



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: _____



1104468

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> <input type="checkbox"/> Other <i>(Specify)</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	PERSINGER 1-29
Doc ID	1104468

Tops

Name	Top	Datum
Anhydrite	2053	+403
Base	2084	+372
Topeka	3307	-851
Heebner	3500	-1044
Toronto	3530	-1074
Lansing	3543	-1087
BKC	3726	-1270
Arbuckle	3780	-1324
Granite	3871	-1415

REMIT TO
RR 1 BOX 90 D
HOXIE KS 67740

SCHIPPERS OIL FIELD SERVICE L.L.C.

557

DATE <i>3/12/12</i>	SEC. <i>29</i>	RANGE/TWP. <i>3-23</i>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <i>Peringer Farms</i>			WELL # <i>1-27</i>		COUNTY <i>W</i>	STATE <i>KS</i>

CONTRACTOR	<i>W W 6</i>	OWNER	<i>Great Plains</i>
TYPE OF JOB	<i>Surf ace</i>	CEMENT	
HOLE SIZE	<i>12 1/2</i>	AMOUNT ORDERED	
CASING SIZE	<i>8 3/8</i>		
TUBING SIZE			
DRILL PIPE	<i>97</i>		
TOOL			
PRES. MAX		COMMON	<i>@ 15 1/2</i>
DISPLACEMENT	<i>18 bbl</i>	POZMIX	<i>@</i>
CEMENT LEFT IN CSG.	<i>15 1/4</i>	GEL	<i>@ 26</i>
PERFS		CHLORIDE	<i>@ 52</i>
EQUIPMENT		ASC	<i>@</i>
PUMP TRUCK			<i>@</i>
#			<i>@</i>
BULK TRUCK			<i>@</i>
#			<i>@</i>
BULK TRUCK			<i>@</i>
#			<i>@</i>
		HANDLING	<i>@ 2 1/2</i>
		MILEAGE	<i>@ 19 1/2</i>
			TOTAL

REMARKS	SERVICE	<i>Surface</i>
<i>Play Down @ 8:00PM</i>	DEPT OF JOB	<i>@</i>
	PUMP TRUCK CHARGE	<i>@ 750</i>
	EXTRA FOOTAGE	<i>@</i>
	MILEAGE	<i>@ 6 1/2</i>
	MANIFOLD	<i>@</i>
<i>Circ Cement to Pit</i>		<i>@ 2 1/2</i>
		TOTAL

CHARGE TO:	<i>Great Plains</i>
STREET	STATE
CITY	ZIP

PLUG & FLOAT EQUIPMENT	<i>@</i>
	<i>@</i>
	<i>@</i>
	<i>@</i>
	<i>@</i>
TAX	TOTAL
TOTAL CHARGE	
DISCOUNT (IF PAID IN 20 DAYS)	

To: Schippers Oil Field Service LLC
You are hereby requested to rent cementing equipment and furnish staff 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 & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE *J. H. Wagner*

PRINTED NAME



CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676



TICKET NUMBER **34419**

LOCATION **Oakley, KS**

FOREMAN **Kelly babe**

FIELD TICKET & TREATMENT REPORT **Walt Dinkel**

CEMENT

DATE **3-14-12** CUSTOMER # **3282** WELL NAME & NUMBER **Persinger Farms** SECTION **29** TOWNSHIP **3** RANGE **23** COUNTY **Morton**
 CUSTOMER **Great Plains Energy Inc** HOLE DEPTH **3820** CASING SIZE & WEIGHT **5 1/2 15.1**
 MAILING ADDRESS **540 Rds** TUBING **D 10 Tool top of #45** OTHER **PS @ 2060**
2401 N WATER gal/sk _____ CEMENT LEFT IN CASING **20.69**
410 MIX PSI _____ RATE **6bb/min**
Minto STATE _____ ZIP CODE _____

JOB TYPE **Prod** HOLE SIZE **7 7/8** DRILL PIPE _____ SLURRY VOL _____ DISPLACEMENT PSI _____
 CASING DEPTH **3820** DRILL PIPE _____ SLURRY VOL _____ DISPLACEMENT PSI _____
 SLURRY WEIGHT **138** WATER gal/sk _____ MIX PSI _____
 DISPLACEMENT **95/100** CEMENT LEFT IN CASING **20.69** RATE **6bb/min**

REMARKS: **Safety meeting, Rigged up on W&W Drilling Rig #6, hooked up to circulate, circulated in, mixed mud flush, pumped 30bb KCL, mixed 30 SKS RH, mixed 175 SKS down the center, shut down, washed out pumps & lines, released plug, displaced with 94 bbl water, 200 # lift pressure, plug landed @ 1700ft, released pressure float held, rigged down & left location.**

SCRATCHERS ON #3, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12 **Stewart G. Fox**
 Baskets b445, cent, 3, 3, 4, 7, 9, 11, 44 **Walt, Kelly & crew**

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION OF SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	3220.00	3220.00
5406	50	MILEAGE	5.00	250.00
1126	195 SKS	OWC	22.55	4397.35
1110A	975 #	KOL-SSA1	1.56	546.00
5407A	10.1	Ton Mileage delivery	16.7	843.35
4104	2	5 1/2 Basket	276.00	552.00
4130	7	5 1/2 centralizer	58.00	406.00
41314	40	5 1/2 Reciprocating scratcher	28.00	1120.00
4228B	1	5 1/2 AFU Float shoe	206.00	206.00
4285	1	5 1/2 Portcollar	202.00	202.00
1144G	500 gal	mud flush	1.00	500.00
1142A	2 gal	KCL	39.10	78.20
41454	1	5 1/2 Latchdown assm. with plug	303.00	303.00
				16,296.80
				1629.68
				14667.12
			SALES TAX	773.09
			ESTIMATED TOTAL	15440.12

Revin 9787

12:30 AM 3-15-12

AUTHORIZATION

TITLE _____

DATE 3-15-12

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 form.



DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy**

6121 S 58th St. STE - B
Lincoln, NE 66516

ATTN: Clayton Erickson

Persinger #1-29

29-3s-23w Norton,KS

Start Date: 2012.03.09 @ 22:38:00

End Date: 2012.03.10 @ 05:16:15

Job Ticket #: 45616 DST #: 1

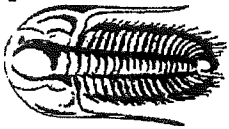
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

ORIGINAL

Printed: 2012.03.22 @ 10:25:24



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Great Plains Energy
6121 S 58th St. STE - B
Lincoln, NE 68516
ATTN: Clayton Erickson

29-3s-23w Norton, KS
Persinger #1-29
Job Ticket: 45616 **DST#: 1**
Test Start: 2012.03.09 @ 22:38:00

GENERAL INFORMATION:

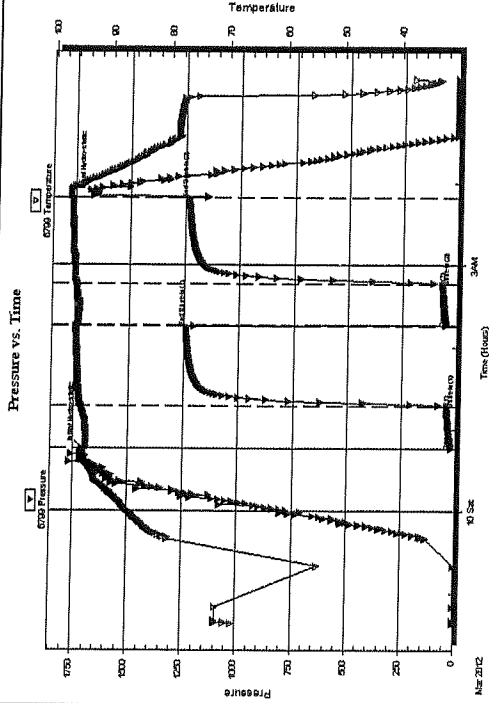
Formation: Toronto - LKC "A"
Deviated: No Whipstock:
Time Tool Opened: 00:46:15
Time Test Ended: 05:16:15
Interval: **3495.00 ft (KB) To 3555.00 ft (KB) (TVD)**
Total Depth: 3555.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 43
Reference Elevations: 2454.00 ft (KB)
2449.00 ft (CF)
5.00 ft
KB to GR/CF:

Serial #: 6799
Press@RunDepth: 67.94 psig @ 3496.00 ft (KB)
Start Date: 2012.03.09 End Date:
Start Time: 22:38:05 End Time:

Capacity: 8000.00 psig
Last Calib.: 2012.03.10
Time On Btm: 2012.03.10 @ 00:46:00
Time Off Btm: 2012.03.10 @ 03:50:45

TEST COMMENT: IF- Weak Surface blow died in 10 min.
IS- No Return
FF- No Blow
FS- No Return



PRESSURE SUMMARY

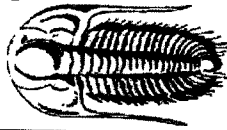
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1712.97	94.60	Initial Hydro-static
1	20.84	94.17	Open To Flow (1)
31	42.64	94.96	Shut-In(1)
90	1244.53	96.06	End Shut-In(1)
91	48.93	95.67	Open To Flow (2)
121	67.94	95.97	Shut-In(2)
184	1233.92	96.84	End Shut-In(2)
185	1670.54	97.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bb)
60.00	Mud 100M	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy

29-3s-23w Norton, KS

6121 S 58th St. STE - B
Lincoln, NE 66516

Persinger #1-29

Job Ticket: 45616

DST#: 1

ATTN: Clayton Erickson

Test Start: 2012.03.09 @ 22:38:00

Tool Information

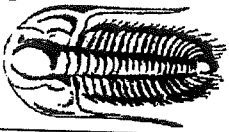
Drill Pipe: Length: 3364.00 ft Diameter: 3.80 inches Volume: 47.19 bbl Tool Weight: 2500.00 lb
 Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl Weight set on Packer: 25000.00 lb
 Drill Collar: Length: 120.00 ft Diameter: 2.25 inches Volume: 0.59 bbl Weight to Pull Loose: 38000.00 lb

Drill Pipe Above KB: 18.00 ft Total Volume: 47.78 bbl Tool Chased ft
 Depth to Top Packer: 3495.00 ft String Weight: Initial 30000.00 lb
 Depth to Bottom Packer: ft Final 30000.00 lb
 Interval between Packers: 60.00 ft
 Tool Length: 89.00 ft

Number of Packers: 2 Diameter: 6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3467.00	
Shut In Tool	5.00			3472.00	
Hydraulic tool	5.00			3477.00	
Jars	5.00			3482.00	
Safety Joint	3.00			3485.00	
Packer	5.00			3490.00	29.00
Packer	5.00			3495.00	Bottom Of Top Packer
Stubb	1.00			3496.00	
Recorder	0.00	8648	Inside	3496.00	
Recorder	0.00	6799	Inside	3496.00	
Perforations	23.00			3519.00	
Drill Pipe	31.00			3550.00	
Bullnose	5.00			3555.00	60.00
Total Tool Length:					89.00
					Bottom Packers & Anchor



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Great Plains Energy

29-3s-23w Norton, KS

FLUID SUMMARY

6121 S 58th St. STE - B
Lincoln, NE 66516

Persinger #1-29

Job Ticket: 45616
DST#: 1

ATTN: Clayton Erickson

Test Start: 2012.03.09 @ 22:38:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 57.00 sec/qt
Water Loss: 6.36 in³
Resistivity: 0.00 ohm.m
Salinity: 1200.00 ppm
Filter Cake: 2.00 inches

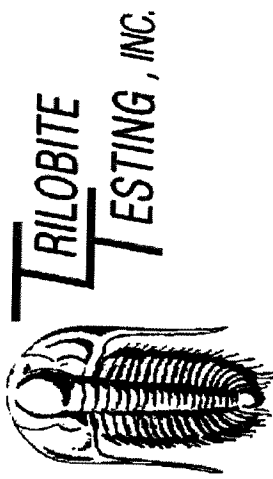
Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type: psig
Gas Cushion Pressure:
Oil API:
Water Salinity: deg API
ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Mud 100M	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0
 Laboratory Name: Laboratory Location:
 Recovery Comments: Serial #:



DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy**

6121 S 58th St. STE - B
Lincoln, NE 66516

ATTN: Clayton Erickson

Persinger #1-29

29-3s-23w Norton,KS

Start Date: 2012.03.10 @ 13:03:00

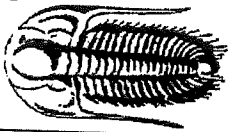
End Date: 2012.03.10 @ 20:30:00

Job Ticket #: 45617 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Great Plains Energy

29-3s-23w Norton,KS

6121 S 58th St. STE.- B
Lincoln, NE 66516

Persinger #1-29

Job Ticket: 45617

DST#: 2

ATTN: Clayton Erickson

Test Start: 2012.03.10 @ 13:03:00

GENERAL INFORMATION:

Formation: LKC "C-D"
Deviated: No Whipstock:
Time Tool Opened: 15:24:45
Time Test Ended: 20:30:00

ft (KB)

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 43

Interval: **3555.00 ft (KB) To 3594.00 ft (KB) (TVD)**
Total Depth: 3594.00 ft (KB) (TVD)

Reference Elevations: 2454.00 ft (KB)
2449.00 ft (CF)
5.00 ft
KB to GRVCF:

Hole Diameter: 7.88 inchesHole Condition: Good

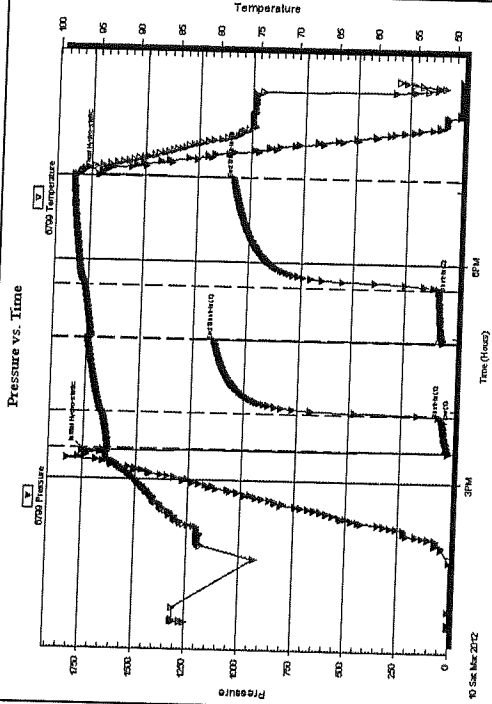
Serial #: 6799

Inside

Press@RunDepth: 91.71 psig @ 3556.00 ft (KB)
Start Date: 2012.03.10 End Date:
Start Time: 13:03:05 End Time:

Capacity: 8000.00 psig
Last Calib.: 2012.03.10
Time On Btm: 2012.03.10 @ 15:23:45
Time Off Btm: 2012.03.10 @ 19:10:00

TEST COMMENT: IF- Surface blow built to 1/4" Then died back to 1/8"
IS- No Return
FF- Surface blow built to 1/8" Then died backto surface.
FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1752.26	93.24	Initial Hydro-static
1	23.14	92.83	Open To Flow (1)
31	73.45	93.48	Shut-In(1)
91	1148.54	95.65	End Shut-In(1)
92	66.63	95.31	Open To Flow (2)
135	91.71	96.18	Shut-In(2)
225	1078.34	97.90	End Shut-In(2)
227	1716.46	97.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud (heavy) 100M	0.02
55.00	MW 15M 85W	0.27
60.00	MW 30M 70W	0.30
10.00	OSWM 70M 30W (oil spots)	0.14
1.00	Free oil 100o	0.01

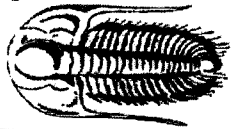
Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)

TriLOBITE Testing, Inc

Ref. No: 45617

Printed: 2012.03.22 @ 10:25:54



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy
6121 S 58th St. STE - B
Lincoln, NE 66516

29-3s-23w Norton, KS

Persinger #1-29

Job Ticket: 45617

DST#: 2

ATTN: Clayton Erickson

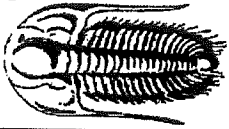
Test Start: 2012.03.10 @ 13:03:00

Tool Information

Drill Pipe: Length: 3427.00 ft Diameter: 3.80 inches Volume: 48.07 bbl Tool Weight: 2500.00 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: 45000.00 lb
 Drill Pipe Above KB: 21.00 ft Total Volume: 48.66 bbl Tool Chased ft
 Depth to Top Packer: 3555.00 ft String Weight: Initial 38000.00 lb Final 38000.00 lb
 Depth to Bottom Packer: ft
 Interval between Packers: 39.00 ft
 Tool Length: 68.00 ft
 Number of Packers: 2 Diameter: 6.75 inches
 Tool Comments:

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

Change Over Sub	1.00			3527.00	
Shut In Tool	5.00			3532.00	
Hydraulic tool	5.00			3537.00	
Jars	5.00			3542.00	
Safety Joint	3.00			3545.00	
Packer	5.00			3550.00	29.00
Packer	5.00			3555.00	Bottom Of Top Packer
Stubb	1.00			3556.00	
Recorder	0.00	8648	Inside	3556.00	
Recorder	0.00	6799	Inside	3556.00	
Perforations	3.00			3559.00	
Drill Pipe	30.00			3589.00	
Bullnose	5.00			3594.00	39.00
Total Tool Length:				68.00	Bottom Packers & Anchor



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy

29-3s-23w Norton, KS

6121 S 58th St. STE - B
Lincoln, NE 66516

Persinger #1-29

Job Ticket: 45617

DST#: 2

ATTN: Clayton Erickson

Test Start: 2012.03.10 @ 13:03:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 6.37 in³
Resistivity: 0.00 ohm.m
Salinity: 1600.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type: psig
Gas Cushion Pressure:
Oil API:
Water Salinity: 20000 ppm
deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud (heavy) 100M	0.025
55.00	MW 15M 85W	0.270
60.00	MW 30M 70W	0.295
10.00	OSWM 70M 30W (oil spots)	0.140
1.00	Free oil 100o	0.014

Total Length: 131.00 ft Total Volume: 0.744 bbl

Num Fluid Samples: 0

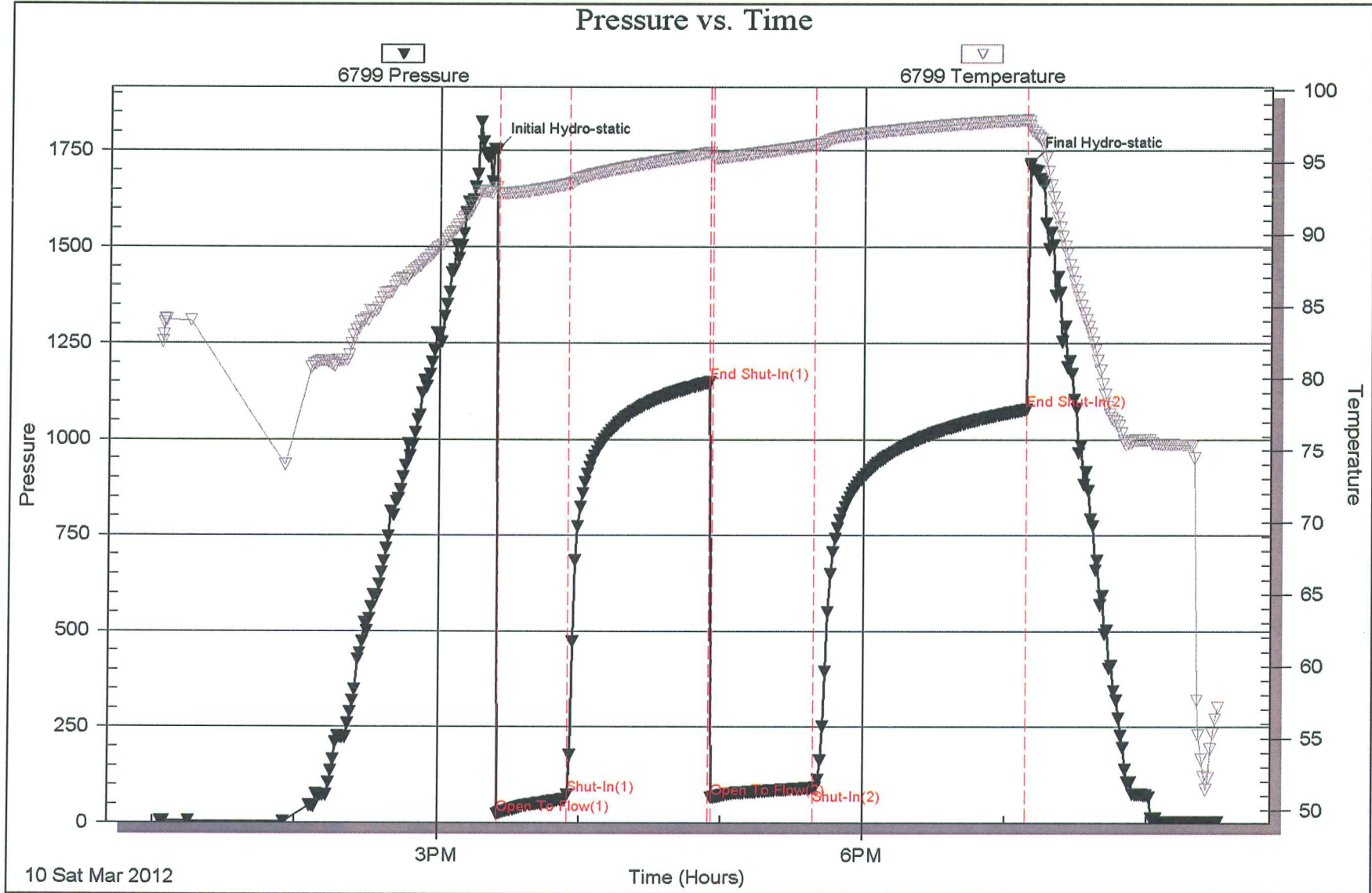
Num Gas Bombs: 0

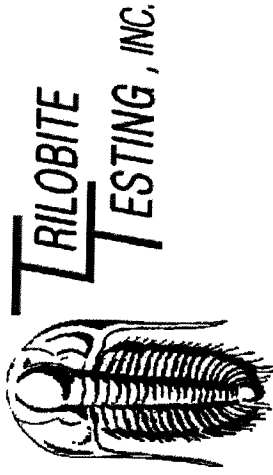
Laboratory Name:

Laboratory Location:

Serial #:

Recovery Comments: RW .43 @ 66 deg = 20,000ppm





DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy**

6121 S 58th St. STE - B
Lincoln, NE 66516

ATTN: Clayton Erickson

Persinger #1-29

29-3s-23w Norton,KS

Start Date: 2012.03.11 @ 07:04:00

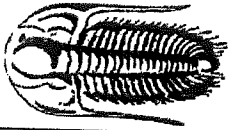
End Date: 2012.03.11 @ 14:02:45

Job Ticket #: 45618 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Great Plains Energy
6121 S 58th St. STE - B
Lincoln, NE 68516
ATTN: Clayton Erickson

29-3s-23w Norton, KS
Persinger #1-29
Job Ticket: 45618 DST#: 3
Test Start: 2012.03.11 @ 07:04:00

GENERAL INFORMATION:

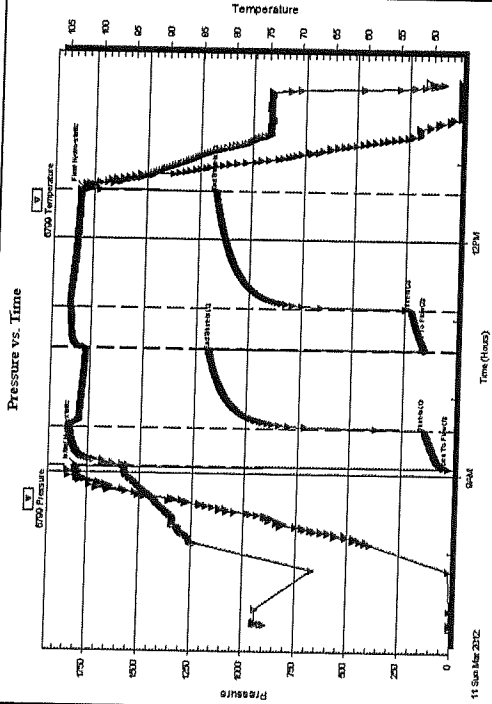
Formation: LKC "H"
Deviated: No Whipstock:
Time Tool Opened: 09:05:30
Time Test Ended: 14:02:45
Interval: 3635.00 ft (KB) To 3660.00 ft (KB) (TVD)
Total Depth: 3660.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 43
Reference Elevations: 2454.00 ft (KB)
2449.00 ft (CF)
5.00 ft
KB to GR/CF:

Serial #: 6799 Inside
Press@RunDepth: 219.68 psig @ 3636.00 ft (KB)
Start Date: 2012.03.11 End Date:
Start Time: 07:04:05 End Time:

Capacity: 8000.00 psig
Last Calib.: 2012.03.11
Time On Btm: 2012.03.11 @ 09:04:45
Time Off Btm: 2012.03.11 @ 12:38:00

TEST COMMENT: IF- BoB in 13 min.
IS- No Return
FF- BoB in 20 min.
FS- No Return



PRESSURE SUMMARY

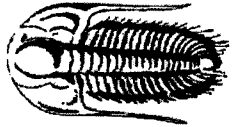
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1800.33	95.40	Initial Hydro-static
1	27.15	94.91	Open To Flow (1)
30	142.27	103.75	Shut-In(1)
91	1176.07	101.69	End Shut-In(1)
92	146.26	101.78	Open To Flow (2)
123	219.68	104.01	Shut-In(2)
213	1160.72	102.94	End Shut-In(2)
214	1798.72	101.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud (Heavy) 100M	0.02
175.00	MW 5M 95W	1.41
220.00	MW 10M 90W	3.09

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy

29-3s-23w Norton, KS

6121 S 58th St. STE - B
Lincoln, NE 66516

Persinger #1-29

Job Ticket: 45618

DST#: 3

ATTN: Clayton Erickson

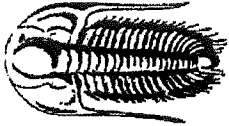
Test Start: 2012.03.11 @ 07:04:00

Tool Information

Drill Pipe: Length: 3491.00 ft Diameter: 3.80 inches Volume: 48.97 bbl Tool Weight: 2500.00 lb
 Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl Weight set on Packer: 2500.00 lb
 Drill Collar: Length: 120.00 ft Diameter: 2.25 inches Volume: 0.59 bbl Weight to Pull Loose: 50000.00 lb
 Drill Pipe Above KB: 5.00 ft Total Volume: 49.56 bbl Tool Chased ft
 Depth to Top Packer: 3635.00 ft String Weight: Initial 35000.00 lb Final 39000.00 lb
 Depth to Bottom Packer: ft
 Interval between Packers: 25.00 ft
 Tool Length: 54.00 ft
 Number of Packers: 2 Diameter: 6.75 inches
 Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3607.00	
Shut In Tool	5.00			3612.00	
Hydraulic tool	5.00			3617.00	
Jars	5.00			3622.00	
Safety Joint	3.00			3625.00	
Packer	5.00			3630.00	29.00 Bottom Of Top Packer
Packer	5.00			3635.00	
Stubb	1.00			3636.00	
Recorder	0.00	8648	Inside	3636.00	
Recorder	0.00	6799	Inside	3636.00	
Perforations	19.00			3655.00	
Bullnose	5.00			3660.00	25.00 Bottom Packers & Anchor

Total Tool Length: 54.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy

29-3s-23w Norton,KS

6121 S 58th St. STE - B
Lincoln, NE 66516

Persinger #1-29

Job Ticket: 45618

DST#: 3

ATTN: Clayton Erickson

Test Start: 2012.03.11 @ 07:04:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 6.37 in³
Resistivity: 0.00 ohm.m
Salinity: 1600.00 ppm
Filter Cake: 2.00 inches

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

Oil API: deg API
Water Salinity: 40000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud (Heavy) 100M	0.025
175.00	MW 5M 95W	1.407
220.00	MW 10M 90W	3.086

Total Length: 400.00 ft Total Volume: 4.518 bbl

Num Fluid Samples: 0

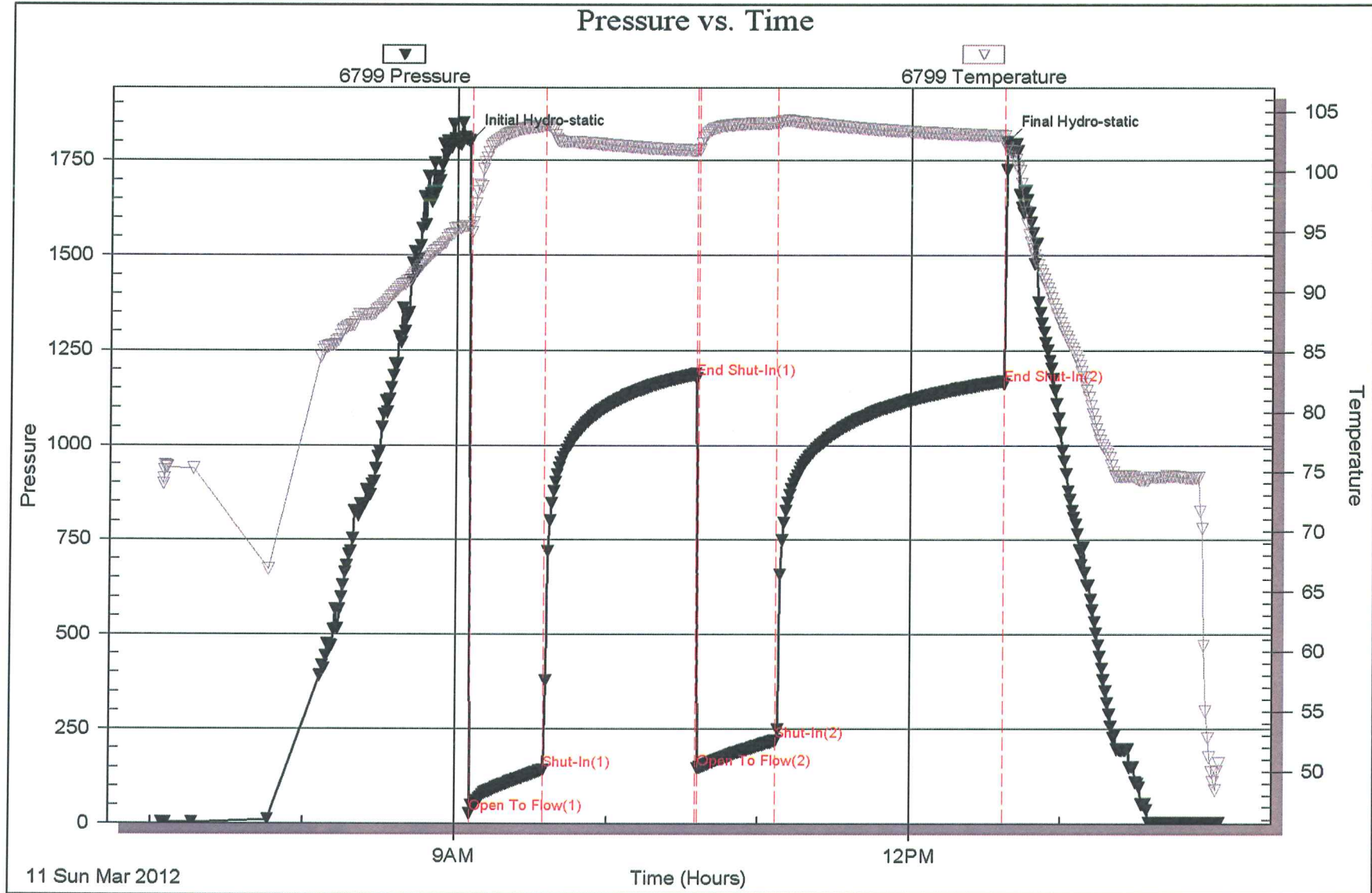
Num Gas Bombs: 0

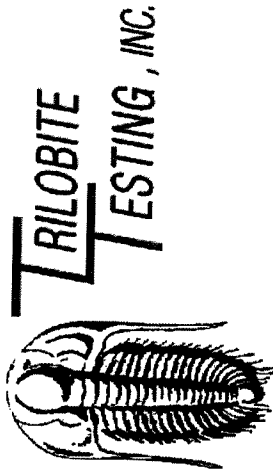
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .2 @ 64 = 40,000ppm

Serial #:





DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy**

6121 S 58th St. STE - B
Lincoln, NE 66516

ATTN: Clayton Erickson

Persinger #1-29

29-3s-23w Norton,KS

Start Date: 2012.03.11 @ 21:47:00

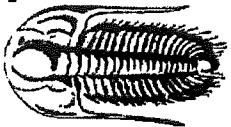
End Date: 2012.03.12 @ 05:04:00

Job Ticket #: 45619 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Great Plains Energy
6121 S 58th St. STE - B
Lincoln, NE 68516
ATTN: Clayton Erickson

29-3s-23w Norton, KS
Persinger #1-29
Job Ticket: 45619 **DST#: 4**
Test Start: 2012.03.11 @ 21:47:00

GENERAL INFORMATION:

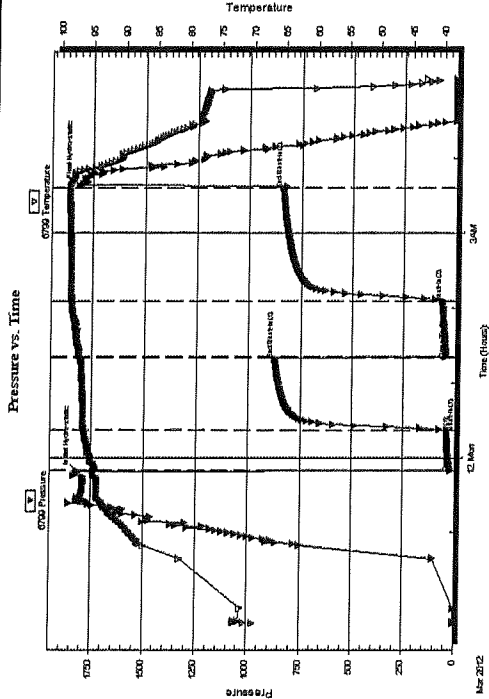
Formation: LKC "J-K"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:49:45
Time Test Ended: 05:04:00
Interval: 3660.00 ft (KB) To 3704.00 ft (KB) (TVD)
Total Depth: 4704.00 ft (KB) (TVD)
Hole Diameter: 7.88 inchesHole Condition: Good

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 43
Reference Elevations: 2454.00 ft (KB)
2449.00 ft (CF)
5.00 ft
KB to GR/CF:

Serial #: 6799 Inside
Press@RunDepth: 64.07 psig @ 3661.00 ft (KB)
Start Date: 2012.03.11 End Date:
Start Time: 21:47:05 End Time:

Capacity: 8000.00 psig
Last Callb.: 2012.03.12
Time On Btm: 2012.03.11 @ 23:48:45
Time Off Btm: 2012.03.12 @ 03:38:45

TEST COMMENT: IF- Surface blow built to 2"
IS- No Return
FF- Surface blow started at 15 min. Built to 1"
FS- No Return



PRESSURE SUMMARY

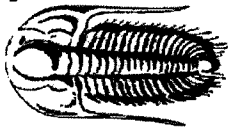
Time (M/n.)	Pressure (psig)	Temp (deg F)	Annotation
0	1813.94	94.75	Initial Hydro-static
1	22.71	94.36	Open To Flow (1)
33	41.55	96.21	Shut-In(1)
91	875.97	96.79	End Shut-In(1)
92	47.06	96.68	Open To Flow (2)
137	64.07	98.25	Shut-In(2)
228	838.26	98.68	End Shut-In(2)
230	1814.05	98.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	Mud 100M	0.39

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy
6121 S 58th St. STE - B
Lincoln, NE 68516

29-3s-23w Norton, KS

Persinger #1-29

Job Ticket: 45619

DST#: 4

ATTN: Clayton Erickson

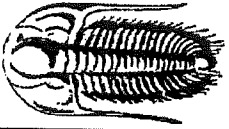
Test Start: 2012.03.11 @ 21:47:00

Tool Information

Drill Pipe:	Length: 3521.00 ft	Diameter: 3.80 inches	Volume: 49.39 bbl	Tool Weight: 2500.00 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: 48000.00 lb
Drill Pipe Above KB:	10.00 ft	Total Volume: 49.98 bbl		Tool Chased ft
Depth to Top Packer:	3660.00 ft			String Weight: Initial 37000.00 lb
Depth to Bottom Packer:	ft			Final 38000.00 lb
Interval between Packers:	44.00 ft			
Tool Length:	73.00 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			3632.00	
Shut In Tool	5.00			3637.00	
Hydraulic tool	5.00			3642.00	
Jars	5.00			3647.00	
Safety Joint	3.00			3650.00	
Packer	5.00			3655.00	29.00
Packer	5.00			3660.00	Bottom Of Top Packer
Stubb	1.00			3661.00	
Recorder	0.00	8648	Inside	3661.00	
Recorder	0.00	6799	Inside	3661.00	
Perforations	7.00			3668.00	
Drill Pipe	31.00			3699.00	
Bullnose	5.00			3704.00	44.00
Total Tool Length:					73.00
					Bottom Packers & Anchor



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy
 29-3s-23w Norton, KS
 Persinger #1-29
 6121 S 58th St. STE - B
 Lincoln, NE 66516
 Job Ticket: 45619
 DST#: 4
 ATTN: Clayton Erickson
 Test Start: 2012.03.11 @ 21:47:00

Mud and Cushion Information

Mud Type: Gel Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 52.00 sec/qt
 Water Loss: 6.78 in³
 Resistivity: 0.00 ohm.m
 Salinity: 2200.00 ppm
 Filter Cake: 2.00 inches

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

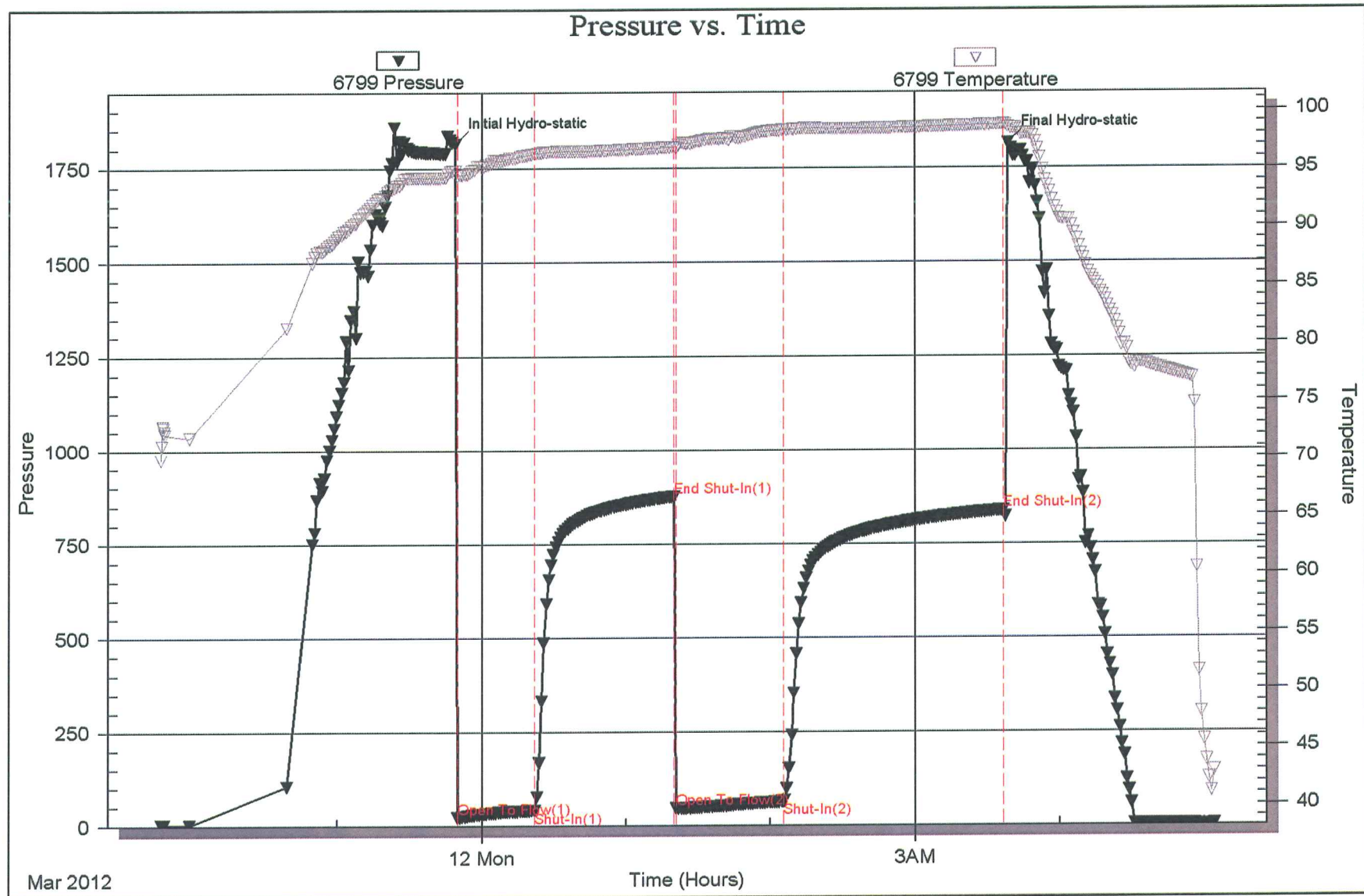
Oil API:
 Water Salinity: deg API
 ppm

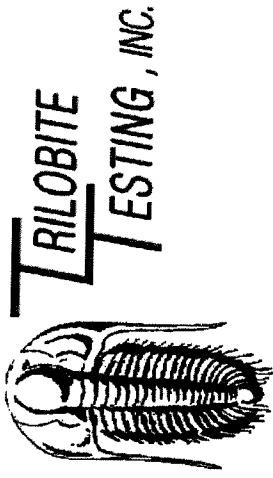
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	Mud 100M	0.393

Total Length: 80.00 ft Total Volume: 0.393 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0
 Laboratory Name: Laboratory Location:
 Recovery Comments: Serial #:





DRILL STEM TEST REPORT

Prepared For: **Great Plains Energy**

6121 S 58th St. STE - B
Lincoln, NE 66516

ATTN: Clayton Erickson

Persinger #1-29

29-3s-23w Norton,KS

Start Date: 2012.03.12 @ 05:39:00

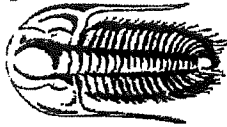
End Date: 2012.03.12 @ 13:10:45

Job Ticket #: 45620 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Great Plains Energy
6121 S 58th St. STE - B
Lincoln, NE 68516
ATTN: Clayton Erickson

29-3s-23w Norton, KS
Persinger #1-29
Job Ticket: 45620 DST#: 5
Test Start: 2012.03.12 @ 05:39:00

GENERAL INFORMATION:

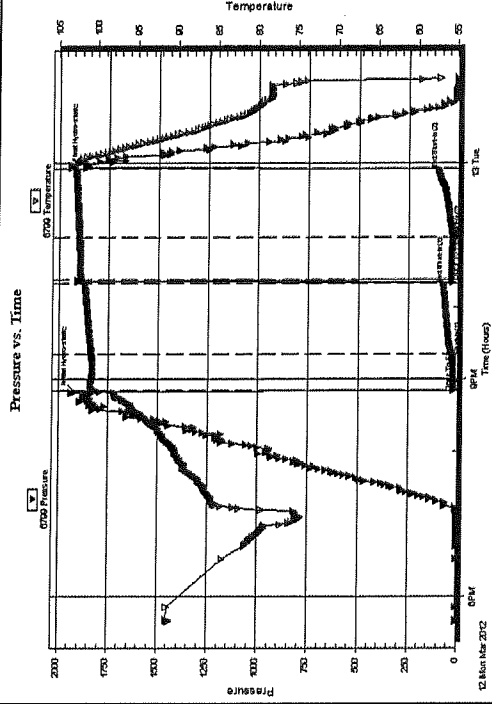
Formation: **Arbuckle**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 08:50:45
Time Test Ended: 13:10:45
Interval: **3777.00 ft (KB) To 3781.00 ft (KB) (TVD)**
Total Depth: **3781.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole (Initial)**
Tester: **Kevin Mack**
Unit No: **43**
Reference Elevations: **2454.00 ft (KB)**
2449.00 ft (CF)
5.00 ft
KB to GR/CF:

Serial #: 6799

Inside
Press@RunDepth: **26.37 psig @ 3778.00 ft (KB)**
Start Date: 2012.03.12 End Date:
Start Time: 17:39:05 End Time:

Capacity: **8000.00 psig**
Last Calib.: **2012.03.13**
Time On Btm: **2012.03.12 @ 20:49:45**
Time Off Btm: **2012.03.12 @ 23:56:30**

TEST COMMENT: IF- Weak surface blow died in 2 min.
IS- No Return
FF- No Blow - Flushed tool - No Blow
FS- No Return



PRESSURE SUMMARY

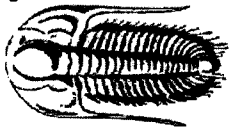
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1919.28	99.67	Initial Hydro-static
1	22.48	100.09	Open To Flow (1)
31	24.25	100.72	Shut-In(1)
90	72.64	101.59	End Shut-In(1)
93	34.22	102.11	Open To Flow (2)
129	26.37	102.29	Shut-In(2)
186	100.49	102.74	End Shut-In(2)
187	1870.26	103.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	OCM 95M 50	0.02
1.00	Free Oil 100o	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy

29-3s-23w Norton, KS

6121 S 58th St. STE - B
Lincoln, NE 68516

Persinger #1-29

Job Ticket: 45620

DST#: 5

ATTN: Clayton Erickson

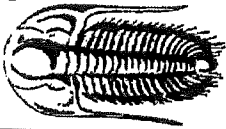
Test Start: 2012.03.12 @ 05:39:00

Tool Information

Drill Pipe:	Length: 3648.00 ft	Diameter: 3.80 inches	Volume: 51.17 bbl	Tool Weight: 2500.00 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: 48000.00 lb
Drill Pipe Above KB:	20.00 ft	Total Volume:	51.76 bbl	Tool Chased ft
Depth to Top Packer:	3777.00 ft			String Weight: Initial 40000.00 lb
Depth to Bottom Packer:	ft			Final 40000.00 lb
Interval between Packers:	4.00 ft			
Tool Length:	33.00 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			3749.00	
Shut In Tool	5.00			3754.00	
Hydraulic tool	5.00			3759.00	
Jars	5.00			3764.00	
Safety Joint	3.00			3767.00	
Packer	5.00			3772.00	29.00
Packer	5.00			3777.00	Bottom Of Top Packer
Stubb	1.00			3778.00	
Recorder	0.00	8648	Inside	3778.00	
Recorder	0.00	6799	Inside	3778.00	
Bullnose	3.00			3781.00	4.00
Total Tool Length:				33.00	Bottom Packers & Anchor



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy
 29-3s-23w Norton, KS
 Persinger #1-29
 Job Ticket: 45620 DST#: 5
 6121 S 58th St. STE - B
 Lincoln, NE 66516
 ATTN: Clayton Erickson
 Test Start: 2012.03.12 @ 05:39:00

Mud and Cushion Information

Mud Type: Gel Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 46.00 sec/qt
 Water Loss: 6.78 in³
 Resistivity: 0.00 ohm.m
 Salinity: 2700.00 ppm
 Filter Cake: 2.00 inches

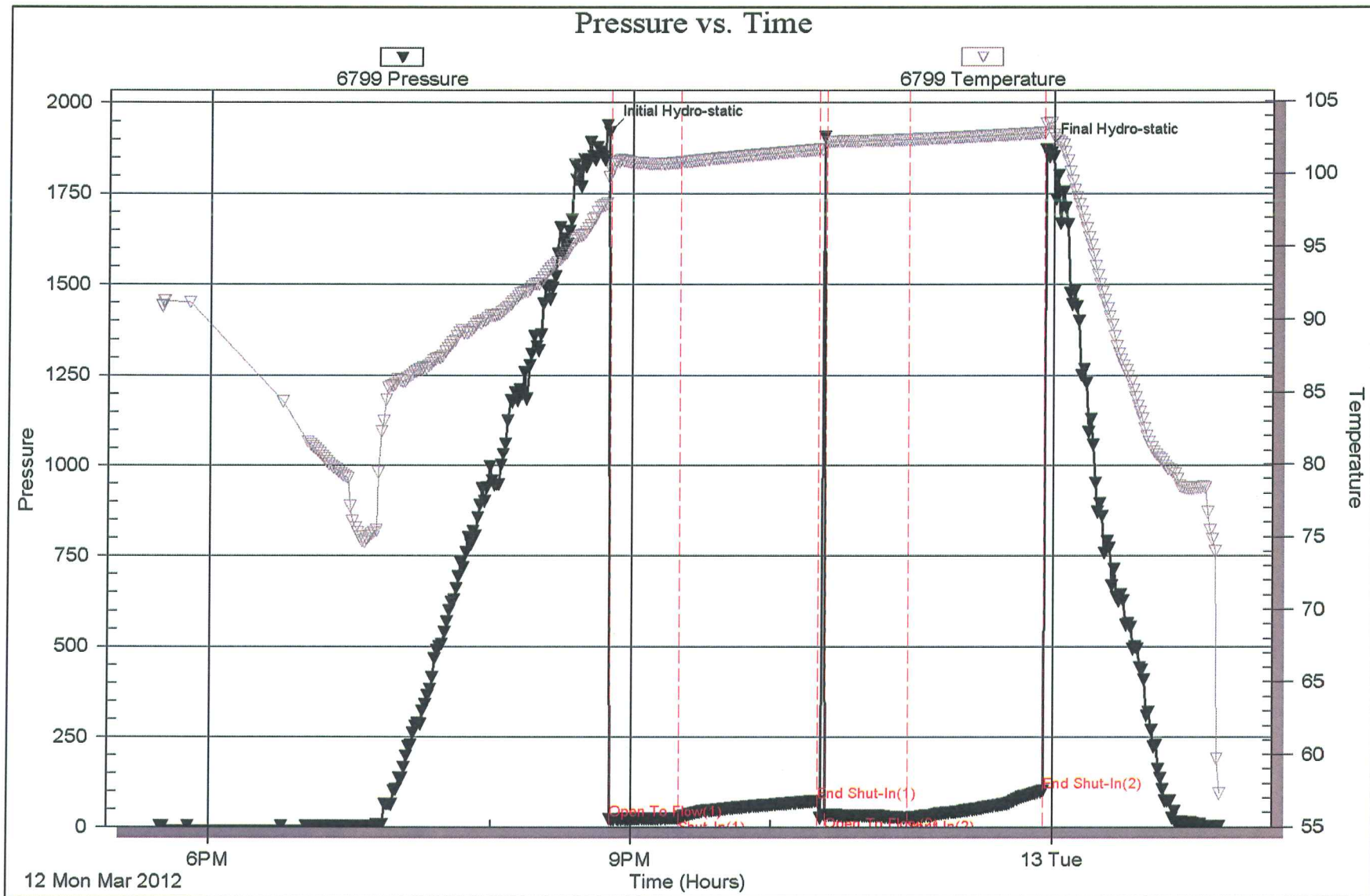
Cushion Type:
 Cushion Length: ft
 Cushion Volume: bbl
 Gas Cushion Type: psig
 Gas Cushion Pressure:
 Oil API:
 Water Salinity: deg API
 ppm

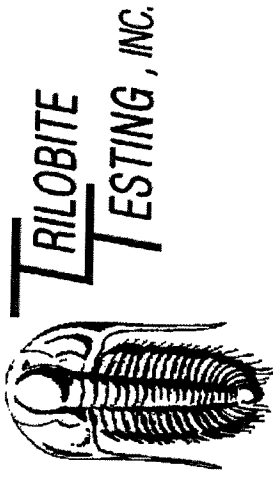
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	OCM 95M 50	0.020
1.00	Free Oil 1000	0.005

Total Length: 5.00 ft Total Volume: 0.025 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 S 58th St. STE - B
Lincoln, NE 66516

ATTN: Clayton Erickson

Persinger #1-29

29-3s-23w Norton,KS

Start Date: 2012.03.13 @ 05:43:00

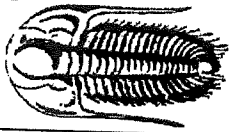
End Date: 2012.03.13 @ 12:58:00

Job Ticket #: 45621 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Great Plains Energy
 6121 S 58th St. STE - B
 Lincoln, NE 68516
 ATTN: Clayton Erickson

29-3s-23w Norton, KS
Persinger #1-29
 Job Ticket: 45621 DST#: 6
 Test Start: 2012.03.13 @ 05:43:00

GENERAL INFORMATION:

Formation: Ar buckle
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:54:45
 Time Test Ended: 12:58:00
 Interval: 3778.00 ft (KB) To 3786.00 ft (KB) (TVD)
 Total Depth: 3786.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

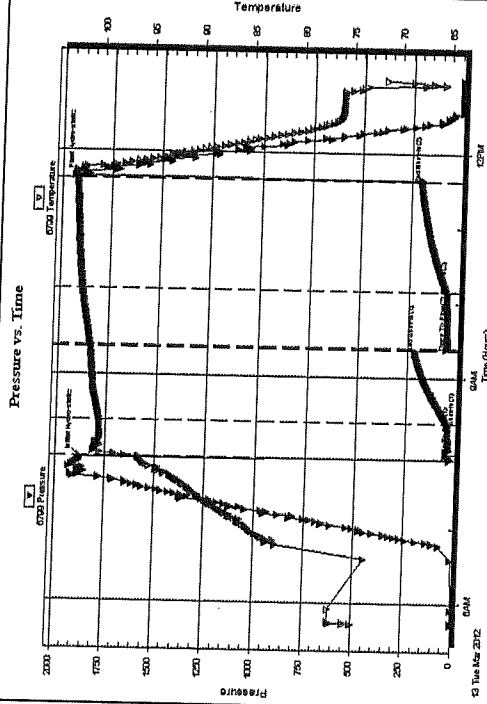
Test Type: Conventional Bottom Hole (Initial)
 Tester: Kevin Mack
 Unit No: 43
 Reference Elevations: 2454.00 ft (KB)
 2449.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6799

Press@RunDepth: 62.73 psig @ 3779.00 ft (KB)
 Start Date: 2012.03.13 End Date:
 Start Time: 05:43:05 End Time:

Capacity: 8000.00 psig
 Last Calib.: 2012.03.13
 Time On Btm: 2012.03.13 @ 07:54:30
 Time Off Btm: 2012.03.13 @ 11:39:15

TEST COMMENT: IF- 1/2" Blow built to 3 1/4"
 IS- No Return
 FF- Surface Blow started at 1 min. Built to
 FS- No Return



PRESSURE SUMMARY

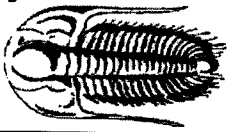
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1878.79	95.81	Initial Hydro-static
1	33.18	95.58	Open To Flow (1)
30	45.47	99.76	Shut-In(1)
89	219.21	100.80	End Shut-In(1)
90	60.03	100.75	Open To Flow (2)
135	62.73	101.75	Shut-In(2)
224	203.53	102.50	End Shut-In(2)
225	1901.42	102.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	OCWM 25o 5W 70M	0.25
40.00	Free oil 100o	0.20

Gas Rates

Choke (Inches)	Pressure (psig)	Gas Rate (Mcfd)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy

29-3s-23w Norton, KS

6121 S 58th St. STE - B
Lincoln, NE 66516

Persinger #1-29

Job Ticket: 45621 DST#: 6

ATTN: Clayton Erickson

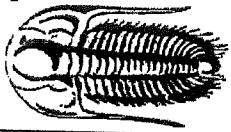
Test Start: 2012.03.13 @ 05:43:00

Tool Information

Drill Pipe: Length: 3648.00 ft Diameter: 3.80 inches Volume: 51.17 bbl Tool Weight: 2500.00 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: 48000.00 lb
 Drill Pipe Above KB: 19.00 ft Total Volume: 51.76 bbl Tool Chased ft
 Depth to Top Packer: 3778.00 ft String Weight: Initial 40000.00 lb
 Depth to Bottom Packer: ft Final 40000.00 lb
 Interval between Packers: 8.00 ft
 Tool Length: 37.00 ft
 Number of Packers: 2 Diameter: 6.75 inches
 Tool Comments:

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

Change Over Sub	1.00			3750.00	
Shut In Tool	5.00			3755.00	
Hydraulic tool	5.00			3760.00	
Jars	5.00			3765.00	
Safety Joint	3.00			3768.00	
Packer	5.00			3773.00	29.00
Packer	5.00			3778.00	Bottom Of Top Packer
Stubb	1.00			3779.00	
Recorder	0.00	8648	Inside	3779.00	
Recorder	0.00	6799	Inside	3779.00	
Perforations	4.00			3783.00	
Bullnose	3.00			3786.00	8.00
Total Tool Length:				37.00	Bottom Packers & Anchor



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy

29-3s-23w Norton, KS

6121 S 58th St. STE - B
Lincoln, NE 66516

Persinger #1-29

Job Ticket: 45621

DST#: 6

ATTN: Clayton Erickson

Test Start: 2012.03.13 @ 05:43:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 6.78 in³

Resistivity: 0.00 ohm.m

Salinity: 2700.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API: 36 deg API

Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	OCWM 25o 5W 70M	0.246
40.00	Free oil 100o	0.197

Total Length: 90.00 ft

Total Volume: 0.443 bbl

Num Fluid Samples: 0

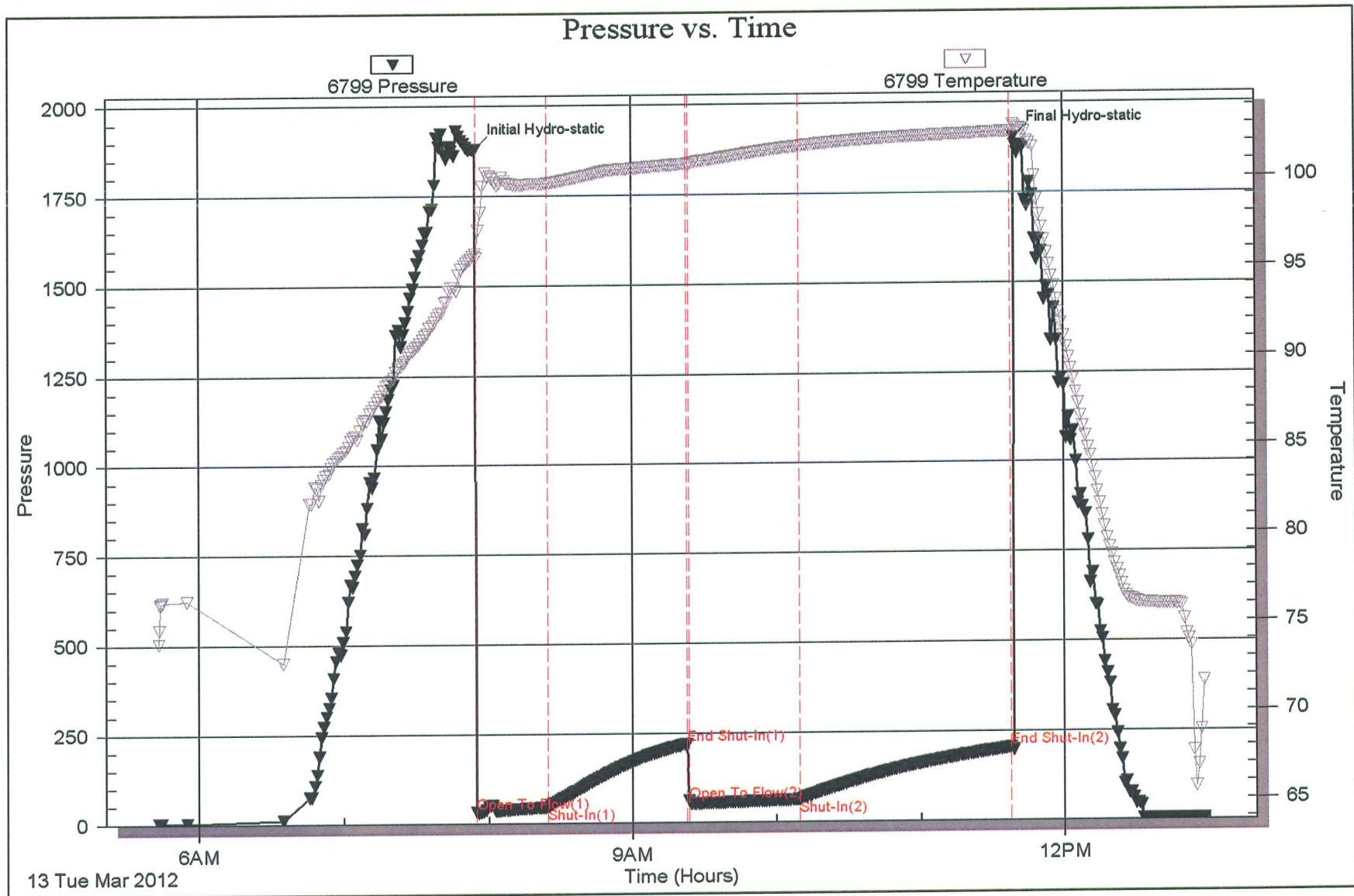
Num Gas Bombs: 0

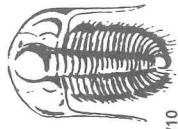
Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API 38 @ 80 deg. = 36

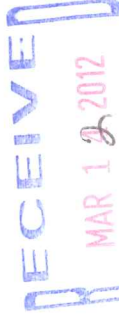
Serial #:





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601



Test Ticket

NO. **45616**

4/10

Well Name & No. Persinger Farms #1-29 Test No. 1 Date 3-9-12
 Company Great Plains Energy Elevation 2454 KB 2449 GL
 Address 6121 S 58th St STE-B Lincoln, NE 68516
 Co. Rep / Geo. Clayton Erickson Rig Wls#6
 Location: Sec. 29 Twp. 3s Rge. 23w Co. Nepton State KS

Interval Tested 3495 - 3555 Zone Tested Toronto - LKC "A"
 Anchor Length 60' Drill Pipe Run 3864 Mud Wt. 8.9
 Top Packer Depth 3491 Drill Collars Run 120' Vis 5.7
 Bottom Packer Depth 3495 Wt. Pipe Run 6 WL 6.4
 Total Depth 3555 Chlorides 4200 ppm System LCM 1.5

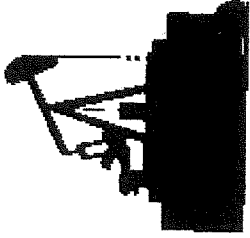
Blow Description IF - Weak Surface blow died in 10 min.
IS - No Return
FF - No Blow
FS - No Return

Rec	60	Feet of	Mud	%gas	%oil	%water	lbs	%mud
Rec		Feet of		%gas	%oil	%water		%mud
Rec		Feet of		%gas	%oil	%water		%mud
Rec		Feet of		%gas	%oil	%water		%mud
Rec		Feet of		%gas	%oil	%water		%mud

Rec Total 60 BHT 97 Gravity 1125 API RW - @ - ° F Chlorides - ppm
 (A) Initial Hydrostatic 1712 Test 1125
 (B) First Initial Flow 20 Jars 250'
 (C) First Final Flow 42 Safety Joint 75'
 (D) Initial Shut-In 12.44 Circ Sub N/C
 (E) Second Initial Flow 48 Hourly Standby
 (F) Second Final Flow 67 Mileage 80ft 112
 (G) Final Shut-In 12.33 Sampler
 (H) Final Hydrostatic 1670 Straddle

Initial Open 30 Ruined Shale Packer
 Initial Shut-In 60 Ruined Packer
 Final Flow 30 Extra Copies
 Final Shut-In 60 Sub Total 0
 Total 1502
 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]
 Triobite Testing Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Persinger #1-29
Location: NE SW NW SE 1-29
License Number: 3-6-2012
Spud Date: 1680' FSL & 2100' Sec 29, T3S, R37W
Surface Coordinates:

Region: Norton County, KS
Drilling Completed: 3/13/2012

Bottom Hole
Coordinates:
Ground Elevation (ft): 2451
Logged Interval (ft): 3200 To: TD
Formation: K.B. Elevation (ft): 2456
Total Depth (ft): 3870
Type of Drilling Fluid: Chemical Mud

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

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

GEOLOGIST

Name: Clayton Erickson
Company: Erickson Wellsite Geology
Address: 402 Palmer Street
P.O. Box 294
Loomis, NE 68958

DSTs

DST #1 3495-3555 30-60-30-60; Hydro: 1712-1670 IFP: 20-42 ISIP: 1244 FFP: 48-67 FSIP: 1233; Rec: 60' mud; IF: surface dead in 10min ISl: dead FF: dead FSl: dead

DST #2 3555-3594 30-60-45-90; Hydro: 1752-1716 IFP: 23-73 ISIP: 1148 FFP: 66-91 FSIP: 1078; Rec: 1' free oil 10' oswm 30%w 70%w 60' mw 70%w 30%w 55' mw 85%w 15%w 5' mud; RW: .43@66F Chi: 20,000ppm; IF: 1/4" died back to 1/8" ISl: dead FF: 1/8" died back to surface FSl: dead

10' oswm 30%w 70%w 60' mw 70%w 30%w 50' mw 50%w 10%w 5' mud; RW: .2@64F Chl: 40,000ppm; IF: BOB 13min ISI: dead FF: BOB 20min FSI: dead

DST #3 3635-3660 30-60-30-90; Hydro: 1800-1798 IFP: 27-142 ISIP: 1176 FFP: 146-219 FSIP: 1160; Rec: 220'mw 90%w 10%w 175'mw 95%w 5'm 5' mud; RW: .2@64F Chl: 40,000ppm; IF: BOB 13min ISI: dead FF: BOB 20min FSI: dead

DST #4 3660-3704 30-60-45-90; Hydro: 1813-1814 IFP: 22-41 ISIP: 875 FFP: 47-64 FSIP: 838; Rec: 80' mud IF: 2" ISI: dead FF: 1" FSI: dead

DST #5 3777-3781 30-60-30-60; Hydro: 1919-1870 IFP: 22-24 ISIP: 72 FFP: 34-26 FSIP: 100; Rec: 1' oil 4' ocm 5%o 95%w; IF: dead in 2min ISI: dead FF: dead FSI: dead

DST #6 3778-3786 30-60-45-90; Hydro: 1878-1901 IFP: 33-45 ISIP: 219 FFP: 60-62 FSIP: 203; Rec: 40' oil 50' wocm 25%o 5%w 70%w; Grav: 36; IF: 3 1/4" ISI: dead FF: 3" FSI: dead

COMMENTS

FORMATION TOPS

	Log Tops	Sample tops
ANHYDRITE	2053(+403)	2053(+403)
Base Anhy	2084(+372)	2086(+370)
TOPEKA	3307(-851)	3310(-854)
HEEBNER	3500(-1044)	3500(-1044)
TORONTO	3530(-1074)	3529(-1073)
LANSING	3543(-1087)	3543(-1087)
BKC	3726(-1270)	3726(-1270)
GORHAM	3770(-1314)	3769(-1313)
ARBUCKLE	3780(-1324)	3778(-1322)
Granite	3830(-1374)	3830(-1374)
TD	3871(-1415)	3870(-1414)

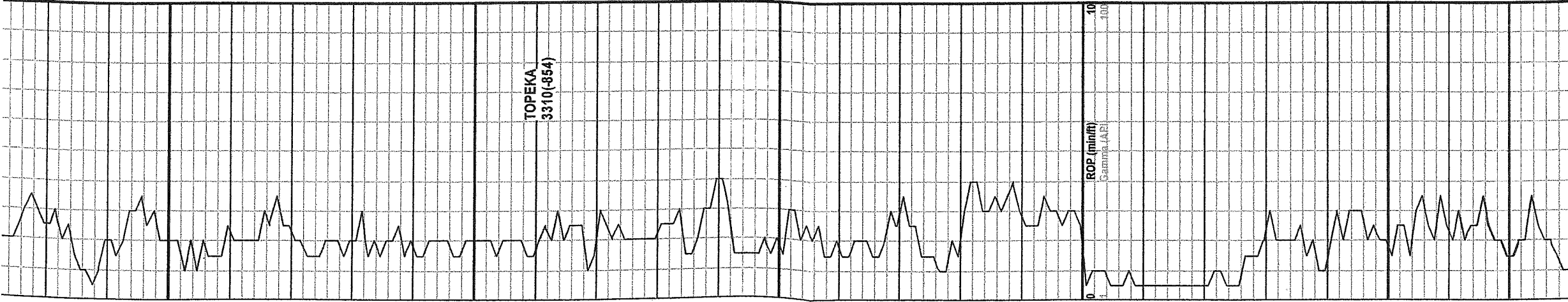
ROCK TYPES

Anhy	Clyst	Gyp	Mrlst	Shgy

OTHER SYMBOLS

Oil Show	Spotted	Dead	INTERVAL
			Dst
Even	Ques		

Curve Track 1	Depth	Lithology	Geological Descriptions	Remarks
ROP (min/ft) Gamma (API)	32		SH-grey, red-red/brwn, bl/green w/ L.S.- wht-grey, fn xtn, grn stn, n ovis por, no odor, no SFO, trace pyrite	
			SH-grey-dk grey, red/brwn w/ L.S.- crm, fn xtn, md stn, no vis por, no odor, no SFO	
			SH-grey, red/brwn	
			L.S.- crm-tan. fn xtn. dk stn. no vis por. no odor.	



3250

3300

TOPEKA
3310-(854)

3350

3400

3450

ROP (minift)

Sample AP

10

100

SH- grey, reurbrwn

L.S.- crm-tan, fn xtlr, pk stn, no vis por, no odor, no SFO

L.S.- crm, fn xtlr, gm stn, no vis por, no odor, no SFO, chiky w/ L.S.- lt grey, fn xtlr, md-pk stn, no vis por, no SFO

Dolo- wht-tan, fnly suor, poss int xtlr por, no odor, no SFO w/ L.S.- crm-lt grey, fn xtlr, md-pk stn, no vis por, no SFO, sli chiky

SH- red/brwn, grey

L.S.- crm-lt grey, fn xtlr, grey is md stn crm is pk stn, no vis por, no odor, no SFO w/ SH- red/brwn, grey

L.S.- lt grey-tan, v fn xtlr, md stn, no vis por, no odor, no SFO w/ SH- red/brwn

L.S.- as above, chiky w/ SH- red/brwn

L.S.- wht-erm, fn xtlr, gm stn, no vis por, no odor, no SFO

as above, freq arg, mild red/brwn

SH- red/brwn w/ L.S.- crm-v lt grey, fn xtlr, pk stn, no vis por, no odor, no SFO, scat dolomitic, scat org chrt

L.S.- wht-erm, fn xtlr, gm stn, no vis por, no odor, no SFO, sli chiky

SH- red/brwn w/ comm S.S.- wht, calc, v fn gm, poss int gran por, no odor, no SFO

L.S.- crm-wht, micro-fn xtlr, gm stn, v pr PP por, no odor, no SFO, v chiky w/ SH- red/brwn

L.S.- as above, chiky

as above w/ L.S.- v lt grey, fn xtlr, wk stn, no vis por, no odor, no SFO

L.S.- crm, micro-fn xtlr, pk stn, no vis por, no odor, no SFO w/ scat wht-erm chrt

SH- blk w/ SH- v pale grey/bl, sandy

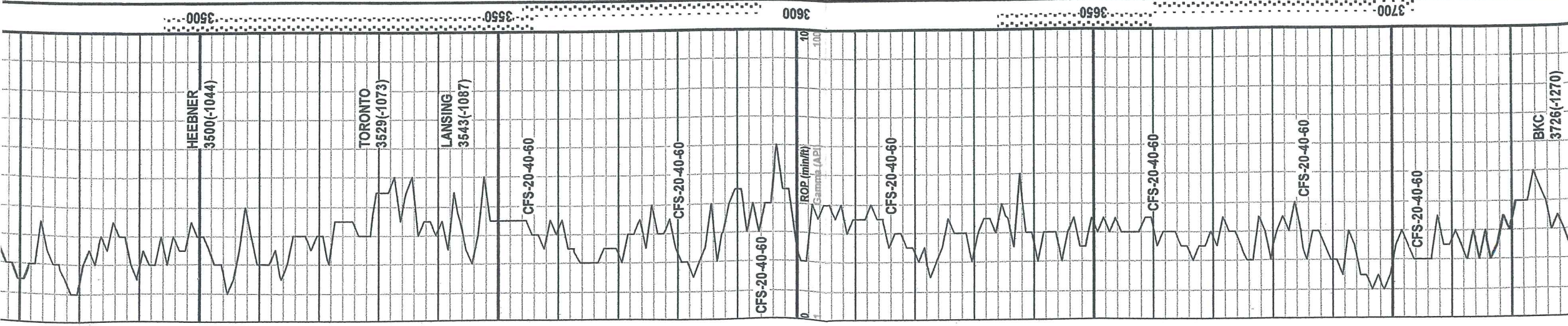
SH- red/brwn-pale red/brwn, v sandy

SH- red/brwn w/ L.S.- wht-erm, fn xtlr, gm stn, pr PP por, no odor, no SFO, v chiky

SH- red/brwn

SH- lt grey w/ L.S.- lt grey, v sli arg, fn xtlr, md stn, no vis por, no odor, no SFO

L.S.- wht-erm, scat arg plnk md stn, fn xtlr, gm stn, pr PP por, no odor, no SFO, chiky



L.S.- whit-erm, scat arg plnk md stn, fn xtn, grn stn, pr PP por, no odor, no SFO, chiky

as above, v chiky

as above, chiky

as above w/ I.S.- v lt grey, fn xtn, md-wk stn, no vis por, no odor, no SFO

SH- blk, carb

L.S.- crm-brwn, micro-fn xtn, grn stn, no vis por, no odor, no SFO, scat pyrite w/ SH- lt grey, sandy

SH- grey-red/brwn

L.S.- whit-erm, fn xtn, grn stn, pr int gran por, v fnt odor, pr-fr SFO

L.S.- whit-erm, fn xtn, grn stn, fr int gran por, fnt odor, gd SFO, oil is sticky, freq pyrite

L.S.- wht, fn xtn, grn stn, no vis por, fr odor, fr SFO(from above), sli chiky

L.S.- whit-erm, fn xtn, pk stn, no vis por, no odor, no SFO, sli chiky w/ SH- red/brwn

L.S.- whit-erm, fn xtn, grn stn, pr-fr int gran por, fr odor, fr SFO w/ SH- grey, red/brwn

as above w/ comm whit-lt grey chrt

SH- red/brwn

L.S.- whit-erm, fn-micro xtn, grn stn, fr int gran por, scat vugs, fr odor, fr SFO

L.S.- whit-erm, fn xtn, grn stn, no vis-pr int gran por, fnt odor, v pr SFO, mostly barren

L.S.- whit-erm, micro-fn xtn, grn stn, pr int gran por w/ com vugs, no odor, pr SFO, sticky dk brwn oil

as above w/ v fnt odor, fr SFO

L.S.- whit-erm, fn xtn, grn stn, no vis por, no odor, no SFO, chiky

SH- grey-green, red/brwn

L.S.- wht, fn xtn, pk-grn stn, no vis por, no odor, no SFO w/ freq wht-orig chrt, sli chiky

SH- grey

L.S.- whit-erm, fn xtn, grn stn, fr int gran por, no odor, fr SFO

as above, v fnt odor, fr SFO

SH- red/brwn, grey

L.S.- crm, fn xtn, pk stn, no vis por, no odor, no SFO(low rep) SH- as above

L.S.- wht, micro-fn xtn, grn stn, pr-fr int gran por w/ scat vugs, v fnt odor on break, pr SFO

SH- red/brwn

L.S.- whit-erm, fn-micro xtn, grn stn, pr-fr int gran por w/ fr fnly oomoldic pot, fnt odor, fr SFO, scat asph res

SH- red/brwn, grey

L.S.- wht, fn xtn, grn stn, fr int gran por, v fnt odor, pr-fr SFO

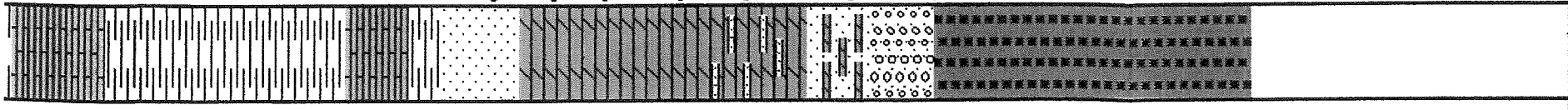
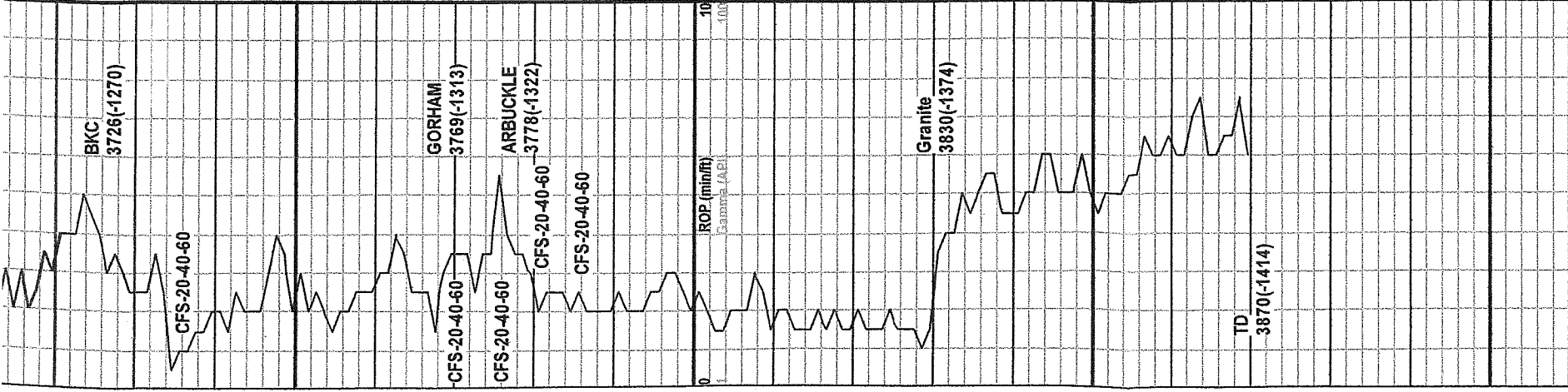
DST #1 3495-3555 30-60-30-60
Hydro: 1712-1670
IFP: 20-42 ISIP: 1244
FFP: 48-67 FSIP: 1233
Rec: 60' mud
IF: surface dead in 10min ISI: dead
FF: dead FSI: dead

Strap: .6 short
Dev: 1 1/2 deg

DST #2 3555-3594 30-60-45-90
Hydro: 1762-1716
IFP: 23-73 ISIP: 1146
FFP: 66-91 FSIP: 1078
Rec: 1' free oil
10' oswm 30%w 70%w
60' mw 70%w 30%w
55' mw 85%w 15%w
5' mud
RW: .43@66F Chl: 20,000ppm
IF: 1/4" died back to 1/8" ISI: dead
FF: 1/8" died back to surface
FSI: dead

DST #3 3635-3660 30-60-30-90
Hydro: 1800-1798
IFP: 27-142 ISIP: 1176
FFP: 146-219 FSIP: 1160
Rec: 220'mw 90%w 10%w
175'mw 95%w 5%w
5' mud
RW: .2@64F Chl: 40,000ppm
IF: BOB 13min ISI: dead
FF: BOB 20min FSI: dead

DST #4 3660-3704 30-60-45-90
Hydro: 1813-1814
IFP: 22-41 ISIP: 875
FFP: 47-64 FSIP: 838
Rec: 80' mud
IF: 2" ISI: dead
FF: 1" FSI: dead



L.S.- wht, fn xtlr, grn stn, fr int gran por, v fnt odor, pr-fr SFO

SH- red/brwn

SH- red/brwn, grey, blgreen

as above

L.S.- crm-v lt grey, fn xtlr, pk-grm stn, no vis por, no odor, no SFO

L.S.- crm, freq red/brwn arg, fn xtlr, wk-pk stn, no vis por, no odor, no SFO, scat sli sndy w/ SH- red/brwn, grey

S.S.- fn grn, sub round, calc cem, pr int gran por, scat asph res, dk brwn oil stain, pr SFO, no odor

Dolo- wht-red, fn-med xtlr, v pr-fr int xtlr por, scat vugs, fr odor, fr SFO, abnd glauc

Dolo- crm-pink, med xtlr, fr int xtlr por, scat vugs, gd odor, fr-gd SFO, com glauc, scat sndy

Dolo- crm, med xtlr, fr int xtlr por, gd odor, gd SFO, abnd glauc, freq pyrite, scat sndy

S.S.- wht-crm, fn-med grn, sub ang-sub round, prly srted, dolo cem, pr int gran por, fr odor, fr SFO w/ abnd tarry-asph res, com glauc w/ Dolo- wht-crm, med-fn xtlr, v sndy, pr int xtlr por, fr odor, pr-fr SFO, sli chiky

S.S.- wht-crm, some pale blgreen, pr int gran por, dolo cem, fn-med grn, sub ang-sub round, fr odor, pr SFO, com asph res, chiky

S.S.- arkosic, tan-crm-orig, qtz grains, crs, ang-sub ang, freq feldspar, scat biotite, comm blk asph res, fr odor, pr SFO

Granite

DST #5 3777-3781 30-60-30-60
Hydro: 1919-1870
IFP: 22-24 ISIP: 72
FFP: 34-26 FSIP: 100
Rec: 1' oil
4' ocm 5%o 95% m
IF: dead in 2min ISI: dead
FF: dead FSI: dead
DST #6 3778-3786 30-60-45-90
Hydro: 1878-1901
IFP: 33-45 ISIP: 219
FFP: 60-62 FSIP: 203
Rec: 40' oil
50' wocm 25%o 5%w 70% m
Grav: 36
IF: 3 1/4" ISI: dead
FF: 3' FSI: dead