



KANSAS CORPORATION COMMISSION 1075488
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 S 58th ST, STE B
Address 2: _____
City: LINCOLN State: NE Zip: 68516 + _____
Contact Person: Dan Blankenau
Phone: (402) 443-6125
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: Richard Bell
Purchaser: N/A

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: _____
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 #: _____
09/10/2011 09/16/2011 09/16/2011
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-039-21142-00-00
Spot Description: _____
SW NW NE NE Sec. 20 Twp. 1 S. R. 27 East West
340 Feet from North / South Line of Section
1270 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Decatur
Lease Name: Cathcart Well #: 1-20
Field Name: _____
Producing Formation: Dry hole
Elevation: Ground: 2546 Kelly Bushing: 2547
Total Depth: 3670 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 259 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: _____ Feet
If Alternate II completion, cement circulated from: _____
feet depth to: _____ w/ _____ sx cml.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 800 ppm Fluid volume: 800 bbls
Dewatering method used: Evaporated
Location of fluid disposal if hauled offsite:
Operator Name: _____
Lease Name: _____ License #: _____
Quarter _____ Sec. _____ Twp. _____ S. 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

Letter of Confidentiality Received
Date: _____
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: Deanna Garcia Date: 03/01/2012



1075488

Operator Name: Great Plains Energy, Inc. Lease Name: Cathcart Well #: 1-20
 Sec. 20 Twp. 1 S. R. 27 East West County: Decatur

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 Wire-line 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Compensated Density Dual Induction Micro	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum Attached Attached Attached
--	--

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	12.25	8.625	23	259	Common	185	3%cc, 2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
— Perforate				
— Protect Casing	-			
— Plug Back TD				
— 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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
----------------	-------	---------	------------	---

Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____
Estimated Production Per 24 Hours	Oil Bbbs. Gas Mcf Water Bbbs. Gas-Oil Ratio Gravity

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 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: _____ _____
---	---	--

Form	ACO1 - Well Completion
Operator	Great Plains Energy, Inc.
Well Name	Cathcart 1-20
Doc ID	1075488

Tops

Ahydrite	1954	+593
Base	1978	+569
Topeka	3098	-551
Heebner	3208	-661
Toronto	3235	-688
LKC	3649	-702
Base LKC	3459	-912
Granite	3607	-1060

ALLIED CEMENTING CO., LLC. 035988

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

SERVICE POINT: Clark Co, Mo

DATE <u>9/16/11</u>	SEC. <u>20</u>	TWP. <u>1</u>	RANGE <u>27</u>	CALLLED OUT	ON LOCATION	JOB START <u>5:30am</u>	JOB FINISH <u>6:30am</u>
LEASE <u>Cathcart</u>	WELL # <u>120</u>	LOCATION <u>0.62mi NE 9N 14E</u>			COUNTY <u>De Witt</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)				<u>Siato</u>			

CONTRACTOR Muffin 3

TYPE OF JOB PTA

HOLE SIZE 2 1/2 T.D.

CASING SIZE 8 7/8 DEPTH 259'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER Same

CEMENT

AMOUNT ORDERED 210 com

47 gal. 1/4 P.O. Seal

COMMON 132 @ 16.25 2145.00

POZMIX 88 @ 8.50 748.00

GEL 8 @ 21.25 170.00

CHLORIDE

ASC

P.O. Seal 55lb @ 2.20 1198.50

HANDLING 230 lbs @ 2.25 517.50

MILEAGE 114.52/mile @ 2.25 2576.50

TOTAL 5753.00

EQUIPMENT

PUMP TRUCK CEMENTER Alto

422 HELPER Wayne

BULK TRUCK

404 DRIVER Earl

BULK TRUCK

DRIVER

REMARKS:

25.5K @ 1965'

100 lbs @ 13.50'

40 lbs @ 3.00'

10 lbs @ 40'

30 lbs B Hole

20 lbs M Hole

Thank to

Al, Wayne, Earl

SERVICE

DEPTH OF JOB 1965

PUMP TRUCK CHARGE 1250.00

EXTRA FOOTAGE

MILEAGE 80 x 2 @ 7.00 1120.00

MANIFOLD

Lite Labick 80 x 2 @ 4.00 640.00

TOTAL 3010.00

CHARGE TO: Great Plains Energy

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

898 Wood Plug @ 92.00

TOTAL

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME

SIGNATURE Kurt Van Belt

SALES TAX (if Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS



ALLIED

OIL & GAS SERVICES, LLC

71730

INVOICE

24 S. Lincoln Street
P.O. Box 31
Russell, KS 67665-2906
Voice: (817) 546-7282
Fax: (817) 246-3361

SEP 2 2011

Invoice Number: 128617
Invoice Date: Sep 16, 2011
Page: 1

Bill To:
Great Plains Energy, Inc. P.O. Box 292 429 N. Linden Wahoo, NE 68066

Customer ID	Well Name# or Customer P.O.	Payment Terms	
GrPIEn	Cathcart #1-20	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Sep 16, 2011	10/16/11

Quantity	Item	Description	Unit Price	Amount
132.00	MAT	Class A Common	16.25	2,145.00
88.00	MAT	Pozmix	8.50	748.00
8.00	MAT	Gel	21.25	170.00
55.00	MAT	Flo Seal	2.70	148.50
230.00	SER	Handling	2.25	517.50
80.00	SER	Mileage	25.30	2,024.00
1.00	SER	Plug To Abandon	1,250.00	1,250.00
160.00	SER	Heavy Vehicle Mileage	7.00	1,120.00
160.00	SER	Light Vehicle Mileage	4.00	640.00
1.00	EQP	8 5/8 Wooden Plug	92.00	92.00
1.00	CEMENTER	Alan Ryan		
1.00	EQUIP OPER	Wayne McGhghy		
1.00	OPER ASSIST	Earl Rebarchek		

(Remainder Sample)

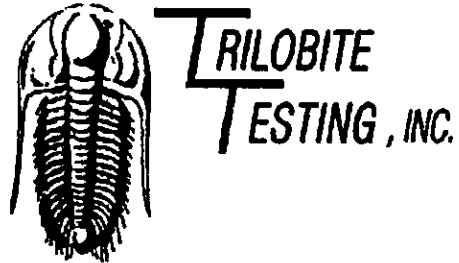
DN

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 1771.00

ONLY IF PAID ON OR BEFORE
Oct 11, 2011

Subtotal	8,855.00
Sales Tax	646.42
Total Invoice Amount	9,501.42
Payment/Credit Applied	
TOTAL	9,501.42



DRILL STEM TEST REPORT

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

6121 South 58th St. STE B
Lincoln, NE 68516

ATTN: Richard Bell

Cathcart #1-20

20-1s-27w Decatur,KS

Start Date: 2011.09.14 @ 09:52:00

End Date: 2011.09.14 @ 16:07:00

Job Ticket #: 43796 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2011.09.21 @ 08:35:31

Great Plains Energy, Inc 20-1s-27w Decatur,KS Cathcart #1-20 DST # 1 LKC "A" 2011.09.14



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Great Plains Energy, Inc

20-1s-27w Decatur, KS

6121 South 58th St. STE B
Lincoln, NE 68516

Cathcart #1-20

Job Ticket: 43796

DST#: 1

ATTN: Richard Bell

Test Start: 2011.09.14 @ 09:52:00

GENERAL INFORMATION:

Formation: LKC "A"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:16:30

Time Test Ended: 16:07:00

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 46

Interval: 3207.00 ft (KB) To 3258.00 ft (KB) (TVD)

Total Depth: 3258.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2551.00 ft (KB)

2546.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press@RunDepth: 22.46 psig @ 3208.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.09.14

End Date:

2011.09.14

Last Calib.: 2011.09.14

Start Time: 09:52:05

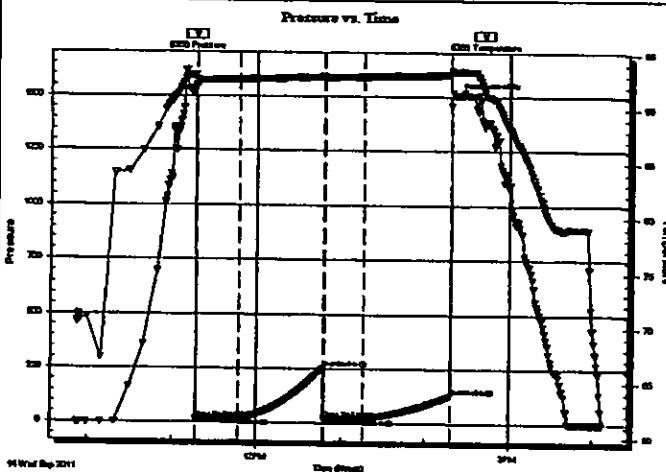
End Time:

16:06:59

Time On Btm: 2011.09.14 @ 11:14:00

Time Off Btm: 2011.09.14 @ 14:23:00

TEST COMMENT: 30 - IF: Blow built to 1/2" in 15 min., died back to 1/4" at close
60 - IS: No blow back
30 - FF: No blow
60 - FSt: No blow back



PRESSURE SUMMARY

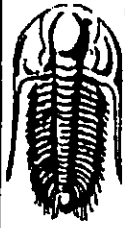
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1520.56	93.05	Initial Hydro-static
3	16.97	92.68	Open To Flow (1)
33	21.17	92.68	Shut-In(1)
93	253.33	92.96	End Shut-In(1)
94	21.66	92.88	Open To Flow (2)
122	22.46	92.96	Shut-In(2)
184	128.30	93.17	End Shut-In(2)
189	1505.97	93.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OCM 88% m, 12% o	0.03

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy, Inc

20-1s-27w Decatur, KS

6121 South 58th St. STE B
Lincoln, NE 68516

Cathcart #1-20

Job Ticket: 43796

DST#: 1

ATTN: Richard Bell

Test Start: 2011.09.14 @ 09:52:00

Tool Information

Drill Pipe:	Length: 2680.00 ft	Diameter: 3.80 inches	Volume: 37.59 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 517.00 ft	Diameter: 2.50 inches	Volume: 3.14 bbl	Weight to Pull Loose: 62000.00 lb
			Total Volume: 40.73 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3207.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	79.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3184.00	
Hydraulic tool	5.00			3189.00	
Jars	5.00			3194.00	
Safety Joint	3.00			3197.00	
Packer	5.00			3202.00	28.00 Bottom Of Top Packer
Packer	5.00			3207.00	
Stubb	1.00			3208.00	
Recorder	0.00	8366	Inside	3208.00	
Recorder	0.00	8320	Outside	3208.00	
Perforations	15.00			3223.00	
Blank Spacing	32.00			3255.00	
Bullnose	3.00			3258.00	51.00 Bottom Packers & Anchor
Total Tool Length:	79.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy, Inc

20-1s-27w Decatur,KS

6121 South 58th St. STE B
Lincoln, NE 68516

Cathcart #1-20

Job Ticket: 43796

DST#: 1

ATTN: Richard Bell

Test Start: 2011.09.14 @ 09:52:00

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: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 5.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OCM 88% m, 12% o	0.030

Total Length: 5.00ft Total Volume: 0.030 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

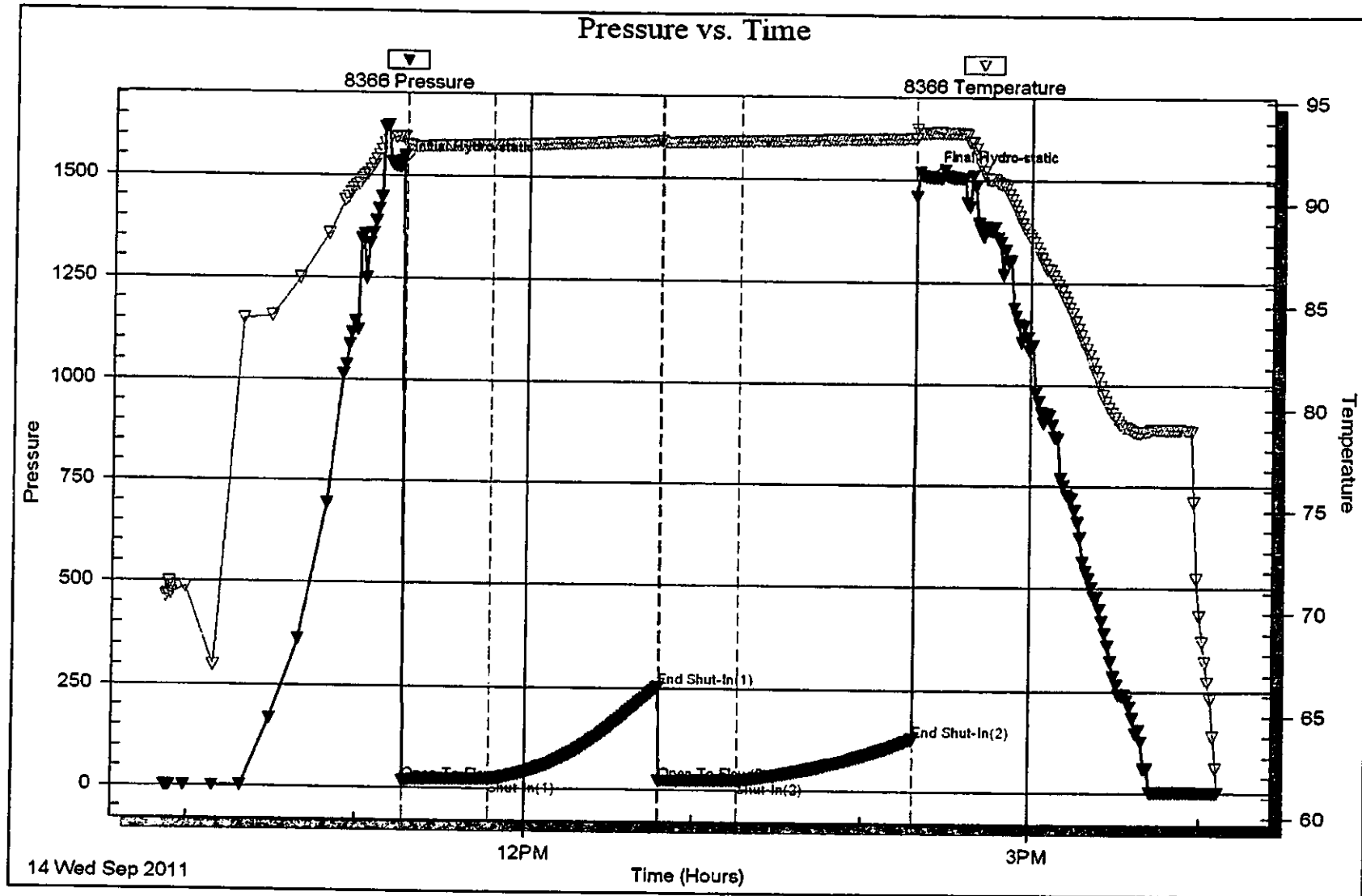
Recovery Comments:

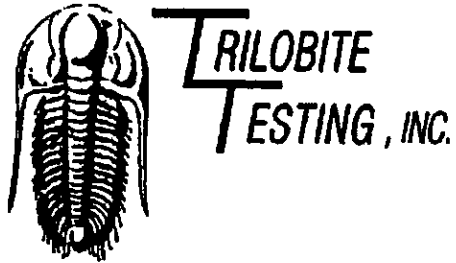
Serial #: 8366

Inside Great Plains Energy, Inc

Cathcart #1-20

DST Test Number: 1





DRILL STEM TEST REPORT

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

6121 South 58th St. STE B
Lincoln, NE 68516

ATTN: Richard Bell

Cathcart #1-20

20-1s-27w Decatur,KS

Start Date: 2011.09.15 @ 03:32:00

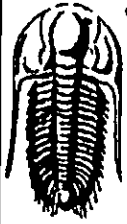
End Date: 2011.09.15 @ 09:46:00

Job Ticket #: 43797 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2011.09.21 @ 08:35:48

Great Plains Energy, Inc 20-1s-27w Decatur,KS Cathcart #1-20 DST # 2 LKC "B - D" 2011.09.15



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy, Inc
6121 South 58th St. STE B
Lincoln, NE 68516
ATTN: Richard Bell

20-1s-27w Decatur, KS
Cathcart #1-20
Job Ticket: 43797 DST#: 2
Test Start: 2011.09.15 @ 03:32:00

Tool Information

Drill Pipe:	Length: 2742.00 ft	Diameter: 3.80 inches	Volume: 38.46 bbl	Tool Weight: 4000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 517.00 ft	Diameter: 2.50 inches	Volume: 3.14 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 41.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3258.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	117.00 ft			
Tool Length:	145.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3235.00	
Hydraulic tool	5.00			3240.00	
Jars	5.00			3245.00	
Safety Joint	3.00			3248.00	
Packer	5.00			3253.00	28.00 Bottom Of Top Packer
Packer	5.00			3258.00	
Stubb	1.00			3259.00	
Recorder	0.00	8366	Inside	3259.00	
Recorder	0.00	8320	Outside	3259.00	
Perforations	18.00			3277.00	
Blank Spacing	95.00			3372.00	
Bullnose	3.00			3375.00	117.00 Bottom Packers & Anchor

Total Tool Length: 145.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy, Inc

20-1s-27w Decatur, KS

6121 South 58th St. STE B
Lincoln, NE 68516

Cathcart #1-20

Job Ticket: 43797

DST#: 2

ATTN: Richard Bell

Test Start: 2011.09.15 @ 03:32:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.95 in³

Gas Cushion Type:

Resistivity: ohmm

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud 100%	0.121

Total Length: 20.00 ft Total Volume: 0.121 bbl

Num Fluid Samples: 0

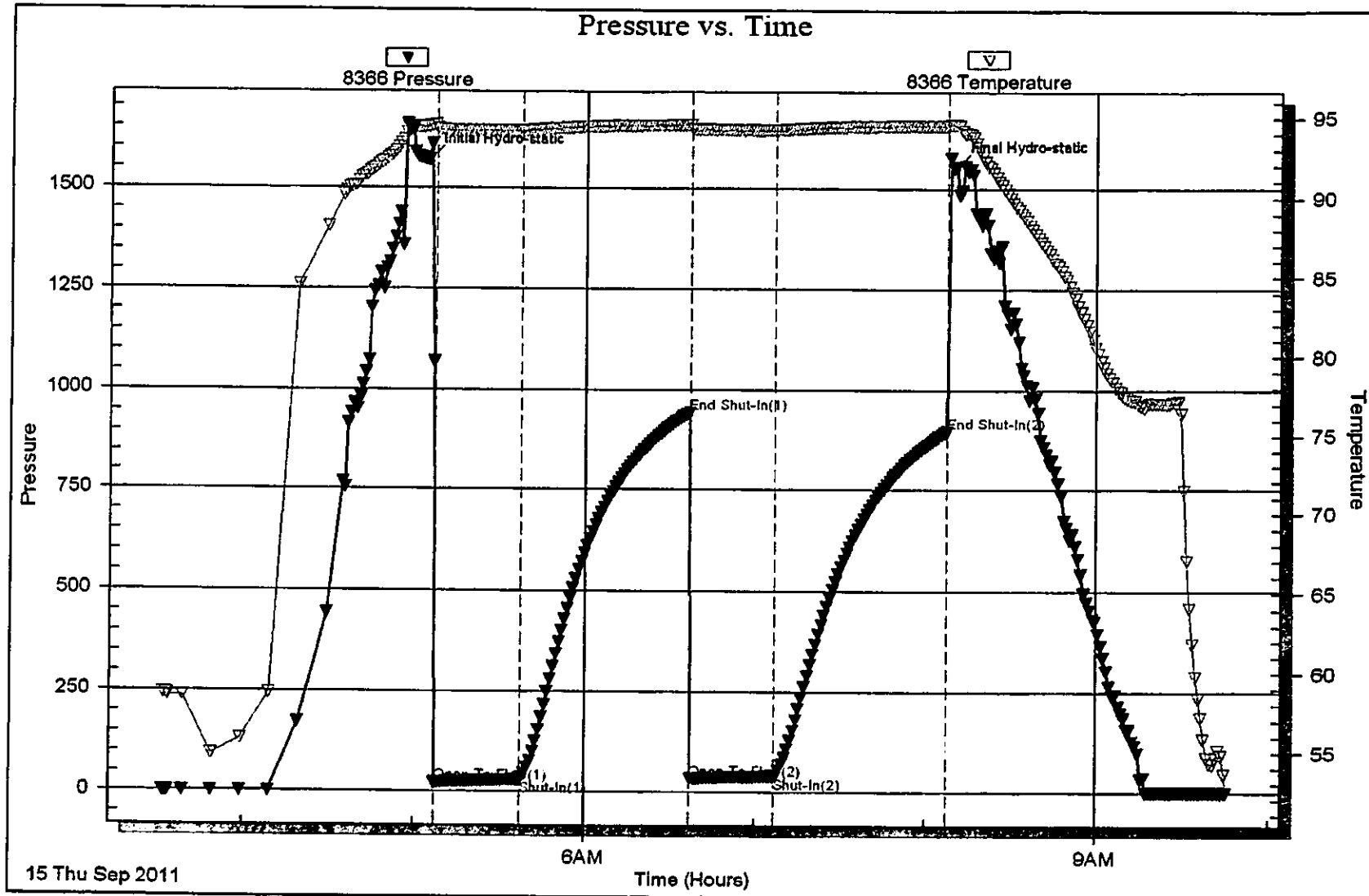
Num Gas Bombs: 0

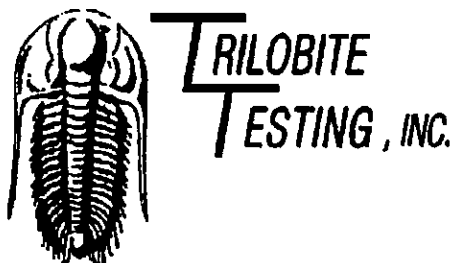
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

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

6121 South 58th St. STE B
Lincoln, NE 68516

ATTN: Richard Bell

Cathcart #1-20

20-1s-27w Decatur,KS

Start Date: 2011.09.15 @ 19:40:00

End Date: 2011.09.16 @ 02:03:30

Job Ticket #: 43798 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2011.09.21 @ 08:36:07

Great Plains Energy, Inc
20-1s-27w Decatur,KS
Cathcart #1-20
DST # 3
LKC "E - G" (J - L)
2011.09.15



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy, Inc

20-1s-27w Decatur, KS

6121 South 58th St. STE B
Lincoln, NE 68516

Cathcart #1-20

Job Ticket: 43798

DST#: 3

ATTN: Richard Bell

Test Start: 2011.09.15 @ 19:40:00

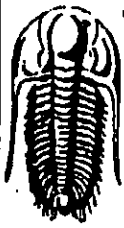
Tool Information

Drill Pipe:	Length: 2866.00 ft	Diameter: 3.80 inches	Volume: 40.20 bbl	Tool Weight: 3500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 517.00 ft	Diameter: 2.50 inches	Volume: 3.14 bbl	Weight to Pull Loose: 70000.00 lb
			Total Volume: 43.34 bbl	Tool Chased: 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3378.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	85.00 ft			
Tool Length:	113.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3355.00	
Hydraulic tool	5.00			3360.00	
Jars	5.00			3365.00	
Safety Joint	3.00			3368.00	
Packer	5.00			3373.00	28.00 Bottom Of Top Packer
Packer	5.00			3378.00	
Stubb	1.00			3379.00	
Recorder	0.00	8366	Inside	3379.00	
Recorder	0.00	8320	Outside	3379.00	
Perforations	17.00			3396.00	
Blank Spacing	64.00			3460.00	
Bullnose	3.00			3463.00	85.00 Bottom Packers & Anchor
Total Tool Length:	113.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy, Inc

20-1s-27w Decatur, KS

6121 South 58th St. STE B
Lincoln, NE 68516

Cathcart #1-20

Job Ticket: 43798

DST#: 3

ATTN: Richard Bell

Test Start: 2011.09.15 @ 19:40:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.95 in³

Gas Cushion Type:

Resistivity: ohm m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	SOCM 90% m 10% o	0.061

Total Length: 10.00 ft

Total Volume: 0.061 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

