



**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

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: \_\_\_\_\_



1075476

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 Bbls.	Gas Mcf	Water Bbls.	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 <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Great Plains Energy, Inc.
Well Name	Moffet 1-32
Doc ID	1075476

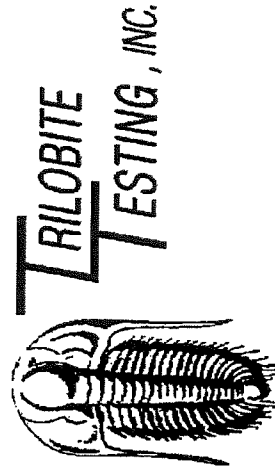
All Electric Logs Run

Compensated Density
Dual Induction
Micro
Sonic

Form	ACO1 - Well Completion
Operator	Great Plains Energy, Inc.
Well Name	Moffet 1-32
Doc ID	1075476

Tops

Name	Top	Datum
Anhydrite	1876	+434
Base	1906	+404
Topeka	3130	-820
Heebner	3313	-1003
Toronto	3342	-1032
Lansing	3356	-1046
BKC	3536	-1226
Arbuckle	3573	-1263
Granite	3585	-1275



## DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy**

6121 South 58th street Ste. B  
Lincoln, NE 68516

ATTN: Rich Bell

**32 2 23w Norton,KS**

**Moffet #1-32**

Start Date: 2011.07.21 @ 20:30:00

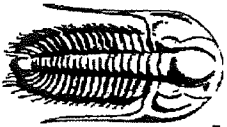
End Date: 2011.07.22 @ 02:40:30

Job Ticket #: 43717 DST #: 1

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

Moffet #1-32

6121 South 58th street Ste. B  
Lincoln, NE 68516

**32 2 23w Norton,KS**

Job Ticket: 43717

**DST#: 1**

ATTN: Rich Bell

Test Start: 2011.07.21 @ 20:30:00

**GENERAL INFORMATION:**

Formation: **Toronto, LKC-A**

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

Time Tool Opened: 22:37:00

Time Test Ended: 02:40:30

ft (KB)

Test Type: Conventional Bottom Hole

Tester: Chuck Krautzer Jr.

Unit No: 36

Interval: **3312.00 ft (KB) To 3368.00 ft (KB) (TVD)**

Reference Elevations: 2310.00 ft (KB)

Total Depth: 3368.00 ft (KB) (TVD)

2305.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6741**

**Outside**

Press.@RunDepth: 56.67 psig @ 3313.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.21 End Date: 2011.07.22

Last Calib.: 2011.07.22

Start Time: 20:30:05 End Time: 02:40:29

Time On Btm: 2011.07.21 @ 22:26:00

Time Off Btm: 2011.07.22 @ 00:53:30

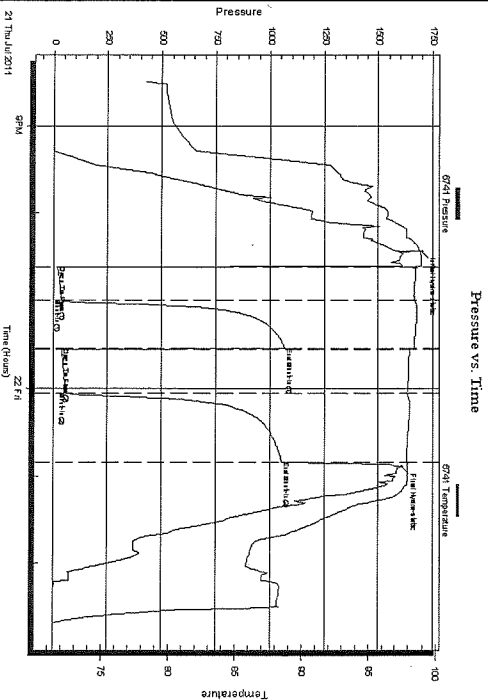
**TEST COMMENT:** IF: Weak blow, Ded in 15 mins.

ISI: No blow back

FE: No blow

FSI: No blow back

**PRESSURE SUMMARY**

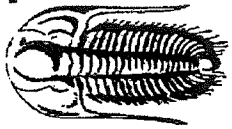


**Recovery**

Length (ft)	Description	Volume (bbl)
65.00	mud-100%	0.32

**Gas Rates**

Time (Min.)	Pressure (psi)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

### TOOL DIAGRAM

Great Plains Energy  
6121 South 58th street Ste. B  
Lincoln, NE 68516  
ATTN: Rich Bell

Moffet #1-32  
**32 2 23w Norton, KS**  
Job Ticket: 43717     DST#: 1  
Test Start: 2011.07.21 @ 20:30:00

**Tool Information**

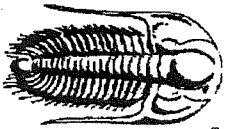
Drill Pipe:	Length: 3194.00 ft	Diameter: 3.80 inches	Volume: 44.80 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 35000.00 lb
Drill Pipe Above KB:	30.00 ft	<u>Total Volume: 45.39 bbl</u>		Tool Chased 2.00 ft
Depth to Top Packer:	3312.00 ft	String Weight: Initial 32000.00 lb		
Depth to Bottom Packer:	ft	Final 32000.00 lb		
Interval between Packers:	56.00 ft			
Tool Length:	84.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

**Tool Description      Length (ft)      Serial No.      Position      Depth (ft)      Accum. Lengths**

Shut In Tool	5.00			3289.00	
Hydraulic tool	5.00			3294.00	
Jars	5.00			3299.00	
Safety Joint	3.00			3302.00	
Packer	5.00			3307.00	28.00      Bottom Of Top Packer
Packer	5.00			3312.00	
Stubb	1.00			3313.00	
Recorder	0.00	6752	Inside	3313.00	
Recorder	0.00	6741	Outside	3313.00	
Perforations	4.00			3317.00	
Change Over Sub	0.50			3317.50	
Blank Spacing	32.00			3349.50	
Change Over Sub	0.50			3350.00	
Perforations	15.00			3365.00	
Bullnose	3.00			3368.00	56.00      Bottom Packers & Anchor

**Total Tool Length: 84.00**



**TRILOBITE**  
TESTING, INC

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Great Plains Energy  
6121 South 58th street Ste. B  
Lincoln, NE 68516  
ATTN: Rich Bell

Moffet #1-32  
32 2 23w Norton, KS  
Job Ticket: 43717  
DST#:1  
Test Start: 2011.07.21 @ 20:30:00

**Mud and Cushion Information**

Mud Type:	Gel Chem	Cushion Type:		Oil API:		deg API
Mud Weight:	9.00 lb/gal	Cushion Length:		Water Salinity:		ppm
Viscosity:	50.00 sec/qt	Cushion Volume:		Gas Cushion Type:		
Water Loss:	6.78 in <sup>3</sup>	Gas Cushion Pressure:				
Resistivity:	ohmm					
Salinity:	1200.00 ppm					
Filter Cake:	2.00 inches					

**Recovery Information**

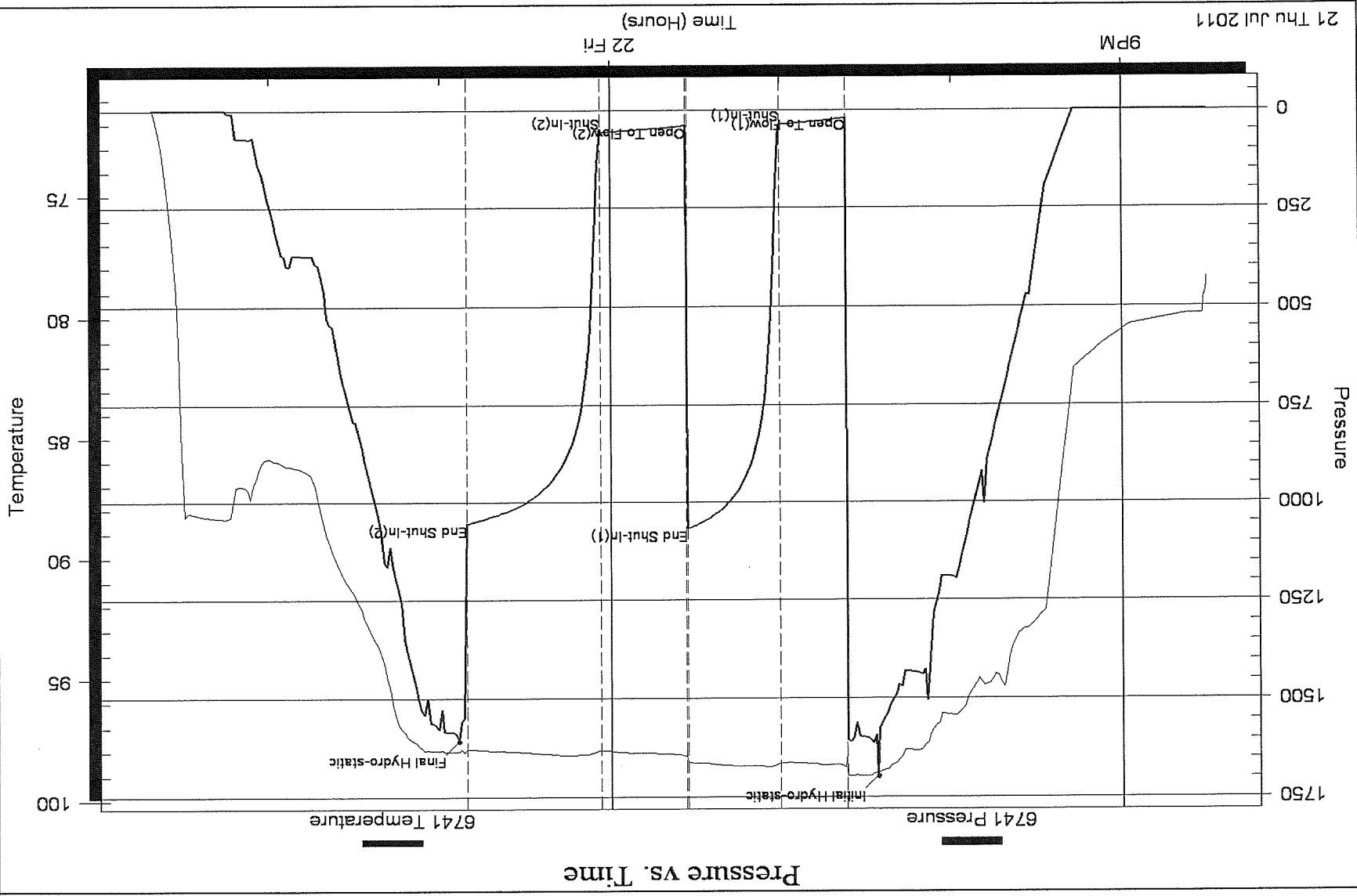
Recovery Table

Length ft	Description	Volume bbl
65.00	mud-100%	0.320

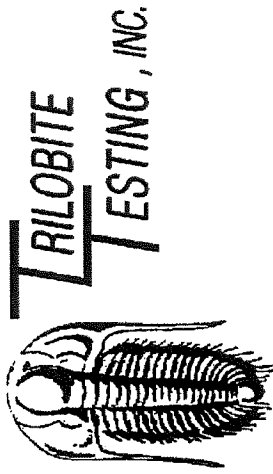
Total Length: 65.00 ft      Total Volume: 0.320 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:









**DRILL STEM TEST REPORT**

Prepared For: **Great Plains Energy**  
6121 South 58th street Ste. B  
Lincoln, NE 68516

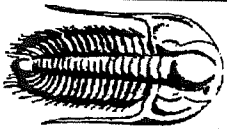
ATTN: Rich Bell

**32 2 23w Norton,KS**

**Moffet #1-32**

Start Date: 2011.07.22 @ 08:45:00  
End Date: 2011.07.22 @ 16:12:00  
Job Ticket #: 43718 DST #: 2

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  
 6121 South 58th street Ste. B  
 Lincoln, NE 68516  
 ATTN: Rich Bell

Moffet #1-32  
**32 2 23w Norton, KS**  
 Job Ticket: 43718      DST#: 2  
 Test Start: 2011.07.22 @ 08:45:00

### GENERAL INFORMATION:

Formation: **LKC,C,D**  
 Deviated: **No** Whipstock: **ft (KB)**  
 Time Tool Opened: 10:24:30  
 Time Test Ended: 16:12:00  
**Interval: 3368.00 ft (KB) To 3400.00 ft (KB) (TVD)**  
**Total Depth: 3400.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88** inches-Hole Condition: **Fair**

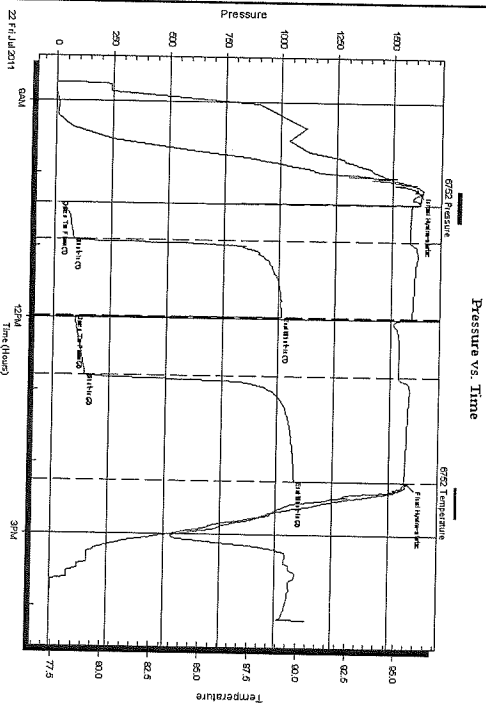
Test Type: **Conventional Bottom Hole**  
 Tester: **Chuck Kreuzer Jr.**  
 Unit No: **36**  
 Reference Elevations: **2310.00 ft (KB)**  
**2305.00 ft (CF)**  
**KB to GRICE: 5.00 ft**

**Serial #: 6752** **Inside**  
 Press@RunDepth: **143.39 psig @ 3369.00 ft (KB)**  
 Start Date: **2011.07.22** End Date: **2011.07.22**  
 Start Time: **08:45:05** End Time: **16:11:59**

Capacity: **8000.00 psig**  
 Last Calib.: **2011.07.22**  
 Time On Btm: **2011.07.22 @ 10:12:00**  
 Time Off Btm: **2011.07.22 @ 14:16:00**

### TEST COMMENT:

IF: Fair blow, Built to B.O.B in 30 mins.  
 IS: Blow Back After 1 min. Built to 2 1/2 in. over 60 mins.  
 FF: Strong blow, Built to B.O.B in 15 mins.  
 FSI: Blow backn after 1min. Built to 5 in. over 9



### PRESSURE SUMMARY

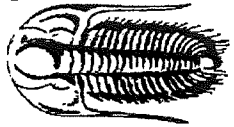
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1607.84	96.22	Initial Hydro-static
13	25.39	95.78	Open To Flow (1)
43	84.30	95.58	Shut-In(1)
107	1013.15	95.73	End Shut-In(1)
108	98.72	95.30	Open To Flow (2)
156	143.39	95.10	Shut-In(2)
243	1077.86	95.45	End Shut-In(2)
244	1579.74	95.60	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bb)
182.00	gmco-15%g30%am55%	1.46
144.00	90-10%g90%	2.02
0.00	372 ft. of 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

**Moffet #1-32**

6121 South 58th street Ste. B  
Lincoln, NE 68516

**32 2 23w Norton,KS**

Job Ticket: 43718

**DST#: 2**

ATTN: Rich Bell

Test Start: 2011.07.22 @ 08:45:00

#### Tool Information

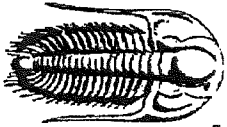
Drill Pipe:	Length: 3228.00 ft	Diameter: 3.80 inches	Volume: 45.28 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 40000.00 lb
Drill Pipe Above KB:	8.00 ft	Total Volume: 45.87 bbl		Tool Chased 2.00 ft
Depth to Top Packer:	3368.00 ft			String Weight: Initial 35000.00 lb
Depth to Bottom Packer:	ft			Final lb
Interval betw een Packers:	32.00 ft			
Tool Length:	60.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3345.00	
Hydraulic tool	5.00			3350.00	
Jars	5.00			3355.00	
Safety Joint	3.00			3358.00	
Packer	5.00			3363.00	28.00
Packer	5.00			3368.00	Bottom Of Top Packer
Stubb	1.00			3369.00	
Recorder	0.00	6752	Inside	3369.00	
Recorder	0.00	6741	Outside	3369.00	
Perforations	28.00			3397.00	
Bullnose	3.00			3400.00	32.00
<b>Total Tool Length:</b>					<b>Bottom Packers &amp; Anchor</b>

**Total Tool Length: 60.00**



**TRIOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Great Plains Energy  
6121 South 58th street Ste. B  
Lincoln, NE 68516  
ATTN: Rich Bell

**Moffet #1-32**  
**32 2 23w Norton,KS**  
Job Ticket: 43718  
DST#: 2  
Test Start: 2011.07.22 @ 08:45:00

**Mud and Cushion Information**

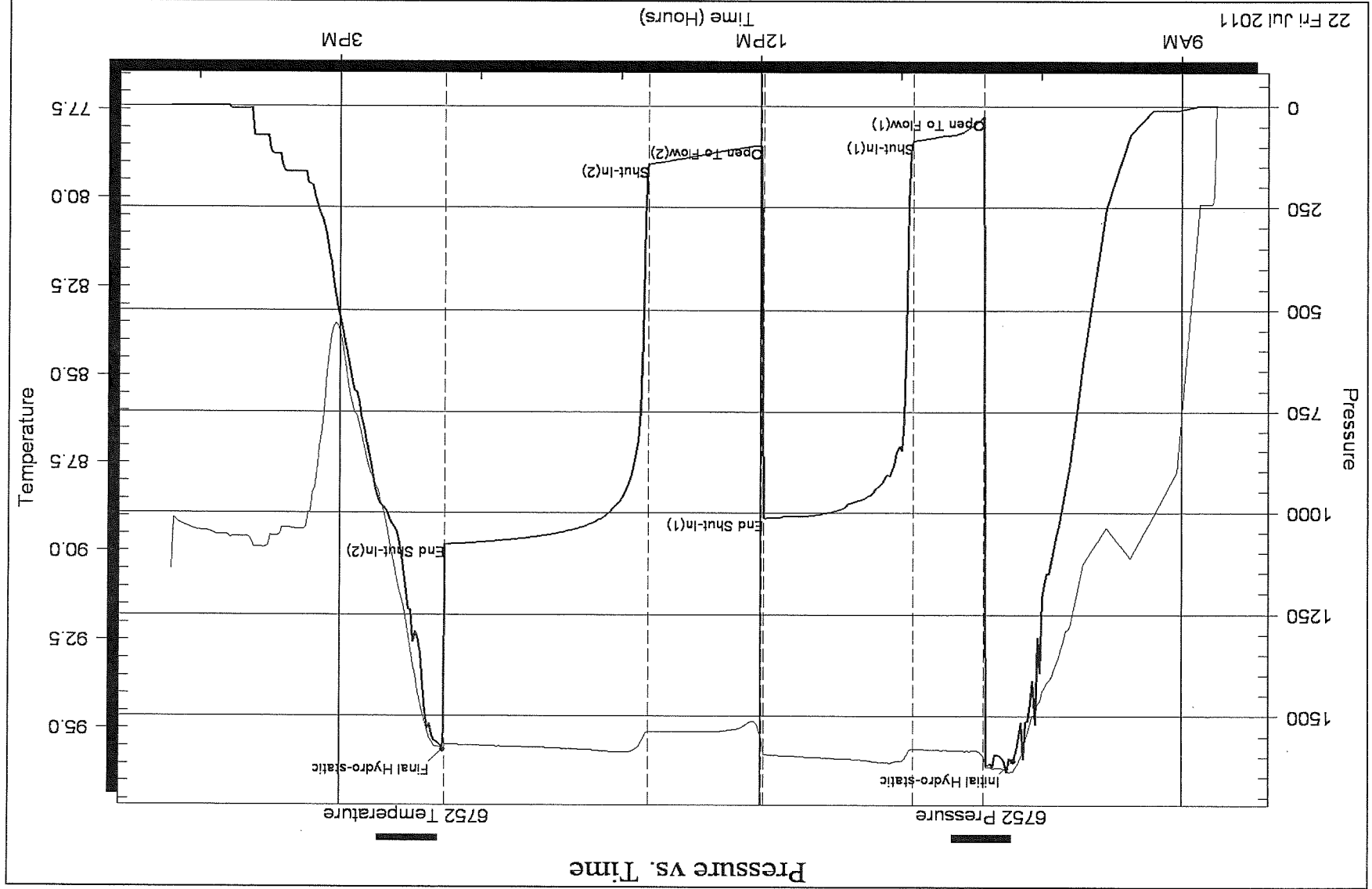
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length:	Water Salinity:	ppm
Viscosity: 50.00 sec/cp	Cushion Volume:		
Water Loss: 6.77 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm-m	Gas Cushion Pressure:		psig
Salinity: 1200.00 ppm			
Filter Cake: 2.00 inches			

**Recovery Information**

**Recovery Table**

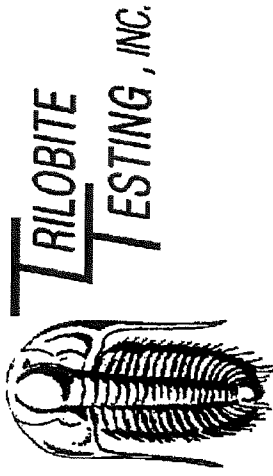
Length ft	Description	Volume bbl
182.00	gmco-15%g30%/m55%o	1.460
144.00	go-10%g90%o	2.020
0.00	372 ft. of gas in pipe	0.000

Total Length: 326.00 ft      Total Volume: 3.480 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**

6121 South 58th street Ste. B  
Lincoln, NE 68516

ATTN: Rich Bell

**32 2 23w Norton,KS**

**Moffet #1-32**

Start Date: 2011.07.23 @ 03:45:00

End Date: 2011.07.23 @ 10:07:30

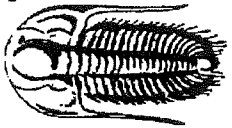
Job Ticket #: 43719 DST#: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Great Plains Energy

**Moffet #1-32**

6121 South 58th street Ste. B  
Lincoln, NE 68516

**32 2 23w Norton, KS**

Job Ticket: 43719      **DST#: 3**

ATTN: Rich Bell

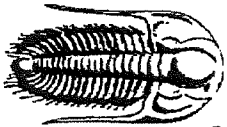
Test Start: 2011.07.23 @ 03:45:00

**Tool Information**

Drill Pipe:	Length: 3310.00 ft	Diameter: 3.80 inches	Volume: 46.43 bbl	Tool Weight: 2600.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 36000.00 lb
Drill Pipe Above KB:	15.00 ft	Total Volume: 47.02 bbl		Tool Chased 2.00 ft
Depth to Top Packer:	3443.00 ft			String Weight: Initial 34000.00 lb
Depth to Bottom Packer:	ft			Final 34000.00 lb
Interval between Packers:	72.00 ft			
Tool Length:	100.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

**Tool Description      Length (ft)      Serial No.      Position      Depth (ft)      Accum. Lengths**

Shut In Tool	5.00			3420.00	
Hydraulic tool	5.00			3425.00	
Jars	5.00			3430.00	
Safety Joint	3.00			3433.00	
Packer	5.00			3438.00	28.00      Bottom Of Top Packer
Packer	5.00			3443.00	
Stubb	1.00			3444.00	
Recorder	0.00	6752	Inside	3444.00	
Recorder	0.00	6741	Outside	3444.00	
Perforations	4.00			3448.00	
Change Over Sub	0.50			3448.50	
Blank Spacing	31.00			3479.50	
Change Over Sub	0.50			3480.00	
Perforations	32.00			3512.00	
Bullnose	3.00			3515.00	72.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>				<b>100.00</b>	



**TRILOBITE**  
**TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Great Plains Energy  
6121 South 58th street Ste. B  
Lincoln, NE 68516  
ATTN: Rich Bell

**Moffet #41-32**  
**32 2 23w Norton, KS**  
Job Ticket: 43719  
DST#: 3  
Test Start: 2011.07.23 @ 03:45:00

**Mud and Cushion Information**

Mud Type:	Gel Chem	Cushion Type:		Oil API:		deg API
Mud Weight:	9.00 lb/gal	Cushion Length:		Water Salinity:		ppm
Viscosity:	48.00 sec/qt	Cushion Volume:				
Water Loss:	7.19 in <sup>3</sup>	Gas Cushion Type:				
Resistivity:	ohm.m	Gas Cushion Pressure:				psig
Salinity:	2000.00 ppm					
Filter Cake:	2.00 inches					

**Recovery Information**

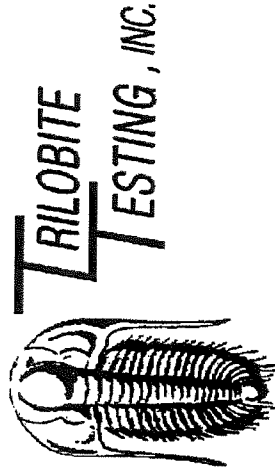
Recovery Table

Length ft	Description	Volume bbl
140.00	mud with oil specs	0.871

Total Length: 140.00ft      Total Volume: 0.871 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**

6121 South 58th street Ste. B  
Lincoln, NE 68516

ATTN: Rich Bell

**32 2 23w Norton,KS**

**Moffet #1-32**

Start Date: 2011.07.23 @ 16:45:00

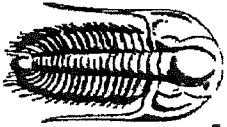
End Date: 2011.07.24 @ 00:04:30

Job Ticket #: 43720 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

Moffet #1-32

6121 South 58th street Ste. B  
Lincoln, NE 68516

32 2 23w Norton,KS

Job Ticket: 43720

DST#: 4

ATTN: Rich Bell

Test Start: 2011.07.23 @ 16:45:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: **No** Whipstock: **ft (KB)**  
 Time Tool Opened: 18:28:30  
 Time Test Ended: 00:04:30  
 Interval: **3534.00 ft (KB) To 3580.00 ft (KB) (TVD)**  
 Total Depth: **3580.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88** InchesHole Condition: **Fair**

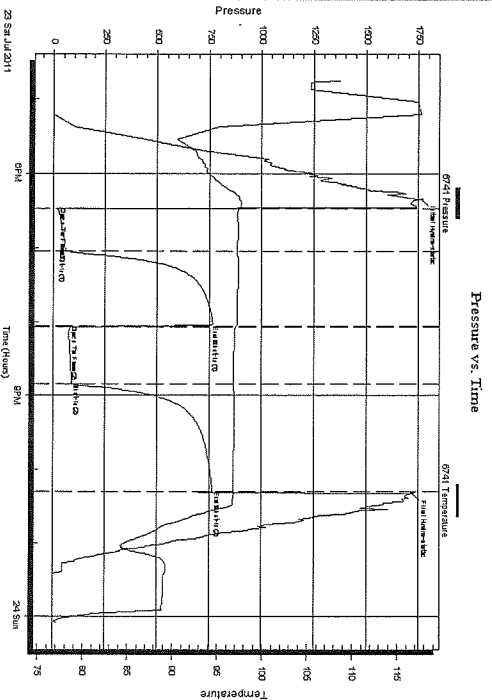
Test Type: **Conventional Bottom Hole**  
 Tester: **Chuck Kreutzer Jr.**  
 Unit No.: **36**  
 Reference Elevations: **2310.00 ft (KB)**  
**2305.00 ft (CF)**  
**KB to GR/CF: 5.00 ft**

**Serial #: 6741** **Outside**  
 Press@RunDepth: **89.41 psig @ 3535.00 ft (KB)**  
 Start Date: **2011.07.23** End Date: **2011.07.24**  
 Start Time: **16:45:05** End Time: **00:04:29**

Capacity: **8000.00 psig**  
 Last Calib.: **2011.07.24**  
 Time On Btm: **2011.07.23 @ 18:20:30**  
 Time Off Btm: **2011.07.23 @ 22:19:30**

## TEST COMMENT:

IF: Weak blow, Built to 2 in. over 30 mins.  
 IS: No blow back over 60 mins.  
 FF: Weak blow, Built to 1/4 in. over 45 mins.  
 FSI: No blow back over 90 mins.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1762.36	97.44	Initial Hydro-static
8	23.44	97.35	Open To Flow (1)
42	60.72	97.19	Shut-In (1)
102	754.73	97.18	End Shut-In (1)
103	77.86	97.00	Open To Flow (2)
150	89.41	96.76	Shut-In (2)
238	765.47	96.78	End Shut-In (2)
239	1720.54	96.85	Final Hydro-static

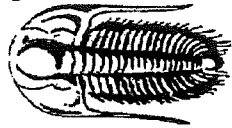
## Recovery

Length (ft)	Description	Volume (bbl)
60.00	ocw m-10%o40%w 50%/m	0.30
60.00	ocw m-20%o20%w 60%/m	0.30
30.00	ocm-40%o60%/m	0.42

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Great Plains Energy

**Moffet #1-32**

6121 South 58th street Ste. B  
Lincoln, NE 68516

**32 2 23w Norton,KS**

Job Ticket: 43720      **DST#: 4**

ATTN: Rich Bell

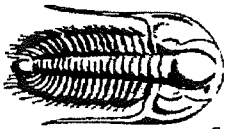
Test Start: 2011.07.23 @ 16:45:00

**Tool Information**

Drill Rpe: Length: 3410.00 ft Diameter: 3.80 inches Volume: 47.83 bbl Tool Weight: 2600.00 lb  
 Heavy Wt. Rpe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl Weight set on Packer: 25000.00 lb  
 Drill Collar: Length: 120.00 ft Diameter: 2.25 inches Volume: 0.59 bbl Weight to Pull Loose: 36000.00 lb  
 Drill Rpe Above KB: 24.00 ft Total Volume: 48.42 bbl Tool Chased 2.00 ft  
 Depth to Top Packer: 3534.00 ft String Weight: Initial 33000.00 lb  
 Depth to Bottom Packer: ft Final 34000.00 lb  
 Interval between Packers: 46.00 ft  
 Tool Length: 74.00 ft  
 Number of Packers: 2 Diameter: 6.75 inches  
 Tool Comments:

**Tool Description Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Shut In Tool	5.00			3511.00	
Hydraulic tool	5.00			3516.00	
Jars	5.00			3521.00	
Safety Joint	3.00			3524.00	
Packer	5.00			3529.00	28.00
Packer	5.00			3534.00	Bottom Of Top Packer
Stubb	1.00			3535.00	
Recorder	0.00	6752	Inside	3535.00	
Recorder	0.00	6741	Outside	3535.00	
Perforations	42.00			3577.00	
Bullnose	3.00			3580.00	46.00
<b>Total Tool Length:</b>					<b>74.00</b>
					Bottom Packers & Anchor



**TRILOBITE**  
TESTING, INC

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Great Plains Energy	Moffet #1-32
6121 South 58th street Ste. B	<b>32 2 23w Norton, KS</b>
Lincoln, NE 68516	Job Ticket: 43720
ATTN: Rich Bell	DST#: 4
	Test Start: 2011.07.23 @ 16:45:00

**Mud and Cushion Information**

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Mud Weight: 9.00 lb/gal	Cushion Length:	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume:		
Water Loss: 7.19 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm-m	Gas Cushion Pressure:		psig
Salinity: 2000.00 ppm			
Filter Cake: 2.00 inches			

**Recovery Information**

Recovery Table

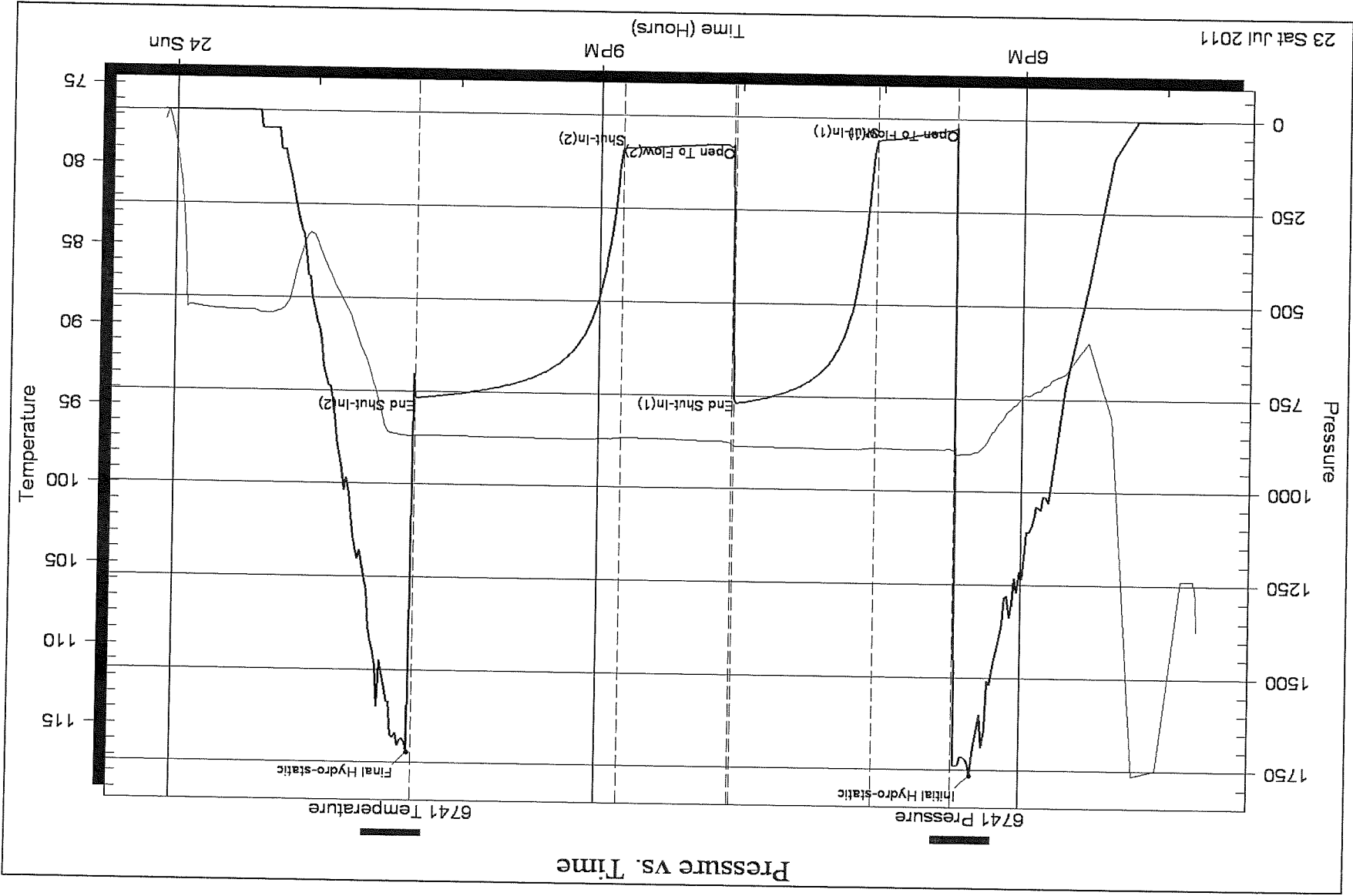
Length ft	Description	Volume bbl
60.00	ocw-m-10%a40%w 50%a/m	0.295
60.00	ocw-m-20%a20%w 60%a/m	0.295
30.00	ocm-40%a60%a/m	0.421

Total Length: 150.00 ft      Total Volume: 1.011 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:





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**GREAT PLAINS ENERGY, INC.**  
**Box 292**  
**Wahoo, NE 68066**

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**MOFFET #1-32**  
Sec 32, Twp 02S, R 23W  
Norton Co., KS

## **Pipe Set**

*Prepared for:* Dan Blankenau

07/28/11

*Prepared by:*  
X-Hand Engineering, Inc.  
Harold Bellerive  
1269 F. Road  
Morland, KS 67650  
(785-627-4531)



GREAT PLAINS ENERGY, INC.  
Moffet #1-32  
July 24, 2011

Anhy. 1876'-1906'

Ran joints #3 as shoe joint (42.58'), joints #4 through joint #11, joint #2, joints #12 through joint #43 (D.V. tool on top of joint) then joints #44 through joint #87. Joint #1 is out (20.40'). Pipe set at 3637'. Centralizers on joints #4, #5, #6, #7, #8, #9, #11, #12, #13 and #42. Baskets put on joints #14 and #43.

Total 5½", 15.5#	3,629.10'
Float Equipment	3.00'
Landing Joint	<u>8.00'</u>
Total	3,640.10'

7:00 p.m. Started in hole with pipe.

9:15 p.m. Tagged up. Broke circulation.

10:15 p.m. Viscosity down to 37.

10:20 p.m. Pumped mud-flush.

10:25 p.m. Started mixing cement.

10:40 p.m. Done mixing. Washed up. Started displacement—60 bbls @ 250#, 65 bbls @ 300#, 70 bbls @ 350#, 75 bbls @ 450#, 80 bbls @ 525# and 85 bbls @ 600#.

11:00 p.m. Landed plug @ 85.6 bbls with 1300#. Dropped D.V. opener.

11:30 p.m. Opened D.V.





GREAT PLAINS ENERGY, INC.  
Moffet #1-32  
July 25, 2011

2:35 a.m. Plugged rat-hole with 30 sacks. Started mixing cement.

3:05 a.m. Done mixing. Started displacement—20 bbls @ 550#, 25 bbls @ 600#, 30 bbls @ 625#, 35 bbls @ 650#, 40 bbls @ 675# and 45 bbls @ 675#.

3:17 a.m. Landed plug at 46 bbls with 1700#.



# ALLIED CEMENTING CO., LLC. 039985

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Reilly, KS

DATE <u>7/18/11</u>	SEC <u>32</u>	TWP. <u>2</u>	RANGE <u>23</u>	CALLED OUT	ON LOCATION	JOB START <u>11:30 AM</u>	JOB FINISH <u>12:00 PM</u>
LEASE <u>Moffitt</u>	WELL # <u>1-32</u>	LOCATION <u>Norton 2W 34N</u>			COUNTY <u>Norton KS</u>	STATE	
OLD OR NEW (Circle one)							

CONTRACTOR WW OWNER Same

TYPE OF JOB Surface  
 HOLE SIZE 12.14 T.D. 219'  
 CASING SIZE P58 DEPTH 219'  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT

CEMENT AMOUNT ORDERED 160 600 370cc  
879gal  
 COMMON 160 @ 16<sup>25</sup> 2600<sup>00</sup>  
 POZMIX @ @  
 GEL @ 21<sup>25</sup> 63<sup>25</sup>  
 CHLORIDE 6 @ 349<sup>20</sup>  
 ASC @ @

DISPLACEMENT 12,999  
 EQUIPMENT  
 PUMP/TRUCK CEMENTER Ala  
 # 422 HELPER Wayne  
 BULK TRUCK # 404 DRIVER ETP  
 BULK TRUCK # DRIVER

REMARKS:  
Blw Coy, Circulate Mix Cement  
Displace Cement  
Cement Dick Circulate  
7 post hole  
Ala, Wayne, Ethanol Vehicle 90X2

DEPTH OF JOB 219'  
 PUMP TRUCK CHARGE 1125<sup>00</sup>  
 EXTRA FOOTAGE @ 2<sup>00</sup> 1260<sup>00</sup>  
 MILEAGE 90X2 @ 4<sup>00</sup> 220<sup>00</sup>  
 MANIFOLD @  
 HANDLING 169 @ 2<sup>25</sup> 380<sup>25</sup>  
 MILEAGE/1.45k/mile @ 1673<sup>10</sup>  
 TOTAL 5066<sup>30</sup>

CHARGE TO: Great Plains Energy  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 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.

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

PRINTED NAME Mark Baise  
 SIGNATURE Mark Baise

