



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

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

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 #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_- Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ 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 cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

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: \_\_\_\_\_ Date: \_\_\_\_\_



1154605

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**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 type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input 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

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 <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other (Explain) \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
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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: _____ _____
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71730

# INVOICE

Box 93999  
Southlake, TX 76092

Invoice Number: 135110  
Invoice Date: Mar 8, 2013  
Page: 1

Voice: (817) 546-7282  
Fax: (817) 246-3361

**Bill To:**

Great Plains Energy, Inc.  
6121 S. 58 St.  
Suite B  
Lincoln, NE 68516

MAR 10 REC'D

Customer ID	Field Ticket #	Payment Terms	
GrPIEn	60122	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Oakley	Mar 8, 2013	4/7/13

Quantity	Item	Description	Unit Price	Amount
185.00	MAT	Karr #1-17 Class A Common	17.90	3,311.50
3.50	MAT	Gel	23.40	81.90
6.50	MAT	Chloride	64.00	416.00
200.05	SER	Cubic Feet	2.48	496.13
383.46	SER	Ton Mileage	2.60	997.00
1.00	SER	Surface	1,512.25	1,512.25
42.00	SER	Pump Truck Mileage	7.70	323.40
42.00	SER	Light Vehicle Mileage	4.40	184.80
1.00	CEMENTER	Andrew Forslund		
1.00	EQUIP OPER	Dane Retzloff		
1.00	OPER ASSIST	Darrin Hoeb		

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

\$

ONLY IF PAID ON OR BEFORE  
Apr 2, 2013

Subtotal	7,322.98
Sales Tax	239.99
Total Invoice Amount	7,562.97
Payment/Credit Applied	
<b>TOTAL</b>	<b>7,562.97</b>

*[Handwritten mark]*



Box 93999  
Juthlake, TX 76092

Voice: (817) 546-7282  
Fax: (817) 246-3361

71730

# INVOICE

Invoice Number: 135267  
Invoice Date: Mar 16, 2013  
Page: 1

**Bill To:**

Great Plains Energy, Inc.  
6121 S. 58 St.  
Suite B  
Lincoln, NE 68516

MAR 23 RECD

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
GrPIEn	60184	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-03	Oakley	Mar 16, 2013	4/15/13

Quantity	Item	Description	Unit Price	Amount
160.00	MAT	Karr #1-17 Class A Common <i>Plugging Cont</i>	17.90	2,864.00
110.00	MAT	Pozmix	9.35	1,028.50
9.00	MAT	Gel	23.40	210.60
68.00	MAT	Flo Seal	2.97	201.96
290.01	SER	Cubic Feet	2.48	719.22
507.78	SER	Ton Mileage	2.60	1,320.23
1.00	SER	Plug to Abandon	2,600.47	2,600.47
42.00	SER	Pump Truck Mileage	7.70	323.40
42.00	SER	Light Vehicle Mileage	4.40	184.80
1.00	EQP	8.5/8 Wooden Plug	107.64	107.64
1.00	CEMENTER	Darren Racette		
1.00	EQUIP OPER	Tyler Flipse		
1.00	OPER ASSIST	Darrin Hoeb		

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

\$ 1,816.35

ONLY IF PAID ON OR BEFORE  
Apr 10, 2013

Subtotal	9,560.82
Sales Tax	602.33
Total Invoice Amount	10,163.15
Payment/Credit Applied	
<b>TOTAL</b>	<b>10,163.15</b>

8346.80

402-904-4092 Fax

KCC Bruce Base 3-8-13

Operator Great Plains Energy API # 15-163-24104 Well Code # \_\_\_\_\_  
 Location 1090 FSL 330 FULC 17-7-18 Well Name & No. KARR 1-17  
 Rig No. 8 Contractor \_\_\_\_\_ County Dooks State KS  
 No. Drill Collars \_\_\_\_\_ Size \_\_\_\_\_ No. Joints Flex Wt. \_\_\_\_\_ Size \_\_\_\_\_ Total Wt. (Both) \_\_\_\_\_  
 Make Pump K380 Liner & Stroke 6x14 Spud 5:45 Pm 3-8-13  
 Approx. TD 3500 Elevation 1932 G.L. 1937 K.B. Hole Complete 11:00 Am 3-16-13  
 Move Mileage 35 Mile Trucking Co. H2 Move Cost 93017

3-5-13 Build Log  
 3-6-13 Training  
 3-7-13 OFF

Date	3-8-13	3-9-13	3-10-13	3-11-13	3-12-13	3-13-13	3-14-13	3-15-13	3-16-13	3-17-13	3-18-13
Days	MIRT	Ø	Ø	Ø	ØST1	ØST2	CF5	ØST6	W00	R-R	RR
Depth	H-2	240	1870	2930	3155	3197	3292	3333	3458	3470	3470
Ft. Cut	240	1630	1060	225	42	95	41	125	12	-	-
D.T.		8WOC	4/4 Pump	3/4 Displace							
D.T.											
C.T.											
Bit Wt.	10	25	35	35	32	35	35	30-35	35		
RPM	85	85	80	80	85	80	80	80	80		
Pressure	500	700	800	800	650	700	750	750	750		
SPM	60	60	60	60	60	60	60	60	60		
Mud Cost	1326	1326	1326	7199	8246	9390	10812	10956	10956		
Mud Wt.		9.1	8.9	8.9	8.9	8.9	8.9	9.4	9.4		
Viscosity		29	58	57	49	46	58	54	62		
Water Loss				6.8	6.4	6.9	6.4	6.4	6.4		
Clorides				1200	1600	1800	1800	2100	2100		
L.C.M.			3"	2"-11.5"	2"-11	2"-11	2"-11.5"	3"-11	4"-11		
Dev. Sur.	1/2-218			1-3155			3/4-3333	1-3458			
ACC Bit Hours	1/2	22 1/4	44 1/2		1 1/4	5 3/4	8	12			
Formation	Sh	Sh+Sa	Sh+Lm	Sh+Lm	Sh+Lm	Sh+Lm	Sh+Lm	Arch	Arch		
Weather	Cloudy	Lt. Snow	Clear	Clear	P-C	P-C	P-C	Cloudy			

52

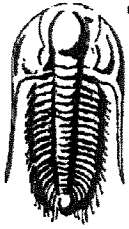
NO.	SIZE	TYPE	OUT	FT.	HRS.	CUM. HRS.	BIT COND.			SERIAL #	TOPS
							T	B	G		
1	12 1/4 Sm	FOS	218	218	3 1/4					PC1032	
1	7 7/8 Htca	Gx20C	3155	2937	51 1/4	54 1/2	57			5219186	
2	7 7/8 Htca	Gx20CR	3470	315	12 1/2	67				RR	Andy
		1 3/4 Pm	5 00 Pm	3-16-13		Pioneer	L TO	3459	108		136 3-1392
3448	50 x 5	60/40 P02	4 1/2 Gal		Start	1 1/2 AM	3-17-13				Strap 3155
1375	25 x 5	40 10	1/2" Floscal	Camp	6 00 AM	3-17-13				Allied	2.81 Long
810	100 x 5	RH 20			Order	Richard Williams	KCC 3-11				Strap 3458
270	40 x 5	MH 15			Rig Released	10 00 AM	3-17-13				.56 Short

DEPTH	SIZE	SACKS	CEMENT MATERIAL	PLUG DOWN	10' From on top DRILLED OUT	REMARKS
218	8 5/8	185	Comm 3%CC 2%Gz1	10 30 Pm 3-8-13	6 30 Am 4 1/2 Am 3-9	Circ 1500L Allied

G-J  
K

NO.	INTERVAL	OPEN	SHUT	OPEN	SHUT	REC	HH	IFP	ISIP	FFP	FSI
1	3065-3155	30	60	30	60	5' Mud w/oil In Tool					
2	3148-3180	30	60	30	90	10' oil 77' OCM					
3	3172-3197	30	60	45	90	1' OCM					
4	3185-3215	30	60	45	90	62' OCM					
5	3214-3310	30	60	45	90	16' oil 45' Mud					
6	3305-3333	30	60	30	90	1' OCM					

Surface Casing Furnished By: G-P m-w MIA Dans Dazer MDC Haul  
 Accidents & Remarks: 5 JTs 210.26 w/strap Mangan Mud  
H2 Tore Tool House Door off on Rig Move 1 MDC Frac H2 420  
Sill rolled + Dog House Draggd + Caught + Base Displace 2416  
Gained 5" Fluid in pits while drilling @ 3430



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Great Plains Energy Inc.

**17 7s 18w Rooks,KS**

6121 S 58th St Ste B  
Lincoln NE 68516

**Karr #1-17**

Job Ticket: 52058

**DST#: 1**

ATTN: Larry Nicholson

Test Start: 2013.03.11 @ 23:10:00

## GENERAL INFORMATION:

Formation: **Toronto - LKC " B "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:09:00

Time Test Ended: 05:38:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 41

Interval: **3068.00 ft (KB) To 3155.00 ft (KB) (TVD)**

Reference Elevations: 1938.00 ft (KB)

Total Depth: 3155.00 ft (KB) (TVD)

1933.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8322 Outside**

Press@RunDepth: psig @ 3088.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.11

End Date: 2013.03.12

Last Calib.: 2013.03.12

Start Time: 23:10:01

End Time: 05:38:00

Time On Btm:

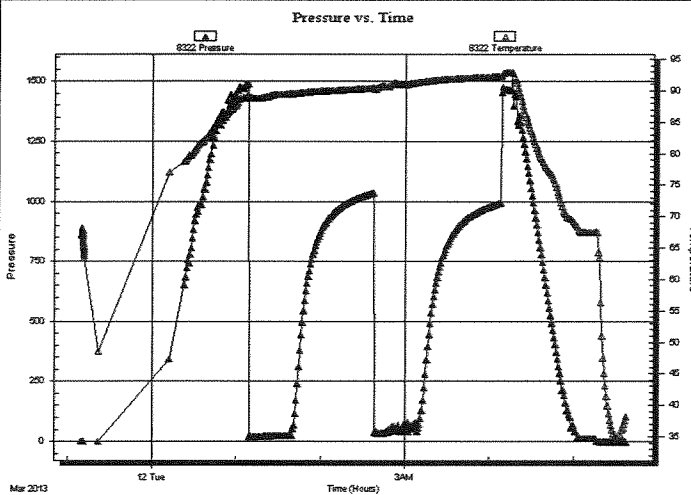
Time Off Btm:

TEST COMMENT: 30-IFP- Weak Surface Blow

60-ISIP- No Blow

30-FFP- No Blow

60-FSIP- No Blow



## PRESSURE SUMMARY

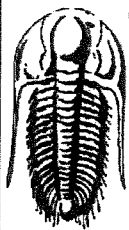
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
4.00	Oil Speck Mud 100%	0.02

## Gas Rates

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



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Great Plains Energy Inc.

17 7s 18w Rooks, KS

6121 S 58th St Ste B  
Lincoln NE 68516

Karr #1-17

Job Ticket: 52059

DST#: 2

ATTN: Larry Nicholson

Test Start: 2013.03.12 @ 10:47:00

### GENERAL INFORMATION:

Formation: LKC " C "

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:43:40

Time Test Ended: 19:05:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 41

Interval: 3148.00 ft (KB) To 3180.00 ft (KB) (TVD)

Reference Elevations: 1938.00 ft (KB)

Total Depth: 3180.00 ft (KB) (TVD)

1933.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press@RunDepth: 65.03 psig @ 3177.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.12

End Date: 2013.03.12

Last Calib.: 2013.03.12

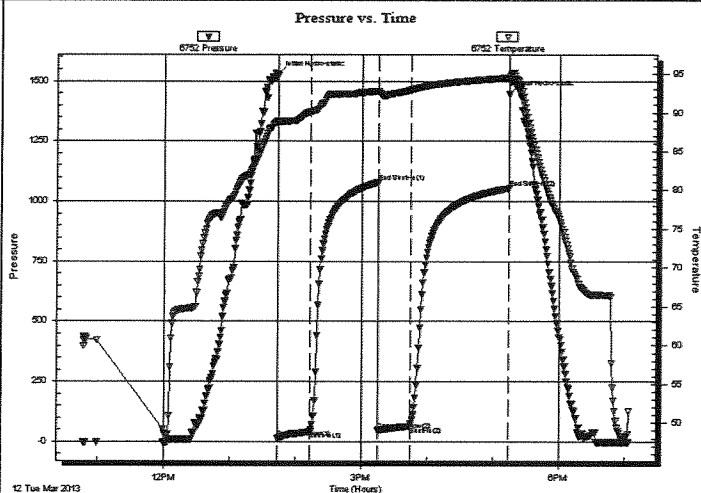
Start Time: 10:47:01

End Time: 19:04:20

Time On Btm: 2013.03.12 @ 13:43:30

Time Off Btm: 2013.03.12 @ 17:14:20

TEST COMMENT: 30-IFP- Surface Blow  
60-ISIP- No Blow  
30-FFP- Surface Blow Building to 1 3/4" in 25 min.  
90-FSIP- No Blow



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1527.89	88.95	Initial Hydro-static
1	15.21	88.57	Open To Flow (1)
30	42.46	90.16	Shut-In(1)
92	1078.46	92.77	End Shut-In(1)
92	48.90	92.64	Open To Flow (2)
121	65.03	92.92	Shut-In(2)
211	1054.01	94.50	End Shut-In(2)
211	1445.17	94.56	Final Hydro-static

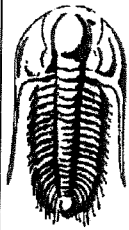
### Recovery

Length (ft)	Description	Volume (bbl)
10.00	Clean Oil 100%	0.05
77.00	OCM 2%o 98%m	0.38

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Great Plains Energy Inc.

**17 7s 18w Rooks, KS**

6121 S 58th St Ste B  
Lincoln NE 68516

**Karr #1-17**

Job Ticket: 52060

**DST#: 3**

ATTN: Larry Nicholson

Test Start: 2013.03.13 @ 01:50:00

**GENERAL INFORMATION:**

Formation: **LKC " C & D "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:03:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Time Test Ended: 09:39:00

Unit No: 41

Interval: **3172.00 ft (KB) To 3197.00 ft (KB) (TVD)**

Reference Elevations: 1938.00 ft (KB)

Total Depth: 3197.00 ft (KB) (TVD)

1933.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8322 Outside**

Press@RunDepth: psig @ 3194.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.13

End Date: 2013.03.13

Last Calib.: 2013.03.13

Start Time: 01:50:01

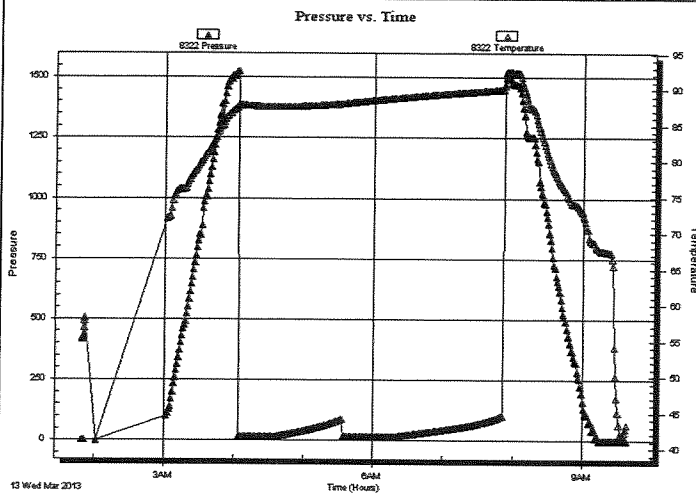
End Time: 09:38:20

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 30-IFP- 1/4" Blow Died Back in 25 min.  
60-ISIP- No Blow  
45-FFP- Good Surge Very Weak Surface Blow  
90-FSIP- No Blow

**PRESSURE SUMMARY**



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

**Recovery**

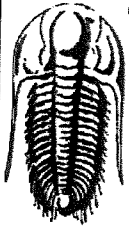
Length (ft)	Description	Volume (bbl)
1.00	OCM 2%o 98% m	0.00

\* Recovery from multiple tests

**Gas Rates**

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





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Great Plains Energy Inc.

17 7s 18w Rooks, KS

6121 S 58th St Ste B  
Lincoln NE 68516

**Karr #1-17**

Job Ticket: 52061

DST#: 4

ATTN: Larry Nicholson

Test Start: 2013.03.13 @ 16:20:00

## GENERAL INFORMATION:

Formation: **LKC " E & F "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:38:50

Time Test Ended: 23:59:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 41

Interval: 3195.00 ft (KB) To 3215.00 ft (KB) (TVD)

Total Depth: 3215.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1938.00 ft (KB)

1933.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6752**

Inside

Press@RunDepth: 43.99 psig @ 3212.00 ft (KB)

Start Date: 2013.03.13

End Date:

2013.03.13

Start Time: 16:20:01

End Time:

23:58:40

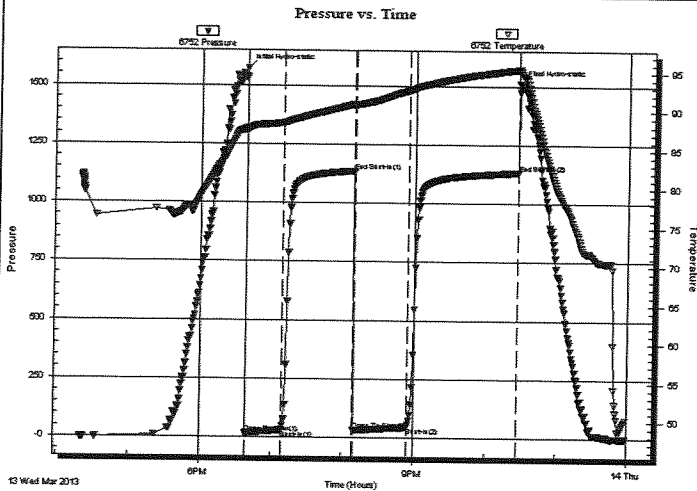
Capacity: 8000.00 psig

Last Calib.: 2013.03.14

Time On Btm: 2013.03.13 @ 18:38:40

Time Off Btm: 2013.03.13 @ 22:27:20

TEST COMMENT: 30-IFP- 1/4" Blow  
60-ISIP- No Blow  
45-FFP- Surface Blow in 15 min.  
90-FSIP- No Blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1572.43	87.80	Initial Hydro-static
1	16.96	87.33	Open To Flow (1)
31	29.15	88.47	Shut-In(1)
91	1135.82	90.91	End Shut-In(1)
91	31.15	90.69	Open To Flow (2)
136	43.99	92.69	Shut-In(2)
229	1130.50	95.44	End Shut-In(2)
229	1510.27	95.50	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbt)
62.00	OCM 1%o 99%m	0.30

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Great Plains Energy Inc.

17 7s 18w Rooks,KS

6121 S 58th St Ste B  
Lincoln NE 68516

Karr #1-17

Job Ticket: 52062

DST#: 5

ATTN: Larry Nicholson

Test Start: 2013.03.14 @ 10:50:00

### GENERAL INFORMATION:

Formation: LKC " G - J "

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:08:20

Time Test Ended: 19:19:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 41

Interval: 3214.00 ft (KB) To 3310.00 ft (KB) (TVD)

Total Depth: 3310.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1938.00 ft (KB)

1933.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8322 Outside

Press@RunDepth: psig @ 3243.00 ft (KB)

Start Date: 2013.03.14 End Date: 2013.03.14

Start Time: 10:50:01 End Time: 19:18:00

Capacity: 8000.00 psig

Last Calib.: 2013.03.14

Time On Btm:

Time Off Btm:

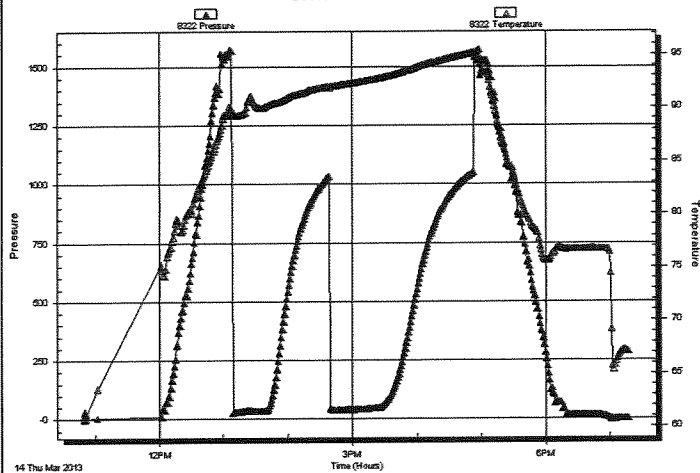
TEST COMMENT: 30-IFP- Surging Surface Blow in 9 min.

60-ISIP- No Blow

45-FFP- Surface Blow Building to 1/2"

90-FSIP- No Blow

Pressure vs. Time



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

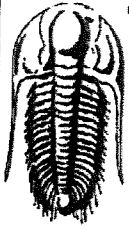
### Recovery

Length (ft)	Description	Volume (bbl)
15.00	CO 100%	0.07
45.00	OCM 25%o 75%m	0.22

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Great Plains Energy Inc.

17 7s 18w Rooks, KS

6121 S 58th St Ste B  
Lincoln NE 68516

**Karr #1-17**

Job Ticket: 52063

DST#: 6

ATTN: Larry Nicholson

Test Start: 2013.03.15 @ 03:00:00

## GENERAL INFORMATION:

Formation: LKC " K "

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:47:40

Time Test Ended: 11:16:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 41

Interval: 3305.00 ft (KB) To 3333.00 ft (KB) (TVD)

Reference Elevations: 1938.00 ft (KB)

Total Depth: 3333.00 ft (KB) (TVD)

1933.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6752**

Inside

Press@RunDepth: 25.71 psig @ 3330.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.15

End Date:

2013.03.15

Last Calib.: 2013.03.15

Start Time: 03:00:01

End Time:

11:15:30

Time On Btm: 2013.03.15 @ 05:47:30

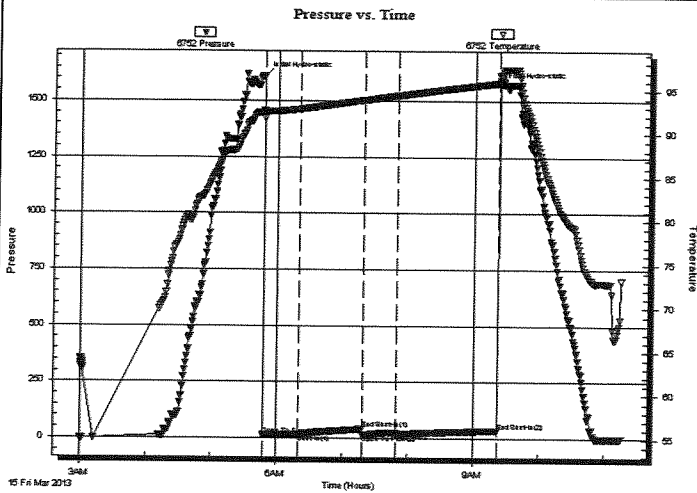
Time Off Btm: 2013.03.15 @ 09:22:30

TEST COMMENT: 30-IFP- Surface Blow Died Back in 20 min.

60-ISIP- No Blow

30-FFP- No Blow

90-FSIP- No Blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1609.72	92.61	Initial Hydro-static
1	12.05	91.75	Open To Flow (1)
33	15.39	92.81	Shut-In(1)
91	40.40	93.86	End Shut-In(1)
92	15.49	93.86	Open To Flow (2)
122	25.71	94.38	Shut-In(2)
215	33.87	95.85	End Shut-In(2)
215	1566.92	96.70	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	OCM 1%o 99%m	0.00

\* Recovery from multiple tests

## Gas Rates

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

