

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Southwind Petl.Corp.**

CONFIDENTIAL 1400 W. 14th
Wichita Ks. 67203

ORIGINAL KCC
ATTN: Willis Nigh **OCT 07 2005**

35-27s-18w Kiowa Ks

Fark #1-35

Start Date: 2005.06.19 @ 05:36:25

End Date: 2005.06.19 @ 12:26:40

Job Ticket #: 21710 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

Southwind Petl. Corp.

1400 W.14th
Wichita Ks.67203

ATTN: Willis Nigh

Fark #1-35

35-27s-18w Kiowa Ks

Job Ticket: 21710

DST#: 1

Test Start: 2005.06.19 @ 05:36:25

GENERAL INFORMATION:

Formation: **Lans. A**

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

Time Tool Opened: 07:22:40

Time Test Ended: 12:26:40

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **23**

Interval: **4184.00 ft (KB) To 4194.00 ft (KB) (TVD)**

Total Depth: **4194.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Reference Elevations: **2210.00 ft (KB)**

2205.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: **6755**

Inside

Press@RunDepth: **34.29 psig @ 4185.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2005.06.19**

End Date: **2005.06.19**

Last Calib.: **2005.06.19**

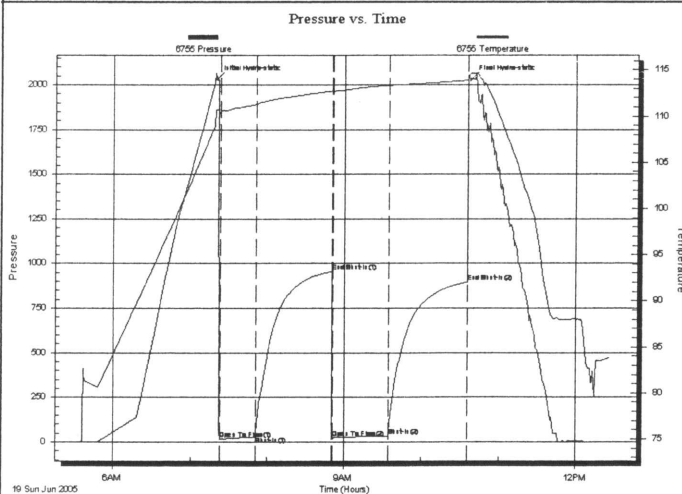
Start Time: **05:36:30**

End Time: **12:26:39**

Time On Btm: **2005.06.19 @ 07:20:10**

Time Off Btm: **2005.06.19 @ 10:38:25**

TEST COMMENT: IF: Strong blow. B.O.B. in 10 secs.
IS: Weak blow. 1 - 3".
FF: Strong blow. GTS in 1 min. (see gas volume report)
FS: No blow.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2030.70	110.68	Initial Hydro-static
3	14.21	110.55	Open To Flow (1)
31	29.68	111.28	Shut-In(1)
91	956.51	112.72	End Shut-In(1)
92	21.79	112.71	Open To Flow (2)
135	34.29	113.25	Shut-In(2)
196	896.65	113.89	End Shut-In(2)
199	2031.00	114.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	GCM 8%g 92%rm	0.34

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	3.00	27.60
Last Gas Rate	0.13	1.00	5.76
Max. Gas Rate	0.25	3.00	27.60



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Southwind Petl. Corp.

Fark #1-35

1400 W.14th
Wichita Ks.67203

35-27s-18w Kiowa Ks

Job Ticket: 21710

DST#: 1

ATTN: Willis Nigh

Test Start: 2005.06.19 @ 05:36:25

Tool Information

Drill Pipe:	Length: 3943.00 ft	Diameter: 3.80 inches	Volume: 55.31 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 72000.00 lb
		Total Volume: 56.51 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4184.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 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			4158.00	
Shut In Tool	5.00			4163.00	
Hydraulic tool	5.00			4168.00	
Jars	5.00			4173.00	
Safety Joint	2.00			4175.00	
Packer	4.00			4179.00	27.00 Bottom Of Top Packer
Packer	5.00			4184.00	
Stubb	1.00			4185.00	
Recorder	0.00	6755	Inside	4185.00	
Perforations	4.00			4189.00	
Recorder	0.00	13222	Outside	4189.00	
Bullnose	5.00			4194.00	10.00 Bottom Packers & Anchor

Total Tool Length: 37.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Southwind Petl. Corp.

Fark #1-35

1400 W.14th
Wichita Ks.67203

35-27s-18w Kiowa Ks

Job Ticket: 21710

DST#: 1

ATTN: Willis Nigh

Test Start: 2005.06.19 @ 05:36:25

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

8000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.96 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	GCM 8%g 92%m	0.344

Total Length: 70.00 ft

Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



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DRILL STEM TEST REPORT

GAS RATES

Southwind Petl. Corp.

Fark #1-35

1400 W. 14th
Wichita Ks. 67203

35-27s-18w Kiowa Ks

Job Ticket: 21710

DST#: 1

ATTN: Willis Nigh

Test Start: 2005.06.19 @ 05:36:25

Gas Rates Information

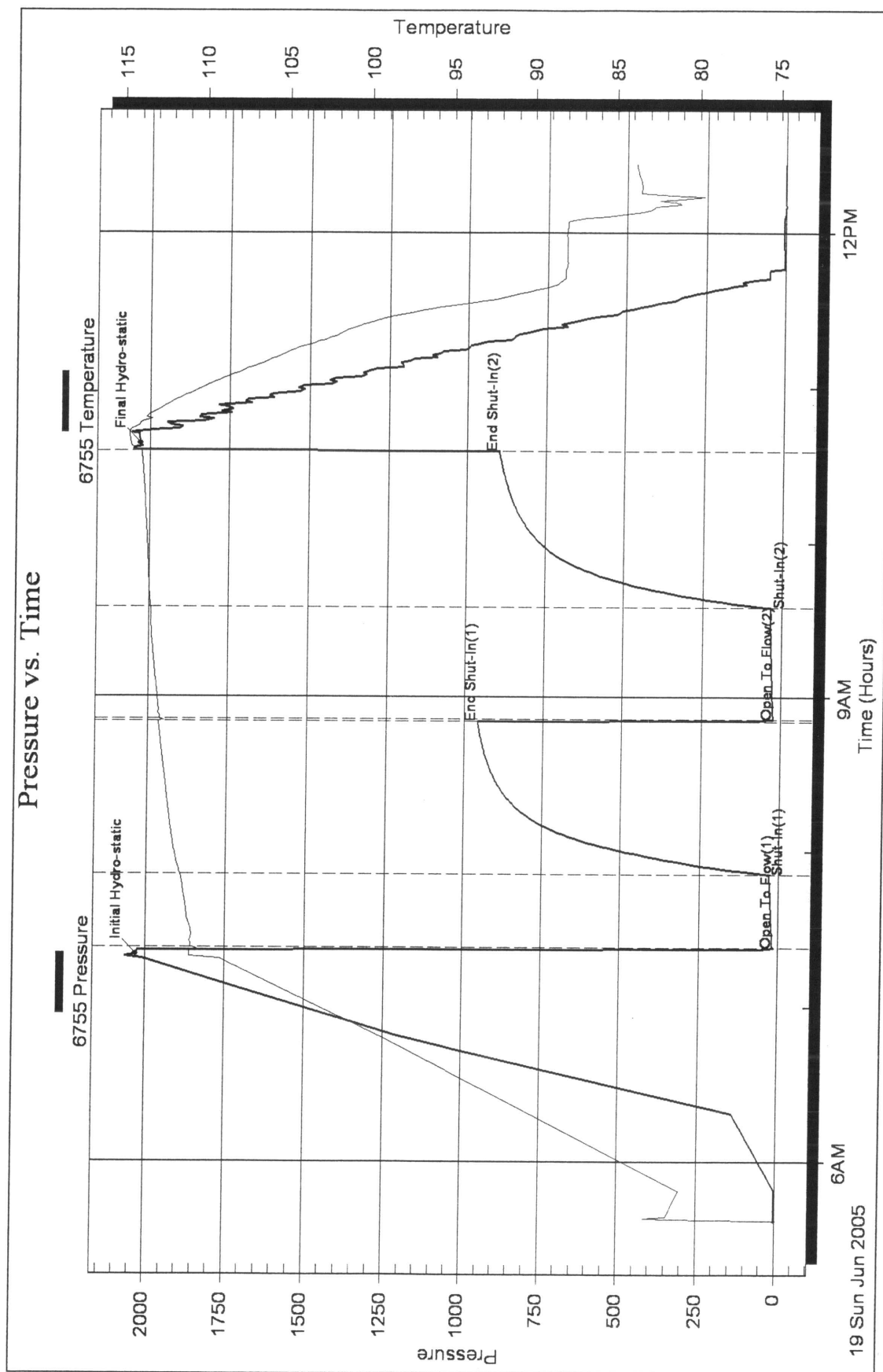
Temperature: 59 deg C

Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m³/d)
2	5	0.25	3.00	27.60
2	10	0.25	1.00	24.43
2	20	0.13	1.00	5.76
2	30	0.13	1.00	5.76
2	40	0.13	1.00	5.76





DRILL STEM TEST REPORT

Prepared For: **Southwind Petl.Corp.**

1400 W. 14th
Wichita Ks. 67203

ATTN: Willis Nigh

35-27s-18w Kiowa Ks

Fark #1-35

Start Date: 2005.06.20 @ 17:34:53

End Date: 2005.06.21 @ 00:11:38

Job Ticket #: 21711 DST #: 2

Trilobite Testing, Inc

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



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DRILL STEM TEST REPORT

Southwind Pet. Corp.

1400 W.14th
Wichita Ks. 67203

ATTN: Willis Nigh

Fark #1-35

35-27s-18w Kiowa Ks

Job Ticket: 21711

DST#: 2

Test Start: 2005.06.20 @ 17:34:53

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:45:08

Time Test Ended: 00:11:38

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: **4593.00 ft (KB) To 4666.00 ft (KB) (TVD)**

Total Depth: 4666.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2210.00 ft (KB)

2205.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6755 Inside

Press@RunDepth: 38.27 psig @ 4594.00 ft (KB)

Start Date: 2005.06.20

End Date:

2005.06.21

Capacity: 7000.00 psig

Last Calib.: 2005.06.21

Start Time: 17:34:58

End Time:

00:11:37

Time On Btm: 2005.06.20 @ 19:43:38

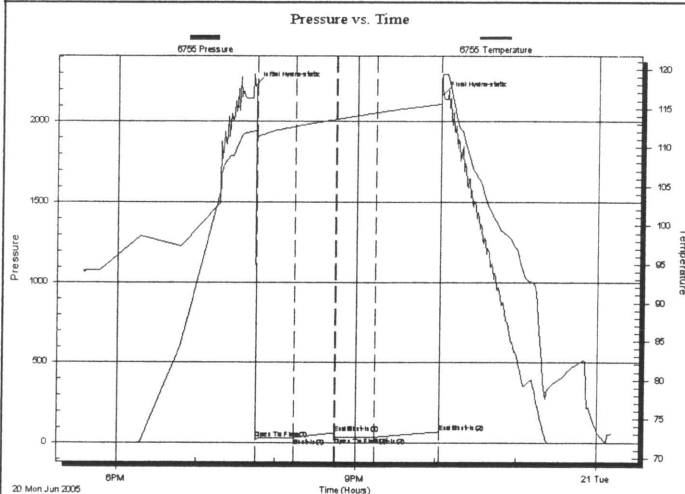
Time Off Btm: 2005.06.20 @ 22:04:08

TEST COMMENT: IF:Weak blow . 1/2 - 1 1/4".I

IS:No blow .

FF:Weak blow . 1/2 - 1".

FSI:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2225.56	112.07	Initial Hydro-static
2	26.87	111.47	Open To Flow (1)
30	34.42	112.68	Shut-In(1)
61	63.98	113.59	End Shut-In(1)
61	35.51	113.59	Open To Flow (2)
91	38.27	114.45	Shut-In(2)
139	70.65	115.56	End Shut-In(2)
141	2165.80	119.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	GCM 7%g 93%rm	0.20
0.00	120 ft. of GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Southwind Petl. Corp.

Fark #1-35

1400 W. 14th
Wichita Ks. 67203

35-27s-18w Kiowa Ks

Job Ticket: 21711

DST#: 2

ATTN: Willis Nigh

Test Start: 2005.06.20 @ 17:34:53

Tool Information

Drill Pipe:	Length: 4350.00 ft	Diameter: 3.80 inches	Volume: 61.02 bbl	Tool Weight: 2100.00 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: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume: 62.22 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4593.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.00 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
Change Over Sub	1.00			4567.00	
Shut In Tool	5.00			4572.00	
Hydraulic tool	5.00			4577.00	
Jars	5.00			4582.00	
Safety Joint	2.00			4584.00	
Packer	4.00			4588.00	27.00 Bottom Of Top Packer
Packer	5.00			4593.00	
Stubb	1.00			4594.00	
Recorder	0.00	6755	Inside	4594.00	
Perforations	4.00			4598.00	
Change Over Sub	1.00			4599.00	
Bullnose	61.00			4660.00	
Change Over Sub	1.00			4661.00	
Recorder	0.00	13222	Outside	4661.00	
Bullnose	5.00			4666.00	73.00 Bottom Packers & Anchor
Total Tool Length:		100.00			



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FLUID SUMMARY

Southwind Pet. Corp.

Fark #1-35

1400 W.14th
Wichita Ks.67203

35-27s-18w Kiowa Ks

Job Ticket: 21711

DST#: 2

ATTN: Willis Nigh

Test Start: 2005.06.20 @ 17:34:53

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

8000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	GCM 7%g 93%m	0.197
0.00	120 ft. of GIP	0.000

Total Length: 40.00 ft

Total Volume: 0.197 bbl

Num Fluid Samples: 0

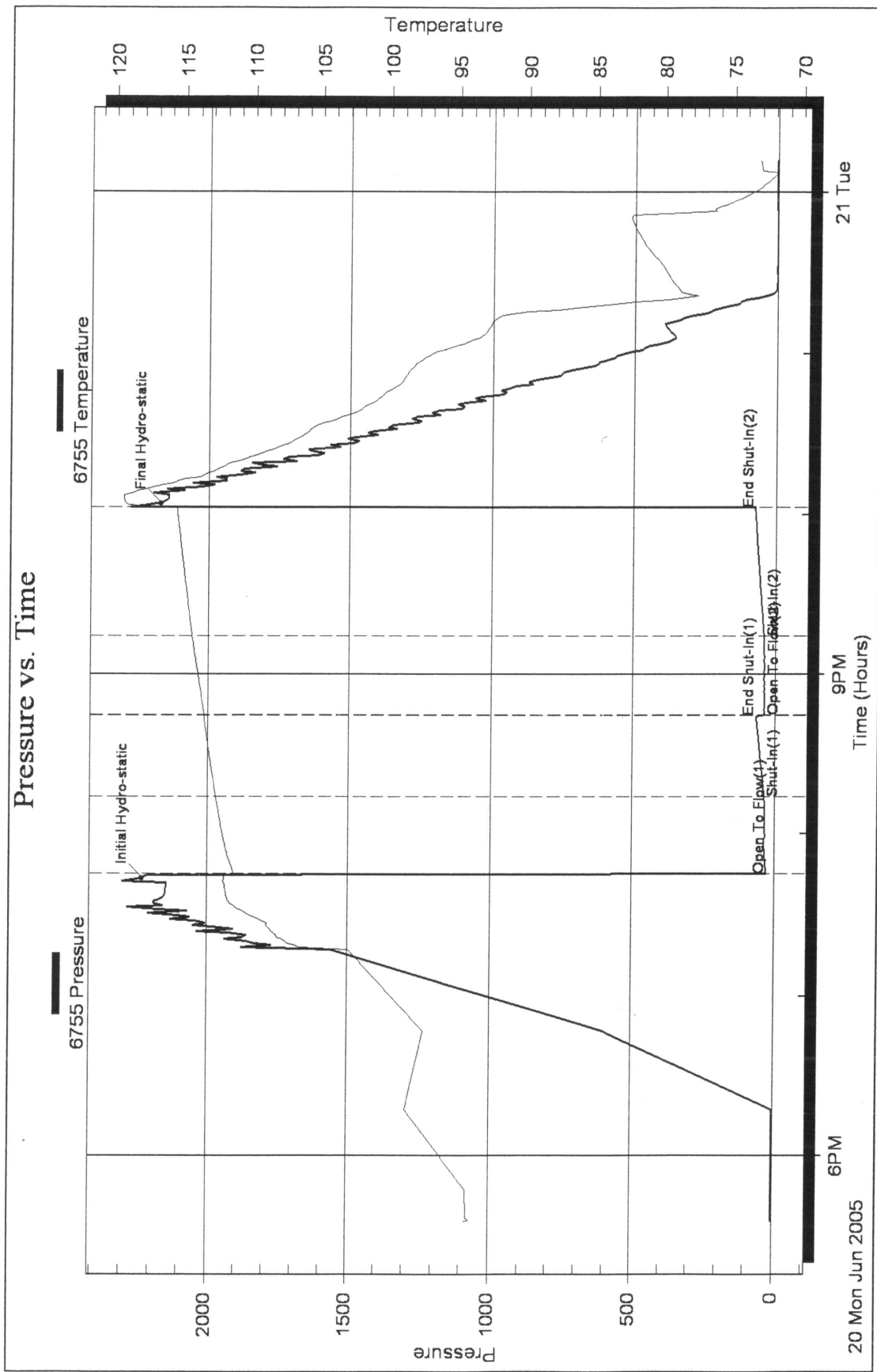
Num Gas Bombs: 0

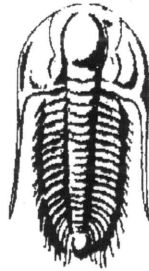
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





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DRILL STEM TEST REPORT

Prepared For: **Southwind Petl.Corp.**

1400 W. 14th
Wichita Ks.67203

ATTN: Willis Nigh

35-27s-18w Kiowa Ks

Fark #1-35

Start Date: 2005.06.21 @ 12:20:04

End Date: 2005.06.21 @ 20:15:19

Job Ticket #: 21712 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



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DRILL STEM TEST REPORT

Southwind Pet. Corp.

1400 W.14th
Wichita Ks. 67203

ATTN: Willis Nigh

Fark #1-35

35-27s-18w Kiowa Ks

Job Ticket: 21712

DST#: 3

Test Start: 2005.06.21 @ 12:20:04

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:15:34

Time Test Ended: 20:15:19

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: **4744.00 ft (KB) To 4781.00 ft (KB) (TVD)**

Total Depth: 4781.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2210.00 ft (KB)

2205.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **6755** Inside

Press@RunDepth: 31.94 psig @ 4745.00 ft (KB)

Start Date: 2005.06.21

End Date:

2005.06.21

Capacity: 7000.00 psig

Last Calib.: 2005.06.21

Start Time: 12:20:09

End Time:

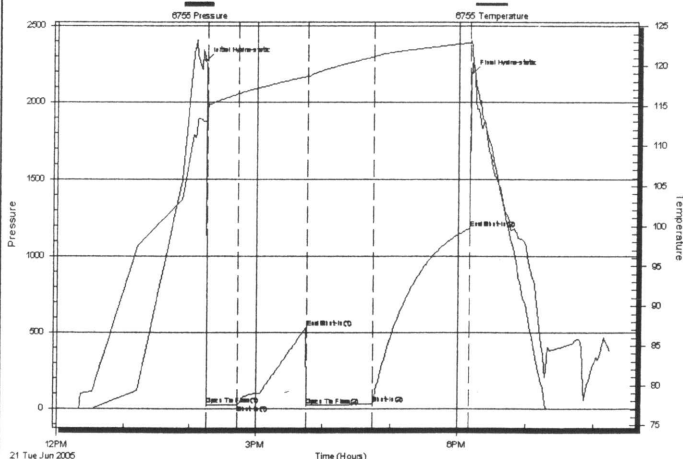
20:15:18

Time On Btm: 2005.06.21 @ 14:13:49

Time Off Btm: 2005.06.21 @ 18:11:19

TEST COMMENT: IF: Strong blow . B.O.B. in 20 secs.
IS: Weak blow . 1/2 - 3 1/2".
FF: Strong blow . B.O.B. in 2 - 3 secs.
FSI: No blow .

Pressure vs. Time



PRESSURE SUMMARY

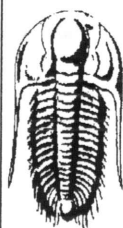
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2271.26	113.02	Initial Hydro-static
2	25.09	113.64	Open To Flow (1)
30	26.62	116.49	Shut-In(1)
92	534.23	118.66	End Shut-In(1)
92	19.96	118.56	Open To Flow (2)
151	31.94	121.14	Shut-In(2)
237	1184.57	122.91	End Shut-In(2)
238	2188.98	122.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
58.00	Drig. mud	0.29
0.00	3300 ft. of GIP (approx.)	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Southwind Petl. Corp.

Fark #1-35

1400 W.14th
Wichita Ks. 67203

35-27s-18w Kiowa Ks

Job Ticket: 21712

DST#: 3

ATTN: Willis Nigh

Test Start: 2005.06.21 @ 12:20:04

Tool Information

Drill Pipe:	Length: 4505.00 ft	Diameter: 3.80 inches	Volume: 63.19 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 72000.00 lb
		Total Volume:	64.39 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4744.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	64.00 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			4718.00	
Shut In Tool	5.00			4723.00	
Hydraulic tool	5.00			4728.00	
Jars	5.00			4733.00	
Safety Joint	2.00			4735.00	
Packer	4.00			4739.00	27.00 Bottom Of Top Packer
Packer	5.00			4744.00	
Stubb	1.00			4745.00	
Recorder	0.00	6755	Inside	4745.00	
Perforations	31.00			4776.00	
Recorder	0.00	13222	Outside	4776.00	
Bullnose	5.00			4781.00	37.00 Bottom Packers & Anchor

Total Tool Length: 64.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Southwind Petl. Corp.

Fark #1-35

1400 W.14th
Wichita Ks. 67203

35-27s-18w Kiowa Ks

Job Ticket: 21712

DST#: 3

ATTN: Willis Nigh

Test Start: 2005.06.21 @ 12:20:04

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

9000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
58.00	Drilg. mud	0.285
0.00	3300 ft. of GIP (approx.)	0.000

Total Length: 58.00 ft

Total Volume: 0.285 bbl

Num Fluid Samples: 0

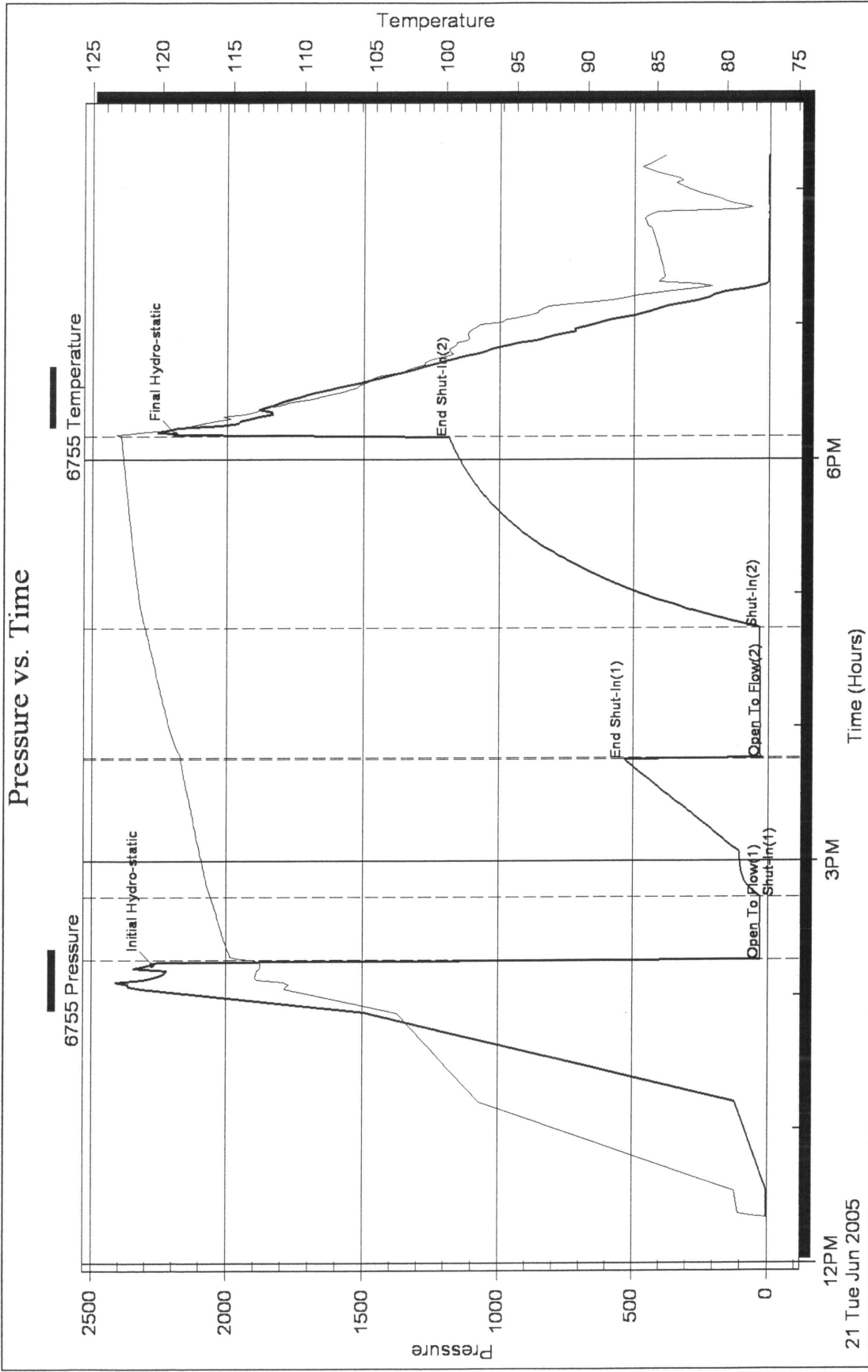
Num Gas Bombs: 0

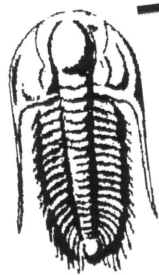
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





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Prepared For: **Southwind Petl. Corp.**

1400 W. 14th
Wichita Ks. 67203

ATTN: Willis Nigh

35-27s-18w Kiowa Ks

Fark #1-35

Start Date: 2005.06.22 @ 04:25:21

End Date: 2005.06.22 @ 12:17:51

Job Ticket #: 21713

DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

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Southwind Petl. Corp.

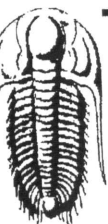
Fark #1-35

35-27s-18w Kiowa Ks

DST # 4

Kinderhook

2005.06.22



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Southwind Petl. Corp.

Fark #1-35

1400 W. 14th
Wichita Ks. 67203

35-27s-18w Kiowa Ks

Job Ticket: 21713

DST#: 4

ATTN: Willis Nigh

Test Start: 2005.06.22 @ 04:25:21

Tool Information

Drill Pipe:	Length: 4534.00 ft	Diameter: 3.80 inches	Volume: 63.60 bbl
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl
Drill Collar:	Length: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl
		Total Volume:	64.80 bbl

Tool Weight:	2100.00 lb
Weight set on Packer:	20000.00 lb
Weight to Pull Loose:	75000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	56000.00 lb
Final	57000.00 lb

Drill Pipe Above KB:	31.00 ft
Depth to Top Packer:	4774.00 ft
Depth to Bottom Packer:	ft
Interval between Packers:	41.00 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			4748.00	
Shut In Tool	5.00			4753.00	
Hydraulic tool	5.00			4758.00	
Jars	5.00			4763.00	
Safety Joint	2.00			4765.00	
Packer	4.00			4769.00	27.00 Bottom Of Top Packer
Packer	5.00			4774.00	
Stub	1.00			4775.00	
Recorder	0.00	6755	Inside	4775.00	
Perforations	35.00			4810.00	
Recorder	0.00	13222	Outside	4810.00	
Bullnose	5.00			4815.00	41.00 Bottom Packers & Anchor

Total Tool Length: 68.00



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Fark #1-35

1400 W.14th
Wichita Ks. 67203

35-27s-18w Kiowa Ks

ATTN: Willis Nigh

Job Ticket: 21713

DST#: 4

Test Start: 2005.06.22 @ 04:25:21

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 55.00 sec/qt

Water Loss: 11.79 in³

Resistivity: 0.00 ohm.m

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

8000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
140.00	GOCM 20%g 16%o 64%m	0.688
0.00	320 ft. of GIP	0.000

Total Length: 140.00 ft

Total Volume: 0.688 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

