

DRILL STEM TEST REPORT

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

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

ATTN: Clayton Erickson

Votopka #2-26

29-3s-26w Decatur,KS

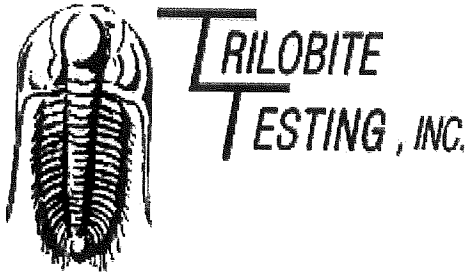
Start Date: 2014.09.28 @ 14:00:00

End Date: 2014.09.28 @ 22:08:30

Job Ticket #: 60181 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.10.03 @ 11:33:24



DRILL STEM TEST REPORT

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

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

ATTN: Clayton Erickson

Votopka #2-26

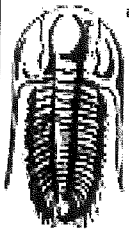
29-3s-26w Decatur,KS

Start Date: 2014.09.28 @ 04:07:00

End Date: 2014.09.28 @ 07:39:30

Job Ticket #: 60182 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

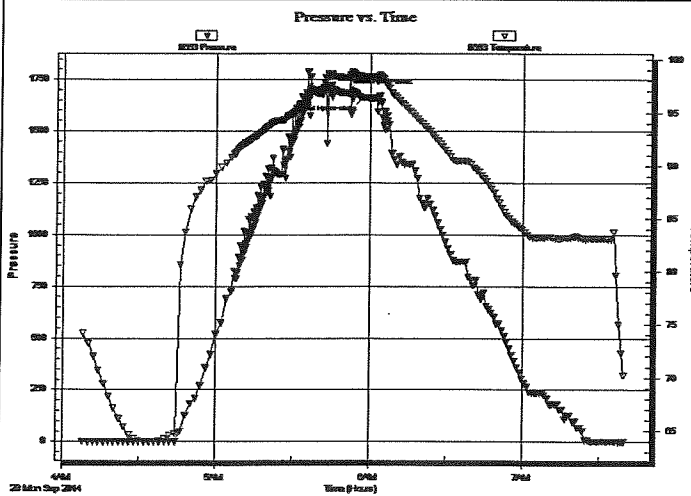
29-3s-26w Decatur,KS
Votopka #2-26
Job Ticket: 60182 **DST#: 2**
Test Start: 2014.09.28 @ 04:07:00

GENERAL INFORMATION:

Formation: **LKC "A"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened:
Time Test Ended: 07:39:30
Interval: **3515.00 ft (KB) To 3540.00 ft (KB) (TVD)**
Total Depth: 3540.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 66
Reference Elevations: 2530.00 ft (KB)
2525.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8653 Outside
Press@RunDepth: psig @ 3516.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.09.29 End Date: 2014.09.29 Last Calib.: 2014.09.29
Start Time: 04:08:00 End Time: 07:39:30 Time On Btm: 2014.09.29 @ 05:50:40
Time Off Btm: 2014.09.29 @ 05:57:10

TEST COMMENT: Packer Failure
TOH to reset anchor



PRESSURE SUMMARY

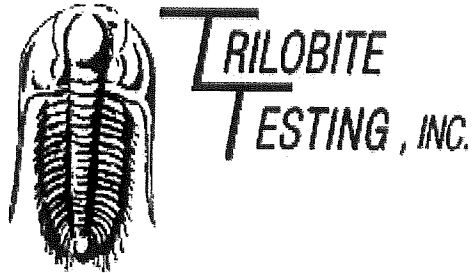
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1684.70	98.31	Initial Hydro-static
7	1662.58	98.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
375.00	Mud 100M	1.84

Gas Rates

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



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6121 S 58th St. STE B
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ATTN: Clayton Erickson

Votopka #2-26

29-3s-26w Decatur,KS

Start Date: 2014.09.29 @ 08:02:00

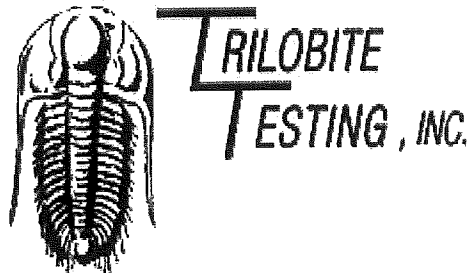
End Date: 2014.09.29 @ 15:30:00

Job Ticket #: 60183 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.10.03 @ 11:22:46

Great Plains Energy, Inc. 29-3s-26w Decatur,KS Votopka #2-26 DST # 3 LKC "A" 2014.09.29



DRILL STEM TEST REPORT

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

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

ATTN: Clayton Erickson

Votopka #2-26

29-3s-26w Decatur,KS

Start Date: 2014.09.29 @ 21:59:00

End Date: 2014.09.30 @ 05:21:00

Job Ticket #: 60184 DST #: 4

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.10.03 @ 11:22:23



**TRILOBITE
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DRILL STEM TEST REPORT

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

29-3s-26w Decatur, KS
Votopka #2-26
Job Ticket: 60184 **DST#: 4**
Test Start: 2014.09.29 @ 21:59:00

GENERAL INFORMATION:

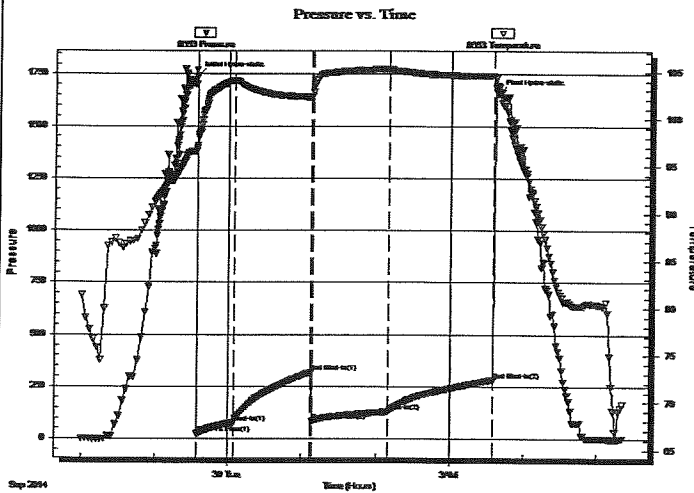
Formation: **LKC "B"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:34:10
Time Test Ended: 05:21:00
Interval: **3541.00 ft (KB) To 3563.00 ft (KB) (TVD)**
Total Depth: 3563.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 66
Reference Elevations: 2530.00 ft (KB)
2525.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8653

Outside

Press@RunDepth: 129.13 psig @ 3542.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.09.29 End Date: 2014.09.30 Last Calib.: 2014.09.30
Start Time: 22:00:00 End Time: 05:21:00 Time On Btm: 2014.09.29 @ 23:33:50
Time Off Btm: 2014.09.30 @ 03:39:00

TEST COMMENT: 30 - IF- 1/4" Blow built to 8"
60 - IS- No Return
60 - FF- Surface Blow started at 3 min. Built to 5 1/2"
90 - FS- No Return



PRESSURE SUMMARY

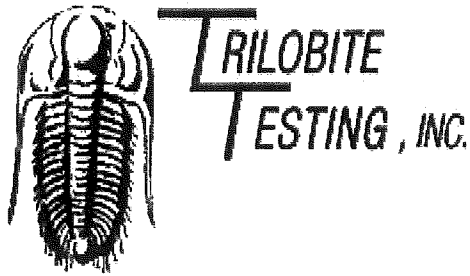
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1741.16	97.17	Initial Hydro-static
1	23.33	96.96	Open To Flow (1)
31	76.46	104.05	Shut-In(1)
94	318.21	102.29	End Shut-In(1)
95	84.60	102.80	Open To Flow (2)
157	129.13	105.29	Shut-In(2)
242	283.54	104.53	End Shut-In(2)
246	1657.81	103.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MW 90W 10M	0.89
59.00	MW 80W 20M	0.29
1.00	Free Oil 100o	0.00

Gas Rates

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



DRILL STEM TEST REPORT

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

ATTN: Clayton Erickson

Votopka #2-26

29-3s-26w Decatur,KS

Start Date: 2014.09.30 @ 15:30:00

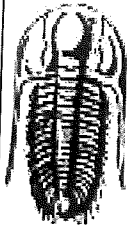
End Date: 2014.09.30 @ 22:13:30

Job Ticket #: 60185 DST #: 5

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.10.03 @ 11:21:57

Great Plains Energy, Inc. 29-3s-26w Decatur,KS Votopka #2-26 DST # 5 LKC "C-G" 2014.09.30



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DRILL STEM TEST REPORT

Great Plains Energy, Inc.

29-3s-26w Decatur, KS

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

Votopka #2-26

Job Ticket: 60185

DST#: 5

ATTN: Clayton Erickson

Test Start: 2014.09.30 @ 15:30:00

GENERAL INFORMATION:

Formation: **LKC "C-G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:27:10
 Time Test Ended: 22:13:30
 Interval: **3561.00 ft (KB) To 3608.00 ft (KB) (TVD)**
 Total Depth: 3608.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)
 Tester: Kevin Mack
 Unit No: 66
 Reference Elevations: 2530.00 ft (KB)
 2525.00 ft (CF)
 KB to GR/CF: 5.00 ft

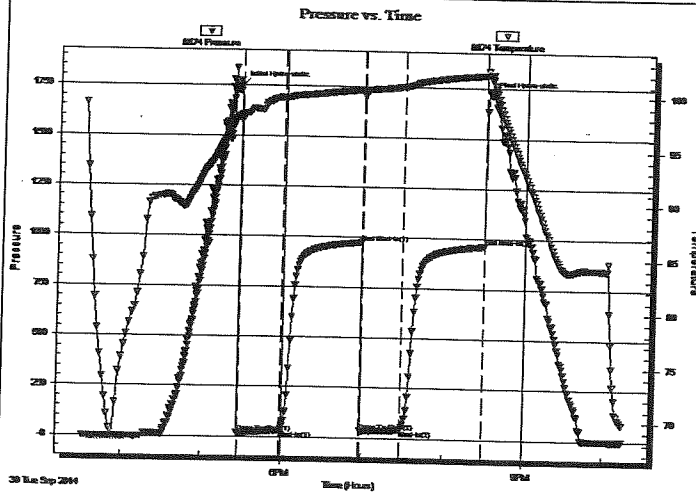
Serial #: 8874

Inside

Press@RunDepth: 42.89 psig @ 3562.00 ft (KB)
 Start Date: 2014.09.30 End Date: 2014.09.30
 Start Time: 15:31:00 End Time: 22:13:30

Capacity: 8000.00 psig
 Last Calib.: 2014.09.30
 Time On Btm: 2014.09.30 @ 17:26:50
 Time Off Btm: 2014.09.30 @ 20:33:00

TEST COMMENT: 30 - IF- 1/5" Blow died in 18 min.
 60 - IS- No Return
 30 - FF- No Blow
 60 - FS- No Return



PRESSURE SUMMARY

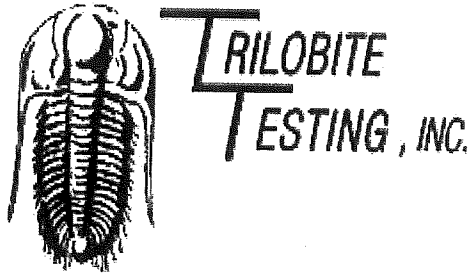
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1751.64	98.11	Initial Hydro-static
1	18.13	97.56	Open To Flow (1)
32	31.96	99.72	Shut-In(1)
91	974.70	100.51	End Shut-In(1)
92	34.63	99.89	Open To Flow (2)
122	42.89	100.85	Shut-In(2)
183	962.82	101.99	End Shut-In(2)
187	1715.59	101.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100M	0.07

Gas Rates

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



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ATTN: Clayton Erickson

Votopka #2-26

29-3s-26w Decatur,KS

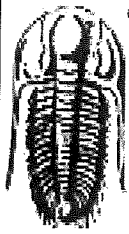
Start Date: 2014.10.01 @ 11:30:00

End Date: 2014.10.01 @ 17:59:30

Job Ticket #: 60186 DST #: 6

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.10.03 @ 11:21:18



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DRILL STEM TEST REPORT

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ATTN: Clayton Erickson

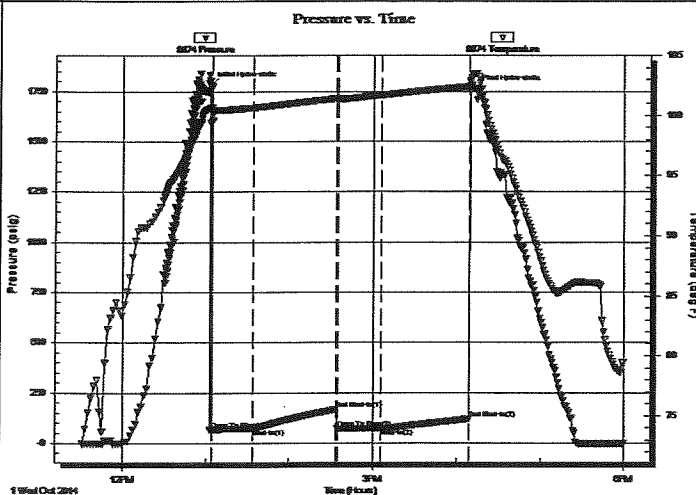
29-3s-26w Decatur, KS
Votopka #2-26
Job Ticket: 60186 **DST#: 6**
Test Start: 2014.10.01 @ 11:30:00

GENERAL INFORMATION:

Formation: **LKC "H-K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:04:30
Time Test Ended: 17:59:30
Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 66
Interval: **3620.00 ft (KB) To 3713.00 ft (KB) (TVD)**
Reference Elevations: 2530.00 ft (KB)
Total Depth: 3713.00 ft (KB) (TVD) 2525.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8874 Inside
Press@RunDepth: 71.82 psig @ 3621.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.10.01 End Date: 2014.10.01 Last Calib.: 2014.10.01
Start Time: 11:31:00 End Time: 17:59:30 Time On Btm: 2014.10.01 @ 13:03:10
Time Off Btm: 2014.10.01 @ 16:13:00

TEST COMMENT: 30 - IF- 1/4" Blow died in 20 min.
60 - IS!- No Return
30 - FF- No Blow
60 - FS!- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1782.38	100.74	Initial Hydro-static
2	68.21	99.60	Open To Flow (1)
31	70.94	100.65	Shut-In(1)
91	167.46	101.43	End Shut-In(1)
92	70.52	101.40	Open To Flow (2)
123	71.82	101.70	Shut-In(2)
186	119.02	102.43	End Shut-In(2)
190	1763.88	103.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Mud 100M	0.44

Gas Rates

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