

KANSAS CORPORATION COMMISSION ORIGINAL
OIL & GAS CONSERVATION DIVISION

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 # 33629
Name: Great Plains Energy, Inc.
Address 1: 6121 South 58th Street, Ste. B
Address 2: _____
City: Lincoln State: NE Zip: 68516 + _____
Contact Person: Dan Blankenau
Phone: (402) 277-5336
CONTRACTOR: License # 33575
Name: WW Drilling, LLC
Wellsite Geologist: Richard Bell
Purchaser: MV Purchasing

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD SLOW
 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: _____
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____

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 #: _____

10/19/10	10/25/10	12/02/10
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 137-20533-00-00

Spot Description: _____
NE NW SE NW Sec. 32 Twp. 3 S. R. 23 East West
1,390 Feet from North / South Line of Section
1,920 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW

County: Norton
Lease Name: Persinger Well #: 5-32
Field Name: Wildcat
Producing Formation: Lansing
Elevation: Ground: 2435 Kelly Bushing: 2440
Total Depth: 3850 Plug Back Total Depth: 3850
Amount of Surface Pipe Set and Cemented at: 261 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 2038 Feet
If Alternate II completion, cement circulated from: 2038
feet depth to: Surface w/ 400 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 1400 ppm Fluid volume: 80 bbls
Dewatering method used: Air-dry then backfill for farming.

Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License #: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Permit #: _____

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: President Date: 5/17/11

KCC Office Use ONLY

RECEIVED
MAY 20 2011

Letter of Confidentiality Received
Date: _____
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: [Signature] Date: 5/25/11

KCC WICHITA

Operator Name: Great Plains Energy, Inc. Lease Name: Persinger Well #: 5-32
 Sec. 32 Twp. 3 S. R. 23 East West County: Norton

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: Dual Compensated Porosity, Dual Induction, Micro	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>Anhydrite</td> <td>2057</td> <td>+383</td> </tr> <tr> <td>Base Anhydrite</td> <td>2081</td> <td>+359</td> </tr> <tr> <td>Topeka</td> <td>3301</td> <td>-861</td> </tr> <tr> <td>Heebner</td> <td>3494</td> <td>-1054</td> </tr> <tr> <td>Toronto</td> <td>3525</td> <td>-1085</td> </tr> <tr> <td>LKC</td> <td>3538</td> <td>-1098</td> </tr> <tr> <td>Arbuckle</td> <td>3773</td> <td>-1333</td> </tr> </table>	Name	Top	Datum	Anhydrite	2057	+383	Base Anhydrite	2081	+359	Topeka	3301	-861	Heebner	3494	-1054	Toronto	3525	-1085	LKC	3538	-1098	Arbuckle	3773	-1333
Name	Top	Datum																							
Anhydrite	2057	+383																							
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Heebner	3494	-1054																							
Toronto	3525	-1085																							
LKC	3538	-1098																							
Arbuckle	3773	-1333																							

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 1/2"	8 5/8	23	261	Common	180	6%NACL, 3% gel
Production	7 7/8"	5 1/2	14	3849	OWC	160	10%NACL, 2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	2036-surface	60/40 Poz	400	8% gel, 1/4# flo-seal

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
4	3768-3772, 39 gram charges	250 gal. 15% MCA	
4	3774-3777, 39 gram charges	None	
4	3758-3761, 39 gram charges	500 gal 15% MCA	
4	3604-3607, 39 gram charges	250 gal. 15% MCA, 1000 gal. 15% NE	

TUBING RECORD:		Size: <u>2 1/8"</u>	Set At: <u>3697</u>	Packer At: <u>N/A</u>	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>12/20/10</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls. <u>46</u>	Gas Mcf	Water Bbls. <u>3</u>	Gas-Oil Ratio <u>N/A</u>	Gravity <u>N/A</u>

DISPOSITION OF GAS: <input checked="" type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" 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>3604-3607</u> RECEIVED MAY 20 2011 KCC WICHITA
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ALLIED CEMENTING CO., LLC. 042015

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Russell KS

DATE <u>10-19-10</u>	SEC. <u>32</u>	TWP. <u>3</u>	RANGE <u>23</u>	CALLED OUT	ON LOCATION	JOB START <u>5:00pm</u>	JOB FINISH <u>5:30pm</u>
<u>Pensinger LEASE</u>	WELL # <u>5-32</u>	LOCATION <u>Northern KS 6 South 3 West</u>			COUNTY <u>Norton</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)			<u>1 North East and South into</u>				

CONTRACTOR WV Rig #8

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 261'

CASING SIZE 8 7/8 DEPTH 261'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 15.6

OWNER

CEMENT

AMOUNT ORDERED 180 com 3% CC 2% GA

COMMON	<u>180</u>	@	<u>13.50</u>	<u>2430.00</u>
POZMIX		@		
GEL	<u>3</u>	@	<u>20.25</u>	<u>60.75</u>
CHLORIDE	<u>6</u>	@	<u>51.50</u>	<u>309.00</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>180</u>	@	<u>2.25</u>	<u>405.00</u>
MILEAGE	<u>1080 miles</u>			<u>1080.00</u>
				TOTAL <u>4284.75</u>

EQUIPMENT

PUMP TRUCK CEMENTER John Roberts

399 HELPER Richard TWS

BULK TRUCK

482/188 DRIVER Brad TWS

BULK TRUCK

DRIVER

REMARKS:

Est. Circulation

Mix 180 sk cement

Displace w/ 15.5 Bbl H2O.

Cement Did Circulate!

Thank You!

CHARGE TO: Great Plains Energy

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>991.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>60</u>	@	<u>7.00</u> <u>420.00</u>
MANIFOLD		@	
		@	
		@	

RECEIVED

MAY 20 2011 TOTAL 1411.00

KCC WICHITA
PLUG & FLOAT EQUIPMENT

	@		
	@		
	@		
	@		



CONSOLIDATED
Oil Well Services, LLC

NOV 0 1 2010

TICKET NUMBER 28640
LOCATION Oakley Ks
FOREMAN Pat Heisler

PO Box 884, Chanute, KS 66720
6. 31-4210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-26-10	3282	Persinger 5-32	32	33	23 rd	Norton

CUSTOMER	TRUCK #	DRIVER	TRUCK #	DRIVER
Great Plains Energy, Inc. MAILING ADDRESS P.O. Box 292 CITY Wahon STATE Nebr ZIP CODE 68066	463	Skinner F		
	466-T127	Miles S		
	460	Dave		

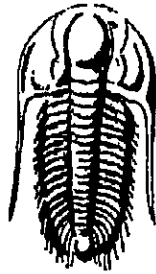
JOB TYPE Prod. DV-0 HOLE SIZE 7 7/8 HOLE DEPTH 3850' CASING SIZE & WEIGHT 5 1/2" - 14 #
 CASING DEPTH 3849' DRILL PIPE _____ TUBING _____ OTHER DV 2 2038'
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 21.55
 DISPLACEMENT 95 3/4 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety Meeting, run float equipment, Rig up to Circ 5 1/2 casing
For 1 1/2 hrs,
Pump 500 gal WFR-2, 20 BBL H₂O, mix 160 sks OWC, 10% Salt, 2% Cal
Clear Pump + 2 hrs; Displace 45 BBL water + 51 BBL mud @ 650 #,
landed Plug @ 1250 #, release pressure, float hold
Open DV Tool Circ. 3 Hrs;
mix 25 sks cement in R.H.
mix 400 sks 60% pro, 8% Cal, 44 # Flo-Seal Down 5 1/2 @ 800 # max
landed Plug @ 1500 #, release pressure, hold
Cement Did Circ.
Thank You
Pat + Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	2730 ⁰⁰	2730 ⁰⁰
5406	65 miles	MILEAGE	4 ⁵⁰	292 ⁵⁰
1126	160 sks	OWC	20 ³⁵	3256 ⁰⁰
1131	425 sks	60% pro	13 ⁰⁰	5525 ⁰⁰
118B	3230 #	Bentonite Gel	120	646 ⁰⁰
1111	725 #	Salt	140	290 ⁰⁰
1107	106 #	Flo-Seal	250	265 ⁰⁰
? 1144C	500 gal	Mud Flush	100	500 ⁰⁰
5407A	25.80	Ton Mileage Delivery	150	2,515 ⁵⁰
4158	1	5 1/2 - AFU float shoe	341 ⁰⁰	341 ⁰⁰
4130	10	5 1/2 - Centralizers	56 ⁰⁰	560 ⁰⁰
4104	3	5 1/2 Baskets	263 ⁰⁰	789 ⁰⁰
4277	1	DV Tool	3670 ⁰⁰	3670 ⁰⁰
		Subtotal		21,380.00
		Less 20% Disc		-4,276.00
				17,104.00
				1116.86
				18,220.86

RECEIVED
MAY 20 2011
KCC WICHITA
SALES TAX ESTIMATED TOTAL

AUTHORIZATION [Signature] TITLE _____ DATE _____
 I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this for



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy, Inc.**

PO Box 292
Wahoo, NE 68066

ATTN: Clayton Erickson

32-3s-23w Norton,KS

Persinger #5-32

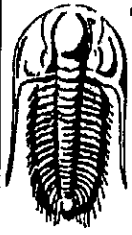
Start Date: 2010.10.22 @ 21:15:09

End Date: 2010.10.23 @ 04:11:39

Job Ticket #: 40876 DST #: 1

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

RECEIVED
MAY 20 2011
KCC WICHITA



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Great Plains Energy, Inc.

Persinger #5-32

PO Box 292
Wahoo, NE 68066

32-3s-23w Norton, KS

Job Ticket: 40876

DST#: 1

ATTN: Clayton Erickson

Test Start: 2010.10.22 @ 21:15:09

GENERAL INFORMATION:

Formation: Toronto-C

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:36:39

Time Test Ended: 04:11:39

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 54

Interval: 3487.00 ft (KB) To 3575.00 ft (KB) (TVD)

Total Depth: 3575.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2440.00 ft (KB)

2435.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6668

Inside

Press@RunDepth: 76.89 psig @ 3554.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.10.22

End Date:

2010.10.23

Last Calib.: 2010.10.23

Start Time: 21:15:11

End Time:

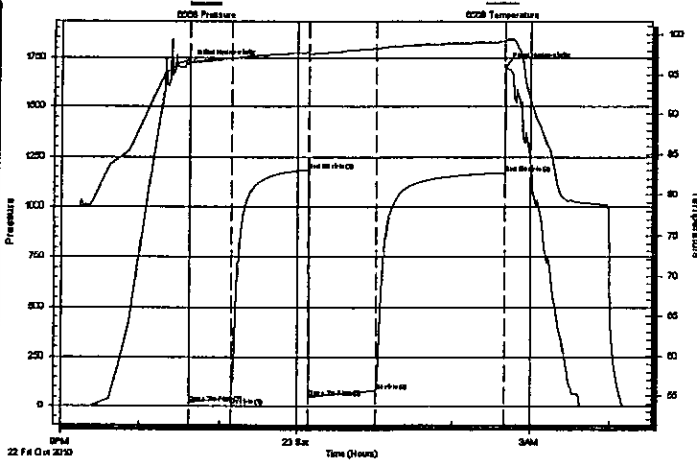
04:11:39

Time On Btm: 2010.10.22 @ 22:36:24

Time Off Btm: 2010.10.23 @ 02:40:39

TEST COMMENT: IFP-Weak Blow Built to 1"
ISI-Dead
FFP-Weak Blow Built to 1/2"
FSI-Dead

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1722.06	96.93	Initial Hydro-static
1	16.77	96.03	Open To Flow (1)
33	42.55	97.04	Shut-In(1)
92	1183.62	97.81	End Shut-In(1)
92	45.26	97.53	Open To Flow (2)
145	76.89	98.28	Shut-In(2)
244	1170.00	99.12	End Shut-In(2)
245	1710.53	99.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	Drilling Mud	0.63

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mct/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy, Inc.

Persinger #5-32

PO Box 292
Wahoo, NE 68066

32-3s-23w Norton, KS

Job Ticket: 40876

DST#: 1

ATTN: Clayton Erickson

Test Start: 2010.10.22 @ 21:15:09

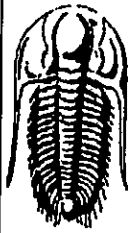
Tool Information

Drill Pipe:	Length: 3353.00 ft	Diameter: 3.80 inches	Volume: 47.03 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 47.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3487.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	88.00 ft			
Tool Length:	116.00 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			3460.00	
Shut In Tool	5.00			3465.00	
Hydraulic tool	5.00			3470.00	
Jars	5.00			3475.00	
Safety Joint	2.00			3477.00	
Packer	5.00			3482.00	28.00 Bottom Of Top Packer
Packer	5.00			3487.00	
Stubb	1.00			3488.00	
Perforations	2.00			3490.00	
Change Over Sub	1.00			3491.00	
Blank Spacing	62.00			3553.00	
Change Over Sub	1.00			3554.00	
Recorder	0.00	6668	Inside	3554.00	
Recorder	0.00	8673	Outside	3554.00	
Perforations	18.00			3572.00	
Bullnose	3.00			3575.00	88.00 Bottom Packers & Anchor
Total Tool Length:	116.00				



**TRIOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy, Inc.

Persinger #5-32

PO Box 292
Wahoo, NE 68066

32-3s-23w Norton, KS

Job Ticket: 40876

DST#: 1

ATTN: Clayton Erickson

Test Start: 2010.10.22 @ 21:15:09

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: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	Drilling Mud	0.633

Total Length: 125.00 ft

Total Volume: 0.633 bbl

Num Fluid Samples: 0

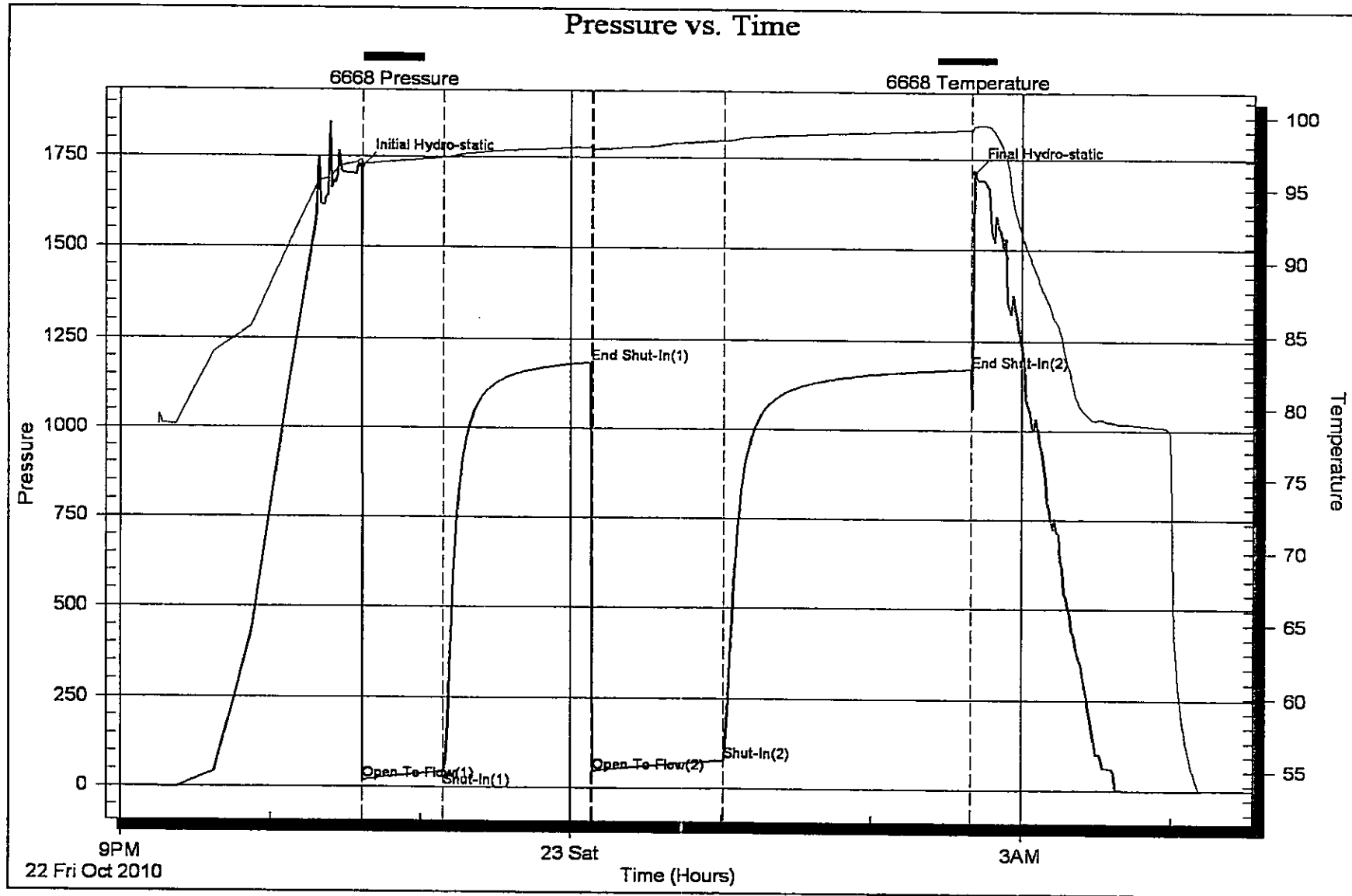
Num Gas Bombs: 0

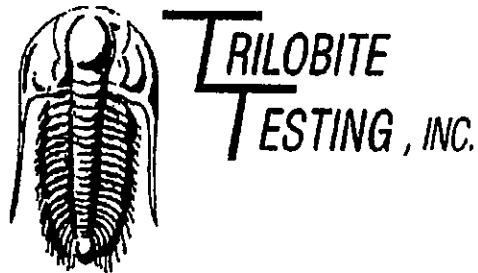
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy, Inc.**

PO Box 292
Wahoo, NE 68066

ATTN: Clayton Erickson

32-3s-23w Norton,KS

Persinger #5-32

Start Date: 2010.10.23 @ 14:04:35

End Date: 2010.10.23 @ 22:01:20

Job Ticket #: 40877 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Great Plains Energy, Inc.

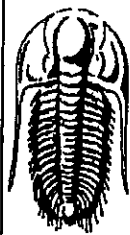
Persinger #5-32

32-3s-23w Norton,KS

DST # 2

E-F

2010.10.23



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Great Plains Energy, Inc.

Persinger #5-32

PO Box 292
Wahoo, NE 68066

32-3s-23w Norton, KS

ATTN: Clayton Erickson

Job Ticket: 40877

DST#: 2

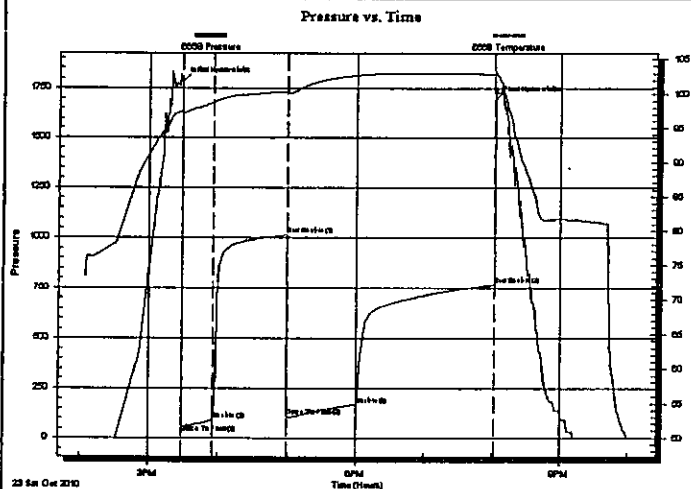
Test Start: 2010.10.23 @ 14:04:35

GENERAL INFORMATION:

Formation: E-F
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole
 Time Tool Opened: 15:28:50 Tester: Jason McLemore
 Time Test Ended: 22:01:20 Unit No: 54
 Interval: 3588.00 ft (KB) To 3628.00 ft (KB) (TVD) Reference Elevations: 2440.00 ft (KB)
 Total Depth: 3628.00 ft (KB) (TVD) 2435.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 6668 Inside
 Press@RunDepth: 169.12 psig @ 3625.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.10.23 End Date: 2010.10.23 Last Calib.: 2010.10.23
 Start Time: 14:04:37 End Time: 22:01:20 Time On Btm: 2010.10.23 @ 15:28:35
 Time Off Btm: 2010.10.23 @ 20:03:05

TEST COMMENT: IFP-Good Blow ,BOB in 8 Min.
 ISI-Blow back Built to 6"
 FP-Good Blow ,BOB in 11 Min.
 FSI-Blow back Built to 5"



PRESSURE SUMMARY

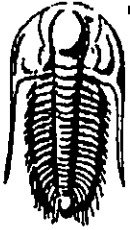
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1786.28	97.61	Initial Hydro-static
1	22.48	97.09	Open To Flow (1)
28	91.14	98.81	Shut-In(1)
90	1013.57	100.38	End Shut-In(1)
91	107.80	100.20	Open To Flow (2)
152	169.12	102.69	Shut-In(2)
274	766.07	102.88	End Shut-In(2)
275	1693.57	103.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Mud Cut Oil-50%O-50%M	0.59
270.00	Clean Oil	3.76
0.00	510' Gas In Pipe	0.00

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy, Inc.

Persinger #5-32

PO Box 292
Wahoo, NE 68066

32-3s-23w Norton, KS

Job Ticket: 40877

DST#: 2

ATTN: Clayton Erickson

Test Start: 2010.10.23 @ 14:04:35

Tool Information

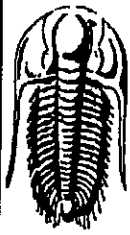
Drill Pipe:	Length: 3447.00 ft	Diameter: 3.80 inches	Volume: 48.35 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 45000.00 lb
		Total Volume: 48.95 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3588.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	68.00 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			3561.00	
Shut In Tool	5.00			3566.00	
Hydraulic tool	5.00			3571.00	
Jars	5.00			3576.00	
Safety Joint	2.00			3578.00	
Packer	5.00			3583.00	28.00 Bottom Of Top Packer
Packer	5.00			3588.00	
Stubb	1.00			3589.00	
Perforations	2.00			3591.00	
Change Over Sub	1.00			3592.00	
Blank Spacing	32.00			3624.00	
Change Over Sub	1.00			3625.00	
Recorder	0.00	6668	Inside	3625.00	
Recorder	0.00	8673	Outside	3625.00	
Bullnose	3.00			3628.00	40.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy, Inc.

Persinger #5-32

PO Box 292
Wahoo, NE 68066

32-3s-23w Norton, KS

Job Ticket: 40877

DST#: 2

ATTN: Clayton Erickson

Test Start: 2010.10.23 @ 14:04:35

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil APt

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Mud Cut Oil-50%O-50%M	0.590
270.00	Clean Oil	3.760
0.00	510' Gas In Pipe	0.000

Total Length: 390.00 ft

Total Volume: 4.350 bbl

Num Fluid Samples: 0

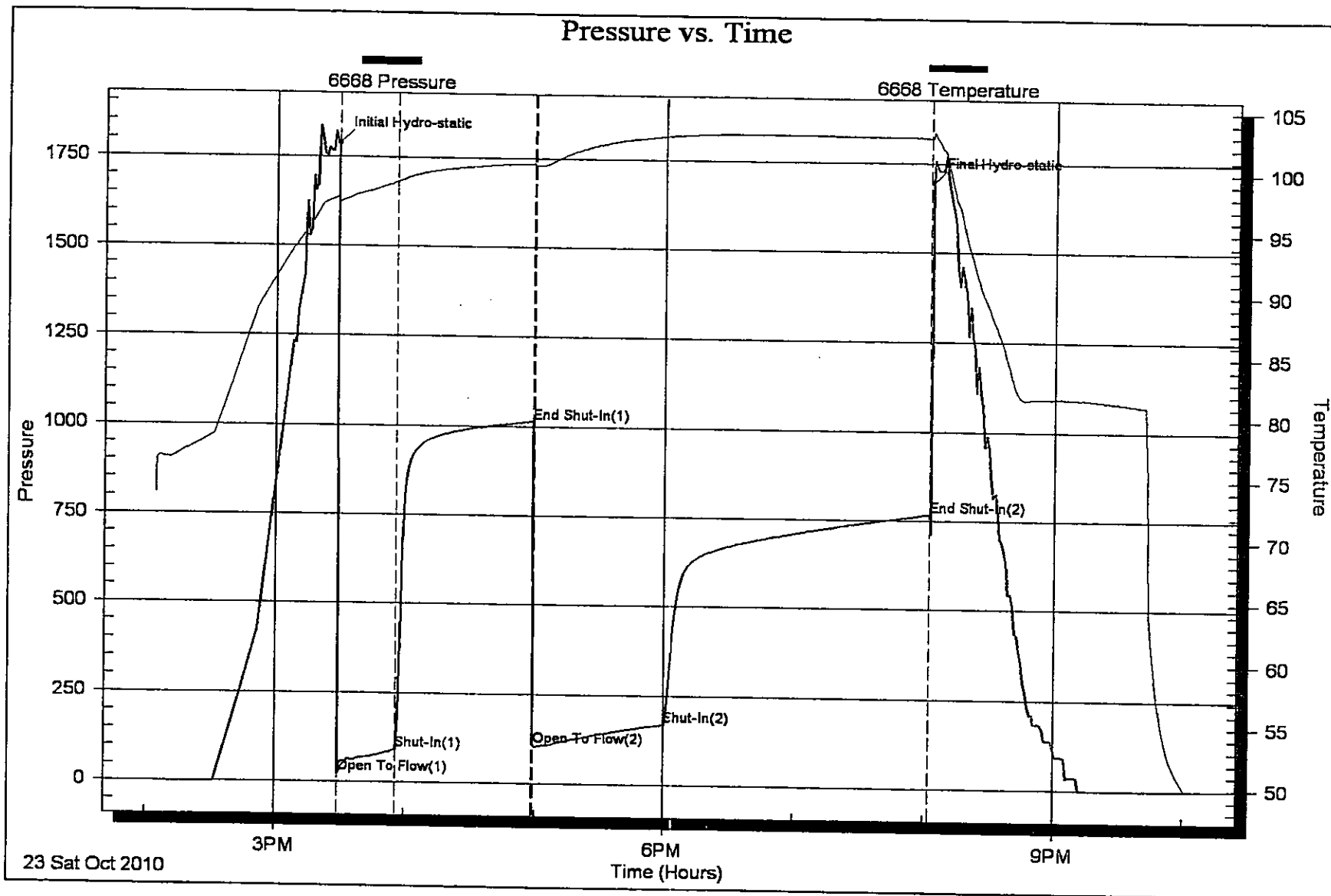
Num Gas Bombs: 0

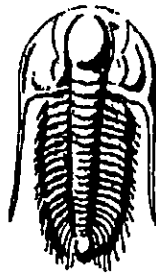
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy, Inc.**

PO Box 292
Wahoo, NE 68066

ATTN: Clayton Erickson

32-3s-23w Norton, KS

Persinger #5-32

Start Date: 2010.10.24 @ 13:09:44

End Date: 2010.10.24 @ 20:23:29

Job Ticket #: 40878 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Great Plains Energy, Inc.

Persinger #5-32

32-3s-23w Norton, KS

DST # 3

Gorham Sand

2010.10.24



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Great Plains Energy, Inc.

Persinger #5-32

PO Box 292
Wahoo, NE 68066

32-3s-23w Norton, KS

Job Ticket: 40878

DST#: 3

ATTN: Clayton Erickson

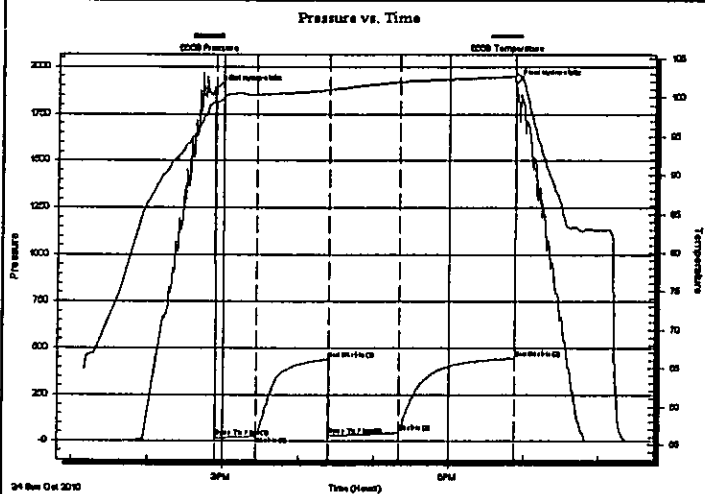
Test Start: 2010.10.24 @ 13:09:44

GENERAL INFORMATION:

Formation: Gorham Sand
 Deviated: No Whipstock ft (KB)
 Time Tool Opened: 14:53:29
 Time Test Ended: 20:23:29
 Interval: 3754.00 ft (KB) To 3773.00 ft (KB) (TVD)
 Total Depth: 3773.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole
 Tester: Jason McLemore
 Unit No: 54
 Reference Elevations: 2440.00 ft (KB)
 2435.00 ft (CF)
 KB to GRVCF: 5.00 ft

Serial #: 6668 Inside
 Press@RunDepth: 44.83 psig @ 3757.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2010.10.24 End Date: 2010.10.24 Last Calib.: 2010.10.24
 Start Time: 13:09:46 End Time: 20:23:29 Time On Btm: 2010.10.24 @ 14:52:59
 Time Off Btm: 2010.10.24 @ 18:53:14

TEST COMMENT: FP-Weak Blow ,Built to 3"
 ISI-Dead
 FFP-Weak Blow ,Built to 3"
 FSI-Dead



PRESSURE SUMMARY

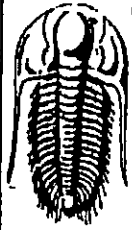
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1882.09	99.59	Initial Hydro-static
1	22.15	99.12	Open To Flow (1)
33	25.15	100.34	Shut-in(1)
91	439.91	100.92	End Shut-In(1)
91	31.79	100.88	Open To Flow (2)
148	44.83	102.02	Shut-in(2)
240	444.32	102.66	End Shut-In(2)
241	1912.48	103.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Muddy Oil-80%O-20%M	0.02
85.00	Clean Oil	0.42

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy, Inc.

Persinger #5-32

PO Box 292
Wahoo, NE 68066

32-3s-23w Norton, KS

ATTN: Clayton Erickson

Job Ticket: 40878

DST#: 3

Test Start: 2010.10.24 @ 13:09:44

Tool Information

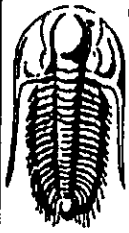
Drill Pipe:	Length: 3631.00 ft	Diameter: 3.80 inches	Volume: 50.93 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 51.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3754.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	47.00 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			3727.00	
Shut In Tool	5.00			3732.00	
Hydraulic tool	5.00			3737.00	
Jars	5.00			3742.00	
Safety Joint	2.00			3744.00	
Packer	5.00			3749.00	28.00 Bottom Of Top Packer
Packer	5.00			3754.00	
Stubb	1.00			3755.00	
Perforations	2.00			3757.00	
Recorder	0.00	6668	Inside	3757.00	
Recorder	0.00	8673	Outside	3757.00	
Perforations	13.00			3770.00	
Bullnose	3.00			3773.00	19.00 Bottom Packers & Anchor

Total Tool Length: 47.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy, Inc.

Persinger #5-32

PO Box 292
Wahoo, NE 68066

32-3s-23w Norton, KS

Job Ticket: 40878

DST#: 3

ATTN: Clayton Erickson

Test Start: 2010.10.24 @ 13:09:44

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	Muddy Oil-80%O-20%M	0.025
85.00	Clean Oil	0.418

Total Length: 90.00 ft Total Volume: 0.443 bbf

Num Fluid Samples: 0

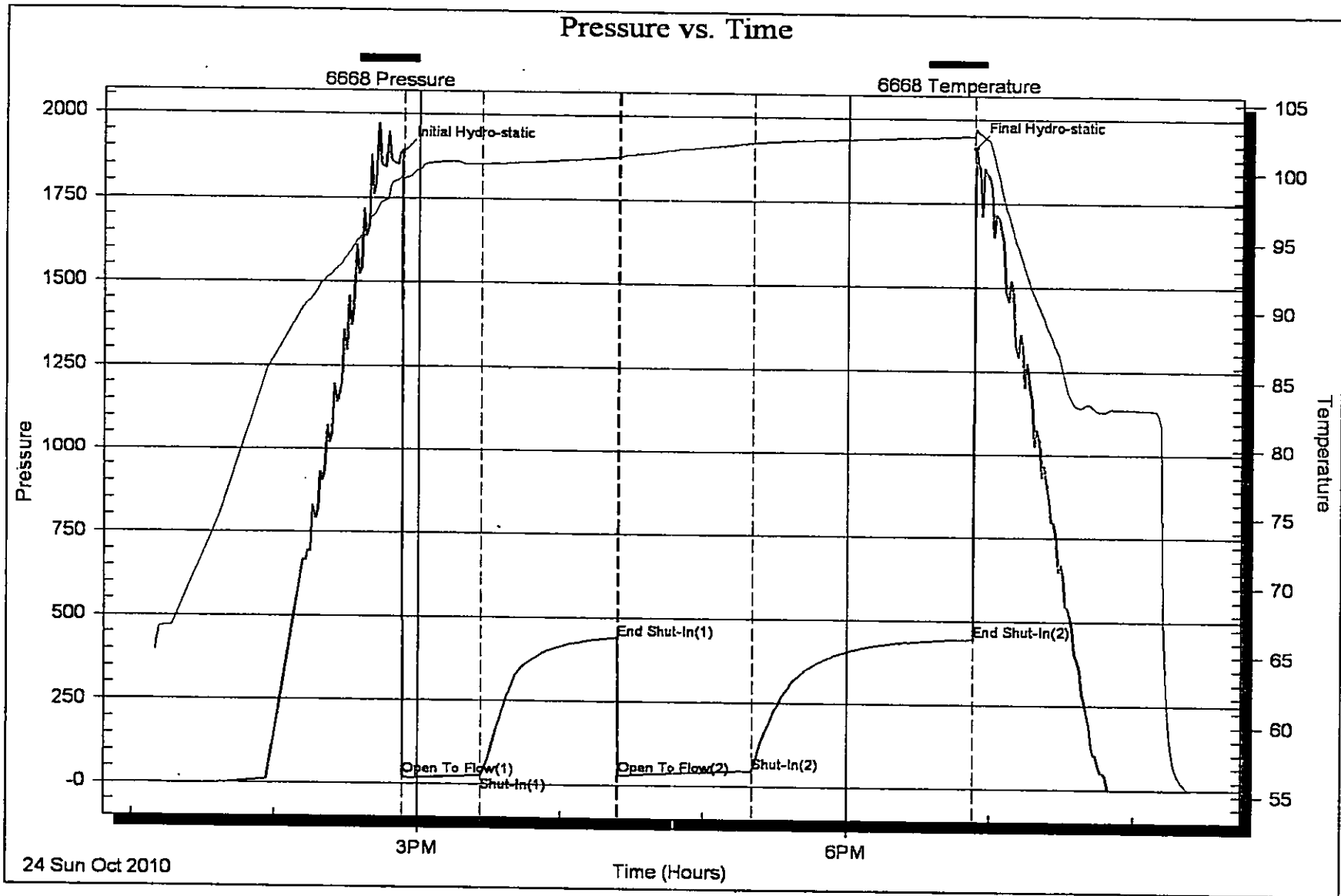
Num Gas Bombs: 0

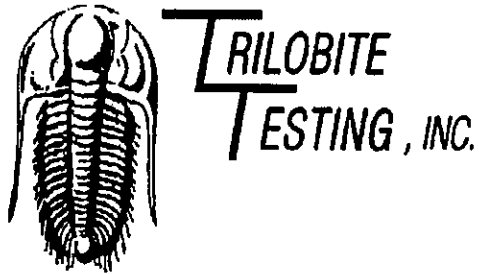
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy, Inc.**

PO Box 292
Wahoo, NE 68066

ATTN: Clayton Erickson

32-3s-23w Norton, KS

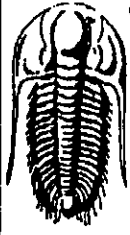
Persinger #5-32

Start Date: 2010.10.25 @ 01:14:15

End Date: 2010.10.25 @ 07:41:45

Job Ticket #: 40879 DST #: 4

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Great Plains Energy, Inc.

Persinger #5-32

PO Box 292
Wahoo, NE 68066

32-3s-23w Norton, KS

Job Ticket: 40879

DST#: 4

ATTN: Clayton Erickson

Test Start: 2010.10.25 @ 01:14:15

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: **03:14:15**

Time Test Ended: **07:41:45**

Test Type: **Conventional Bottom Hole**

Tester: **Jason McLemore**

Unit No: **54**

Interval: **3774.00 ft (KB) To 3783.00 ft (KB) (TVD)**

Total Depth: **3783.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2440.00 ft (KB)**

2435.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6668

Inside

Press@RunDepth: **351.07 psig @ 3777.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.10.25**

End Date:

2010.10.25

Last Calib.: **2010.10.25**

Start Time: **01:14:17**

End Time:

07:41:45

Time On Btm: **2010.10.25 @ 03:14:00**

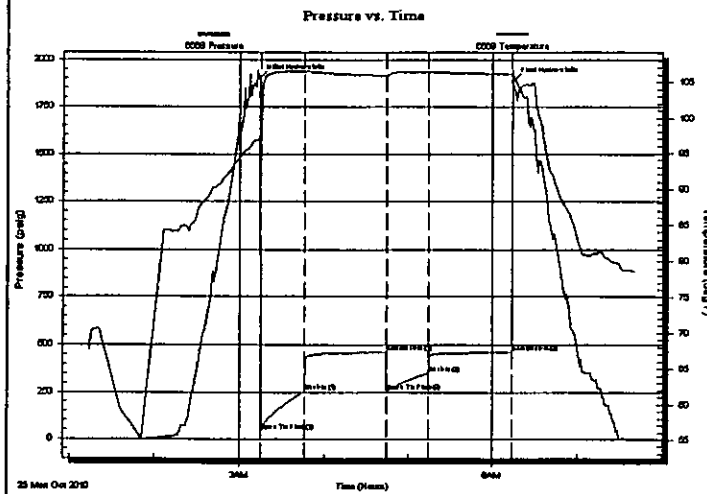
Time Off Btm: **2010.10.25 @ 06:14:45**

TEST COMMENT: IFP-Strong BOB in 5 Min.

ISI-Dead

FFP-Good Blow BOB in 11 Min.

FSI-Dead



PRESSURE SUMMARY

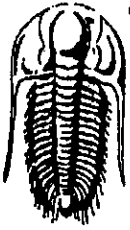
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1902.15	97.24	Initial Hydro-static
1	39.14	96.56	Open To Flow (1)
32	251.09	106.46	Shut-in(1)
90	458.60	105.81	End Shut-in(1)
91	254.70	105.78	Open To Flow (2)
121	351.07	106.39	Shut-in(2)
180	458.86	106.06	End Shut-in(2)
181	1885.85	106.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
660.00	Muddy Water-95%W-5%M	8.14
5.00	Clean Oil	0.07

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy, Inc.

Persinger #5-32

PO Box 292
Wahoo, NE 68066

32-3s-23w Norton, KS

Job Ticket: 40879

DST#: 4

ATTN: Clayton Erickson

Test Start: 2010.10.25 @ 01:14:15

Tool Information

Drill Pipe:	Length: 3631.00 ft	Diameter: 3.80 inches	Volume: 50.93 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	50000.00 lb
		Total Volume:	51.53 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3774.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	9.00 ft				
Tool Length:	37.00 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			3747.00	
Shut In Tool	5.00			3752.00	
Hydraulic tool	5.00			3757.00	
Jars	5.00			3762.00	
Safety Joint	2.00			3764.00	
Packer	5.00			3769.00	28.00 Bottom Of Top Packer
Packer	5.00			3774.00	
Stubb	1.00			3775.00	
Perforations	2.00			3777.00	
Recorder	0.00	6668	Inside	3777.00	
Recorder	0.00	8673	Outside	3777.00	
Perforations	3.00			3780.00	
Bullnose	3.00			3783.00	9.00 Bottom Packers & Anchor

Total Tool Length: 37.00



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Job Ticket: 40879

DST#: 4

ATTN: Clayton Erickson

Test Start: 2010.10.25 @ 01:14:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

64000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
660.00	Muddy Water-95%W-5%M	8.138
5.00	Clean Oil	0.070

Total Length: 665.00 ft

Total Volume: 8.208 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

