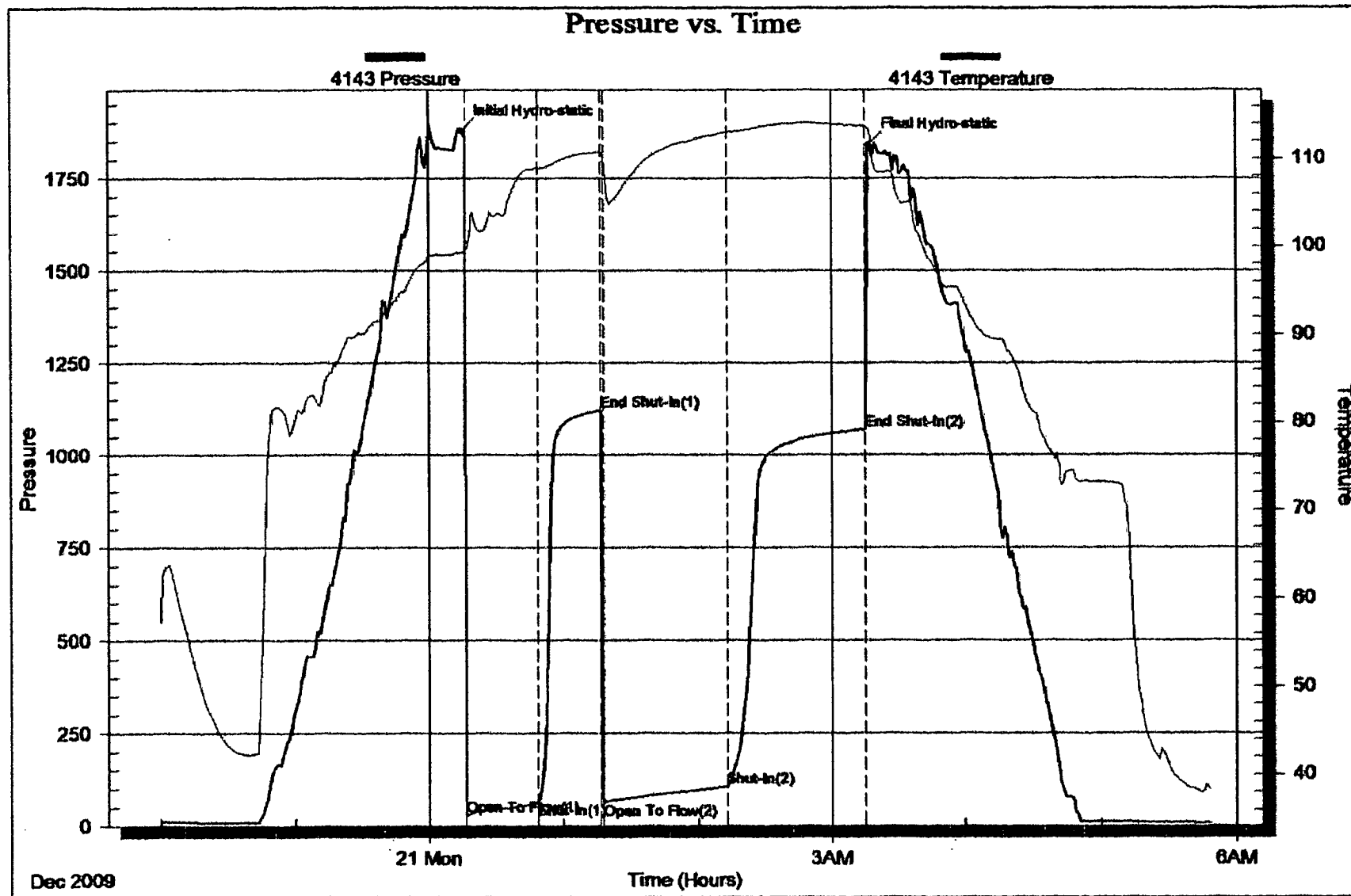
Length ft	Description	Volume bbl
150.00	MUDDY WATER TRACE OF OIL 40%MS7%WC	2.194

Total Length: 150.00 ft Total Volume: 2.194 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **GRA EX . LLC**
PO BOX 32
KINGMAN KS 67068

ATTN: JEFF BURK

19-23-15W PAWNEE

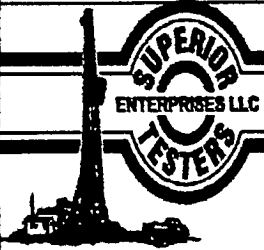
GINGRICH #1

Start Date: 2009.12.21 @ 04:43:00
End Date: 2009.12.21 @ 11:04:00
Job Ticket #: 16189 DST #: 4

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

Printed: 2009.12.23 @ 14:01:59

GRA EX . LLC GINGRICH #1 19-23-15W PAWNEE DST # 4 ARBUCKLE 2009.12.21



DRILL STEM TEST REPORT

GRA EX . LLC
 PO BOX 32
 KINGMAN KS 67068
 ATTN: JEFF BURK

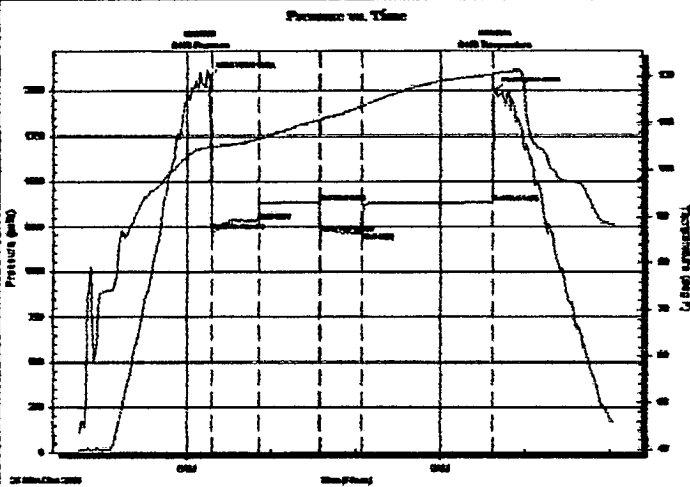
GINGRICH #1
19-23-15W PAWNEE
 Job Ticket: 16189 DST#: 4
 Test Start: 2009.12.21 @ 04:43:00

GENERAL INFORMATION:

Formation: **ARBUCKLE**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:18:00
 Time Test Ended: 11:04:00
 Interval: **4102.00 ft (KB) To 4115.00 ft (KB) (TVD)**
 Total Depth: **4115.00 ft (KB) (TVD)**
 Hole Diameter: **6.88 inches** Hole Condition: Fair
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **JARED SCHECK**
 Unit No: **3320-GB**
 Reference Elevations: **2057.00 ft (KB)**
2048.00 ft (CF)
 KB to GR/CF: **9.00 ft**

Serial #: **8419** Outside
 Press@RunDepth: **1216.66 psia @ 4110.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2009.12.21** End Date: **2009.12.21** Last Calib.: **2009.12.21**
 Start Time: **04:44:00** End Time: **11:04:00** Time On Btm: **2009.12.21 @ 06:16:30**
 Time Off Btm: **2009.12.21 @ 09:38:30**

TEST COMMENT: 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN LESS THEN 1 MINUTE
 45/INITIAL SHUT IN :BLOW BACK
 30/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN LESS THEN 1 MINUTE
 60/FINAL SHUT IN :BLOW BACK



PRESSURE SUMMARY

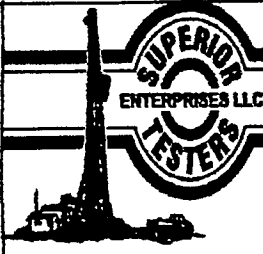
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2078.46	105.39	Initial Hydro-static
2	1227.60	105.25	Open To Flow (1)
35	1282.83	106.69	Shut-In(1)
78	1382.15	110.80	End Shut-In(1)
79	1214.63	110.83	Open To Flow (2)
108	1216.66	113.59	Shut-In(2)
200	1381.26	120.27	End Shut-In(2)
202	1997.04	120.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
540.00	WATER 5%w 95%w	7.57

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	35.00	1006.21



DRILL STEM TEST REPORT

TOOL DIAGRAM

GRA EX . LLC
 PO BOX 32
 KINGMAN KS 67068
 ATTN: JEFF BURK

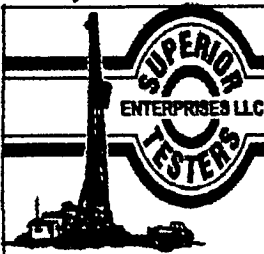
GINGRICH #1
 19-23-15W PAWNEE
 Job Ticket: 16189 DST#: 4
 Test Start: 2009.12.21 @ 04:43:00

Tool Information

Drill Pipe:	Length: 4090.00 ft	Diameter: 3.80 inches	Volume: 57.37 bbl	Tool Weight: 10000.00 lb
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 to Pull Loose: 70000.00 lb
			<u>Total Volume: 57.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4102.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	34.00 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			4082.00	
Shut-In Tool	5.00			4087.00	
Hydraulic Tool	5.00			4092.00	
Packer	5.00			4097.00	21.00 Bottom Of Top Packer
Packer	5.00			4102.00	
Perforations	8.00			4110.00	
Recorder	0.00	8524	Inside	4110.00	
Recorder	0.00	8419	Outside	4110.00	
Bullnose	5.00			4115.00	13.00 Bottom Packers & Anchor
Total Tool Length:	34.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

GRA EX . LLC
PO BOX 32
KINGMAN KS 67068
ATTN: JEFF BURK

GINGRICH #1
19-23-15W PAWNEE
Job Ticket: 16189 DST#: 4
Test Start: 2009.12.21 @ 04:43:00

Mud and Cushion Information

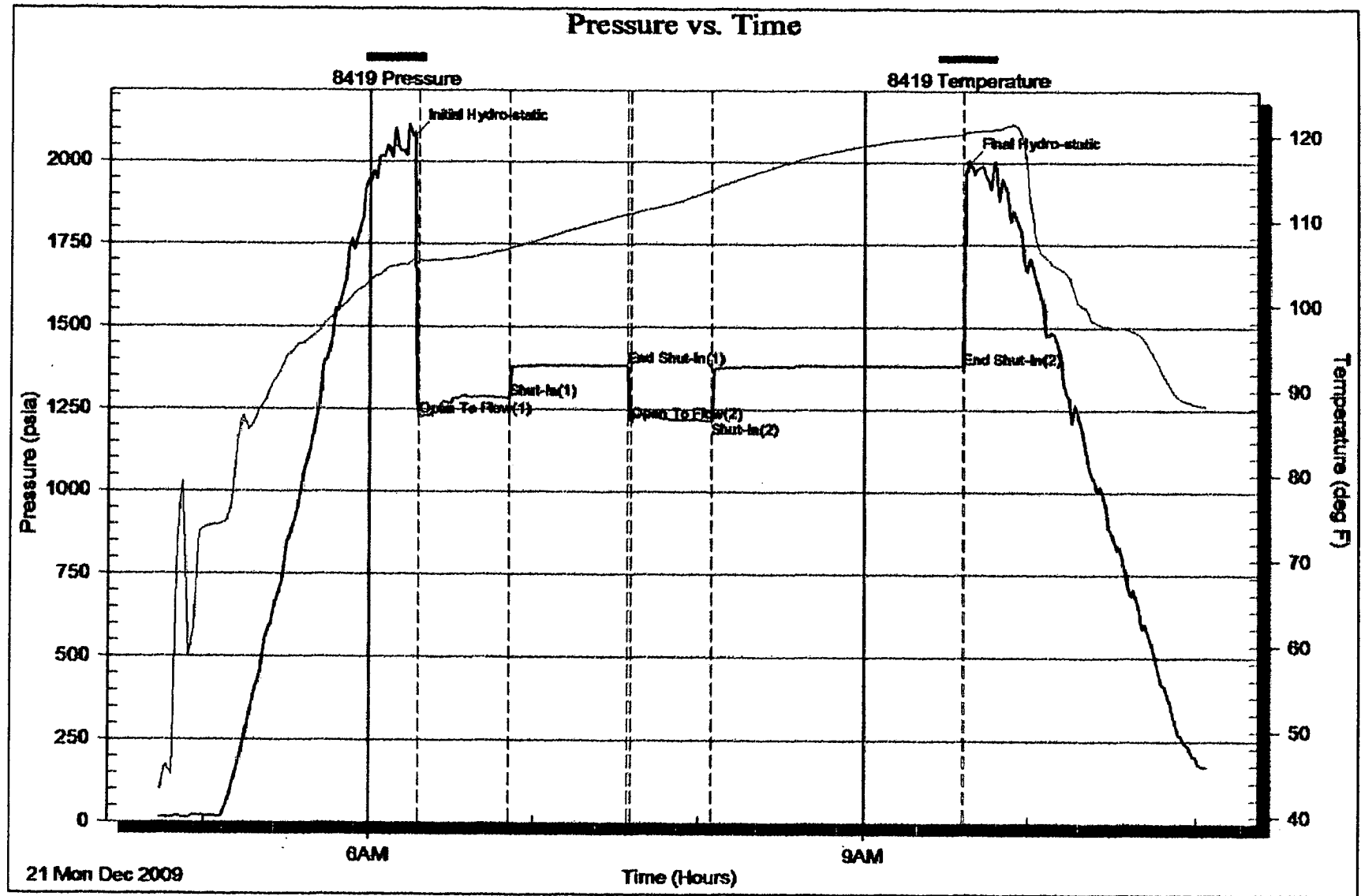
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 68.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 11100.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
540.00	WATER 5% _m 95% _w	7.575

Total Length: 540.00 ft Total Volume: 7.575 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: chlorides 34,000



Gra Ex, L.L.C.

Ginrgrich #1 100' SE of SE SW SE(590' FSL & 1910' FEL) of Section 19-T23S-R15W - Pawnee County, KS

Casing Size:	Ran (104) Joints of New 5 1/2" (15.5#) J-55 & set casing @ 4164.5' (79.5' off bottom).										
LTD:	4245	Casing TD	4164.5	Elevation:	2048' GL - 2057' KB	21.93	< shoe jt - w/ guide shoe (21.93'+3.10')				

JT. #	Length	Csg. Tally	Top of Jt.	JT. #	Length	Csg. Tally	Top of Jt.	JT.#	Length	Csg. Tally	Top of Jt.
1	25.03	25.03	4139.47	50	40.16	1995.94	2168.56	100	40.15	4003.70	160.80
2	40.08	65.11	4099.39	51	40.16	2036.10	2128.40	101	40.16	4043.86	120.64
3	40.20	105.31	4059.19	52	40.19	2076.29	2088.21	102	40.17	4084.03	80.47
4	40.14	145.45	4019.05	53	40.16	2116.45	2048.05	103	40.16	4124.19	40.31
5	40.17	185.62	3978.88	54	40.17	2156.62	2007.88	104		4124.19	40.31
6	40.19	225.81	3938.69	55	40.18	2196.80	1967.70	105		4124.19	40.31
7	40.10	265.91	3898.59	56	40.17	2236.97	1927.53	106	30.46	4154.65	9.85
8	40.09	306.00	3858.50	57	40.14	2277.11	1887.39	LJ	15.29	4169.94	-5.44
9	40.16	346.16	3818.34	58	40.13	2317.24	1847.26				
10	40.19	386.35	3778.15	59	40.18	2357.42	1807.08				
11	40.17	426.52	3737.98	60	40.17	2397.59	1766.91				
12	40.18	466.70	3697.80	61	40.11	2437.70	1726.80				
13	40.14	506.84	3657.66	62	40.16	2477.86	1686.64				
14	40.19	547.03	3617.47	63	40.20	2518.06	1646.44				
15	40.16	587.19	3577.31	64	40.19	2558.25	1606.25				
16	40.15	627.34	3537.16	65	40.18	2598.43	1566.07				
17	40.16	667.50	3497.00	66	40.17	2638.60	1525.90				
18	40.19	707.69	3456.81	67	40.11	2678.71	1485.79				
19	40.15	747.84	3416.66	68	40.17	2718.88	1445.62				
20	40.17	788.01	3376.49	69	40.16	2759.04	1405.46				
21	40.16	828.17	3336.33	70	40.15	2799.19	1365.31				
22	40.17	868.34	3296.16	71	40.17	2839.36	1325.14				
23	40.16	908.50	3256.00	72	40.10	2879.46	1285.04				
DV	3.10	911.60	3262.90	73	40.17	2919.63	1244.87				
24	40.17	951.77	3212.73	74	40.18	2959.81	1204.69				
25	40.15	991.92	3172.58	75	40.15	2999.96	1164.54				
26	40.20	1032.12	3132.38	76	40.16	3040.12	1124.38				
27	40.17	1072.29	3092.21	77	40.17	3080.29	1084.21				
28	40.16	1112.45	3052.05	78	40.18	3120.47	1044.03				
29	40.17	1152.62	3011.88	79	40.17	3160.64	1003.86				
30	40.11	1192.73	2971.77	80	40.15	3200.79	963.71				
31	40.16	1232.89	2931.61	81	40.10	3240.89	923.61				
32	40.16	1273.05	2891.45	82	40.11	3281.00	883.50				
33	40.11	1313.16	2851.34	83	40.17	3321.17	843.33				
34	40.18	1353.34	2811.16	84	40.18	3361.35	803.15				
35	40.11	1393.45	2771.05	85	40.14	3401.49	763.01				
36	40.17	1433.62	2730.88	86	40.16	3441.65	722.85				
37	40.18	1473.80	2690.70	87	40.19	3481.84	682.66				
38	40.11	1513.91	2650.59	88	40.17	3522.01	642.49				
39	40.16	1554.07	2610.43	89	40.07	3562.08	602.42				
40	40.18	1594.25	2570.25	90	40.18	3602.26	562.24				
41	40.16	1634.41	2530.09	91	40.16	3642.42	522.08				
42	40.17	1674.58	2489.92	92	40.15	3682.57	481.93				
43	40.18	1714.76	2449.74	93	40.14	3722.71	441.79				
44	40.19	1754.95	2409.55	94	40.15	3762.86	401.64				
45	40.20	1795.15	2369.35	95	40.14	3803.00	361.50				
46	40.14	1835.29	2329.21	96	40.19	3843.19	321.31				
47	40.15	1875.44	2289.06	97	40.06	3883.25	281.25				
48	40.17	1915.61	2248.89	98	40.15	3923.40	241.10				
49	40.17	1955.78	2208.72	99	40.15	3963.55	200.95				

Totals	1955.78		2208.72		2007.77	3963.55	200.95	Totals	206.39	4169.94	4164.50
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Top Row of Pipe #1 - #106	Middle Row of Pipe NONE	Float Equipment >>>>>>>>	Pipe w/o Float Equipment
Rotating Scratchers:	None Used		Turbo Centralizers
Centralizers:	(10) Turbolizers run - See color code for locations	Basket:	2 Stage Cement Collar
Latch Down Insert Baffle:	Top of Shoe Joint	Packer Shoe:	Turbo (Loop) Scratcher
Equipment/Pipe Not Run:	(2) Joints (# 104 & #105), totaling 80.30' (on location).		Joints Out / Not Run
			Cement Basket

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AUG 11
KCC WICHITA