

DRILL STEM TEST REPORT

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

PO Box 292
Wahoo NE 68066

ATTN: Dan Blankenau

35-4s-30w Decatur

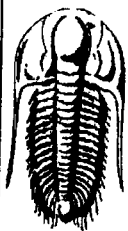
Sauvage #2

Start Date: 2006.04.10 @ 13:10:01

End Date: 2006.04.10 @ 23:17:45

Job Ticket #: 23243 DST #: 1

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, Inc.

PO Box 292
Wahoo NE 68066

ATTN: Dan Blankenau

Sauvage #2

35-4s-30w Decatur

Job Ticket: 23243

DST#: 1

Test Start: 2006.04.10 @ 13:10:01

GENERAL INFORMATION:

Formation: **LKC E,F,G**

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

Time Tool Opened: 16:31:30

Time Test Ended: 23:17:45

Test Type: **Conventional Bottom Hole**

Tester: **Chuck Smith**

Unit No: **18**

Interval: **3998.00 ft (KB) To 4050.00 ft (KB) (TVD)**

Total Depth: **4050.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2859.00 ft (KB)**

2849.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8017

Inside

Press@RunDepth: **84.25 psig @ 4002.00 ft (KB)**

Start Date: **2006.04.10**

End Date:

2006.04.10

Start Time: **13:10:01**

End Time:

23:17:45

Capacity: **7000.00 psig**

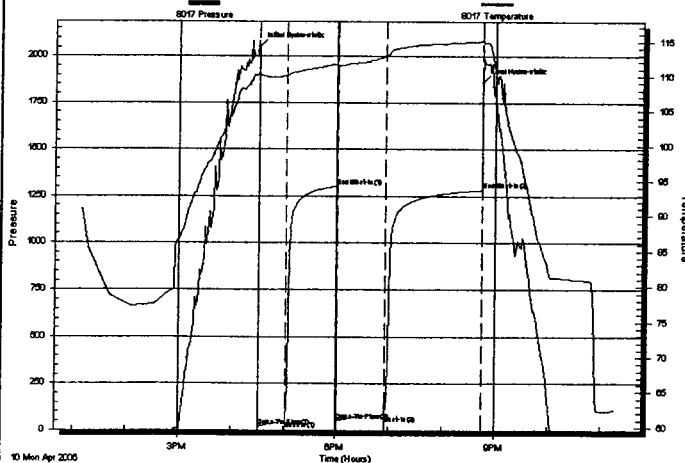
Last Calib.: **2006.04.10**

Time On Btm: **2006.04.10 @ 16:31:15**

Time Off Btm: **2006.04.10 @ 20:45:45**

TEST COMMENT: IF: Weak surface blow over 30 min.
IS: No return over 60 min.
FF: Weak surface blow over 55 min.
FS: No return over 110 min.

Pressure vs. Time



PRESSURE SUMMARY

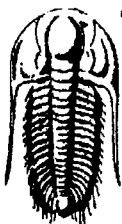
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2051.52	110.74	Initial Hydro-static
1	20.47	110.23	Open To Flow (1)
32	50.08	110.00	Shut-in(1)
90	1300.69	111.71	End Shut-in(1)
90	53.07	111.30	Open To Flow (2)
145	84.25	112.86	Shut-in(2)
254	1281.93	115.04	End Shut-in(2)
255	1862.05	115.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	M 100%M	0.07
120.00	WCM 30%W 70%M	0.73

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy, Inc.

Sauvage #2

PO Box 292
Wahoo NE 68066

35-4s-30w Decatur

Job Ticket: 23243 DST#: 1

ATTN: Dan Blankenau

Test Start: 2006.04.10 @ 13:10:01

Tool Information

Drill Pipe:	Length: 3860.00 ft	Diameter: 3.80 inches	Volume: 54.15 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 60000.00 lb
			Total Volume: 54.74 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3998.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	80.00 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			3971.00	
Shut In Tool	5.00			3976.00	
Hydraulic tool	5.00			3981.00	
Jars	5.00			3986.00	
Safety Joint	3.00			3989.00	
Packer	5.00			3994.00	28.00 Bottom Of Top Packer
Packer	4.00			3998.00	
Stubb	1.00			3999.00	
Perforations	3.00			4002.00	
Recorder	0.00	8017	Inside	4002.00	
Perforations	10.00			4012.00	
Change Over Sub	1.00			4013.00	
Drill Pipe	31.00			4044.00	
Change Over Sub	1.00			4045.00	
Recorder	0.00	13276	Inside	4045.00	
Bullnose	5.00			4050.00	52.00 Bottom Packers & Anchor
Total Tool Length:		80.00			



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy, Inc.

Sauvage #2

PO Box 292

Wahoo NE 68066

35-4s-30w Decatur

Job Ticket: 23243

DST#: 1

ATTN: Dan Blankenau

Test Start: 2006.04.10 @ 13:10:01

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 6.79 in³

Resistivity: 0.00 ohm.m

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

0 deg API

Water Salinity:

22000 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	M 100%M	0.074
120.00	WCM 30%W 70%M	0.727

Total Length: 135.00 ft

Total Volume: 0.801 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Spots of oil in 120 feet

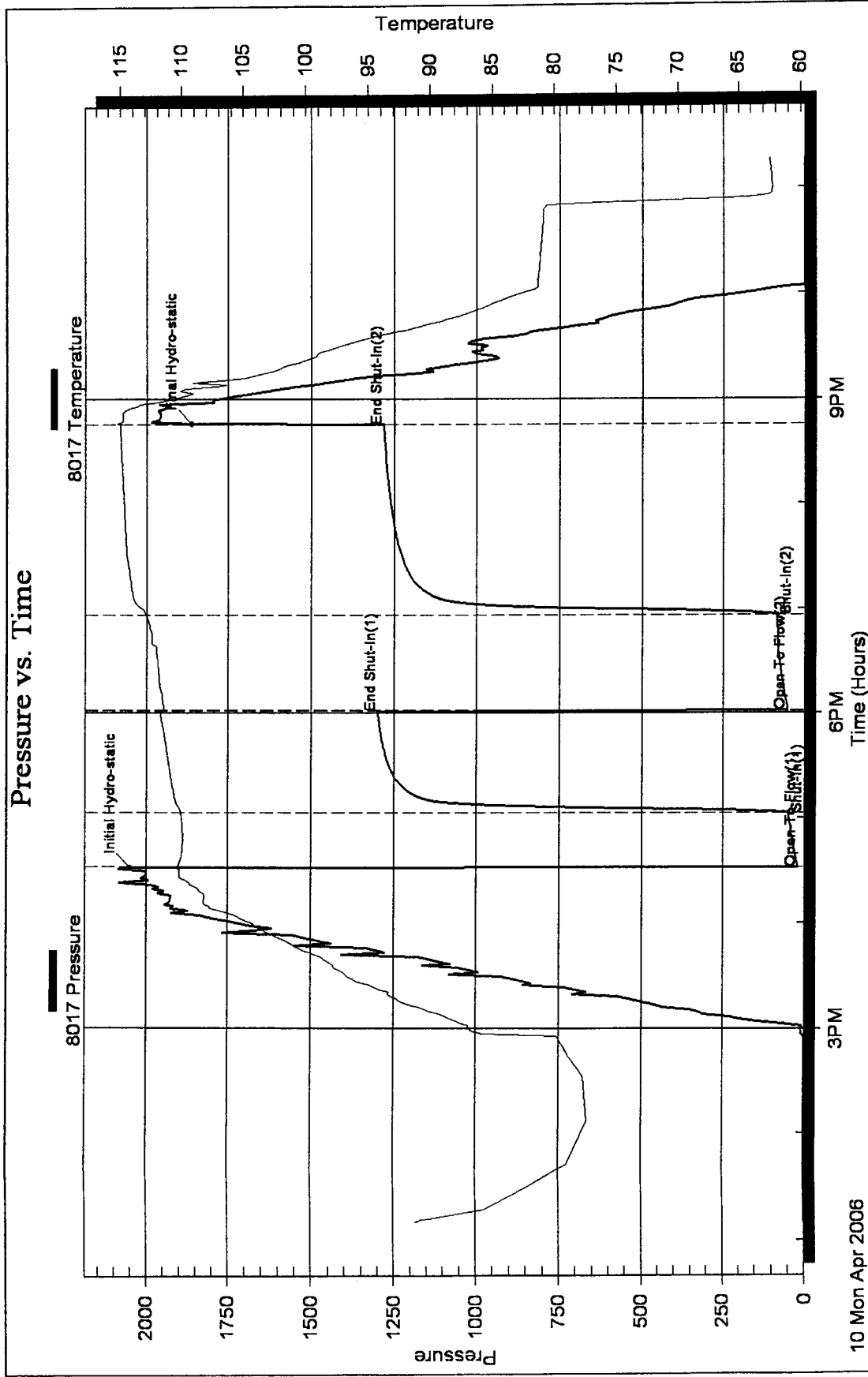
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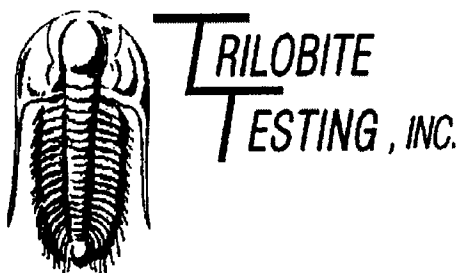
Inside

Great Plains Energy, Inc.

35-4s-30w Decatur

DST Test Number: 1





DRILL STEM TEST REPORT

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

PO Box 292
Wahoo NE 68066

ATTN: Dan Blankenau

35-4s-30w Decatur

Sauvage #2

Start Date: 2006.04.12 @ 09:06:01

End Date: 2006.04.12 @ 18:41:08

Job Ticket #: 23244 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, Inc.

PO Box 292
Wahoo NE 68066

ATTN: Dan Blankenau

Sauvage #2

35-4s-30w Decatur

Job Ticket: 23244

DST#: 2

Test Start: 2006.04.12 @ 09:06:01

GENERAL INFORMATION:

Formation: **B,C,D**

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

Time Tool Opened: 12:09:38

Time Test Ended: 18:41:08

Test Type: **Conventional Straddle**

Tester: **Chuck Smith**

Unit No: **18**

Interval: **3960.00 ft (KB) To 3998.00 ft (KB) (TVD)**

Total Depth: **4220.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2859.00 ft (KB)**

2849.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8017

Inside

Press@RunDepth: **149.96 psig @ 3964.00 ft (KB)**

Start Date: **2006.04.12**

End Date:

2006.04.12

Start Time: **09:06:01**

End Time:

18:41:07

Capacity: **7000.00 psig**

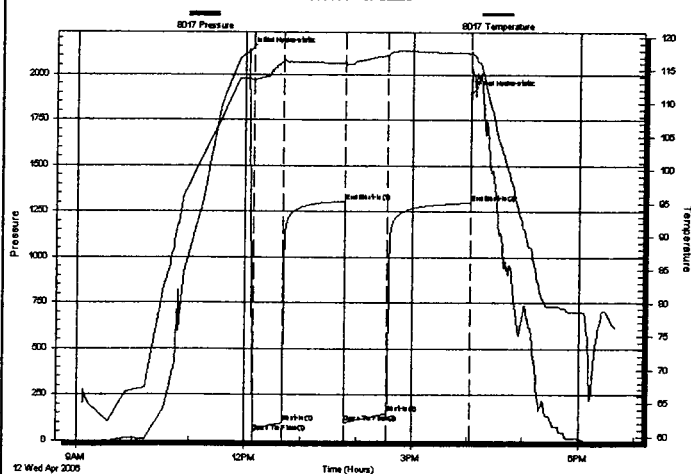
Last Calib.: **2006.04.12**

Time On Btm: **2006.04.12 @ 12:04:38**

Time Off Btm: **2006.04.12 @ 16:03:08**

TEST COMMENT: IF: Weak blow built to 4" over 30 min.
IS: No return over 60 min.
FF: Surface blow after 2 min. built to 2 1/2" over 45 min.
FS: No return over 90 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2125.02	113.80	Initial Hydro-static
5	45.36	113.42	Open To Flow (1)
37	97.12	116.30	Shut-In (1)
103	1305.68	116.09	End Shut-In (1)
103	98.20	115.66	Open To Flow (2)
149	149.96	117.20	Shut-In (2)
239	1298.14	117.57	End Shut-In (2)
239	1890.84	117.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MCW 10%M 90%W	0.65
124.00	MCW 35%M 65%W	1.74
20.00	WCM 40%W 60%M	0.28

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Great Plains Energy, Inc.

Sauvage #2

PO Box 292
Wahoo NE 68066

35-4s-30w Decatur

Job Ticket: 23244

DST#: 2

ATTN: Dan Blankenau

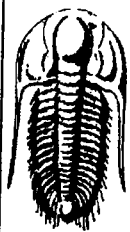
Test Start: 2006.04.12 @ 09:06:01

Tool Information

Drill Pipe:	Length: 3834.00 ft	Diameter: 3.80 inches	Volume: 53.78 bbl	Tool Weight:	1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	29000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	68000.00 lb
		Total Volume:	54.37 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3960.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	3995.00 ft				
Interval between Packers:	35.00 ft				
Tool Length:	287.00 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			3934.00	
Shut In Tool	5.00			3939.00	
Hydraulic tool	5.00			3944.00	
Jars	5.00			3949.00	
Safety Joint	2.00			3951.00	
Packer	5.00			3956.00	27.00 Bottom Of Top Packer
Packer	4.00			3960.00	
Stubb	1.00			3961.00	
Perforations	3.00			3964.00	
Recorder	0.00	8017	Inside	3964.00	
Perforations	30.00			3994.00	
Recorder	0.00	13309	Inside	3994.00	
Blank Off Sub	1.00			3995.00	35.00 Tool Interval
Packer	3.00			3998.00	
Stubb	1.00			3999.00	
Perforations	1.00			4000.00	
Change Over Sub	1.00			4001.00	
Anchor	213.00			4214.00	
Change Over Sub	1.00			4215.00	
Recorder	0.00	13276	Below	4215.00	
Bullnose	5.00			4220.00	225.00 Bottom Packers & Anchor

Total Tool Length: 287.00



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TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Great Plains Energy, Inc.

Sauvage #2

PO Box 292
Wahoo NE 68066

35-4s-30w Decatur

Job Ticket: 23244

DST#: 2

ATTN: Dan Blankenau

Test Start: 2006.04.12 @ 09:06:01

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

42000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	MCW 10%M 90%W	0.646
124.00	MCW 35%M 65%W	1.739
20.00	WCM 40%W 60%M	0.281

Total Length: 268.00 ft

Total Volume: 2.666 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Spots of oil seen in 206 feet of recovery.

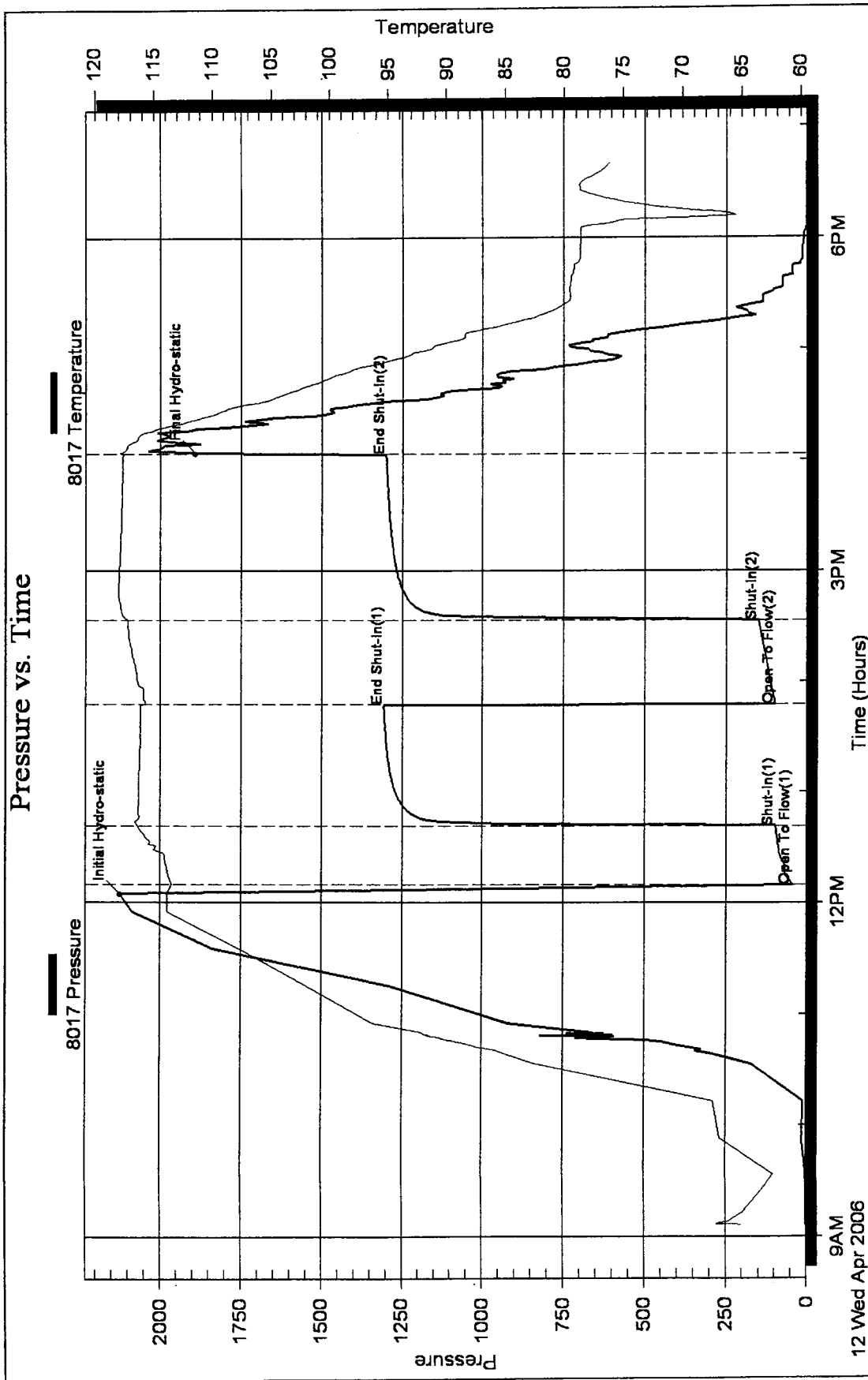
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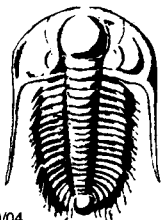
Inside

Great Plains Energy, Inc.

35-4s-30w Decatur

DST Test Number: 2





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

8632 No 23243

Test Ticket

Well Name & No. Salvage #2 Test No. 1 Date 4-10-06
 Company Great Plains Energy, Inc. Zone Tested LKC E, F, G
 Address POB 292 Wahoo, NE 68066 Elevation 2859 KB 2849 GL
 Co. Rep / Geo. Don Blankenau Cont. Kaler Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 35 Twp. 4s Rge. 30w Co. Decatur State KS
 No. of Copies 10cm Disbtribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3998 TO 4050 Initial Str Wt./Lbs. 40,000 Unseated Str Wt/Lbs. 45,000
 Anchor Length 52 Wt. Set Lbs. 22,000 Wt. Pulled Loose/Lbs. 60,000
 Top Packer Depth 3994 Tool Weight 1,800
 Bottom Packer Depth 3998 Hole Size 7 7/8" X Rubber Size 6 3/4" X
 Total Depth 4050 Wt. Pipe Run 0 Drill Collar Run 120
 Mud Wt. 9.3 LCM 1 Vis. 55 WL 6.8 Drill Pipe Size 4 1/2 XH Ft. Run 3860
 Blow Description IF Weak surface blow over 30 min.
IS No return over 60 min.
FF Weak surface blow over 55 min.
FS No return over 110 min.

Recovery - Total Feet 135 GIP 0 Ft. in DC 120 Ft. in DP 15
 Rec. 15 Feet of Mud %gas _____ %oil _____ %water _____ %mud _____
 Rec. 120 Feet of WCM Spots of oil %gas _____ %oil 30 %water 70 %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 115 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW .346 @ 66 °F Chlorides 22,000 ppm Recovery 22,000 Chlorides 1,000 ppm System

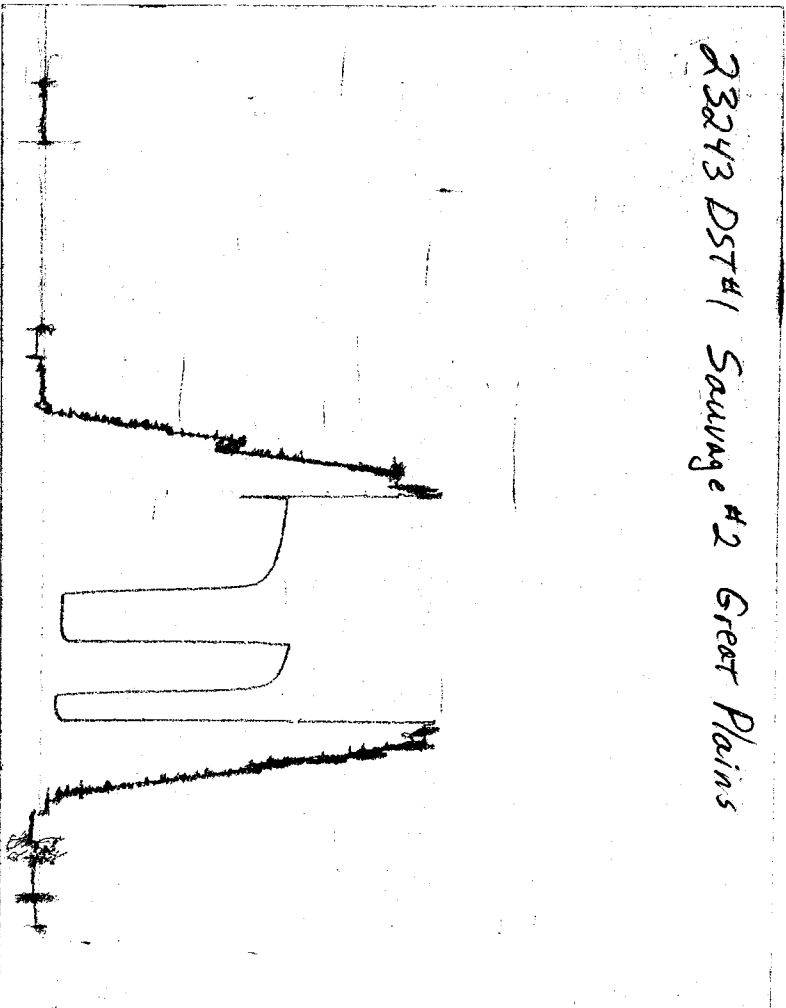
	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>2,086</u>	PSI	Recorder No.	<u>8017</u>	Test <u>X</u> <u>1100</u>
(B) First Initial Flow Pressure	<u>21</u>	PSI	(depth)	<u>4002</u>	Jars <u>X</u> <u>250</u>
(C) First Final Flow Pressure	<u>50</u>	PSI	Recorder No.	<u>13276</u>	Safety Jt. <u>X</u> <u>75</u>
(D) Initial Shut-In Pressure	<u>1,301</u>	PSI	(depth)	<u>4045</u>	Circ Sub <u>X</u> <u>N/C</u>
(E) Second Initial Flow Pressure	<u>53</u>	PSI	Recorder No.		Sampler _____
(F) Second Final Flow Pressure	<u>84</u>	PSI	(depth)		Straddle _____
(G) Final Shut-In Pressure	<u>1,282</u>	PSI	Initial Opening	<u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1,990</u>	PSI	Initial Shut-In	<u>60</u>	Shale Packer <u>X</u> <u>200</u>
			Final Flow	<u>55</u>	Ruined Packer _____
			Final Shut-In	<u>110</u>	Mileage <u>213RT</u> <u>26.25</u>
			T-On Location	<u>11:45am</u>	Sub Total: <u>11691.25</u>
			T-Started	<u>13:10pm</u>	Std. By <u>X2.5</u> <u>125</u>
			T-Open	<u>16:32pm</u>	Other _____
			T-Pulled	<u>20:46pm</u>	Total: <u>\$1816.25</u>
			T-Out	<u>23:18pm</u>	

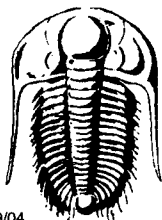
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By [Signature]
 Our Representative Chuck Smith

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 23245

9/04

Test Ticket

Well Name & No.	<u>Sauvage #2</u>	Test No.	<u>2</u>	Date	<u>4-12-06</u>
Company	<u>Great Plains Energy, Inc.</u>	Zone Tested	<u>BC, D</u>		
Address	<u>POB 292 Wahoo, NE 68066</u>	Elevation	<u>2859</u>	KB	<u>2849</u> GL
Co. Rep / Geo.	<u>Dan Blankenau</u>	Cont.	<u>Kaler</u>	Est. Ft. of Pay	Por. %
Location: Sec.	<u>35</u>	Twp.	<u>4s</u>	Rge.	<u>30w</u> Co. <u>Decatur</u> State <u>KS</u>
No. of Copies	<u>norm</u>	Disbtribution Sheet (Y, N)		Turnkey (Y, N)	Evaluation (Y, N)

Interval Tested	<u>3960 to 3998</u>	Initial Str Wt./Lbs.	<u>46,000</u>	Unseated Str Wt./Lbs.	<u>47,000</u>
Anchor Length	<u>38</u>	Wt. Set Lbs.	<u>30,000</u>	Wt. Pulled Loose/Lbs.	<u>68,000</u>
Top Packer Depth	<u>3956</u>	Tool Weight	<u>1,800</u>		
Bottom Packer Depth	<u>3960</u>	Hole Size 7 7/8"	<u>X</u>	Rubber Size 6 3/4"	<u>X</u>
Total Depth	<u>4220</u>	Wt. Pipe Run	<u>0</u>	Drill Collar Run	<u>120</u>
Mud Wt.	<u>9.4</u>	LCM	<u>1</u>	Vis.	<u>60</u> WL <u>6.4</u>
Drill Pipe Size	<u>4 1/2 XH</u>	Ft. Run	<u>3,834</u>		
Blow Description	<u>IF Weak blow built to 4" over 30 min.</u>				
	<u>IS No return over 60 min.</u>				
	<u>FF Surface blow after 2min. built to 2 1/2" over 45 min.</u>				
	<u>FS No return over 90 min.</u>				

Recovery - Total Feet	<u>268</u>	GIP	<u>0</u>	Ft. in DC	<u>120</u>	Ft. in DP	<u>128 1/8</u>
Rec.	<u>20</u>	Feet of	<u>WCM Spots of oil</u>	%gas	%oil	<u>90</u>	%water <u>10</u> %mud
Rec.	<u>124</u>	Feet of	<u>MCW Spots of oil</u>	%gas	%oil	<u>65</u>	%water <u>35</u> %mud
Rec.	<u>124</u>	Feet of	<u>MCW Spots of oil</u>	%gas	%oil	<u>60</u>	%water <u>40</u> %mud
Rec.		Feet of		%gas	%oil		%water %mud
Rec.		Feet of		%gas	%oil		%water %mud
BHT	<u>118</u>	°F Gravity		°API D @		°F Corrected Gravity	
RW	<u>.143</u>	@	<u>80°</u>	°F Chlorides	<u>42,000</u>	ppm Recovery	<u>42,000</u>
				Chlorides	<u>1,800</u>	ppm System	

(A) Initial Hydrostatic Mud	<u>2,086</u>	PSI	Recorder No.	<u>8017</u>	Test x	<u>1100</u>
(B) First Initial Flow Pressure	<u>45</u>	PSI	(depth)		Jars x	<u>250</u>
(C) First Final Flow Pressure	<u>97</u>	PSI	Recorder No.	<u>13309</u>	Safety Jt. x	<u>75</u>
(D) Initial Shut-In Pressure	<u>1,306</u>	PSI	(depth)		Circ Sub x	<u>NK</u>
(E) Second Initial Flow Pressure	<u>98</u>	PSI	Recorder No.	<u>13276</u>	Sampler	
(F) Second Final Flow Pressure	<u>150</u>	PSI	(depth)	<u>4215</u>	Straddle x	<u>350</u>
(G) Final Shut-In Pressure	<u>1,298</u>	PSI	Initial Opening	<u>30</u>	Ext. Packer	
(Q) Final Hydrostatic Mud	<u>2,049</u>	PSI	Initial Shut-In	<u>60</u>	Shale Packer x	<u>2 400</u>

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Approved By [Signature]

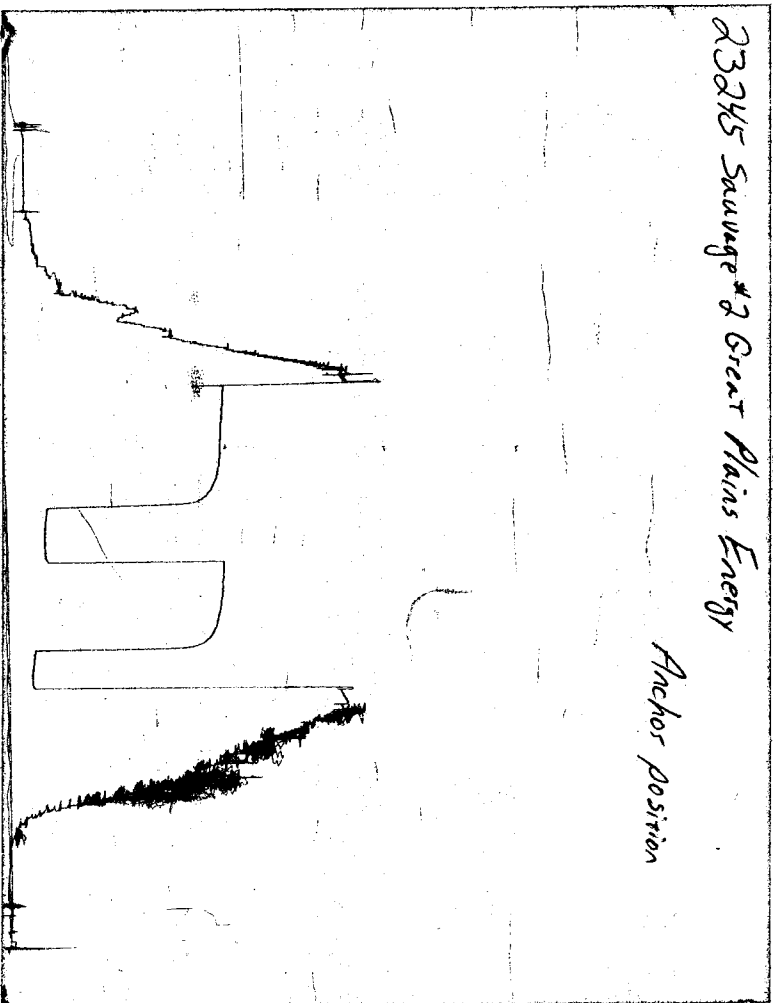
Our Representative Chuck Smith

Final Flow	<u>45</u>		
Final Shut-In	<u>90</u>		
T-On Location	<u>06:45am</u>		
T-Started	<u>09:06am</u>		
T-Open	<u>12:11pm</u>		
T-Pulled	<u>16:03pm</u>		
T-Out	<u>18:42pm</u>		
		Mileage	<u>213 RT 266.25</u>
		Sub Total:	<u>2441.25</u>
		Std. By x	<u>3 hrs 150</u>
		Other	
		Total:	<u>\$ 2591.25</u>

7 1/2 hrs day chg?

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.



This is a photocopy of the actual AK-1 recorder chart.

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Tail pipe position