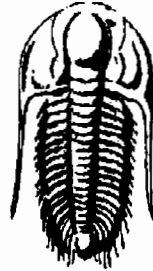


15-007-22799

2-34s-11w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Woolsey Oper Co**

125 North Market
Suite 1000
Wichita, Ks 67202

ATTN: Wes Hansen

2-34s-11w

Powell A #2

Start Date: 2004.01.30 @ 22:33:40

End Date: 2004.01.31 @ 07:43:27

Job Ticket #: 17222 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Woolsey Oper Co

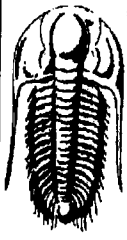
Powell A #2

2-34s-11w

DST # 1

Mississippi

2004.01.30



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Woolsey Oper Co
125 North Market
Suite 1000
Wichita, Ks 67202
ATTN: Wes Hansen

Powell A #2

2-34s-11w

Job Ticket: 17222

DST#: 1

Test Start: 2004.01.30 @ 22:33:40

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:17:47

Time Test Ended: 07:43:27

Test Type: Conventional Bottom Hole

Tester: Nick Budig

Unit No: 17

Interval: **4566.00 ft (KB) To 4596.00 ft (KB) (TVD)**

Reference Elevations: 1432.00 ft (KB)

Total Depth: 4596.00 ft (KB) (TVD)

1421.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6771

Inside

Press@RunDepth: 212.33 psig @ 4568.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2004.01.30

End Date:

2004.01.31

Last Calib.:

2004.01.31

Start Time: 22:33:45

End Time:

07:43:27

Time On Btm:

2004.01.31 @ 01:07:47

Time Off Btm:

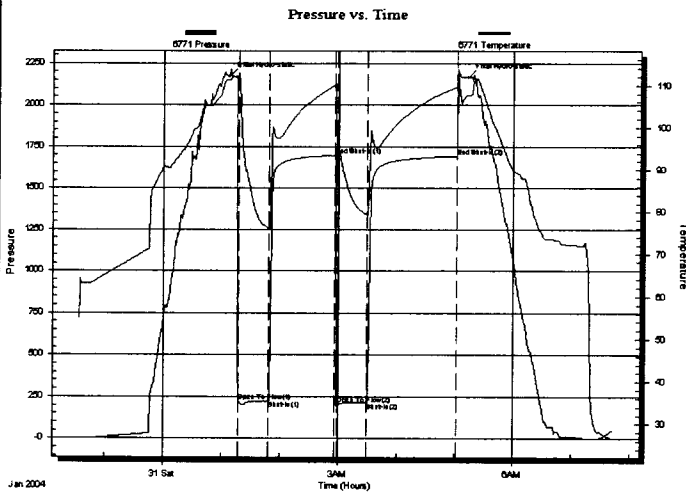
2004.01.31 @ 05:12:47

TEST COMMENT: IF- obb as soon as tool opened, GTS in 3 min

IS- No Blow

FF- obb as soon as tool opened

FSI- No Blow



PRESSURE SUMMARY

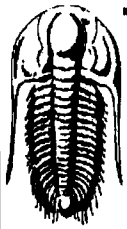
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2170.59	111.23	Initial Hydro-static
10	222.41	113.00	Open To Flow (1)
41	225.14	75.80	Shut-In(1)
109	1697.72	110.22	End Shut-In(1)
112	202.74	93.49	Open To Flow (2)
142	212.33	79.45	Shut-In(2)
234	1693.06	109.73	End Shut-In(2)
245	2166.33	107.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	Gas cut mud	1.23

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	40.00	849.72
Last Gas Rate	0.75	50.00	1005.92
Max. Gas Rate	0.75	50.00	1005.92



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Oper Co
125 North Market
Suite 1000
Wichita, Ks 67202
ATTN: Wes Hansen

Powell A #2
2-34s-11w
Job Ticket: 17222 **DST#: 1**
Test Start: 2004.01.30 @ 22:33:40

Tool Information

Drill Pipe:	Length: 4445.00 ft	Diameter: 3.38 inches	Volume: 49.33 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: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 80000.00 lb
			Total Volume: 49.94 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	4566.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	57.00 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			4540.00	
Shut In Tool	5.00			4545.00	
Hydraulic tool	5.00			4550.00	
Jars	5.00			4555.00	
Safety Joint	2.00			4557.00	
Packer	5.00			4562.00	27.00 Bottom Of Top Packer
Packer	4.00			4566.00	
Stubb	1.00			4567.00	
Perforations	1.00			4568.00	
Recorder	0.00	6771	Inside	4568.00	
Perforations	25.00			4593.00	
Recorder	0.00	13761	Inside	4593.00	
Bullnose	3.00			4596.00	30.00 Bottom Packers & Anchor

Total Tool Length: 57.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Oper Co

Powell A #2

125 North Market

2-34s-11w

Suite 1000

Job Ticket: 17222

DST#: 1

Wichita, Ks 67202

Test Start: 2004.01.30 @ 22:33:40

ATTN: Wes Hansen

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:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	Gas cut mud	1.231

Total Length: 180.00 ft

Total Volume: 1.231 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Woolsey Oper Co
125 North Market
Suite 1000
Wichita, Ks 67202
ATTN: Wes Hansen

Powell A #2
2-34s-11w
Job Ticket: 17222 **DST#: 1**
Test Start: 2004.01.30 @ 22:33:40

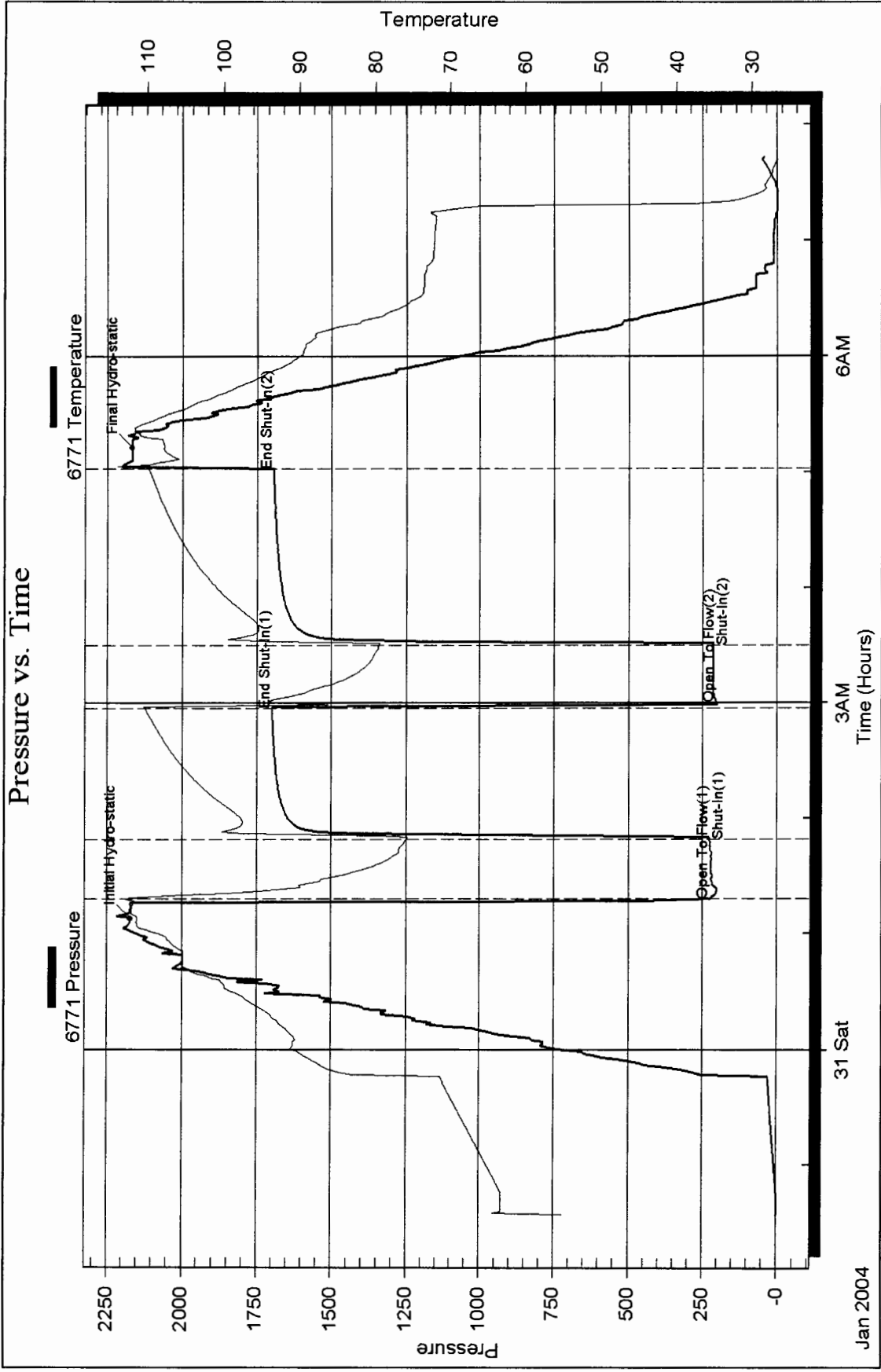
Gas Rates Information

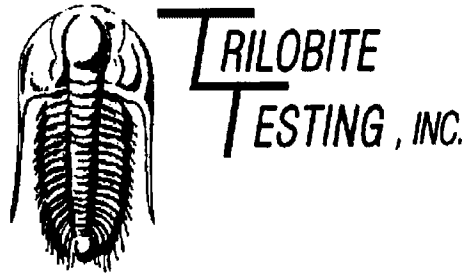
Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	10	0.75	40.00	849.72
1	15	0.75	42.00	880.96
1	20	0.75	44.00	912.20
1	25	0.75	44.50	920.01
1	30	0.75	44.50	920.01
2	10	0.75	48.00	974.68
2	15	0.75	50.00	1005.92
2	20	0.75	50.00	1005.92
2	25	0.75	50.00	1005.92
2	30	0.75	50.00	1005.92

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Woolsey Oper Co**

125 North Market
Suite 1000
Wichita, Ks 67202

ATTN: Wes Hansen

2-34s-11w

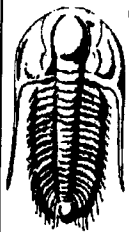
Powell A #2

Start Date: 2004.01.31 @ 19:25:09

End Date: 2004.02.01 @ 06:09:05

Job Ticket #: 17223 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

Woolsey Oper Co
125 North Market
Suite 1000
Wichita, Ks 67202
ATTN: Wes Hansen

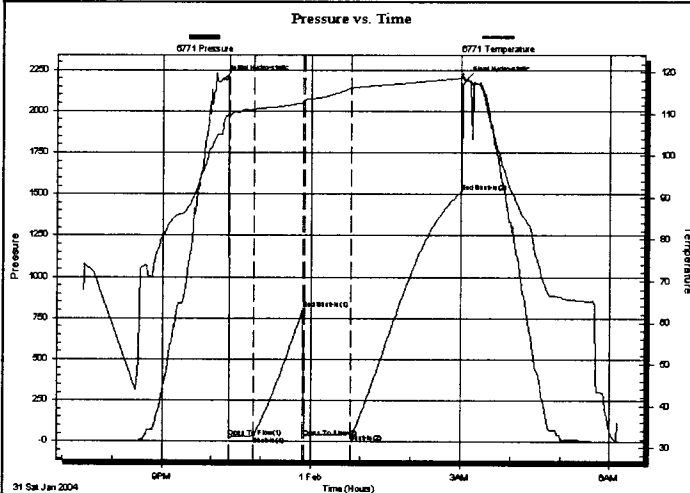
Powell A #2
2-34s-11w
Job Ticket: 17223 **DST#: 2**
Test Start: 2004.01.31 @ 19:25:09

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 22:21:05
Time Test Ended: 06:09:05
Interval: **4596.00 ft (KB) To 4616.00 ft (KB) (TVD)**
Total Depth: **4616.00 ft (KB) (TVD)**
Hole Diameter: **7.78 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole**
Tester: **Nick Budig**
Unit No: **17**
Reference Elevations: **1432.00 ft (KB)**
1421.00 ft (CF)
KB to GR/CF: **11.00 ft**

Serial #: 6771 **Inside**
Press@RunDepth: **46.78 psig @ 4598.00 ft (KB)** Capacity: **7000.00 psig**
Start Date: **2004.01.31** End Date: **2004.02.01** Last Calib.: **2004.02.01**
Start Time: **19:25:14** End Time: **06:09:04** Time On Btm: **2004.01.31 @ 22:14:25**
Time Off Btm: **2004.02.01 @ 03:05:04**

TEST COMMENT: F- Weak Blow obb in 18 min
IS- No Blow
FF- Fair Blow obb in 1.5 min
FSI- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2193.64	108.54	Initial Hydro-static
7	24.08	109.80	Open To Flow (1)
36	33.71	111.06	Shut-In(1)
96	806.04	112.65	End Shut-In(1)
98	25.86	113.29	Open To Flow (2)
154	46.78	116.17	Shut-In(2)
286	1510.97	118.64	End Shut-In(2)
291	2188.56	117.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Gas cut oily mud	0.44

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Oper Co
125 North Market
Suite 1000
Wichita, Ks 67202
ATTN: Wes Hansen

Powell A #2
2-34s-11w
Job Ticket: 17223 **DST#: 2**
Test Start: 2004.01.31 @ 19:25:09

Tool Information

Drill Pipe:	Length: 4476.00 ft	Diameter: 3.38 inches	Volume: 49.67 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: 24000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 110000.0 lb
		Total Volume:	50.28 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4596.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	47.00 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			4570.00	
Shut In Tool	5.00			4575.00	
Hydraulic tool	5.00			4580.00	
Jars	5.00			4585.00	
Safety Joint	2.00			4587.00	
Packer	5.00			4592.00	27.00 Bottom Of Top Packer
Packer	4.00			4596.00	
Stubb	1.00			4597.00	
Perforations	1.00			4598.00	
Recorder	0.00	6771	Inside	4598.00	
Perforations	15.00			4613.00	
Recorder	0.00	13761	Inside	4613.00	
Bullnose	3.00			4616.00	20.00 Bottom Packers & Anchor

Total Tool Length: 47.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Oper Co

Powell A #2

125 North Market

2-34s-11w

Suite 1000

Job Ticket: 17223

DST#: 2

Wichita, Ks 67202

Test Start: 2004.01.31 @ 19:25:09

ATTN: Wes Hansen

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:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	Gas cut oily mud	0.443

Total Length: 90.00 ft

Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6771

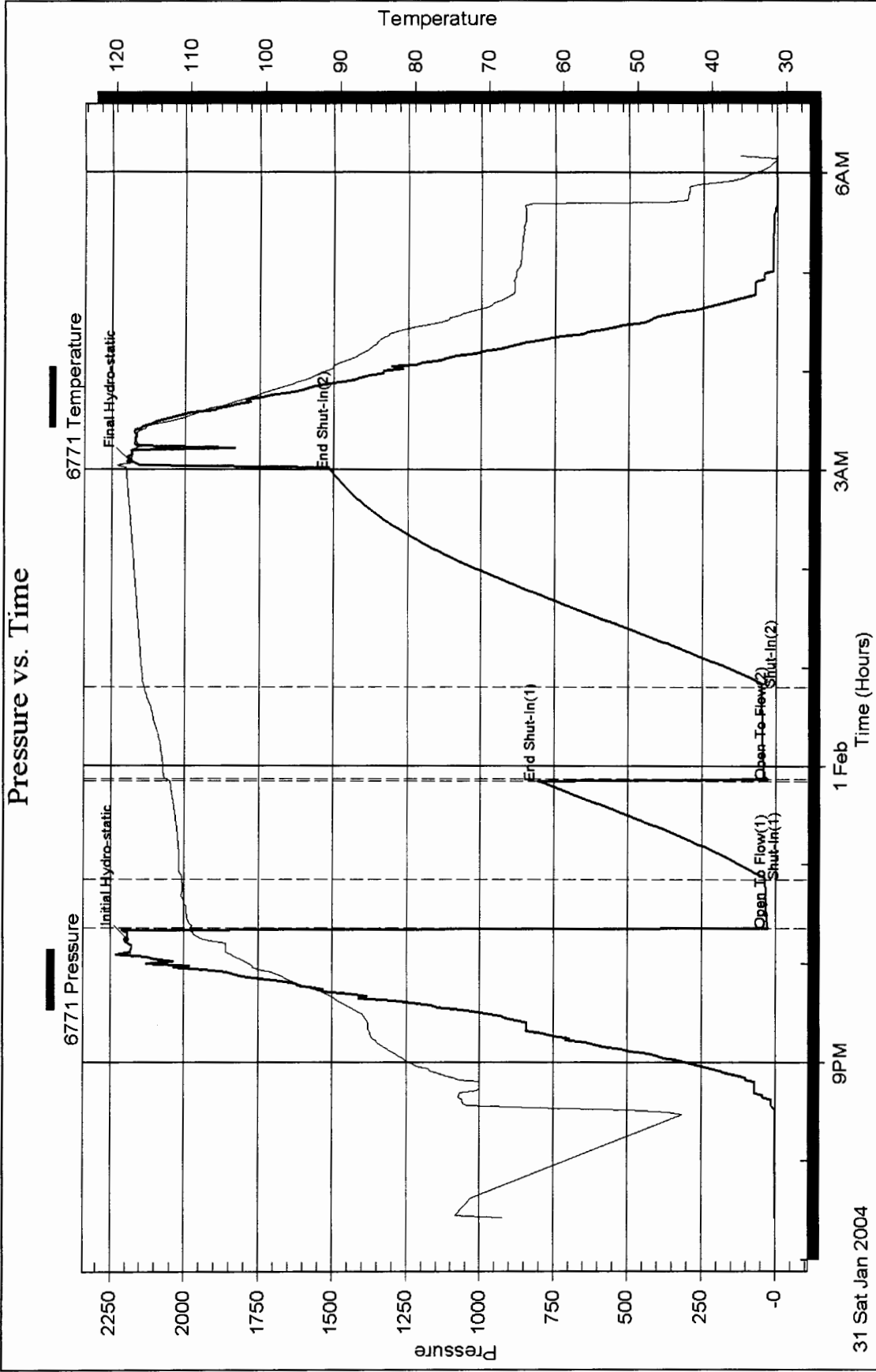
Inside

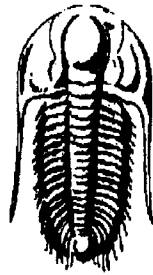
Woodsey Oper Co

2-34s-11w

DST Test Number: 2

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Woolsey Oper Co**

125 North Market
Suite 1000
Wichita, Ks 67202

ATTN: Wes Hansen

2-34s-11w

Powell A #2

Start Date: 2004.02.02 @ 16:19:33

End Date: 2004.02.03 @ 02:08:50

Job Ticket #: 17224 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Woolsey Oper Co

Powell A #2

2-34s-11w

DST # 3

Misener/ Viola

2004.02.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Woolsey Oper Co
125 North Market
Suite 1000
Wichita, Ks 67202
ATTN: Wes Hansen

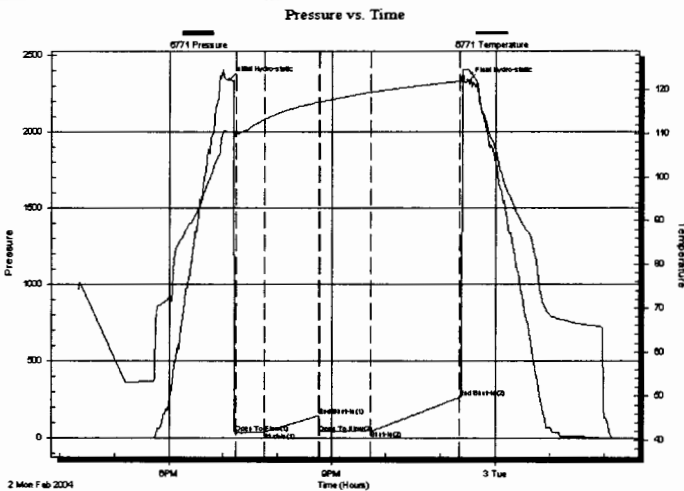
Powell A #2
2-34s-11w
Job Ticket: 17224 **DST#: 3**
Test Start: 2004.02.02 @ 16:19:33

GENERAL INFORMATION:

Formation: **Misener/ Viola**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 19:14:31
Time Test Ended: 02:08:50
Interval: **4880.00 ft (KB) To 4924.00 ft (KB) (TVD)**
Total Depth: **4924.00 ft (KB) (TVD)**
Hole Diameter: **7.78 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole**
Tester: **Nick Budig**
Unit No: **17**
Reference Elevations: **1432.00 ft (KB)**
1421.00 ft (CF)
KB to GR/CF: **11.00 ft**

Serial #: 6771 Inside
Press@RunDepth: **51.34 psig @ 4884.00 ft (KB)**
Start Date: **2004.02.02** End Date: **2004.02.03**
Start Time: **16:19:38** End Time: **02:08:51**
Capacity: **7000.00 psig**
Last Calib.: **2004.02.03**
Time On Btm: **2004.02.02 @ 19:06:21**
Time Off Btm: **2004.02.02 @ 23:30:01**

TEST COMMENT: IF- Weak blow 5 inches in bucket
IS- No Blow
FF- Weak Blow 11 inches in Bucket
FS- No Blow



PRESSURE SUMMARY

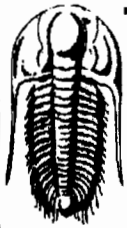
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2338.08	110.47	Initial Hydro-static
9	34.83	110.06	Open To Flow (1)
40	41.90	113.33	Shut-In(1)
100	148.95	117.24	End Shut-In(1)
101	36.50	117.24	Open To Flow (2)
157	51.34	119.43	Shut-In(2)
255	266.78	122.01	End Shut-In(2)
264	2331.56	124.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	mud	0.37

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Woolsey Oper Co

Powell A #2

125 North Market
Suite 1000
Wichita, Ks 67202
ATTN: Wes Hansen

2-34s-11w

Job Ticket: 17224

DST#: 3

Test Start: 2004.02.02 @ 16:19:33

Tool Information

Drill Pipe:	Length: 4756.00 ft	Diameter: 3.38 inches	Volume: 52.78 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: 24000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 53.39 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	4880.00 ft			Final 79000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	71.00 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			4854.00		
Shut In Tool	5.00			4859.00		
Hydraulic tool	5.00			4864.00		
Jars	5.00			4869.00		
Safety Joint	2.00			4871.00		
Packer	5.00			4876.00	27.00	Bottom Of Top Packer
Packer	4.00			4880.00		
Stubb	1.00			4881.00		
Perforations	2.00			4883.00		
Change Over Sub	1.00			4884.00		
Recorder	0.00	6771	Inside	4884.00		
Blank Spacing	32.00			4916.00		
Change Over Sub	1.00			4917.00		
Perforations	4.00			4921.00		
Recorder	0.00	13761	Inside	4921.00		
Bullnose	3.00			4924.00	44.00	Bottom Packers & Anchor
Total Tool Length:	71.00					



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Oper Co

Powell A #2

125 North Market

2-34s-11w

Suite 1000

Job Ticket: 17224

DST#: 3

Wichita, Ks 67202

Test Start: 2004.02.02 @ 16:19:33

ATTN: Wes Hansen

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:

ppm

Viscosity: 40.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7200.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	mud	0.369

Total Length: 75.00 ft

Total Volume: 0.369 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6771

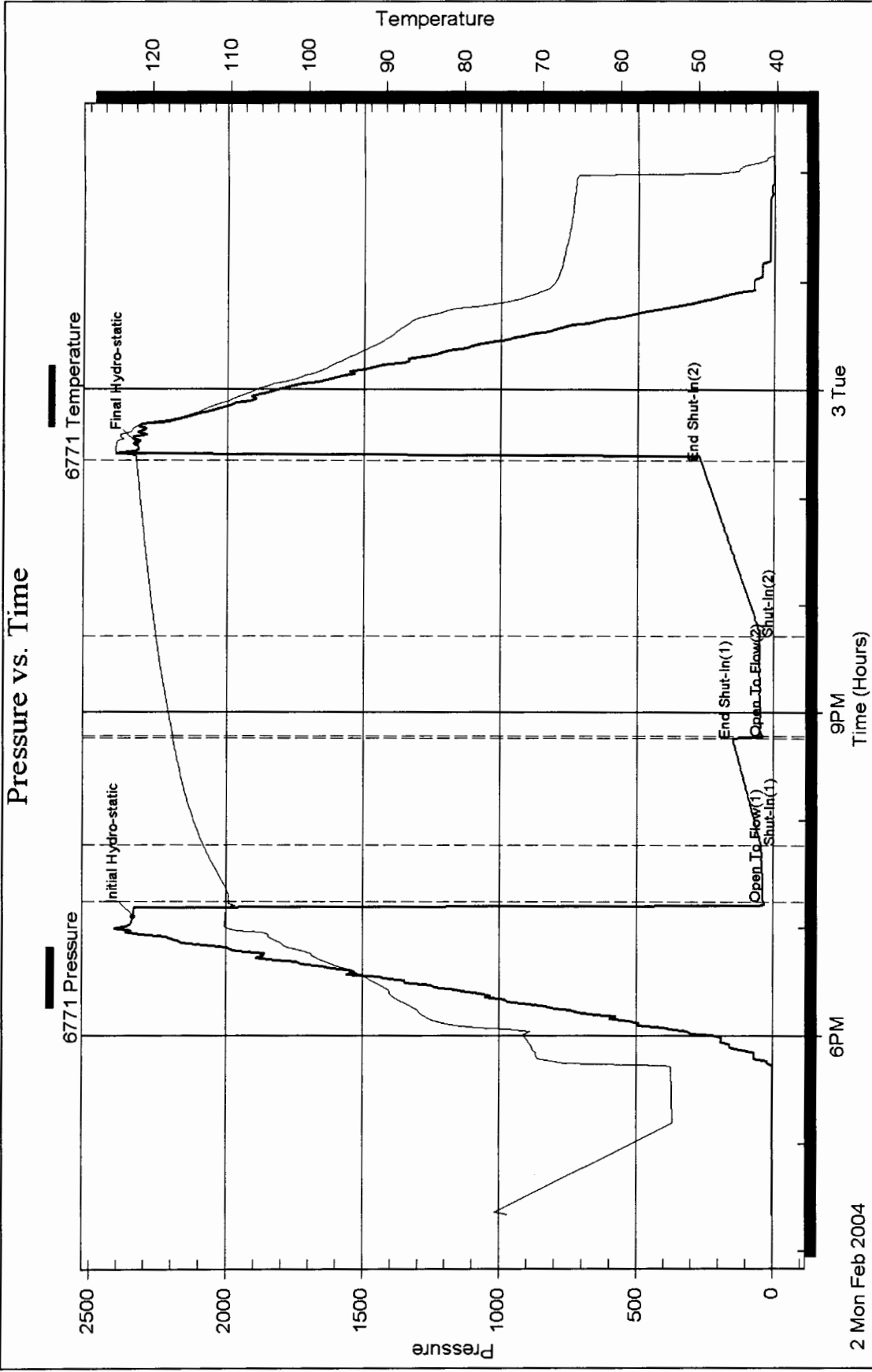
Inside

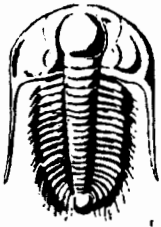
Woodsey Oper Co

2-34s-11w

DST Test Number: 3

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

*TNW
6180*

No 17222

Test Ticket

Well Name & No. Powell A #2 Test No. 1 Date 1-30-09
 Company Woodsey Oper CO, LLC Zone Tested Mississippi
 Address 125 N. Market St 1000 Wichita, Ks 67202 Elevation 1432 KB 1421 GL
 Co. Rep / Geo. Wes Hansen Cont. Duke #5 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 2 Twp. 34s Rge. 11 w Co. Barber State Ks
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4566 - 4596 Initial Str Wt./Lbs. 78,000 Unseated Str Wt./Lbs. 78,000
 Anchor Length 30' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 80,000
 Top Packer Depth 4561 Tool Weight 2200
 Bottom Packer Depth 4566 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 4596 Wt. Pipe Run 0 Drill Collar Run 124
 Mud Wt. 9.2 LCM _____ Vis. 48 WL 6.8 Drill Pipe Size 4 1/2 Ft. Run 4445

Blow Description IF - OBB as soon as tool opened, GTS in 3 min
FSI - No Blow
FF - OBB as soon as tool opened
FSI - No Blow

Recovery - Total Feet 120 GIP GTS Ft. in DC 120 Ft. in DP ~~60~~ 60

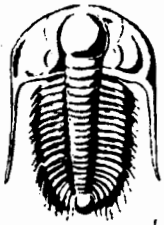
Rec. 120 Feet of Gas cut Mud
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____

BHT 110 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 5,000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>8171</u> PSI	<u>6771</u>	<u>800</u>
(B) First Initial Flow Pressure		<u>222</u> PSI	(depth) <u>4567</u>	Elec. Rec. <u>150</u>
(C) First Final Flow Pressure		<u>225</u> PSI	Recorder No. <u>13761</u>	Jars <u>200</u>
(D) Initial Shut-In Pressure		<u>1698</u> PSI	(depth) <u>4593</u>	Safety Jt. <u>50</u>
(E) Second Initial Flow Pressure		<u>203</u> PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure		<u>212</u> PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure		<u>1693</u> PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud		<u>2166</u> PSI	Initial Shut-In <u>60</u>	Ext. Packer _____
			Final Flow <u>30</u>	Shale Packer _____
			Final Shut-In <u>90</u>	Mileage <u>54</u>
			T-On Location <u>8:45</u>	Sub Total: <u>1291.80</u>
			T-Started <u>10:33 P.M.</u>	Std. By <u>2hr 60</u>
			T-Open <u>1:17</u>	Other _____
			T-Pulled <u>5:15</u>	Total: <u>1351.80</u>
			T-Out <u>7:43</u>	

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE 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 Wesley Hansen
 Our Representative Nick Budig



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 17223

12/02

Test Ticket

Well Name & No. Powell A # 2 Test No. 2 Date 1-31-04
 Company Woolsey Oper Co, LLC Zone Tested Mississippi
 Address 125 N. Market Suite 1000 Wichita, Ks 67202 Elevation 1432 KB 1421 GL
 Co. Rep / Geo. Wes Hansen Cont. Duke #5 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 2 Twp. 34s Rge. 11w Co. Barber State Ks
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested ~~4596~~ 4596 - 4616 Initial Str Wt./Lbs. 76,000 Unseated Str Wt./Lbs. 76,000
 Anchor Length 20' Wt. Set Lbs. 24,000 Wt. Pulled Loose/Lbs. 110,000
 Top Packer Depth 4591 Tool Weight 2200
 Bottom Packer Depth 4596 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 4616 Wt. Pipe Run 0 Drill Collar Run 124
 Mud Wt. 9.2 LCM _____ Vis. 53 WL 6.8 Drill Pipe Size 4 1/2 Ft. Run 4507

Blow Description IF - Weak Blow OBB in 18 min
ISI - No Blow
FF - Fair Blow OBB 1.5 min
FSI - No Blow

Recovery - Total Feet 90 GIP 1000 Ft. in DC 90 Ft. in DP 0

Rec. 90 Feet of Gas cut oily mud
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____

BHT 119 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 6000 ppm System

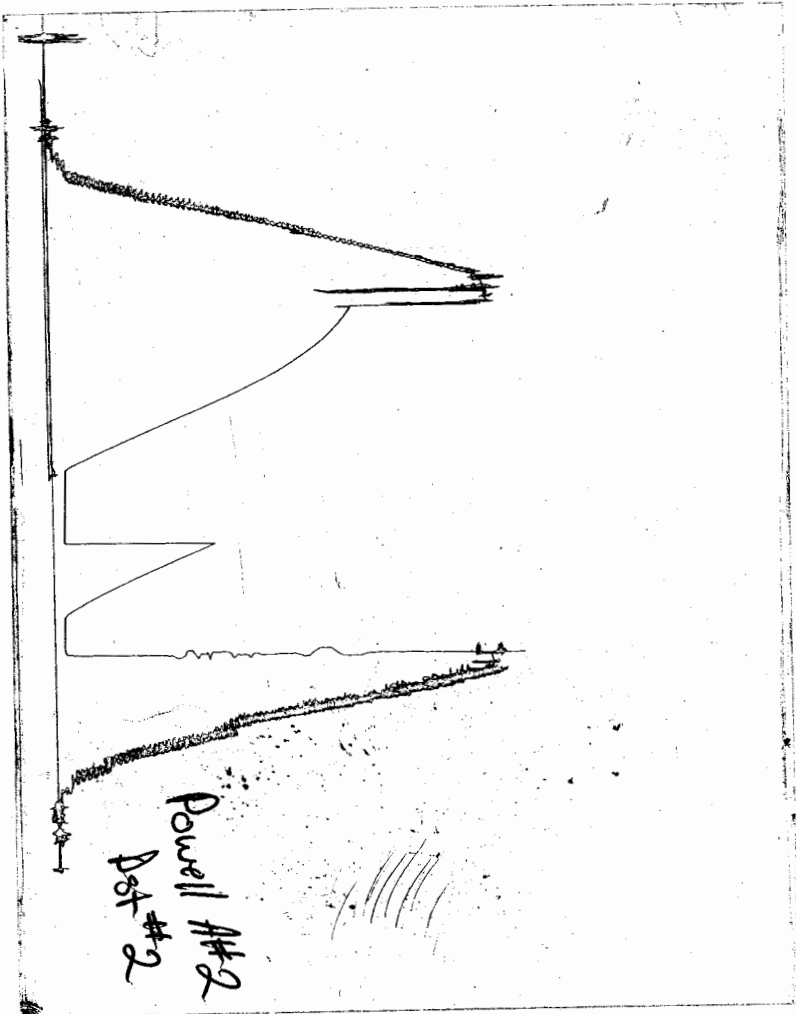
	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2194</u>	PSI	<u>6771</u>	<u>800</u>
(B) First Initial Flow Pressure	<u>24</u>	PSI	(depth) <u>4598</u>	Elec. Rec. <u>150</u>
(C) First Final Flow Pressure	<u>34</u>	PSI	Recorder No. <u>13761</u>	Jars <u>200</u>
(D) Initial Shut-In Pressure	<u>806</u>	PSI	(depth) <u>4613</u>	Safety Jt. <u>50</u>
(E) Second Initial Flow Pressure	<u>26</u>	PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	<u>47</u>	PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>1511</u>	PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>2189</u>	PSI	Initial Shut-In <u>60</u>	Ext. Packer _____
			Final Flow <u>60</u>	Shale Packer _____
			Final Shut-In <u>120</u>	Mileage <u>54</u>
			T-On Location <u>7:00 P.M.</u>	Sub Total: <u>1291.80</u>
			T-Started <u>7:25</u>	Std. By <u>60</u>
			T-Open <u>10:20</u>	Other _____
			T-Pulled <u>2:50</u>	Total: <u>1351.80</u>
			T-Out <u>6:09</u>	

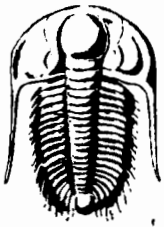
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST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

Approved By Wesley Hansen

Our Representative Nick Brady

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 17224

12/02

Test Ticket

Well Name & No. Powell A#2 Test No. 3 Date 2-2-04
 Company Woolsey Oper CO. Zone Tested Mixer / Viola
 Address 125 N. Market Suite 1000 Wichita, Ks 67202 Elevation 1432 KB 1421 GL
 Co. Rep / Geo. Wes Hansen Cont. Duke # 5 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 2 Twp. 34s Rge. 11w Co. Barber State Ks
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4880 - 4924 Initial Str Wt./Lbs. 78,000 Unseated Str Wt./Lbs. 79,000
 Anchor Length 44' Wt. Set Lbs. 24,000 Wt. Pulled Loose/Lbs. 85,000
 Top Packer Depth 4875 Tool Weight 2200
 Bottom Packer Depth 4880 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 4924 Wt. Pipe Run 0 Drill Collar Run 124
 Mud Wt. 9.2 LCM _____ Vis. 40 WL 8.0 Drill Pipe Size 4 1/2 Ft. Run 4756 4787

Blow Description IF-Weak blow, 5 inches in bucket
ISI-No Blow
FF-Weak Blow, 11 inches in bucket
FSI-No Blow

Recovery - Total Feet 75 GIP 200 Ft. in DC 75 Ft. in DP 0
 Rec. 75 Feet of Mud
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 BHT 122 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 7200 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>2338</u> PSI	<u>6771</u>	<u>800</u>
(B) First Initial Flow Pressure		<u>35</u> PSI	(depth) <u>4882 4884</u>	Elec. Rec. <u>150</u>
(C) First Final Flow Pressure		<u>42</u> PSI	Recorder No. <u>13761</u>	Jars <u>200</u>
(D) Initial Shut-In Pressure		<u>149</u> PSI	(depth) <u>4921</u>	Safety Jt. <u>50</u>
(E) Second Initial Flow Pressure		<u>37</u> PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure		<u>51</u> PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure		<u>267</u> PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud		<u>2332</u> PSI	Initial Shut-In <u>60</u>	Ext. Packer _____
			Final Flow <u>60</u>	Shale Packer _____
			Final Shut-In <u>90</u>	Mileage <u>54</u>

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE 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 Wesley Hansen
 Our Representative Nick Brooks

T-On Location 12:30 PM Sub Total: 1291.80
 T-Started 4:19 Std. By 2hr 60
 T-Open 7:13 Other _____
 T-Pulled 12:43 Total: 1351.80
 T-Out 2:08 AM

CHART PAGE

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

