

15-175-22084

21-32s-31w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **M E Klein & Associates Inc**

PO Box 721436
Norman OK 73070

ATTN: Roger Pearson/James M

21 32S 31W Seward KS

Wright #1-21

Start Date: 2007.03.14 @ 18:16:00

End Date: 2007.03.15 @ 05:18:15

Job Ticket #: 26487 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

ME Klein & Associates Inc

Wright #1-21

PO Box 721436
Norman OK 73070

21 32S 31W Seward KS

Job Ticket: 26487

DST#: 1

ATTN: Roger Pearson/James MOK 73070

Test Start: 2007.03.14 @ 18:16:00

GENERAL INFORMATION:

Formation: **Atoka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:07:45

Time Test Ended: 05:18:15

Test Type: Conventional Straddle

Tester: Chuck Smith

Unit No: 37

Interval: **5650.00 ft (KB) To 5728.00 ft (KB) (TVD)**

Reference Elevations: 2812.00 ft (KB)

Total Depth: 5998.00 ft (KB) (TVD)

2805.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8017

Inside

Press@RunDepth: 107.50 psig @ 5716.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2007.03.14

End Date:

2007.03.15

Last Calib.: 2007.03.15

Start Time: 18:16:01

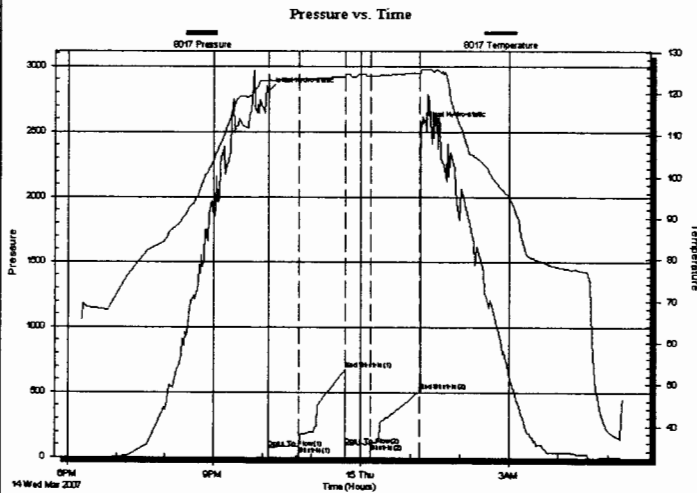
End Time:

05:18:15

Time On Btm: 2007.03.14 @ 22:07:15

Time Off Btm: 2007.03.15 @ 01:12:30

TEST COMMENT: IF 1/2 " blow built to 1 1/2 " receded to 1 "
ISI No return
FF No blow
FSI No return



PRESSURE SUMMARY

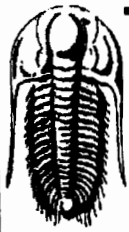
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2803.86	123.21	Initial Hydro-static
1	73.58	122.75	Open To Flow (1)
38	86.97	123.58	Shut-in(1)
94	671.53	124.02	End Shut-in(1)
94	96.29	124.24	Open To Flow (2)
124	107.50	124.11	Shut-in(2)
184	511.71	124.95	End Shut-in(2)
186	2547.42	125.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	100%M	0.49

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

ME Klein & Associates Inc

Wright #1-21

PO Box 721436
Norman OK 73070

21 32S 31W Seward KS

Job Ticket: 26487

DST#: 1

ATTN: Roger Pearson/James MOK 73070

Test Start: 2007.03.14 @ 18:16:00

Tool Information

Drill Pipe:	Length: 5321.00 ft	Diameter: 3.80 inches	Volume: 74.64 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 35000.00 lb
Drill Collar:	Length: 309.00 ft	Diameter: 2.25 inches	Volume: 1.52 bbl	Weight to Pull Loose: 93000.00 lb
			<u>Total Volume: 76.16 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	5650.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	5728.00 ft			
Interval between Packers:	78.00 ft			
Tool Length:	381.00 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			5619.00	
Shut In Tool	5.00			5624.00	
Sampler	3.00			5627.00	
Hydraulic tool	5.00			5632.00	
Jars	5.00			5637.00	
Safety Joint	2.00			5639.00	
Packer	5.00			5644.00	32.00 Bottom Of Top Packer
Packer	6.00			5650.00	
Stubb	1.00			5651.00	
Change Over Sub	1.00			5652.00	
Recorder	0.00	13309	Inside	5652.00	
Drill Pipe	63.00			5715.00	
Change Over Sub	1.00			5716.00	
Recorder	0.00	8017	Inside	5716.00	
Perforations	8.00			5724.00	
Blank Off Sub	1.00			5725.00	
top of s packer	3.00			5728.00	78.00 Tool Interval
Packer	1.00			5729.00	
Stubb	1.00			5730.00	
Perforations	11.00			5741.00	
Change Over Sub	1.00			5742.00	
Anchor	251.00			5993.00	
Change Over Sub	1.00			5994.00	
Recorder	0.00	13276	Below	5994.00	
Bullnose	5.00			5999.00	271.00 Bottom Packers & Anchor
Total Tool Length:	381.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

ME Klein & Associates Inc

Wright #1-21

PO Box 721436
Norman OK 73070

21 32S 31W Seward KS

Job Ticket: 26487

DST#: 1

ATTN: Roger Pearson/James M OK 73070

Test Start: 2007.03.14 @ 18:16:00

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:

0 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: 0.00 ohm.m

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
100.00	100%M	0.492

Total Length: 100.00 ft

Total Volume: 0.492 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

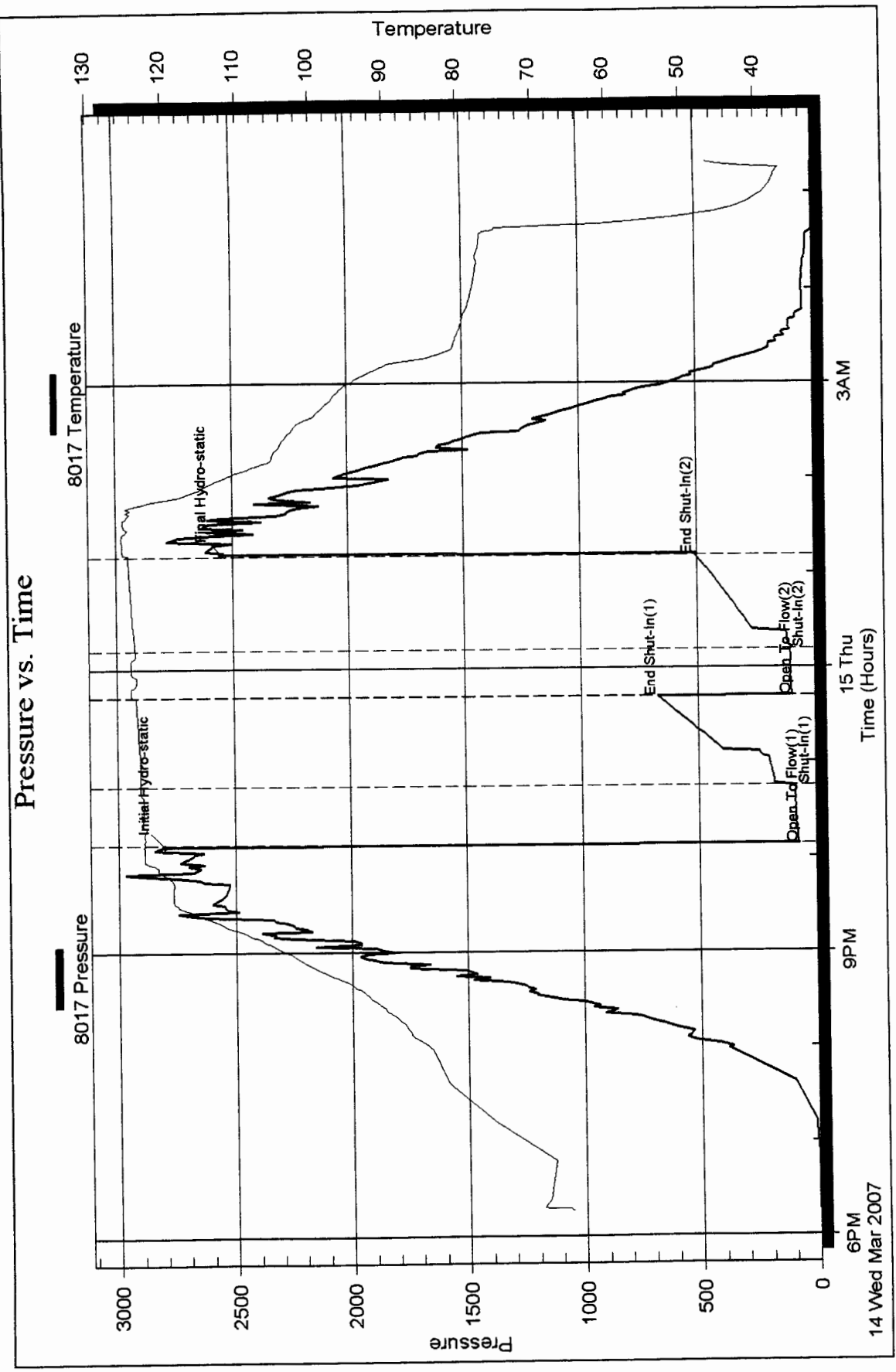
DST Test Number: 1

21 32S31W Sew ard KS

ME Klein & Associates Inc

Inside

Serial #: 8017





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **M E Klein & Associates Inc**

PO Box 721436
Norman OK 73070

ATTN: Roger Pearson/James M

21 32S 31W Seward KS

Wright #1-21

Start Date: 2007.03.16 @ 04:29:58

End Date: 2007.03.16 @ 17:18:37

Job Ticket #: 27331 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

ME Klein & Associates Inc

PO Box 721436
Norman OK 73070

ATTN: Roger Pearson/James M OK 73070

Wright #1-21

21 32S 31W Seward KS

Job Ticket: 27331

DST#: 2

Test Start: 2007.03.16 @ 04:29:58

GENERAL INFORMATION:

Formation: **Judy**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:02:58
 Time Test Ended: 17:18:37

Test Type: Conventional Straddle
 Tester: Chris Hagman
 Unit No: 34

Interval: **4749.00 ft (KB) To 4776.00 ft (KB) (TVD)**
 Total Depth: 6130.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2812.00 ft (KB)
 2805.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8288

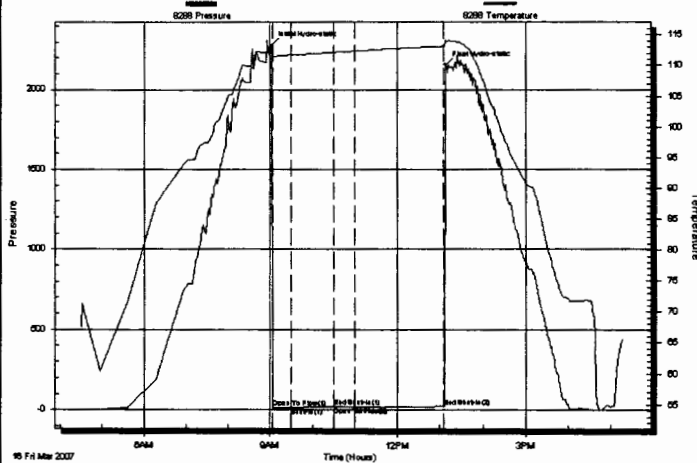
Inside

Press@RunDepth: 17.09 psig @ 4751.00 ft (KB)
 Start Date: 2007.03.16 End Date: 2007.03.16
 Start Time: 04:29:58 End Time: 17:18:38

Capacity: 7000.00 psig
 Last Calib.: 1899.12.30
 Time On Btm: 2007.03.16 @ 09:02:37
 Time Off Btm: 2007.03.16 @ 13:07:37

TEST COMMENT: IF Weak surface blow died 20 sec.
 ISI No blow back
 FF No blow
 FSI No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2277.46	112.18	Initial Hydro-static
1	13.82	111.57	Open To Flow (1)
28	14.66	111.74	Shut-In(1)
88	20.80	112.14	End Shut-In(1)
88	16.73	112.14	Open To Flow(2)
118	17.09	112.36	Shut-In(2)
243	22.36	113.12	End Shut-In(2)
245	2155.02	113.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%M	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

ME Klein & Associates Inc

Wright #1-21

PO Box 721436
Norman OK 73070

21 32S 31W Seward KS

Job Ticket: 27331

DST#: 2

ATTN: Roger Pearson/James MOK 73070

Test Start: 2007.03.16 @ 04:29:58

Tool Information

Drill Pipe:	Length: 4604.00 ft	Diameter: 3.80 inches	Volume: 64.58 bbl	Tool Weight: 2000.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 65.19 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4749.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	4772.00 ft			
Interval between Packers:	23.00 ft			
Tool Length:	131.00 ft			
Number of Packers:	3	Diameter: 7.78 inches		

Tool Comments:

Hookw all hooked straddle graphs do not match good straddle

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4719.00	
Shut In Tool	5.00			4724.00	
Sampler	3.00			4727.00	
Hydraulic tool	5.00			4732.00	
Jars	5.00			4737.00	
Safety Joint	3.00			4740.00	
Packer	5.00			4745.00	31.00 Bottom Of Top Packer
Packer	4.00			4749.00	
Stubb	1.00			4750.00	
Perforations	1.00			4751.00	
Recorder	0.00	8288	Inside	4751.00	
Perforations	20.00			4771.00	
Blank Off Sub	1.00			4772.00	
Recorder	0.00	13759	Inside	4772.00	23.00 Tool Interval
Packer	5.00			4777.00	
Hookw all	5.00			4782.00	
Change Over Sub	1.00			4783.00	
Drill Pipe	62.00			4845.00	
Change Over Sub	1.00			4846.00	
Recorder	0.00	13630	Outside	4846.00	
Bullnose	3.00			4849.00	77.00 Bottom Packers & Anchor
Total Tool Length:	131.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

ME Klein & Associates Inc

Wright #1-21

PO Box 721436
Norman OK 73070

21 32S 31W Seward KS

Job Ticket: 27331

DST#: 2

ATTN: Roger Pearson/James M OK 73070

Test Start: 2007.03.16 @ 04:29:58

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:

3800 ppm

Viscosity: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	100%M	0.025

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: Sampler=4000ML MUD, 10psi

RW=1.62@68F=3800ppm

Serial #: 8288

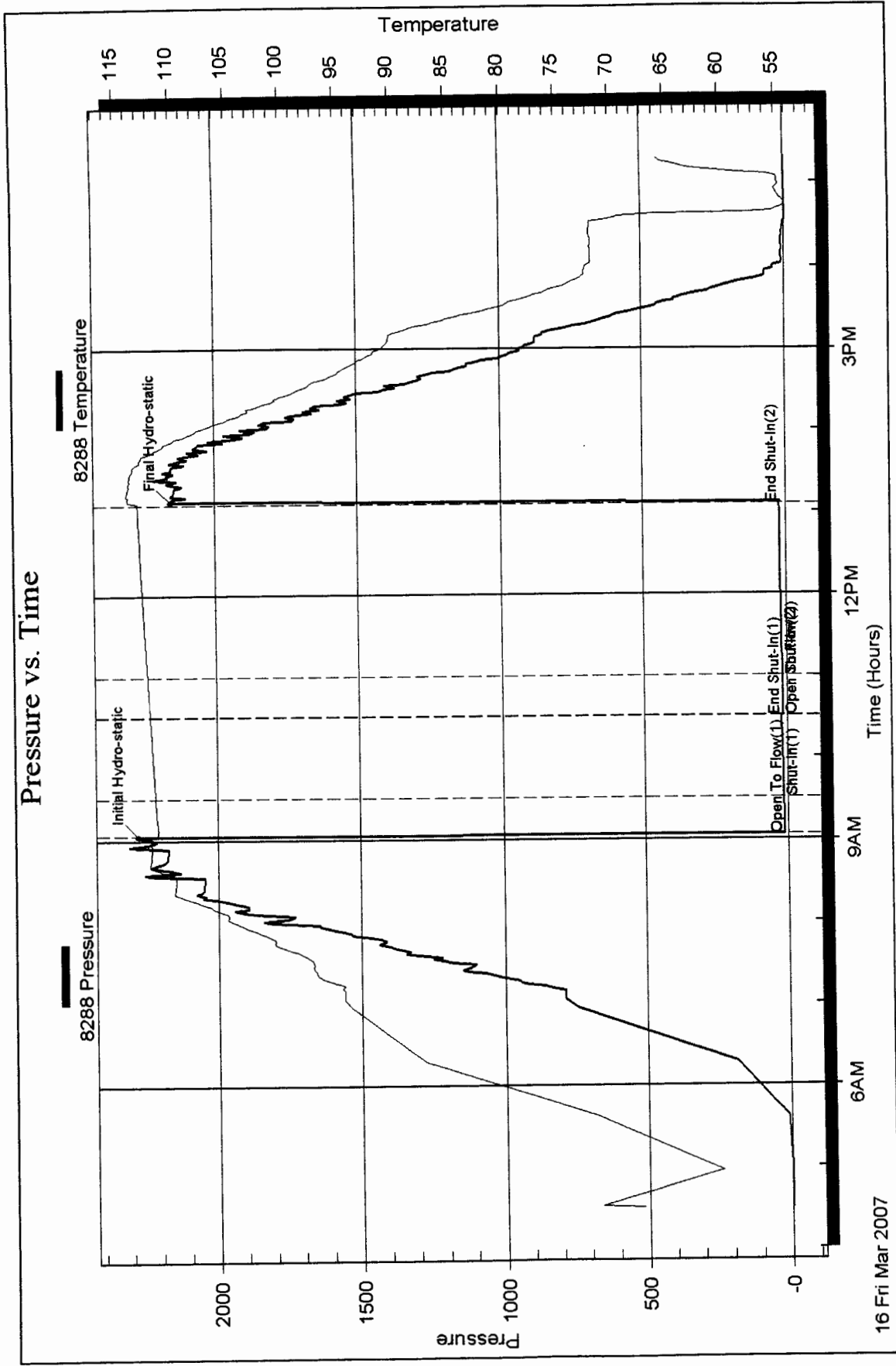
Inside

M/E Klein & Associates Inc

21 32S31W Seward KS

DST Test Number: 2

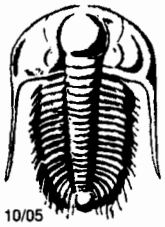
Pressure vs. Time



16 Fri Mar 2007

Trilobe Testing, Inc

Ref. No: 27331



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26487 ✓

9947 ✓

Test Ticket

Well Name & No. <u>Wright #1-21</u>	Test No. <u>1</u>	Date <u>3-14-07</u>
Company <u>M. E. Klein + Associate, Inc.</u>	Zone Tested <u>Aroka</u>	
Address <u>P.O. Box 721436 Norman, OK 73070</u>	Elevation <u>2812</u> KB <u>2805</u> GL	
Co. Rep / Geo. <u>Roger Pearson / James Milne</u>	Rig <u>Abercrombie #3</u>	
Location: Sec. <u>21</u> Twp. <u>32s</u> Rge. <u>31w</u>	Co. <u>Seward</u> State <u>KS</u>	
Comment: _____	Release date / time: _____	

Interval Tested <u>5650 to 5728</u>	Initial Str Wt./Lbs. <u>78,000</u>	Unseated Str Wt./Lbs. <u>78,000</u>
Anchor Length <u>78</u>	Wt. Set Lbs. <u>35,000</u>	Wt. Pulled Loose/Lbs. <u>93,000</u>
Top Packer Depth <u>5650 5644</u>	Tool Weight <u>2,200</u>	
Bottom Packer Depth <u>5728</u>	Hole Size 7 7/8" <u>X</u>	Rubber Size 6 3/4" <u>X</u>
Total Depth <u>5998</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>309</u>
Mud Wt. <u>8.9</u> LCM <u>4</u> Vis. <u>48</u> WL <u>8.0</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>5,321</u>

Blow Description IF: 1/2" blow built to 1 1/2", receded to 1".
ISI: No return.
FF: No blow.
FSI: No return.

Recovery - Total Feet <u>100</u>	GIP <u>—</u>	Ft. in DC <u>100</u>	Ft. in DP <u>—</u>
Rec. <u>100</u> Feet of <u>Mud</u>	%gas	%oil	%water <u>100</u> %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
BHT <u>12.5</u> °F Gravity _____	*API D @ _____	*F Corrected Gravity _____	*API _____
RW _____ @ _____ °F	Chlorides _____ ppm Recovery _____	Chlorides <u>1,200</u> ppm System	

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2825</u>	PSI	<u>813309</u>	<u>1,300</u>
(B) First Initial Flow Pressure	<u>74</u>	PSI	(depth) <u>5652</u>	Jars <u>250</u>
(C) First Final Flow Pressure	<u>87</u>	PSI	Recorder No. <u>8017</u>	Safety Jt. <u>75</u>
(D) Initial Shut-In Pressure	<u>672</u>	PSI	(depth) <u>5716</u>	Circ Sub <u>NIC</u>
(E) Second Initial Flow Pressure	<u>96</u>	PSI	Recorder No. <u>13276</u>	Sampler <u>250</u>
(F) Second Final Flow Pressure	<u>108</u>	PSI	(depth) <u>5993</u>	Straddle <u>600</u>
(G) Final Shut-In Pressure	<u>512</u>	PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>2615</u>	PSI	Initial Shut-In <u>60</u>	Shale Packer <u>200</u>
			Final Flow <u>30</u>	Ruined Packer _____
			Final Shut-In <u>60</u>	Mileage <u>80</u> <u>100</u>
			T-On Location <u>16:55 pm</u>	Sub Total: <u>150</u>
			T-Started <u>18:16 pm</u>	Std. By <u>6.5</u> <u>2925</u>
			T-Open <u>22:08 pm</u>	Acc. Chg: <u>X</u> <u>150.00</u>
			T-Pulled <u>1:13 am</u>	Other: _____
			T-Out <u>5:19 am</u>	Total: _____

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Approved By Roger Pearson
 Our Representative Chuck Smith



TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 26487 Date 3-14-2007
 Company Name M. E. Klein Associate, Inc.
 Lease Wright #1-21 Test No. DST #1
 County Seward KS Sec. 21 Twp. 32^s Rng. 31^w

SAMPLER RECOVERY

Gas — ML
 Oil — ML
 Mud 3,000 ML
 Water — ML
 Other — ML
 Pressure 15 PSI ML
 Total 3,000 ML

PIT MUD ANALYSIS

Chlorides 1200 ppm.
 Resistivity — ohms @ — F
 Viscosity 48
 Mud Weight 8.9
 Filtrate 8.0
 Other LCM 4*

SAMPLER ANALYSIS

Resistivity — ohms @ — F
 Chlorides 1,200 ppm.
 Gravity — corrected @60F

PIPE RECOVERY

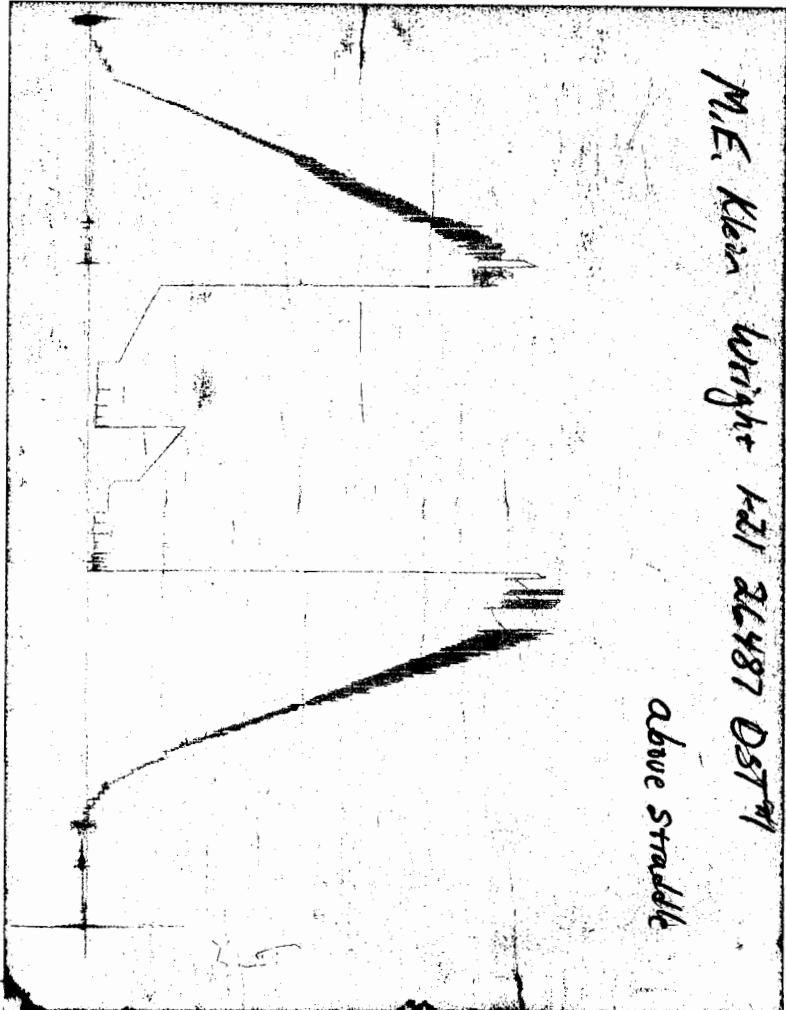
TOP
 Resistivity — ohms @ — F
 Chlorides 1,200 ppm.
MIDDLE
 Resistivity — ohms @ — F
 Chlorides 1,200 ppm.
BOTTOM
 Resistivity — ohms @ — F
 Chlorides 1,200 ppm.

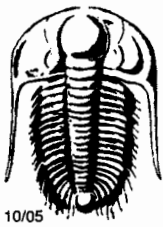
CHART PAGE

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

M.E. Klein Wright Feb 26 1987 DST

above straddle





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

27331

9947 ✓

Test Ticket

Well Name & No. Wright 1-21 Test No. 2 Date 3-16-07
 Company M.E. Klein Associates, Inc. Zone Tested Judy
 Address P.O. Box 721436 Norman, OK 73070 Elevation 2815 KB 2805 GL
 Co. Rep / Geo. Roger Pearson Rig Aber 03
 Location: Sec. 21 Twp. 32 Rge. 31 Co. Seward State KS
 Comment: _____ Release date / time: _____

Interval Tested 4749-4776 Initial Str Wt./Lbs. 52K Unseated Str Wt./Lbs. 52K
 Anchor Length 27' Wt. Set Lbs. 20K Wt. Pulled Loose/Lbs. 75K
 Top Packer Depth 4744 Tool Weight 2K
 Bottom Packer Depth 4749 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 6130 Wt. Pipe Run N.A. Drill Collar Run 124
 Mud Wt. 9.0 LCM 40 Vis. 70 WL 8.2 Drill Pipe Size 4.5XH Ft. Run 4604

Blow Description IF: Weak surface blow, died 20 sec. / good Hookwell *
BSB: No blow back / graphs didn't match, good Straddle *
PF: No blow
PSB: No blow back

Recovery - Total Feet 5 GIP 0 Ft. in DC 5 Ft. in DP 0
 Rec. 5 Feet of Mud %gas _____ %oil _____ %water 100 %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 _____
 BHT 113 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW 1.62 @ 68 °F Chlorides 3800 ppm Recovery _____ Chlorides 1400 ppm System

	AK-1	Alpine	Recorder No.	Test	
(A) Initial Hydrostatic Mud	<u>2283</u>	PSI	<u>8288 (4:28)</u>	<u>Hookwell</u>	<u>1200</u>
(B) First Initial Flow Pressure	<u>14</u>	PSI	(depth) <u>4751</u>	Jars <u>✓</u>	<u>250</u>
(C) First Final Flow Pressure	<u>15</u>	PSI	Recorder No. <u>13630 13759</u>	Safety Jt. <u>✓</u>	<u>75</u>
(D) Initial Shut-In Pressure	<u>21</u>	PSI	(depth) <u>4772</u>	Circ Sub _____	
(E) Second Initial Flow Pressure	<u>17</u>	PSI	Recorder No. <u>13630 out</u>	Sampler <u>✓</u>	<u>250</u>
(F) Second Final Flow Pressure	<u>17</u>	PSI	(depth) <u>4841</u>	Hook Straddle <u>✓</u>	<u>500</u>
(G) Final Shut-In Pressure	<u>22</u>	PSI	Initial Opening <u>30</u>	Ext. Packer _____	
(Q) Final Hydrostatic Mud	<u>2155</u>	PSI	Initial Shut-In <u>60</u>	Shale Packer <u>✓</u>	<u>200</u>
			Final Flow <u>30</u>	Ruined Packer _____	
			Final Shut-In <u>120</u>	Mileage <u>✓</u>	<u>80 100</u>

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Approved By Roger Pearson
 Our Representative CHRIS

T-On Location 0300 Sub Total: _____
 T-Started 0430 Std. By ✓ 4.0 400
 T-Open 0900 Acc. Chg: ✓ 4.0 2975
 T-Pulled 1300 Other: _____
 T-Out 1700 Total: 150



TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 27331 Date 3-16-07

Company Name M.E. Klein Associates, Inc.

Lease Wright 1-21 Test No. 2

County Seward Sec. 21 Twp. 32 Rng. 31

SAMPLER RECOVERY

Gas 0 ML

Oil 0 ML

Mud 4000 ML

Water 0 ML

Other 0 ML

Pressure 10 psi ML

Total 4000 ML

PIT MUD ANALYSIS

Chlorides 1400 ppm.

Resistivity _____ ohms @ _____ F

Viscosity 70

Mud Weight ~~8.2~~ 9.0

Filtrate 8.2

Other 4 # LCM

SAMPLER ANALYSIS

Resistivity 1.62 ohms @ 68 F

Chlorides 3800 ppm.

Gravity _____ corrected @60F

PIPE RECOVERY

TOP

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

MIDDLE

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

BOTTOM

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

CHART PAGE

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

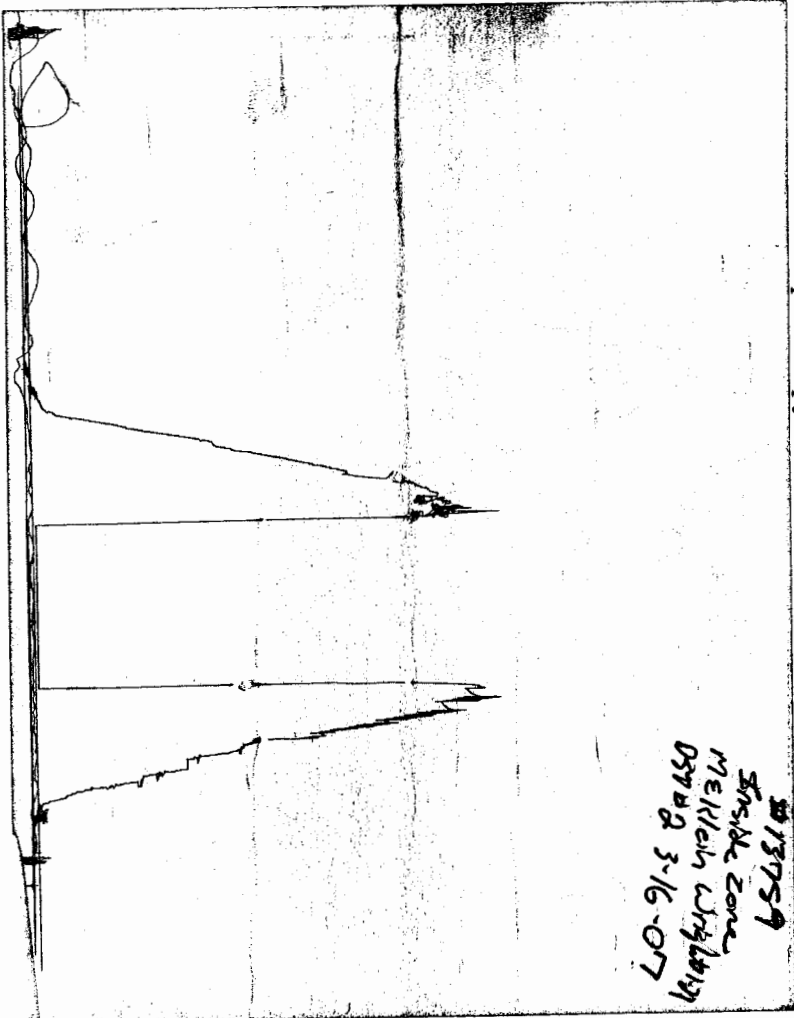


CHART PAGE

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

